



February 29, 2016

EnviroAnalytics Group, LLC
1650 Des Peres Road, Suite 303
Saint Louis, MO 63131

Attn.: Mr. David Craig
Project Manager

RE: **Results of Follow Up Indoor Air and Outdoor Ambient Air Analyses
& Additional Soil and Cinder Block Analyses.**

Nexus Church Building
3144 Cullman Avenue, Charlotte NC
WR Project Number: 03130430.03

Dear Mr. Craig,

As authorized by EnviroAnalytics Group, LLC (EAG) WithersRavenel (WR) has completed the collection of indoor air and outdoor ambient air samples from the Nexus Church building located at 3144 Cullman Avenue in Charlotte, NC. The samples were submitted to ESC Lab Sciences (ESC) where they were analyzed for 1,1 dichloroethene (1,1 DCE), cis 1,2 dichloroethene (cis 1,2 DCE), trans 1,2 dichloroethene (trans 1,2 DCE), tetrachloroethylene (PCE), trichloroethylene (TCE) and vinyl chloride (VC) by EPA Method TO 15 Selected Ion Method (SIM). WR also collected six shallow soil samples from locations adjacent to the rear loading dock located on the south side of the Nexus Church, and three samples of the deteriorated cinder block that partially comprise the loading dock. Each of these samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260/5035A. This report provides description and documentation of the sampling activities and the results of the laboratory analyses.

Documentation of Sampling Activities

Indoor Air and Outdoor Ambient Air Sampling

On February 4, 2016 WR representative Christopher Fay returned to the subject site to collect follow up samples of indoor air and outdoor ambient air. The first indoor and outdoor air sampling event was conducted in August 2015. WR met with Pastor Noah Manyika, who is the owner of the building at 3144 Cullman Avenue and leader of the Nexus Church. Pastor Manyika provided access to the inside of the building. WR then deployed three individually certified six-liter summa canisters each equipped with 24-hour flow controllers inside the building at the approximate locations shown in **Figure 1**. One of the canisters was placed on a table in the approximate center of the Fellowship Hall (sample ID IA-1 Fellowships). The remaining two canisters were placed side by side on a table located near the approximate

center of the sanctuary (sample IDs IA-2 Sanctuary and Dup Sanctuary). These are the same sampling locations WR utilized in August 2015. Following deployment of the canisters, WR and Pastor Manyika left the building and locked the door.

WR then deployed two individually certified six-liter summa canisters with 24-hour flow controllers at locations between five and fifteen feet from the southern and northern exterior walls of the building (sample IDs Ambient South and Ambient North). These are the same ambient air sampling locations to the north and south of the church that WR utilized in August 2015. The canisters were secured using chains and locks to inert features associated with the building to discourage theft of the canisters while they remained outside overnight. Photographs showing the locations of the deployed canisters are provided in **Attachment A**.

WR returned to subject site approximately 24 hours later on February 5, 2016 to close and retrieve the six summa canisters. Pastor Manyika provided access to the inside of the church and it appeared that the outdoor ambient air canister were not tampered with overnight. Copies of the WR field log book pages that document the sampling locations and starting and ending vacuum pressures for each canister are provided in **Attachment B**. WR then transported the samples under chain of custody to a FedEx location in Matthews NC where they were transported via priority overnight delivery to ESC for analysis.

Soil and Cinder Block Sampling

During the afternoon of February 4, 2016, WR collected six samples of shallow soils from locations adjacent to the rear loading dock that is attached to the south side of the Nexus Church, and one soil sample from beneath the loading dock. WR also collected three samples of the deteriorated cinder blocks that help comprise the loading dock. The purpose of this sampling activity was to determine if indications of past or recent releases of VOCs were evident in the analytical data for the samples.

WR used a properly decontaminated hand auger to collect the soil samples, and a stainless steel spoon to collect samples of deteriorated cinder block. Due to wetter than normal weather conditions in the Charlotte area during the winter of 2016, the water table was encountered at a depth of approximately 1.5 feet below ground at the time of sampling. Therefore, the soil sample from the 0.5 foot to 1.0 foot depth interval was submitted for analysis of VOCs. The field notes that document these sampling activities are provided in **Attachment B**. The soil samples were transported under chain of custody to Pace Analytical Laboratories (Pace) in Huntersville, NC for analysis.

Results of Laboratory Analyses

Indoor Air and Outdoor Ambient Air Results

The results of TO 15 SIM analysis on the six summa canister samples are summarized below:

Table 1: Follow Up Indoor Air and Outdoor Ambient Air Sampling Results
Nexus Church Building: 3144 Cullman Avenue, Charlotte NC

Sample ID	Sampling Apparatus	ESC Canister ID Number	Start Sampling Date (mm/dd/yy)	End Sampling Date (mm/dd/yy)	1,1 Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethylene	Trichloroethylene	Vinyl chloride
					(ug/m ³)					
IA-1 FELLOWSHIPS	Six Liter Summa	13 SIM	2/4/16	2/5/16	<0.0793	<0.0793	<0.0793	56.7	3.10	<0.0511
IA-2 SANCTUARY	Six Liter Summa	1018 SIM	2/4/16	2/5/16	<0.0793	0.312	<0.0793	1.89	3.93	<0.0511
DUP SANCTUARY	Six Liter Summa	Not Recorded	2/4/16	2/5/16	<0.0793	0.376	<0.0793	2.20	4.77	<0.0511
AMBIENT AIR SOUTH	Six Liter Summa	1193 SIM	2/4/16	2/5/16	<0.0793	<0.0793	<0.0793	13.0	1.53	<0.0511
AMBIENT AIR NORTH	Six Liter Summa	895 SIM	2/4/16	2/5/16	<0.0793	<0.0793	<0.0793	2.2	<0.107	<0.0511

Notes: IA = Indoor air sample. See Figure 1 for sample locations.

Ambient = Outdoor ambient air sample. See Figure 1 for sample locations.

All samples were 24-hour composites.

ESC = ESC Lab Sciences: Certified laboratory that performed TO 15 SIM analyses.

Samples analyzed by EPA TO15 Selected Ion Method. See lab report for details.

These results are summarized by location in **Figure 1**, and the ESC analytical report and chain of custody record are provided in **Attachment C**.

According to an e-mail from on-site EPA representative Ken Rhame to EAG, the screening level established by EPA for TCE in ambient air at the Nexus Church is 8 ug/m³ (see copy of e-mail in **Appendix D**). All of the detected concentrations of TCE in the indoor and outdoor air samples shown in **Table 1** are below this screening level. According to the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management the Residential Vapor Intrusion Screening Level for PCE is 8.34 ug/m³ and there is no currently established Screening Level for cis 1,2 DCE. The detected concentrations of PCE in the indoor air samples from the Sanctuary shown in **Table 1** are below this screening level. However, the indoor air sample from the Fellowship Hall, and the outdoor ambient air sample from the south of the building were above this level.

The presence of 13 ug/m³ of PCE and 3.1 ug/m³ of TCE in the outdoor ambient air collected just south of the church is unexpected given the results of the first sampling event in August 2015. However, upon further inspection of the area to the south of the church, WR noticed that the water table is exposed in the construction area where a retaining wall for a new rail line is being constructed (see Photo #s 5-7 in **Attachment A**). Previous analysis of groundwater

samples from monitoring wells PMW-20A & 20B located behind the Nexus Church indicated the presence of high concentrations of VOCs in this area. Therefore it is possible that the source of the PCE and TCE detected in the Ambient South sample is the exposed groundwater in the nearby construction area.

Similarly, the concentration of 56.7 ug/m³ of PCE in the indoor air sample from the Fellowship Hall is unexpected and questionable, in that two indoor air samples collected about 30 feet away in the Sanctuary were an order of magnitude lower in concentration. According to the WR representative who deployed the sampler, the doors to the Fellowship Hall were closed during the time of the indoor air sample collection, and the heating unit for the building was allowed to remain operational during the sampling period to prevent possible damage that could be caused by freezing of the plumbing within the building.

As shown in Photo #1 in **Attachment A**, the Fellowship Hall appeared to have recently been used for some form of festivity as the tables were covered with plastic table clothes and centerpieces. Church members attending such festivities may have been wearing recently dry-cleaned clothes. Hence, the observed PCE concentrations in the Fellowship Hall may be a residual effect of recent use of the room by parishioners.

WR recommends collection and analysis of additional indoor and outdoor air samples, and a sample of the exposed groundwater in the construction area to the south of the church. Results of the additional samples will be used to evaluate the reproducibility of the current results, and possibly, to identify the source of VOCs in the nearby ambient air.

Soil and Cinder Block Analysis Results

Results of the analyses of the soil and cinder block samples are summarized below:

Table 2: Follow Up Soil and Cinder Block Sampling Results
Nexus Church Building: 3144 Cullman Avenue, Charlotte NC

Sample ID	Date Sampled	Time Sampled	Sample Depth	PID Reading (ppm)	FID Reading (ppm)	Acetone	2-Butanone	p-Isopropyltoluene	Methylene Chloride	Trichloroethylene	Tetrachloroethylene
						(ug/Kg)					
NX-1	2/4/2016	1300 hrs	0.5 to 1 ft	ND	ND	<146	<146	<7.3	9.8 J	<7.3	<7.3
NX-2	2/4/2016	1305 hrs	0.5 to 1 ft	ND	ND	<137	<137	<6.9	8.5 J	4.4 J	<6.9
NX-3	2/4/2016	1315 hrs	0.5 to 1 ft	5.6	1.3	36.5 J	<150	<7.5	20.0 J	<7.5	<7.5
NX-4	2/4/2016	1320 hrs	0.5 to 1 ft	16.9	7.0	55.0 J	<251	4.6 J	15.1 J	37.7	<12.5
NX-4 Dup	2/4/2016	1400 hrs	0.5 to 1 ft	16.9	7.0	76.0 J	<150	3.8 J	50.6	23.2	<7.5
NX-5	2/4/2016	1330 hrs	0.5 to 1 ft	12.3	0.4	32.9 J	<135	<6.7	19.3 J	<6.7	<6.7
Dock	2/4/2016	1340 hrs	0.5 to 1 ft	7.2	ND	<125	<125	<6.2	22.9 J	<6.2	<6.2
CB-1	2/4/2016	1345 hrs	NA	7.7	ND	<115	3.4 J	<5.8	<23	<5.8	<5.8
CB-2	2/4/2016	1350 hrs	NA	9.9	ND	<117	<117	<5.9	<23.4	<5.9	<5.9
CB-3	2/4/2016	1355 hrs	NA	6.42	ND	<113	<113	<5.6	<22.5	<5.6	<5.6
NCDEQ IHSB Preliminary Residential Soil Remediation Goal (ug/Kg)						12,000,000	5,400,000	NA	57,000	820	16,000
NCDEQ IHSB Preliminary Industrial Soil Remediation Goal (ug/Kg)						100,000,000	38,000,000	NA	640,000	3,800	78,000

Notes:

NX = soil sample from behind Nexus Church. See Figure 2 for sample locations.

Dock = soil sample from under loading dock behind Nexus Church. See Figure 2 for sample locations.

CB = sample of cinder block that comprises loading dock behind Nexus Church. See Figure 2 for sample locations

Dup = duplicate soil sample

NA = Not applicable

ND = Not detected

ppm = parts per million

Samples analyzed by EPA 8260/5035A Volatile Organics. See lab report for details.

These results are summarized by location in **Figure 2**, and the Pace laboratory analytical report and chain of custody record are provided in **Attachment C**.

The analytical results for the soil samples indicate the presence of low concentrations of four VOCs within the shallow soils adjacent to and beneath the loading dock. None of the analytical results indicated the presence of high concentrations of VOCs, which might indicate the occurrence of a recent release of solvents. Rather the results are more indicative of low concentrations of VOCs that may represent residual signs of past releases of solvents when the site was in use by a previous industrial occupant. Regardless, the results do not suggest that there is an active high concentration source of VOCs in the near surface soils behind the church. It follows that the high concentrations of VOCs observed in the groundwater samples from nearby monitoring wells PMW-20A & 20B have been present underground for a long time, and have not been subject to the effects of weathering to which the near surface soils have been exposed.

Analysis of the deteriorated cinder block samples indicated only a trace concentration of one VOC (2-butanone). Like the nearby soils, it appears that the majority of VOCs that may have caused the deterioration of the cinder blocks shown in Photo #8 of **Attachment A** have weathered to non-detectable levels due to continued exposure to the elements over time.

WR appreciates the opportunity to be of assistance to EAG. Should you have any questions or comments regarding the contents of this report, please do not hesitate to contact us at 919-469-3340.

Sincerely,



A handwritten signature in blue ink that reads "Brian J. Bellis".

Brian J. Bellis, P.G.
Project Manager

A handwritten signature in black ink that reads "Christopher Fay".

Christopher Fay
Project Geologist

Enclosures:

Figures 1 & 2

Attachment A:	Photo Documentation – February 2016
Attachment B:	WR Field Log Book Pages for February 4 & 5, 2016
Attachment C:	Laboratory Analytical Reports
Attachment D:	EPA Screening Level for TCE

3110 AMBIENT NORTH
 COLLECTION DATE: 2/4/16 TO 2/5/16
 SAMPLE INTERVAL 24 HR

COMPOUND	RESULTS
1,1 DCE	<0.0793
cis 1,2 DCE	<0.0793
trans 1,2 DCE	<0.0793
PCE	2.18
TCE	<0.107
VC	<0.0511

IA-1 FELLOWSHIP
 COLLECTION DATE: 2/4/16 TO 2/5/16
 SAMPLE INTERVAL 24 HR

COMPOUND	RESULTS
1,1 DCE	<0.0793
cis 1,2 DCE	<0.0793
trans 1,2 DCE	<0.0793
PCE	56.7
TCE	3.10
VC	<0.0511

3124 CULLMAN AVE
IA-2 SANCTUARY
 COLLECTION DATE: 2/4/16 TO 2/5/16
 SAMPLE INTERVAL 24 HR

COMPOUND	RESULTS
1,1 DCE	<0.0793
cis 1,2 DCE	0.312
trans 1,2 DCE	<0.0793
PCE	1.89
TCE	3.93
VC	<0.0511

CLUB SANCTUARY
 COLLECTION DATE: 2/4/16 TO 2/5/16
 SAMPLE INTERVAL 24 HR

COMPOUND	RESULTS
1,1 DCE	<0.0793
cis 1,2 DCE	0.378
trans 1,2 DCE	<0.0793
PCE	2.20
TCE	4.77
VC	<0.0511

AMBIENT AIR SOUTH
 COLLECTION DATE: 2/4/16 TO 2/5/16
 SAMPLE INTERVAL 24 HR

COMPOUND	RESULTS
1,1 DCE	<0.0793
cis 1,2 DCE	<0.0793
trans 1,2 DCE	<0.0793
PCE	13.0
TCE	1.53
VC	<0.0511

NEXUS CHURCH PROPERTY

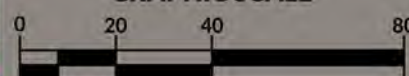
LEGEND

- INDOOR OR AMBIENT AIR SAMPLING LOCATION
- BUILDING INTERIOR WALL

NOTES

ALL RESULTS ARE IN $\mu\text{g}/\text{m}^3$
 POSITION OF INTERIOR WALLS ARE APPROXIMATE

GRAPHIC SCALE



1 inch = 40 ft.



WithersRavenel
 Engineers | Planners | Surveyors

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NEXUS CHURCH 3144 CULLMAN AVE.
 CHARLOTTE, NORTH CAROLINA

INDOOR AIR, AND AMBIENT AIR SAMPLING
 LOCATIONS AND ANALYTICAL RESULTS

DRAWN BY:

CF

SCALE:

1"=40'

FIGURE NO.:

1

APPROVED BY:

BB

DATE:

2/23/2016

PROJECT NO.:

03130430

DOCK-1
SAMPLE INTERVAL UNDER LOADING DOCK

COMPOUND	RESULTS
METHYLENE CHLORIDE	22.9J

NX-4
SAMPLE INTERVAL 0.5'-1.0'

COMPOUND	RESULTS
ACETONE	55.0J
P-ISOPROPYLTOLUENE	4.6J
METHYLENE CHLORIDE	15.1J
TRICHLOROETHENE	37.7

CB-1

COMPOUND	RESULTS
MEK	3.4J

NX-5
SAMPLE INTERVAL 0.5'-1.0'

COMPOUND	RESULTS
ACETONE	32.9J
METHYLENE CHLORIDE	19.3J

DOCK-1

CB-1

CB-3

CB-2

CONCRETE

NX-5

NX-4

NX-3

NX-2

NX-1

NX-1
SAMPLE INTERVAL 0.5'-1.0'

COMPOUND	RESULTS
METHYLENE CHLORIDE	9.8J

CB-2
 ALL COMPOUND CONCENTRATIONS WERE
 BELOW LABORATORY REPORTING LIMITS

NX-3
SAMPLE INTERVAL 0.5'-1.0'

COMPOUND	RESULTS
ACETONE	36.5J
METHYLENE CHLORIDE	20.0J

NX-2
SAMPLE INTERVAL 0.5'-1.0'

COMPOUND	RESULTS
METHYLENE CHLORIDE	8.5J
TRICHLOROETHENE	4.4J

CB-3
 ALL COMPOUND CONCENTRATIONS WERE
 BELOW LABORATORY REPORTING LIMITS

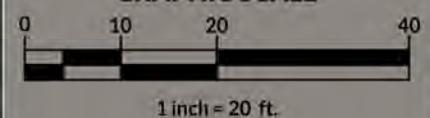
LEGEND

- SOIL SAMPLE LOCATION
- ▲ CINDER BLOCK SAMPLE LOCATION
- BUILDING INTERIOR WALL

NOTES

ALL RESULTS ARE IN ug/kg
 POSITION OF INTERIOR WALLS ARE APPROXIMATE
 J=RESULTS WERE BELOW REPORTING LIMIT BUT
 ABOVE METHOD DETECTION LIMIT, THEREFORE,
 CONCENTRATION IS ESTIMATED

GRAPHIC SCALE



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NEXUS CHURCH 3144 CULLMAN AVE.
 CHARLOTTE, NORTH CAROLINA

SOIL AND CINDER BLOCK SAMPLING LOCATIONS
 AND ANALYTICAL RESULTS

DRAWN BY:	SCALE:	FIGURE NO.:
CF	1"=20'	2
APPROVED BY:	DATE:	PROJECT NO.:
BB	2/23/2016	03130430

Attachment A:

**Photo Documentation – February 2016
Nexus Church: 3144 Cullman Avenue, Charlotte, NC**



Photo #1: Summa canister sample IA-1 Fellowship located in approximate center of Fellowship hall.



Photo #2 Summa canister samples IA-2 Sanctuary and Dup Sanctuary.



Photo #3: Summa canister location during collection of Ambient North outdoor air sample.

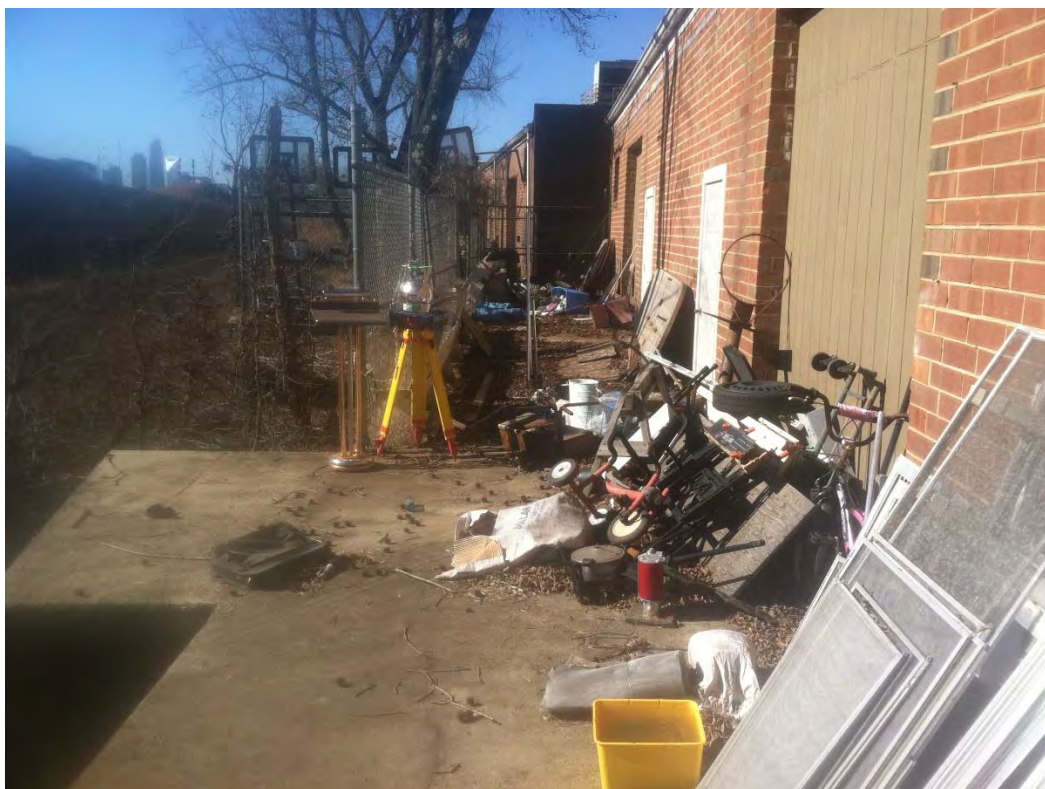


Photo #4: Summa canister location during collection of Ambient South outdoor air sample.



Photo #5: West looking view of exposed water table adjacent to rail line retaining wall to south of Nexus Church. Monitoring wells on left side of photo are PMW-18A and 18B.

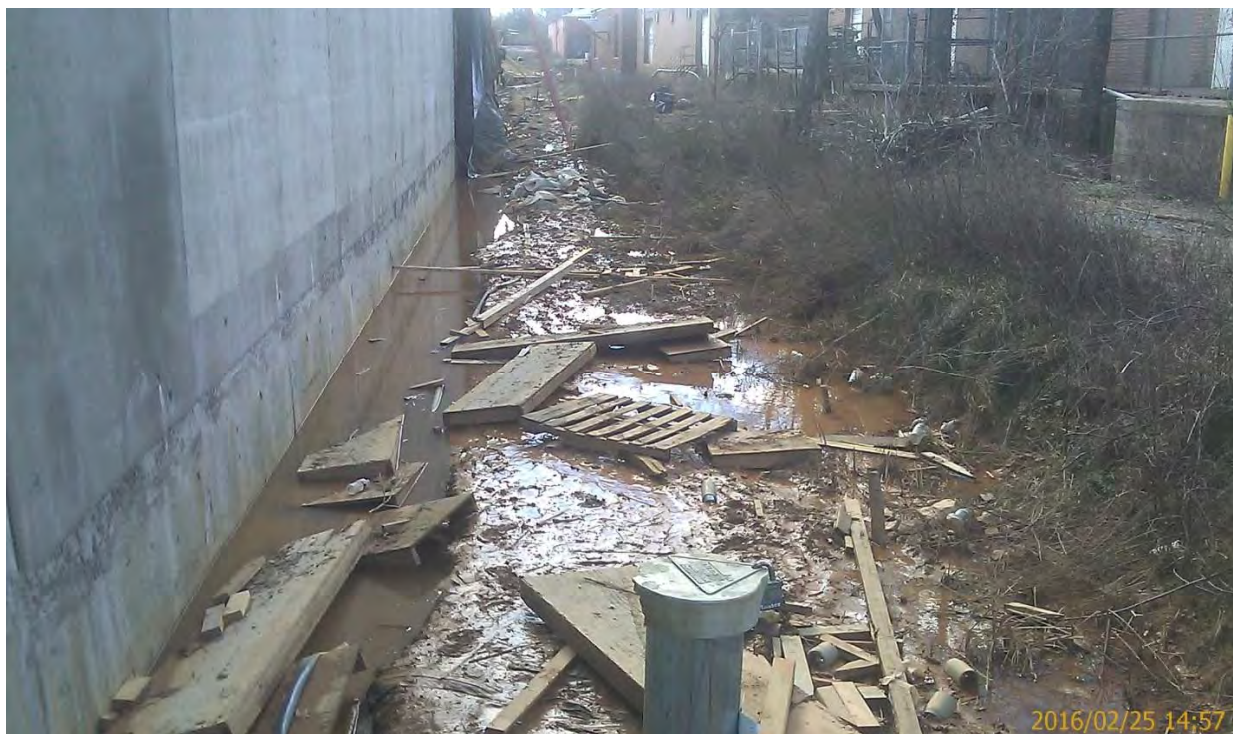


Photo #6: Closer view of exposed water table behind Nexus Church.



Photo #7: View of exposed water table (left) and loading dock behind Nexus Church on Feb 25, 2016.
Monitoring wells PMW-20A & 20B are in center of photo.



Photo #8: Closer view of PMW-20A & 20B and deteriorated cinder blocks that comprise the loading dock behind the Nexus Church.

Attachment B

**W&R Field Log Book Pages for February 4 & 5, 2016
Nexus Church: 3144 Cullman Avenue, Charlotte, NC**

Perry.

2/4/2016

C #AY

Trex 09130430

0600-1000 mob

High 57°F Lows 34°F 0-10 mph

NNW winds Pressure 30.04 in ↑

cloudy

1030 call Mr Manyika onsite 1050

3100 Ambient ~~South~~ North

can # 895

reg # 552

Start time / "Hg
2/4 1058 28

End time / "Hg
2/5 1058 14

3110 Ambient South

can # 1193

reg # 545

Start time / "Hg
2/4 1100 28

End time / "Hg
2/5 1100 12

(95)

IA-1 Fellowship
can # 13
reg # 611

start time / "Hg
2/4 1057 29

End time / "Hg
2/5 1057 -6

IA-2 Sanctuary
can # 1018
reg # 639

start time / "Hg
2/4 29 1055

End time / "Hg
2/5 1055 -19

Dug Sanctuary
can #
reg #

start time / "Hg
2/4 1056 29

End time / "Hg
2/5 1056 -9

1030 Mr. Manjika offsite

(46)

1035 walk to Trax Building
spoke with Mr. Craig

fill jug with muni water for
decon

1045 locating areas to collect
soil sample behind the Nexus
Church

~~station~~

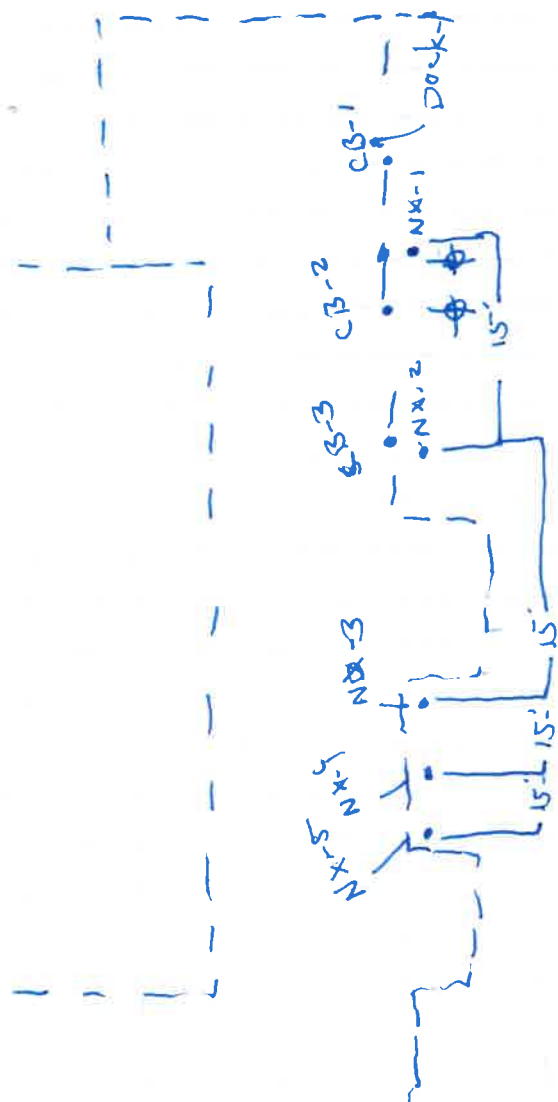
WL in MW-21A $\approx 3.6'$ Below ground
MW-21B $\approx 3.0'$ Below ground

advance NX-1 water $\approx 1.5'$

call B Bellis, stated to collect
soil sample $\approx 0.5' - 1.0'$

1250 warm up TVA, calibrate
TVA

(47)



PID FED

sample time

NX-1	ND	ND	1300
NX-2	ND	ND	1305
NX-3	5.61	1.25	1315
NX-4	16.90	7.00	1320 Dope 1400
NX-5	12.27	0.40	1330

CB-1	7.65	ND	1345
CB-2	9.88	ND	1350
CB-3	6.42	ND	1355

Dock-1	7.19	ND	1340
--------	------	----	------

1500

Ambient North 26"Hg

Ambient South 26"Hg

leave site

(98)

(99)

2/5/16

Trex

CFAY

mob 0800-0850

clear 38°F 0-10 NNW wind Pressure
30.35 in ↑

0900 check cans

Ambient North 16" Hg

Ambient South 14" Hg

1050 Mr Mampyika on site
collect cans inside church

1100 collect can outside church

1130 Mr Mampyika off site

1200 leave site

~~Not Used~~
WRF

100

Attachment C

**Laboratory Analytical Reports
February 2016 24-Hour Composite Indoor Air and Outdoor Ambient Air Samples
And Soil and Cinder Block Samples
Nexus Church: 3144 Cullman Avenue, Charlotte, NC**

Withers & Ravenel Eng. - Standard

Sample Delivery Group: L816117
Samples Received: 02/06/2016
Project Number: 03130430
Description: Trex - Charlotte
Site: CHARLOTTE, NC
Report To: Brian Bellis
115 MacKenan Drive
Cary, NC 27511

Entire Report Reviewed By:



Jimmy Hunt

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹Cp: Cover Page	1	¹Cp
²Tc: Table of Contents	2	²Tc
³Ss: Sample Summary	3	³Ss
⁴Cn: Case Narrative	4	⁴Cn
⁵Sr: Sample Results	5	⁵Sr
3110 AMBIENT NORTH L816117-01	5	
3110 AMBIENT SOUTH L816117-02	6	
IH-1 FELLOWSHIP L816117-03	7	
IA-2 SANCTUARY L816117-04	8	
DUP SANCTUARY L816117-05	9	
⁶Qc: Quality Control Summary	10	⁶Qc
Volatile Organic Compounds (MS) by Method TO-15	10	
⁷Gl: Glossary of Terms	11	⁷Gl
⁸Al: Accreditations & Locations	12	⁸Al
⁹Sc: Chain of Custody	13	⁹Sc



3110 AMBIENT NORTH L816117-01 Air

Collected by
Chris FayCollected date/time
02/05/16 10:58Received date/time
02/06/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG848576	1	02/12/16 07:56	02/12/16 07:56	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG848576	1	02/12/16 11:39	02/12/16 11:39	MBF

¹ Cp² Tc³ Ss

3110 AMBIENT SOUTH L816117-02 Air

Collected by
Chris FayCollected date/time
02/05/16 11:00Received date/time
02/06/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG848576	1	02/12/16 08:40	02/12/16 08:40	MBF

⁴ Cn⁵ Sr⁶ Qc

IH-1 FELLOWSHIP L816117-03 Air

Collected by
Chris FayCollected date/time
02/05/16 10:57Received date/time
02/06/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG848576	1	02/12/16 09:25	02/12/16 09:25	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG848576	20	02/12/16 12:23	02/12/16 12:23	MBF

⁷ Gl⁸ Al⁹ Sc

IA-2 SANCTUARY L816117-04 Air

Collected by
Chris FayCollected date/time
02/05/16 10:55Received date/time
02/06/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG848576	1	02/12/16 10:10	02/12/16 10:10	MBF

DUP SANCTUARY L816117-05 Air

Collected by
Chris FayCollected date/time
02/05/16 10:56Received date/time
02/06/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG848576	1	02/12/16 10:54	02/12/16 10:54	MBF



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jimmy Hunt
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Collected date/time: 02/05/16 10:58

L816117

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG848576
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG848576
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG848576
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.318	2.16		1	WG848576
Trichloroethylene	79-01-6	131	0.0200	0.107	ND	ND		1	WG848576
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG848576
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		91.7				WG848576

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG848576
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG848576
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG848576
Tetrachloroethylene	127-18-4	166	0.0200	0.136	1.91	13.0		1	WG848576
Trichloroethylene	79-01-6	131	0.0200	0.107	0.285	1.53		1	WG848576
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG848576
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		80.6				WG848576

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG848576
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG848576
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG848576
Tetrachloroethylene	127-18-4	166	0.400	2.72	8.35	56.7		20	WG848576
Trichloroethylene	79-01-6	131	0.0200	0.107	0.578	3.10		1	WG848576
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG848576
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		74.2				WG848576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG848576
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	0.0787	0.312		1	WG848576
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG848576
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.279	1.89		1	WG848576
Trichloroethylene	79-01-6	131	0.0200	0.107	0.734	3.93		1	WG848576
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG848576
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		88.7				WG848576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG848576
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	0.0950	0.376		1	WG848576
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG848576
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.324	2.20		1	WG848576
Trichloroethylene	79-01-6	131	0.0200	0.107	0.890	4.77		1	WG848576
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG848576
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		84.5				WG848576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 02/12/16 05:00

Analyte	MB Result	MB Qualifier	MB RDL
	ppb		ppb
1,1-Dichloroethene	ND		0.0200
cis-1,2-Dichloroethene	ND		0.0200
trans-1,2-Dichloroethene	ND		0.0200
Tetrachloroethylene	ND		0.0200
Trichloroethylene	ND		0.0200
Vinyl chloride	ND		0.0200
(S) 1,4-Bromofluorobenzene	105		60.0-140

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/12/16 02:48 • (LCSD) 02/12/16 03:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppb	ppb	ppb	%	%	%			%	%
1,1-Dichloroethene	0.500	0.461	0.430	92.3	86.1	70.0-130			6.96	25
cis-1,2-Dichloroethene	0.500	0.489	0.462	97.8	92.3	70.0-130			5.77	25
trans-1,2-Dichloroethene	0.500	0.481	0.443	96.3	88.6	70.0-130			8.32	25
Tetrachloroethylene	0.500	0.537	0.451	107	90.1	70.0-130			17.5	25
Trichloroethylene	0.500	0.531	0.442	106	88.4	70.0-130			18.2	25
Vinyl chloride	0.500	0.458	0.429	91.6	85.7	70.0-130			6.68	25
(S) 1,4-Bromofluorobenzene				96.3	96.7	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

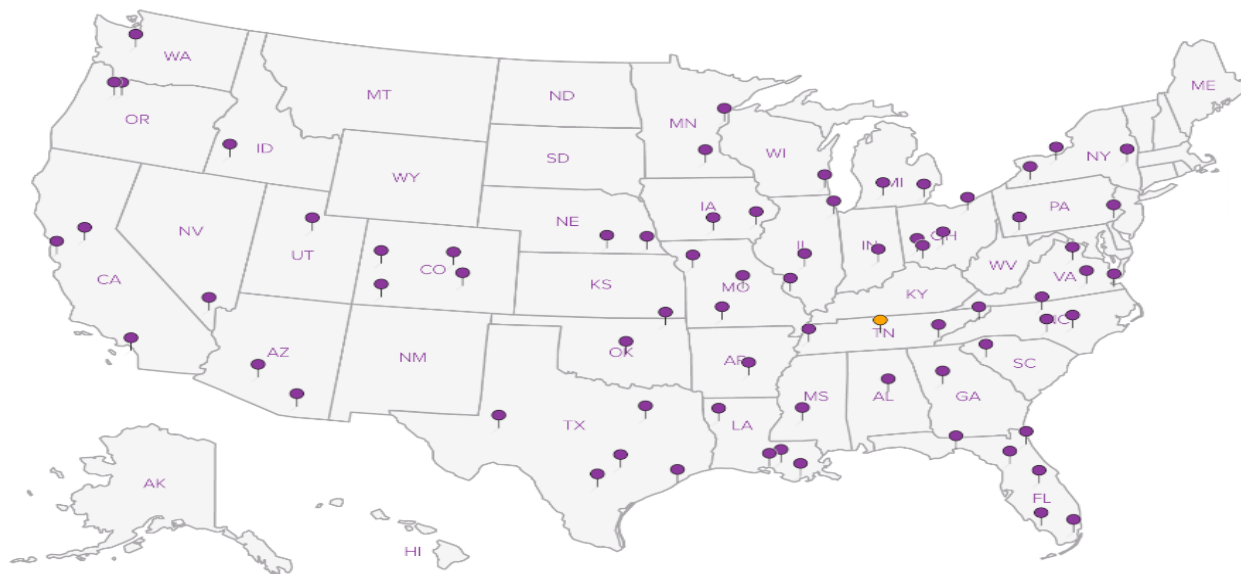
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		


¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Chain of Custody Page 1 of 1



ESC
L.A.B S.C.I.E.N.C.E.S

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# 816117

K185

Acctnum: WITHRAVS

Template: T105071

Prelogin: P539659

TSR: 350 - Jimmy Hunt

PB: 84K 1-29-16

Shipped Via: FedEX Ground

Rem./Contaminant Sample # (lab only)

Withers & Ravenel Eng. - Standard

115 MacKenan Drive
Cary, NC 27511

Billing Information:
Accounts Payable
115 MacKenan Drive
Cary, NC 27511

Report to:
Brian Bellis

Email To: bbellis@withersravenel.com

Project
Description: Trex - Charlotte

City/State
Collected: Charlotte NC

Phone: 919-469-3340
Fax: 919-467-6008

Client Project #
03130430

Lab Project #
WITHRAVS-03130430

Collected by (print):
Chris Fay

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 ___ Same Day200%
 ___ Next Day100%
 ___ Two Day50%
 ___ Three Day25%

Date Results Needed

Email? ___ No ☒ Yes
FAX? ___ No ___ Yes

No.
of
Cntrs

TO-15SIM Summa

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs														
3110 Ambient North	Comp	Air	2/4 - 2/5	2/4 - 2/5	1058-1058	1	X													61
3110 Ambient South		Air			1100 - 1100	1	X													62
IA-1 Fellowship		Air			1057 - 1057	1	X													63
IA-2 Sanctuary		Air			1055 - 1055	1	X													64
Dep Sanctuary		Air			1056 - 1056	1	X													65
		Air				1	X													

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks: 6 SIM-certified, 6-liter summas for TO-15SIM
6 24-hour flow controllers

pH _____ Temp _____
Flow _____ Other _____

644503873626
644503873615
Hold #

Relinquished by: (Signature)	Date: 2/5/16	Time: 14:35	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only) 6 FC 1 empty
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 5	COC Seal Intact: ___ Y ___ N <input checked="" type="checkbox"/> NA
Relinquished by: (Signature)	Date: 2/5/16	Time: 14:50	Received for lab by: (Signature)	Date: 2/6/16 Time: 9:40	pH Checked: NCF:

February 10, 2016

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Project: NEXUS RAIL SIDING
Pace Project No.: 92285439

Dear David Craig:

Enclosed are the analytical results for sample(s) received by the laboratory on February 04, 2016. 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92285439001	NX-1-0.5-1.0	Solid	02/04/16 13:00	02/04/16 15:26
92285439002	NX-2-0.5-1.0	Solid	02/04/16 13:05	02/04/16 15:26
92285439003	NX-3-0.5-1.0	Solid	02/04/16 13:15	02/04/16 15:26
92285439004	NX-4-0.5-1.0	Solid	02/04/16 13:20	02/04/16 15:26
92285439005	NX-5-0.5-1.0	Solid	02/04/16 13:30	02/04/16 15:26
92285439006	DOCK-1	Solid	02/04/16 13:40	02/04/16 15:26
92285439007	DUPLICATE	Solid	02/04/16 14:00	02/04/16 15:26
92285439008	CB-1	Solid	02/04/16 13:45	02/04/16 15:26
92285439009	CB-2	Solid	02/04/16 13:50	02/04/16 15:26
92285439010	CB-3	Solid	02/04/16 13:55	02/04/16 15:26
92285439011	TRIP BLANK	Water	02/04/16 00:00	02/04/16 15:26

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SAMPLE ANALYTE COUNT

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92285439001	NX-1-0.5-1.0	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439002	NX-2-0.5-1.0	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439003	NX-3-0.5-1.0	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439004	NX-4-0.5-1.0	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439005	NX-5-0.5-1.0	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439006	DOCK-1	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439007	DUPLICATE	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439008	CB-1	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439009	CB-2	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439010	CB-3	EPA 8260	DLK	70
		ASTM D2974-87	CLW	1
92285439011	TRIP BLANK	EPA 8260	NB	63

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-1-0.5-1.0** Lab ID: **92285439001** Collected: 02/04/16 13:00 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND	ug/kg	146	14.6	1		02/05/16 17:53	67-64-1	
Benzene	ND	ug/kg	7.3	2.3	1		02/05/16 17:53	71-43-2	
Bromobenzene	ND	ug/kg	7.3	2.9	1		02/05/16 17:53	108-86-1	
Bromochloromethane	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	74-97-5	
Bromodichloromethane	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	75-27-4	
Bromoform	ND	ug/kg	7.3	3.3	1		02/05/16 17:53	75-25-2	
Bromomethane	ND	ug/kg	14.6	3.6	1		02/05/16 17:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	146	4.2	1		02/05/16 17:53	78-93-3	
n-Butylbenzene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.3	2.3	1		02/05/16 17:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.3	2.9	1		02/05/16 17:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.3	3.8	1		02/05/16 17:53	56-23-5	
Chlorobenzene	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	108-90-7	
Chloroethane	ND	ug/kg	14.6	3.5	1		02/05/16 17:53	75-00-3	
Chloroform	ND	ug/kg	7.3	2.3	1		02/05/16 17:53	67-66-3	
Chloromethane	ND	ug/kg	14.6	3.5	1		02/05/16 17:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.3	5.2	1		02/05/16 17:53	96-12-8	
Dibromochloromethane	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	106-93-4	
Dibromomethane	ND	ug/kg	7.3	3.6	1		02/05/16 17:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.3	2.9	1		02/05/16 17:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	14.6	5.2	1		02/05/16 17:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.3	2.2	1		02/05/16 17:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.3	3.2	1		02/05/16 17:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.3	2.0	1		02/05/16 17:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.3	2.2	1		02/05/16 17:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.3	2.2	1		02/05/16 17:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	108-20-3	
Ethylbenzene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.3	2.9	1		02/05/16 17:53	87-68-3	
2-Hexanone	ND	ug/kg	72.8	5.7	1		02/05/16 17:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	99-87-6	
Methylene Chloride	9.8J	ug/kg	29.1	4.4	1		02/05/16 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	72.8	5.4	1		02/05/16 17:53	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-1-0.5-1.0** Lab ID: **92285439001** Collected: 02/04/16 13:00 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	7.3	2.2	1		02/05/16 17:53	1634-04-4	
Naphthalene	ND	ug/kg	7.3	1.7	1		02/05/16 17:53	91-20-3	
n-Propylbenzene	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	103-65-1	
Styrene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.3	3.1	1		02/05/16 17:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	79-34-5	
Tetrachloroethene	ND	ug/kg	7.3	2.5	1		02/05/16 17:53	127-18-4	
Toluene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.3	3.2	1		02/05/16 17:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.3	2.3	1		02/05/16 17:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.3	3.1	1		02/05/16 17:53	79-00-5	
Trichloroethene	ND	ug/kg	7.3	3.1	1		02/05/16 17:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.3	3.2	1		02/05/16 17:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.3	2.3	1		02/05/16 17:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.3	2.9	1		02/05/16 17:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.3	2.6	1		02/05/16 17:53	108-67-8	
Vinyl acetate	ND	ug/kg	72.8	12.8	1		02/05/16 17:53	108-05-4	
Vinyl chloride	ND	ug/kg	14.6	2.6	1		02/05/16 17:53	75-01-4	
Xylene (Total)	ND	ug/kg	14.6	5.2	1		02/05/16 17:53	1330-20-7	
m&p-Xylene	ND	ug/kg	14.6	5.2	1		02/05/16 17:53	179601-23-1	
o-Xylene	ND	ug/kg	7.3	2.8	1		02/05/16 17:53	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		02/05/16 17:53	2037-26-5	1g
4-Bromofluorobenzene (S)	81	%	70-130		1		02/05/16 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-132		1		02/05/16 17:53	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.0	%	0.10	0.10	1		02/08/16 12:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-2-0.5-1.0** Lab ID: **92285439002** Collected: 02/04/16 13:05 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND	ug/kg	137	13.7	1		02/05/16 18:13	67-64-1	
Benzene	ND	ug/kg	6.9	2.2	1		02/05/16 18:13	71-43-2	
Bromobenzene	ND	ug/kg	6.9	2.7	1		02/05/16 18:13	108-86-1	
Bromochloromethane	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	74-97-5	
Bromodichloromethane	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	75-27-4	
Bromoform	ND	ug/kg	6.9	3.2	1		02/05/16 18:13	75-25-2	
Bromomethane	ND	ug/kg	13.7	3.4	1		02/05/16 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	137	4.0	1		02/05/16 18:13	78-93-3	
n-Butylbenzene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.9	2.2	1		02/05/16 18:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.9	2.7	1		02/05/16 18:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.9	3.6	1		02/05/16 18:13	56-23-5	
Chlorobenzene	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	108-90-7	
Chloroethane	ND	ug/kg	13.7	3.3	1		02/05/16 18:13	75-00-3	
Chloroform	ND	ug/kg	6.9	2.2	1		02/05/16 18:13	67-66-3	
Chloromethane	ND	ug/kg	13.7	3.3	1		02/05/16 18:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.9	4.9	1		02/05/16 18:13	96-12-8	
Dibromochloromethane	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	106-93-4	
Dibromomethane	ND	ug/kg	6.9	3.4	1		02/05/16 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.9	2.7	1		02/05/16 18:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.7	4.9	1		02/05/16 18:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.9	2.1	1		02/05/16 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.9	3.0	1		02/05/16 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.9	1.9	1		02/05/16 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.9	2.1	1		02/05/16 18:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.9	2.1	1		02/05/16 18:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	108-20-3	
Ethylbenzene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.9	2.7	1		02/05/16 18:13	87-68-3	
2-Hexanone	ND	ug/kg	68.7	5.4	1		02/05/16 18:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	99-87-6	
Methylene Chloride	8.5J	ug/kg	27.5	4.1	1		02/05/16 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	68.7	5.1	1		02/05/16 18:13	108-10-1	

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-2-0.5-1.0** Lab ID: **92285439002** Collected: 02/04/16 13:05 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	6.9	2.1	1		02/05/16 18:13	1634-04-4	
Naphthalene	ND	ug/kg	6.9	1.6	1		02/05/16 18:13	91-20-3	
n-Propylbenzene	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	103-65-1	
Styrene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.9	2.9	1		02/05/16 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	79-34-5	
Tetrachloroethene	ND	ug/kg	6.9	2.3	1		02/05/16 18:13	127-18-4	
Toluene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.9	3.0	1		02/05/16 18:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.9	2.2	1		02/05/16 18:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.9	2.9	1		02/05/16 18:13	79-00-5	
Trichloroethene	4.4J	ug/kg	6.9	2.9	1		02/05/16 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.9	3.0	1		02/05/16 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.9	2.2	1		02/05/16 18:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.9	2.7	1		02/05/16 18:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.9	2.5	1		02/05/16 18:13	108-67-8	
Vinyl acetate	ND	ug/kg	68.7	12.1	1		02/05/16 18:13	108-05-4	
Vinyl chloride	ND	ug/kg	13.7	2.5	1		02/05/16 18:13	75-01-4	
Xylene (Total)	ND	ug/kg	13.7	4.9	1		02/05/16 18:13	1330-20-7	
m&p-Xylene	ND	ug/kg	13.7	4.9	1		02/05/16 18:13	179601-23-1	
o-Xylene	ND	ug/kg	6.9	2.6	1		02/05/16 18:13	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%	70-130		1		02/05/16 18:13	2037-26-5	1g
4-Bromofluorobenzene (S)	84	%	70-130		1		02/05/16 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-132		1		02/05/16 18:13	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	34.2	%	0.10	0.10	1		02/08/16 12:13		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: NX-3-0.5-1.0 **Lab ID: 92285439003** Collected: 02/04/16 13:15 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	36.5J	ug/kg	150	15.0	1		02/05/16 18:33	67-64-1	
Benzene	ND	ug/kg	7.5	2.4	1		02/05/16 18:33	71-43-2	
Bromobenzene	ND	ug/kg	7.5	3.0	1		02/05/16 18:33	108-86-1	
Bromochloromethane	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	74-97-5	
Bromodichloromethane	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	75-27-4	
Bromoform	ND	ug/kg	7.5	3.5	1		02/05/16 18:33	75-25-2	
Bromomethane	ND	ug/kg	15.0	3.8	1		02/05/16 18:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	150	4.4	1		02/05/16 18:33	78-93-3	
n-Butylbenzene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.5	2.4	1		02/05/16 18:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.5	3.0	1		02/05/16 18:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.5	3.9	1		02/05/16 18:33	56-23-5	
Chlorobenzene	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	108-90-7	
Chloroethane	ND	ug/kg	15.0	3.6	1		02/05/16 18:33	75-00-3	
Chloroform	ND	ug/kg	7.5	2.4	1		02/05/16 18:33	67-66-3	
Chloromethane	ND	ug/kg	15.0	3.6	1		02/05/16 18:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.5	5.4	1		02/05/16 18:33	96-12-8	
Dibromochloromethane	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	106-93-4	
Dibromomethane	ND	ug/kg	7.5	3.8	1		02/05/16 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.5	3.0	1		02/05/16 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.0	5.4	1		02/05/16 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.5	2.3	1		02/05/16 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.5	3.3	1		02/05/16 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.5	2.1	1		02/05/16 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.5	2.3	1		02/05/16 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.5	2.3	1		02/05/16 18:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	108-20-3	
Ethylbenzene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.5	3.0	1		02/05/16 18:33	87-68-3	
2-Hexanone	ND	ug/kg	75.1	5.9	1		02/05/16 18:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	99-87-6	
Methylene Chloride	20.0J	ug/kg	30.0	4.5	1		02/05/16 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	75.1	5.6	1		02/05/16 18:33	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: NX-3-0.5-1.0 **Lab ID:** 92285439003 **Collected:** 02/04/16 13:15 **Received:** 02/04/16 15:26 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	7.5	2.3	1		02/05/16 18:33	1634-04-4	
Naphthalene	ND	ug/kg	7.5	1.8	1		02/05/16 18:33	91-20-3	
n-Propylbenzene	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	103-65-1	
Styrene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.5	3.2	1		02/05/16 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	79-34-5	
Tetrachloroethene	ND	ug/kg	7.5	2.6	1		02/05/16 18:33	127-18-4	
Toluene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.5	3.3	1		02/05/16 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.5	2.4	1		02/05/16 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.5	3.2	1		02/05/16 18:33	79-00-5	
Trichloroethene	ND	ug/kg	7.5	3.2	1		02/05/16 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.5	3.3	1		02/05/16 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.5	2.4	1		02/05/16 18:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.5	3.0	1		02/05/16 18:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.5	2.7	1		02/05/16 18:33	108-67-8	
Vinyl acetate	ND	ug/kg	75.1	13.2	1		02/05/16 18:33	108-05-4	
Vinyl chloride	ND	ug/kg	15.0	2.7	1		02/05/16 18:33	75-01-4	
Xylene (Total)	ND	ug/kg	15.0	5.4	1		02/05/16 18:33	1330-20-7	
m&p-Xylene	ND	ug/kg	15.0	5.4	1		02/05/16 18:33	179601-23-1	
o-Xylene	ND	ug/kg	7.5	2.9	1		02/05/16 18:33	95-47-6	
Surrogates									
Toluene-d8 (S)	92	%	70-130		1		02/05/16 18:33	2037-26-5	1g
4-Bromofluorobenzene (S)	87	%	70-130		1		02/05/16 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-132		1		02/05/16 18:33	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	29.3	%	0.10	0.10	1		02/08/16 12:14		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-4-0.5-1.0** Lab ID: **92285439004** Collected: 02/04/16 13:20 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	55.0J	ug/kg	251	25.1	1		02/05/16 18:53	67-64-1	
Benzene	ND	ug/kg	12.5	4.0	1		02/05/16 18:53	71-43-2	
Bromobenzene	ND	ug/kg	12.5	5.0	1		02/05/16 18:53	108-86-1	
Bromochloromethane	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	74-97-5	
Bromodichloromethane	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	75-27-4	
Bromoform	ND	ug/kg	12.5	5.8	1		02/05/16 18:53	75-25-2	
Bromomethane	ND	ug/kg	25.1	6.3	1		02/05/16 18:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	251	7.3	1		02/05/16 18:53	78-93-3	
n-Butylbenzene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	12.5	4.0	1		02/05/16 18:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	12.5	5.0	1		02/05/16 18:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	12.5	6.5	1		02/05/16 18:53	56-23-5	
Chlorobenzene	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	108-90-7	
Chloroethane	ND	ug/kg	25.1	6.0	1		02/05/16 18:53	75-00-3	
Chloroform	ND	ug/kg	12.5	4.0	1		02/05/16 18:53	67-66-3	
Chloromethane	ND	ug/kg	25.1	6.0	1		02/05/16 18:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	12.5	9.0	1		02/05/16 18:53	96-12-8	
Dibromochloromethane	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	106-93-4	
Dibromomethane	ND	ug/kg	12.5	6.3	1		02/05/16 18:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	12.5	5.0	1		02/05/16 18:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	25.1	9.0	1		02/05/16 18:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	12.5	3.8	1		02/05/16 18:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	12.5	5.5	1		02/05/16 18:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	12.5	3.5	1		02/05/16 18:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	12.5	3.8	1		02/05/16 18:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	12.5	3.8	1		02/05/16 18:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	108-20-3	
Ethylbenzene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	12.5	5.0	1		02/05/16 18:53	87-68-3	
2-Hexanone	ND	ug/kg	125	9.8	1		02/05/16 18:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	98-82-8	
p-Isopropyltoluene	4.6J	ug/kg	12.5	4.3	1		02/05/16 18:53	99-87-6	
Methylene Chloride	15.1J	ug/kg	50.1	7.5	1		02/05/16 18:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	125	9.3	1		02/05/16 18:53	108-10-1	

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-4-0.5-1.0** Lab ID: **92285439004** Collected: 02/04/16 13:20 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	12.5	3.8	1		02/05/16 18:53	1634-04-4	
Naphthalene	ND	ug/kg	12.5	3.0	1		02/05/16 18:53	91-20-3	
n-Propylbenzene	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	103-65-1	
Styrene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	12.5	5.3	1		02/05/16 18:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	79-34-5	
Tetrachloroethene	ND	ug/kg	12.5	4.3	1		02/05/16 18:53	127-18-4	
Toluene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	12.5	5.5	1		02/05/16 18:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	12.5	4.0	1		02/05/16 18:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	12.5	5.3	1		02/05/16 18:53	79-00-5	
Trichloroethene	37.7	ug/kg	12.5	5.3	1		02/05/16 18:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	12.5	5.5	1		02/05/16 18:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	12.5	4.0	1		02/05/16 18:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	12.5	5.0	1		02/05/16 18:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	12.5	4.5	1		02/05/16 18:53	108-67-8	
Vinyl acetate	ND	ug/kg	125	22.1	1		02/05/16 18:53	108-05-4	
Vinyl chloride	ND	ug/kg	25.1	4.5	1		02/05/16 18:53	75-01-4	
Xylene (Total)	ND	ug/kg	25.1	9.0	1		02/05/16 18:53	1330-20-7	
m&p-Xylene	ND	ug/kg	25.1	9.0	1		02/05/16 18:53	179601-23-1	
o-Xylene	ND	ug/kg	12.5	4.8	1		02/05/16 18:53	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		02/05/16 18:53	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		02/05/16 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-132		1		02/05/16 18:53	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	41.8	%	0.10	0.10	1		02/08/16 12:14		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-5-0.5-1.0** Lab ID: **92285439005** Collected: 02/04/16 13:30 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	32.9J	ug/kg	135	13.5	1		02/05/16 19:13	67-64-1	
Benzene	ND	ug/kg	6.7	2.2	1		02/05/16 19:13	71-43-2	
Bromobenzene	ND	ug/kg	6.7	2.7	1		02/05/16 19:13	108-86-1	
Bromochloromethane	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	74-97-5	
Bromodichloromethane	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	75-27-4	
Bromoform	ND	ug/kg	6.7	3.1	1		02/05/16 19:13	75-25-2	
Bromomethane	ND	ug/kg	13.5	3.4	1		02/05/16 19:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	135	3.9	1		02/05/16 19:13	78-93-3	
n-Butylbenzene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.7	2.2	1		02/05/16 19:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.7	2.7	1		02/05/16 19:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.7	3.5	1		02/05/16 19:13	56-23-5	
Chlorobenzene	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	108-90-7	
Chloroethane	ND	ug/kg	13.5	3.2	1		02/05/16 19:13	75-00-3	
Chloroform	ND	ug/kg	6.7	2.2	1		02/05/16 19:13	67-66-3	
Chloromethane	ND	ug/kg	13.5	3.2	1		02/05/16 19:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.7	4.8	1		02/05/16 19:13	96-12-8	
Dibromochloromethane	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	106-93-4	
Dibromomethane	ND	ug/kg	6.7	3.4	1		02/05/16 19:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.7	2.7	1		02/05/16 19:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	13.5	4.8	1		02/05/16 19:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.7	2.0	1		02/05/16 19:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.7	3.0	1		02/05/16 19:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.7	1.9	1		02/05/16 19:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.7	2.0	1		02/05/16 19:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.7	2.0	1		02/05/16 19:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	108-20-3	
Ethylbenzene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.7	2.7	1		02/05/16 19:13	87-68-3	
2-Hexanone	ND	ug/kg	67.3	5.2	1		02/05/16 19:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	99-87-6	
Methylene Chloride	19.3J	ug/kg	26.9	4.0	1		02/05/16 19:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	67.3	5.0	1		02/05/16 19:13	108-10-1	

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: **NX-5-0.5-1.0** Lab ID: **92285439005** Collected: 02/04/16 13:30 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	6.7	2.0	1		02/05/16 19:13	1634-04-4	
Naphthalene	ND	ug/kg	6.7	1.6	1		02/05/16 19:13	91-20-3	
n-Propylbenzene	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	103-65-1	
Styrene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.7	2.8	1		02/05/16 19:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	79-34-5	
Tetrachloroethene	ND	ug/kg	6.7	2.3	1		02/05/16 19:13	127-18-4	
Toluene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.7	3.0	1		02/05/16 19:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.7	2.2	1		02/05/16 19:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.7	2.8	1		02/05/16 19:13	79-00-5	
Trichloroethene	ND	ug/kg	6.7	2.8	1		02/05/16 19:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.7	3.0	1		02/05/16 19:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.7	2.2	1		02/05/16 19:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.7	2.7	1		02/05/16 19:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.7	2.4	1		02/05/16 19:13	108-67-8	
Vinyl acetate	ND	ug/kg	67.3	11.8	1		02/05/16 19:13	108-05-4	
Vinyl chloride	ND	ug/kg	13.5	2.4	1		02/05/16 19:13	75-01-4	
Xylene (Total)	ND	ug/kg	13.5	4.8	1		02/05/16 19:13	1330-20-7	
m&p-Xylene	ND	ug/kg	13.5	4.8	1		02/05/16 19:13	179601-23-1	
o-Xylene	ND	ug/kg	6.7	2.6	1		02/05/16 19:13	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		02/05/16 19:13	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/05/16 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-132		1		02/05/16 19:13	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	30.4	%	0.10	0.10	1		02/08/16 12:14		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: DOCK-1 **Lab ID: 92285439006** Collected: 02/04/16 13:40 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	ND	ug/kg	125	12.5	1		02/05/16 19:33	67-64-1	
Benzene	ND	ug/kg	6.2	2.0	1		02/05/16 19:33	71-43-2	
Bromobenzene	ND	ug/kg	6.2	2.5	1		02/05/16 19:33	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	75-27-4	
Bromoform	ND	ug/kg	6.2	2.9	1		02/05/16 19:33	75-25-2	
Bromomethane	ND	ug/kg	12.5	3.1	1		02/05/16 19:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	125	3.6	1		02/05/16 19:33	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	2.0	1		02/05/16 19:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	2.5	1		02/05/16 19:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.2	3.2	1		02/05/16 19:33	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	108-90-7	
Chloroethane	ND	ug/kg	12.5	3.0	1		02/05/16 19:33	75-00-3	
Chloroform	ND	ug/kg	6.2	2.0	1		02/05/16 19:33	67-66-3	
Chloromethane	ND	ug/kg	12.5	3.0	1		02/05/16 19:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.2	4.5	1		02/05/16 19:33	96-12-8	
Dibromochloromethane	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	106-93-4	
Dibromomethane	ND	ug/kg	6.2	3.1	1		02/05/16 19:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	2.5	1		02/05/16 19:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.5	4.5	1		02/05/16 19:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1.9	1		02/05/16 19:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	2.7	1		02/05/16 19:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1.7	1		02/05/16 19:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1.9	1		02/05/16 19:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1.9	1		02/05/16 19:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	108-20-3	
Ethylbenzene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	2.5	1		02/05/16 19:33	87-68-3	
2-Hexanone	ND	ug/kg	62.4	4.9	1		02/05/16 19:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	99-87-6	
Methylene Chloride	22.9J	ug/kg	25.0	3.7	1		02/05/16 19:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	62.4	4.6	1		02/05/16 19:33	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: DOCK-1 **Lab ID: 92285439006** Collected: 02/04/16 13:40 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	6.2	1.9	1		02/05/16 19:33	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1.5	1		02/05/16 19:33	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	103-65-1	
Styrene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	2.6	1		02/05/16 19:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	2.1	1		02/05/16 19:33	127-18-4	
Toluene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	2.7	1		02/05/16 19:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	2.0	1		02/05/16 19:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	2.6	1		02/05/16 19:33	79-00-5	
Trichloroethene	ND	ug/kg	6.2	2.6	1		02/05/16 19:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	2.7	1		02/05/16 19:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	2.0	1		02/05/16 19:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	2.5	1		02/05/16 19:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	2.2	1		02/05/16 19:33	108-67-8	
Vinyl acetate	ND	ug/kg	62.4	11.0	1		02/05/16 19:33	108-05-4	
Vinyl chloride	ND	ug/kg	12.5	2.2	1		02/05/16 19:33	75-01-4	
Xylene (Total)	ND	ug/kg	12.5	4.5	1		02/05/16 19:33	1330-20-7	
m&p-Xylene	ND	ug/kg	12.5	4.5	1		02/05/16 19:33	179601-23-1	
o-Xylene	ND	ug/kg	6.2	2.4	1		02/05/16 19:33	95-47-6	
Surrogates									
Toluene-d8 (S)	103	%	70-130		1		02/05/16 19:33	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/05/16 19:33	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-132		1		02/05/16 19:33	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	21.6	%	0.10	0.10	1		02/08/16 12:14		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: DUPLICATE **Lab ID: 92285439007** Collected: 02/04/16 14:00 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Acetone	76.0J	ug/kg	150	15.0	1		02/05/16 19:52	67-64-1	
Benzene	ND	ug/kg	7.5	2.4	1		02/05/16 19:52	71-43-2	
Bromobenzene	ND	ug/kg	7.5	3.0	1		02/05/16 19:52	108-86-1	
Bromochloromethane	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	74-97-5	
Bromodichloromethane	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	75-27-4	
Bromoform	ND	ug/kg	7.5	3.5	1		02/05/16 19:52	75-25-2	
Bromomethane	ND	ug/kg	15.0	3.8	1		02/05/16 19:52	74-83-9	
2-Butanone (MEK)	ND	ug/kg	150	4.4	1		02/05/16 19:52	78-93-3	
n-Butylbenzene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	104-51-8	
sec-Butylbenzene	ND	ug/kg	7.5	2.4	1		02/05/16 19:52	135-98-8	
tert-Butylbenzene	ND	ug/kg	7.5	3.0	1		02/05/16 19:52	98-06-6	
Carbon tetrachloride	ND	ug/kg	7.5	3.9	1		02/05/16 19:52	56-23-5	
Chlorobenzene	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	108-90-7	
Chloroethane	ND	ug/kg	15.0	3.6	1		02/05/16 19:52	75-00-3	
Chloroform	ND	ug/kg	7.5	2.4	1		02/05/16 19:52	67-66-3	
Chloromethane	ND	ug/kg	15.0	3.6	1		02/05/16 19:52	74-87-3	
2-Chlorotoluene	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	95-49-8	
4-Chlorotoluene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	7.5	5.4	1		02/05/16 19:52	96-12-8	
Dibromochloromethane	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	106-93-4	
Dibromomethane	ND	ug/kg	7.5	3.8	1		02/05/16 19:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	7.5	3.0	1		02/05/16 19:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	15.0	5.4	1		02/05/16 19:52	75-71-8	
1,1-Dichloroethane	ND	ug/kg	7.5	2.3	1		02/05/16 19:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	7.5	3.3	1		02/05/16 19:52	107-06-2	
1,1-Dichloroethene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	7.5	2.1	1		02/05/16 19:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	78-87-5	
1,3-Dichloropropane	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	142-28-9	
2,2-Dichloropropane	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	594-20-7	
1,1-Dichloropropene	ND	ug/kg	7.5	2.3	1		02/05/16 19:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	7.5	2.3	1		02/05/16 19:52	10061-02-6	
Diisopropyl ether	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	108-20-3	
Ethylbenzene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	7.5	3.0	1		02/05/16 19:52	87-68-3	
2-Hexanone	ND	ug/kg	75.1	5.9	1		02/05/16 19:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	98-82-8	
p-Isopropyltoluene	3.8J	ug/kg	7.5	2.6	1		02/05/16 19:52	99-87-6	
Methylene Chloride	50.6	ug/kg	30.0	4.5	1		02/05/16 19:52	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	75.1	5.6	1		02/05/16 19:52	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: DUPLICATE **Lab ID: 92285439007** Collected: 02/04/16 14:00 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/kg	7.5	2.3	1		02/05/16 19:52	1634-04-4	
Naphthalene	ND	ug/kg	7.5	1.8	1		02/05/16 19:52	91-20-3	
n-Propylbenzene	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	103-65-1	
Styrene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	7.5	3.2	1		02/05/16 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	79-34-5	
Tetrachloroethene	ND	ug/kg	7.5	2.6	1		02/05/16 19:52	127-18-4	
Toluene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	7.5	3.3	1		02/05/16 19:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	7.5	2.4	1		02/05/16 19:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	7.5	3.2	1		02/05/16 19:52	79-00-5	
Trichloroethene	23.2	ug/kg	7.5	3.2	1		02/05/16 19:52	79-01-6	
Trichlorofluoromethane	ND	ug/kg	7.5	3.3	1		02/05/16 19:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	7.5	2.4	1		02/05/16 19:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	7.5	3.0	1		02/05/16 19:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	7.5	2.7	1		02/05/16 19:52	108-67-8	
Vinyl acetate	ND	ug/kg	75.1	13.2	1		02/05/16 19:52	108-05-4	
Vinyl chloride	ND	ug/kg	15.0	2.7	1		02/05/16 19:52	75-01-4	
Xylene (Total)	ND	ug/kg	15.0	5.4	1		02/05/16 19:52	1330-20-7	
m&p-Xylene	ND	ug/kg	15.0	5.4	1		02/05/16 19:52	179601-23-1	
o-Xylene	ND	ug/kg	7.5	2.9	1		02/05/16 19:52	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%	70-130		1		02/05/16 19:52	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		02/05/16 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132		1		02/05/16 19:52	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	37.8	%	0.10	0.10	1		02/08/16 12:15		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: CB-1 **Lab ID: 92285439008** Collected: 02/04/16 13:45 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/kg	115	11.5	1		02/09/16 20:35	67-64-1	
Benzene	ND	ug/kg	5.8	1.8	1		02/09/16 20:35	71-43-2	
Bromobenzene	ND	ug/kg	5.8	2.3	1		02/09/16 20:35	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	75-27-4	
Bromoform	ND	ug/kg	5.8	2.6	1		02/09/16 20:35	75-25-2	
Bromomethane	ND	ug/kg	11.5	2.9	1		02/09/16 20:35	74-83-9	
2-Butanone (MEK)	3.4J	ug/kg	115	3.3	1		02/09/16 20:35	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1.8	1		02/09/16 20:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	2.3	1		02/09/16 20:35	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	3.0	1		02/09/16 20:35	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	108-90-7	
Chloroethane	ND	ug/kg	11.5	2.8	1		02/09/16 20:35	75-00-3	
Chloroform	ND	ug/kg	5.8	1.8	1		02/09/16 20:35	67-66-3	
Chloromethane	ND	ug/kg	11.5	2.8	1		02/09/16 20:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	4.1	1		02/09/16 20:35	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	106-93-4	
Dibromomethane	ND	ug/kg	5.8	2.9	1		02/09/16 20:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	2.3	1		02/09/16 20:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.5	4.1	1		02/09/16 20:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1.7	1		02/09/16 20:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	2.5	1		02/09/16 20:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1.6	1		02/09/16 20:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1.7	1		02/09/16 20:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1.7	1		02/09/16 20:35	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	108-20-3	
Ethylbenzene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	2.3	1		02/09/16 20:35	87-68-3	
2-Hexanone	ND	ug/kg	57.6	4.5	1		02/09/16 20:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	99-87-6	
Methylene Chloride	ND	ug/kg	23.0	3.5	1		02/09/16 20:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.6	4.3	1		02/09/16 20:35	108-10-1	

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: CB-1 Lab ID: 92285439008 Collected: 02/04/16 13:45 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level									
Analytical Method: EPA 8260									
Methyl-tert-butyl ether	ND	ug/kg	5.8	1.7	1		02/09/16 20:35	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1.4	1		02/09/16 20:35	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	103-65-1	
Styrene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	2.4	1		02/09/16 20:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	2.0	1		02/09/16 20:35	127-18-4	
Toluene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	2.5	1		02/09/16 20:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1.8	1		02/09/16 20:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	2.4	1		02/09/16 20:35	79-00-5	
Trichloroethene	ND	ug/kg	5.8	2.4	1		02/09/16 20:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	2.5	1		02/09/16 20:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1.8	1		02/09/16 20:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	2.3	1		02/09/16 20:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	2.1	1		02/09/16 20:35	108-67-8	
Vinyl acetate	ND	ug/kg	57.6	10.1	1		02/09/16 20:35	108-05-4	
Vinyl chloride	ND	ug/kg	11.5	2.1	1		02/09/16 20:35	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	4.1	1		02/09/16 20:35	1330-20-7	
m&p-Xylene	ND	ug/kg	11.5	4.1	1		02/09/16 20:35	179601-23-1	
o-Xylene	ND	ug/kg	5.8	2.2	1		02/09/16 20:35	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		02/09/16 20:35	2037-26-5	2g
4-Bromofluorobenzene (S)	95	%	70-130		1		02/09/16 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132		1		02/09/16 20:35	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.2	%	0.10	0.10	1		02/08/16 12:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: CB-2 **Lab ID: 92285439009** Collected: 02/04/16 13:50 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/kg	117	11.7	1		02/09/16 20:55	67-64-1	
Benzene	ND	ug/kg	5.9	1.9	1		02/09/16 20:55	71-43-2	
Bromobenzene	ND	ug/kg	5.9	2.3	1		02/09/16 20:55	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	75-27-4	
Bromoform	ND	ug/kg	5.9	2.7	1		02/09/16 20:55	75-25-2	
Bromomethane	ND	ug/kg	11.7	2.9	1		02/09/16 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	117	3.4	1		02/09/16 20:55	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1.9	1		02/09/16 20:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	2.3	1		02/09/16 20:55	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.9	3.0	1		02/09/16 20:55	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	108-90-7	
Chloroethane	ND	ug/kg	11.7	2.8	1		02/09/16 20:55	75-00-3	
Chloroform	ND	ug/kg	5.9	1.9	1		02/09/16 20:55	67-66-3	
Chloromethane	ND	ug/kg	11.7	2.8	1		02/09/16 20:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.9	4.2	1		02/09/16 20:55	96-12-8	
Dibromochloromethane	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	106-93-4	
Dibromomethane	ND	ug/kg	5.9	2.9	1		02/09/16 20:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	2.3	1		02/09/16 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.7	4.2	1		02/09/16 20:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1.8	1		02/09/16 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	2.6	1		02/09/16 20:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1.6	1		02/09/16 20:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1.8	1		02/09/16 20:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1.8	1		02/09/16 20:55	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	108-20-3	
Ethylbenzene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	2.3	1		02/09/16 20:55	87-68-3	
2-Hexanone	ND	ug/kg	58.5	4.6	1		02/09/16 20:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	99-87-6	
Methylene Chloride	ND	ug/kg	23.4	3.5	1		02/09/16 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	58.5	4.3	1		02/09/16 20:55	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: CB-2 **Lab ID: 92285439009** Collected: 02/04/16 13:50 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level									
Analytical Method: EPA 8260									
Methyl-tert-butyl ether	ND	ug/kg	5.9	1.8	1		02/09/16 20:55	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1.4	1		02/09/16 20:55	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	103-65-1	
Styrene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	2.5	1		02/09/16 20:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	2.0	1		02/09/16 20:55	127-18-4	
Toluene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	2.6	1		02/09/16 20:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1.9	1		02/09/16 20:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	2.5	1		02/09/16 20:55	79-00-5	
Trichloroethene	ND	ug/kg	5.9	2.5	1		02/09/16 20:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	2.6	1		02/09/16 20:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1.9	1		02/09/16 20:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	2.3	1		02/09/16 20:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	2.1	1		02/09/16 20:55	108-67-8	
Vinyl acetate	ND	ug/kg	58.5	10.3	1		02/09/16 20:55	108-05-4	
Vinyl chloride	ND	ug/kg	11.7	2.1	1		02/09/16 20:55	75-01-4	
Xylene (Total)	ND	ug/kg	11.7	4.2	1		02/09/16 20:55	1330-20-7	
m&p-Xylene	ND	ug/kg	11.7	4.2	1		02/09/16 20:55	179601-23-1	
o-Xylene	ND	ug/kg	5.9	2.2	1		02/09/16 20:55	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%	70-130		1		02/09/16 20:55	2037-26-5	2g
4-Bromofluorobenzene (S)	101	%	70-130		1		02/09/16 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-132		1		02/09/16 20:55	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.6	%	0.10	0.10	1		02/08/16 12:15		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: CB-3 **Lab ID: 92285439010** Collected: 02/04/16 13:55 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/kg	113	11.3	1		02/09/16 21:14	67-64-1	
Benzene	ND	ug/kg	5.6	1.8	1		02/09/16 21:14	71-43-2	
Bromobenzene	ND	ug/kg	5.6	2.3	1		02/09/16 21:14	108-86-1	
Bromochloromethane	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	75-27-4	
Bromoform	ND	ug/kg	5.6	2.6	1		02/09/16 21:14	75-25-2	
Bromomethane	ND	ug/kg	11.3	2.8	1		02/09/16 21:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	113	3.3	1		02/09/16 21:14	78-93-3	
n-Butylbenzene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.6	1.8	1		02/09/16 21:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.6	2.3	1		02/09/16 21:14	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.6	2.9	1		02/09/16 21:14	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	108-90-7	
Chloroethane	ND	ug/kg	11.3	2.7	1		02/09/16 21:14	75-00-3	
Chloroform	ND	ug/kg	5.6	1.8	1		02/09/16 21:14	67-66-3	
Chloromethane	ND	ug/kg	11.3	2.7	1		02/09/16 21:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.6	4.1	1		02/09/16 21:14	96-12-8	
Dibromochloromethane	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	106-93-4	
Dibromomethane	ND	ug/kg	5.6	2.8	1		02/09/16 21:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	2.3	1		02/09/16 21:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.3	4.1	1		02/09/16 21:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.6	1.7	1		02/09/16 21:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	2.5	1		02/09/16 21:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1.6	1		02/09/16 21:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.6	1.7	1		02/09/16 21:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1.7	1		02/09/16 21:14	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	108-20-3	
Ethylbenzene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.6	2.3	1		02/09/16 21:14	87-68-3	
2-Hexanone	ND	ug/kg	56.3	4.4	1		02/09/16 21:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	99-87-6	
Methylene Chloride	ND	ug/kg	22.5	3.4	1		02/09/16 21:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	56.3	4.2	1		02/09/16 21:14	108-10-1	

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: CB-3 **Lab ID: 92285439010** Collected: 02/04/16 13:55 Received: 02/04/16 15:26 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level									
Analytical Method: EPA 8260									
Methyl-tert-butyl ether	ND	ug/kg	5.6	1.7	1		02/09/16 21:14	1634-04-4	
Naphthalene	ND	ug/kg	5.6	1.4	1		02/09/16 21:14	91-20-3	
n-Propylbenzene	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	103-65-1	
Styrene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.6	2.4	1		02/09/16 21:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1.9	1		02/09/16 21:14	127-18-4	
Toluene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.6	2.5	1		02/09/16 21:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	1.8	1		02/09/16 21:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	2.4	1		02/09/16 21:14	79-00-5	
Trichloroethene	ND	ug/kg	5.6	2.4	1		02/09/16 21:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.6	2.5	1		02/09/16 21:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.6	1.8	1		02/09/16 21:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	2.3	1		02/09/16 21:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	2.0	1		02/09/16 21:14	108-67-8	
Vinyl acetate	ND	ug/kg	56.3	9.9	1		02/09/16 21:14	108-05-4	
Vinyl chloride	ND	ug/kg	11.3	2.0	1		02/09/16 21:14	75-01-4	
Xylene (Total)	ND	ug/kg	11.3	4.1	1		02/09/16 21:14	1330-20-7	
m&p-Xylene	ND	ug/kg	11.3	4.1	1		02/09/16 21:14	179601-23-1	
o-Xylene	ND	ug/kg	5.6	2.1	1		02/09/16 21:14	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%	70-130		1		02/09/16 21:14	2037-26-5	2g
4-Bromofluorobenzene (S)	94	%	70-130		1		02/09/16 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-132		1		02/09/16 21:14	17060-07-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.2	%	0.10	0.10	1		02/08/16 12:15		

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: TRIP BLANK		Lab ID: 92285439011		Collected: 02/04/16 00:00		Received: 02/04/16 15:26		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	10.0	1		02/05/16 18:48	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		02/05/16 18:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		02/05/16 18:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		02/05/16 18:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/05/16 18:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		02/05/16 18:48	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		02/05/16 18:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		02/05/16 18:48	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/05/16 18:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		02/05/16 18:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		02/05/16 18:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		02/05/16 18:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/05/16 18:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		02/05/16 18:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		02/05/16 18:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	2.0	1		02/05/16 18:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		02/05/16 18:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/05/16 18:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		02/05/16 18:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		02/05/16 18:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		02/05/16 18:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/05/16 18:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		02/05/16 18:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		02/05/16 18:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		02/05/16 18:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		02/05/16 18:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		02/05/16 18:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		02/05/16 18:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/05/16 18:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/05/16 18:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		02/05/16 18:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		02/05/16 18:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/05/16 18:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/05/16 18:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/05/16 18:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/05/16 18:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		02/05/16 18:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		02/05/16 18:48	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		02/05/16 18:48	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/05/16 18:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		02/05/16 18:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/05/16 18:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/05/16 18:48	91-20-3	
Styrene	ND	ug/L	1.0	0.26	1		02/05/16 18:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		02/05/16 18:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		02/05/16 18:48	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Sample: TRIP BLANK		Lab ID: 92285439011		Collected: 02/04/16 00:00		Received: 02/04/16 15:26		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level		Analytical Method: EPA 8260							
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/05/16 18:48	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/05/16 18:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		02/05/16 18:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		02/05/16 18:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/05/16 18:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/05/16 18:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/05/16 18:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/05/16 18:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/05/16 18:48	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		02/05/16 18:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/05/16 18:48	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/05/16 18:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/05/16 18:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/05/16 18:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/05/16 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/05/16 18:48	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/05/16 18:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

QC Batch: MSV/35489

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 92285439008, 92285439009, 92285439010

METHOD BLANK: 1662153

Matrix: Solid

Associated Lab Samples: 92285439008, 92285439009, 92285439010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.6	1.9	02/09/16 10:59	
1,1,1-Trichloroethane	ug/kg	ND	4.6	1.7	02/09/16 10:59	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.6	1.8	02/09/16 10:59	
1,1,2-Trichloroethane	ug/kg	ND	4.6	1.9	02/09/16 10:59	
1,1-Dichloroethane	ug/kg	ND	4.6	1.4	02/09/16 10:59	
1,1-Dichloroethene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
1,1-Dichloropropene	ug/kg	ND	4.6	1.4	02/09/16 10:59	
1,2,3-Trichlorobenzene	ug/kg	ND	4.6	2.0	02/09/16 10:59	
1,2,3-Trichloropropane	ug/kg	ND	4.6	1.5	02/09/16 10:59	
1,2,4-Trichlorobenzene	ug/kg	ND	4.6	1.5	02/09/16 10:59	
1,2,4-Trimethylbenzene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.6	3.3	02/09/16 10:59	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.6	1.7	02/09/16 10:59	
1,2-Dichlorobenzene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
1,2-Dichloroethane	ug/kg	ND	4.6	2.0	02/09/16 10:59	
1,2-Dichloropropane	ug/kg	ND	4.6	1.6	02/09/16 10:59	
1,3,5-Trimethylbenzene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
1,3-Dichlorobenzene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
1,3-Dichloropropane	ug/kg	ND	4.6	1.8	02/09/16 10:59	
1,4-Dichlorobenzene	ug/kg	ND	4.6	1.6	02/09/16 10:59	
2,2-Dichloropropane	ug/kg	ND	4.6	1.6	02/09/16 10:59	
2-Butanone (MEK)	ug/kg	ND	92.3	2.7	02/09/16 10:59	
2-Chlorotoluene	ug/kg	ND	4.6	1.6	02/09/16 10:59	
2-Hexanone	ug/kg	ND	46.1	3.6	02/09/16 10:59	
4-Chlorotoluene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	46.1	3.4	02/09/16 10:59	
Acetone	ug/kg	ND	92.3	9.2	02/09/16 10:59	
Benzene	ug/kg	ND	4.6	1.5	02/09/16 10:59	
Bromobenzene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
Bromochloromethane	ug/kg	ND	4.6	1.6	02/09/16 10:59	
Bromodichloromethane	ug/kg	ND	4.6	1.8	02/09/16 10:59	
Bromoform	ug/kg	ND	4.6	2.1	02/09/16 10:59	
Bromomethane	ug/kg	ND	9.2	2.3	02/09/16 10:59	
Carbon tetrachloride	ug/kg	ND	4.6	2.4	02/09/16 10:59	
Chlorobenzene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
Chloroethane	ug/kg	ND	9.2	2.2	02/09/16 10:59	
Chloroform	ug/kg	ND	4.6	1.5	02/09/16 10:59	
Chloromethane	ug/kg	ND	9.2	2.2	02/09/16 10:59	
cis-1,2-Dichloroethene	ug/kg	ND	4.6	1.3	02/09/16 10:59	
cis-1,3-Dichloropropene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
Dibromochloromethane	ug/kg	ND	4.6	1.7	02/09/16 10:59	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

METHOD BLANK: 1662153

Matrix: Solid

Associated Lab Samples: 92285439008, 92285439009, 92285439010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.6	2.3	02/09/16 10:59	
Dichlorodifluoromethane	ug/kg	ND	9.2	3.3	02/09/16 10:59	
Diisopropyl ether	ug/kg	ND	4.6	1.6	02/09/16 10:59	
Ethylbenzene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
Hexachloro-1,3-butadiene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
Isopropylbenzene (Cumene)	ug/kg	ND	4.6	1.8	02/09/16 10:59	
m&p-Xylene	ug/kg	ND	9.2	3.3	02/09/16 10:59	
Methyl-tert-butyl ether	ug/kg	ND	4.6	1.4	02/09/16 10:59	
Methylene Chloride	ug/kg	ND	18.5	2.8	02/09/16 10:59	
n-Butylbenzene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
n-Propylbenzene	ug/kg	ND	4.6	1.6	02/09/16 10:59	
Naphthalene	ug/kg	ND	4.6	1.1	02/09/16 10:59	
o-Xylene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
p-Isopropyltoluene	ug/kg	ND	4.6	1.6	02/09/16 10:59	
sec-Butylbenzene	ug/kg	ND	4.6	1.5	02/09/16 10:59	
Styrene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
tert-Butylbenzene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
Tetrachloroethene	ug/kg	ND	4.6	1.6	02/09/16 10:59	
Toluene	ug/kg	ND	4.6	1.7	02/09/16 10:59	
trans-1,2-Dichloroethene	ug/kg	ND	4.6	1.8	02/09/16 10:59	
trans-1,3-Dichloropropene	ug/kg	ND	4.6	1.4	02/09/16 10:59	
Trichloroethene	ug/kg	ND	4.6	1.9	02/09/16 10:59	
Trichlorofluoromethane	ug/kg	ND	4.6	2.0	02/09/16 10:59	
Vinyl acetate	ug/kg	ND	46.1	8.1	02/09/16 10:59	
Vinyl chloride	ug/kg	ND	9.2	1.7	02/09/16 10:59	
Xylene (Total)	ug/kg	ND	9.2	3.3	02/09/16 10:59	
1,2-Dichloroethane-d4 (S)	%	90	70-132		02/09/16 10:59	
4-Bromofluorobenzene (S)	%	101	70-130		02/09/16 10:59	
Toluene-d8 (S)	%	99	70-130		02/09/16 10:59	

LABORATORY CONTROL SAMPLE: 1662154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	45.2	40.1	89	74-137	
1,1,1-Trichloroethane	ug/kg	45.2	41.3	91	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	45.2	34.3	76	72-141	F3
1,1,2-Trichloroethane	ug/kg	45.2	39.5	87	78-138	
1,1-Dichloroethane	ug/kg	45.2	38.3	85	69-134	
1,1-Dichloroethene	ug/kg	45.2	38.0	84	67-138	
1,1-Dichloropropene	ug/kg	45.2	38.3	85	69-139	
1,2,3-Trichlorobenzene	ug/kg	45.2	43.2	96	70-146	
1,2,3-Trichloropropane	ug/kg	45.2	38.7	86	69-144	
1,2,4-Trichlorobenzene	ug/kg	45.2	44.3	98	68-148	
1,2,4-Trimethylbenzene	ug/kg	45.2	42.4	94	74-137	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

LABORATORY CONTROL SAMPLE: 1662154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	45.2	39.9	88	65-140	
1,2-Dibromoethane (EDB)	ug/kg	45.2	41.0	91	77-135	
1,2-Dichlorobenzene	ug/kg	45.2	41.3	91	77-141	
1,2-Dichloroethane	ug/kg	45.2	37.6	83	65-137	
1,2-Dichloropropane	ug/kg	45.2	40.6	90	72-136	
1,3,5-Trimethylbenzene	ug/kg	45.2	41.9	93	76-133	
1,3-Dichlorobenzene	ug/kg	45.2	41.6	92	74-138	
1,3-Dichloropropane	ug/kg	45.2	38.7	86	71-139	
1,4-Dichlorobenzene	ug/kg	45.2	43.0	95	76-138	
2,2-Dichloropropane	ug/kg	45.2	41.9	93	68-137	
2-Butanone (MEK)	ug/kg	90.4	73.4J	81	58-147	
2-Chlorotoluene	ug/kg	45.2	42.1	93	73-139	
2-Hexanone	ug/kg	90.4	83.8	93	62-145	
4-Chlorotoluene	ug/kg	45.2	41.8	93	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	90.4	87.5	97	64-149	
Acetone	ug/kg	90.4	79.5J	88	53-153	
Benzene	ug/kg	45.2	40.8	90	73-135	
Bromobenzene	ug/kg	45.2	42.1	93	75-133	
Bromochloromethane	ug/kg	45.2	37.0	82	73-134	
Bromodichloromethane	ug/kg	45.2	41.9	93	71-135	
Bromoform	ug/kg	45.2	38.5	85	66-141	
Bromomethane	ug/kg	45.2	39.2	87	53-160	
Carbon tetrachloride	ug/kg	45.2	43.3	96	60-145	
Chlorobenzene	ug/kg	45.2	40.3	89	78-130	
Chloroethane	ug/kg	45.2	37.8	84	64-149	
Chloroform	ug/kg	45.2	39.6	88	70-134	
Chloromethane	ug/kg	45.2	41.0	91	52-150	
cis-1,2-Dichloroethene	ug/kg	45.2	40.2	89	70-133	
cis-1,3-Dichloropropene	ug/kg	45.2	41.8	93	68-134	
Dibromochloromethane	ug/kg	45.2	38.6	85	71-138	
Dibromomethane	ug/kg	45.2	41.4	91	74-130	
Dichlorodifluoromethane	ug/kg	45.2	34.3	76	40-160	
Diisopropyl ether	ug/kg	45.2	41.4	92	69-141	
Ethylbenzene	ug/kg	45.2	40.4	89	75-133	
Hexachloro-1,3-butadiene	ug/kg	45.2	42.9	95	68-143	
Isopropylbenzene (Cumene)	ug/kg	45.2	40.1	89	76-143	
m&p-Xylene	ug/kg	90.4	80.3	89	75-136	
Methyl-tert-butyl ether	ug/kg	45.2	38.9	86	68-144	
Methylene Chloride	ug/kg	45.2	40.4	89	45-154	
n-Butylbenzene	ug/kg	45.2	43.7	97	72-137	
n-Propylbenzene	ug/kg	45.2	41.2	91	76-136	
Naphthalene	ug/kg	45.2	41.2	91	68-151	
o-Xylene	ug/kg	45.2	39.4	87	76-141	
p-Isopropyltoluene	ug/kg	45.2	42.2	93	76-140	
sec-Butylbenzene	ug/kg	45.2	41.8	92	79-139	
Styrene	ug/kg	45.2	40.4	89	79-137	
tert-Butylbenzene	ug/kg	45.2	37.0	82	74-143	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

LABORATORY CONTROL SAMPLE: 1662154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	45.2	35.6	79	71-138	
Toluene	ug/kg	45.2	41.2	91	74-131	
trans-1,2-Dichloroethene	ug/kg	45.2	39.0	86	67-135	
trans-1,3-Dichloropropene	ug/kg	45.2	41.3	91	65-146	
Trichloroethene	ug/kg	45.2	42.9	95	67-135	
Trichlorofluoromethane	ug/kg	45.2	38.6	85	59-144	
Vinyl acetate	ug/kg	90.4	68.4	76	40-160	F3
Vinyl chloride	ug/kg	45.2	41.0	91	56-141	
Xylene (Total)	ug/kg	136	120	88	76-137	
1,2-Dichloroethane-d4 (S)	%			95	70-132	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING
Pace Project No.: 92285439

QC Batch:	MSV/35463	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV Low Level
Associated Lab Samples:	92285439011		

METHOD BLANK: 1661080 Matrix: Water
Associated Lab Samples: 92285439011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.33	02/05/16 16:36	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	02/05/16 16:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	02/05/16 16:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	02/05/16 16:36	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	02/05/16 16:36	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	02/05/16 16:36	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	02/05/16 16:36	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	02/05/16 16:36	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	02/05/16 16:36	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	02/05/16 16:36	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	2.0	02/05/16 16:36	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.27	02/05/16 16:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	02/05/16 16:36	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	02/05/16 16:36	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	02/05/16 16:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	02/05/16 16:36	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	02/05/16 16:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	02/05/16 16:36	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	02/05/16 16:36	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	02/05/16 16:36	
2-Chlorotoluene	ug/L	ND	1.0	0.35	02/05/16 16:36	
2-Hexanone	ug/L	ND	5.0	0.46	02/05/16 16:36	
4-Chlorotoluene	ug/L	ND	1.0	0.31	02/05/16 16:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	02/05/16 16:36	
Acetone	ug/L	ND	25.0	10.0	02/05/16 16:36	
Benzene	ug/L	ND	1.0	0.25	02/05/16 16:36	
Bromobenzene	ug/L	ND	1.0	0.30	02/05/16 16:36	
Bromochloromethane	ug/L	ND	1.0	0.17	02/05/16 16:36	
Bromodichloromethane	ug/L	ND	1.0	0.18	02/05/16 16:36	
Bromoform	ug/L	ND	1.0	0.26	02/05/16 16:36	
Bromomethane	ug/L	ND	2.0	0.29	02/05/16 16:36	
Carbon tetrachloride	ug/L	ND	1.0	0.25	02/05/16 16:36	
Chlorobenzene	ug/L	ND	1.0	0.23	02/05/16 16:36	
Chloroethane	ug/L	ND	1.0	0.54	02/05/16 16:36	
Chloroform	ug/L	ND	1.0	0.14	02/05/16 16:36	
Chloromethane	ug/L	ND	1.0	0.11	02/05/16 16:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	02/05/16 16:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	02/05/16 16:36	
Dibromochloromethane	ug/L	ND	1.0	0.21	02/05/16 16:36	
Dibromomethane	ug/L	ND	1.0	0.21	02/05/16 16:36	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	02/05/16 16:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING
Pace Project No.: 92285439

METHOD BLANK: 1661080

Matrix: Water

Associated Lab Samples: 92285439011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	0.12	02/05/16 16:36	
Ethylbenzene	ug/L	ND	1.0	0.30	02/05/16 16:36	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.71	02/05/16 16:36	
m&p-Xylene	ug/L	ND	2.0	0.66	02/05/16 16:36	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	02/05/16 16:36	
Methylene Chloride	ug/L	ND	2.0	0.97	02/05/16 16:36	
Naphthalene	ug/L	ND	1.0	0.24	02/05/16 16:36	
o-Xylene	ug/L	ND	1.0	0.23	02/05/16 16:36	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	02/05/16 16:36	
Styrene	ug/L	ND	1.0	0.26	02/05/16 16:36	
Tetrachloroethene	ug/L	ND	1.0	0.46	02/05/16 16:36	
Toluene	ug/L	ND	1.0	0.26	02/05/16 16:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	02/05/16 16:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	02/05/16 16:36	
Trichloroethene	ug/L	ND	1.0	0.47	02/05/16 16:36	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	02/05/16 16:36	
Vinyl acetate	ug/L	ND	2.0	0.35	02/05/16 16:36	
Vinyl chloride	ug/L	ND	1.0	0.62	02/05/16 16:36	
Xylene (Total)	ug/L	ND	2.0	0.66	02/05/16 16:36	
1,2-Dichloroethane-d4 (S)	%	100	70-130		02/05/16 16:36	
4-Bromofluorobenzene (S)	%	96	70-130		02/05/16 16:36	
Toluene-d8 (S)	%	101	70-130		02/05/16 16:36	

LABORATORY CONTROL SAMPLE: 1661081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.9	112	70-130	
1,1,1-Trichloroethane	ug/L	50	56.9	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.6	115	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	54.7	109	70-130	
1,1-Dichloroethene	ug/L	50	57.7	115	70-132	
1,1-Dichloropropene	ug/L	50	58.7	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	59.7	119	70-135	
1,2,3-Trichloropropane	ug/L	50	56.1	112	70-130	
1,2,4-Trichlorobenzene	ug/L	50	59.2	118	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	62.1	124	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.1	106	70-130	
1,2-Dichlorobenzene	ug/L	50	56.6	113	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
1,2-Dichloropropane	ug/L	50	54.7	109	70-130	
1,3-Dichlorobenzene	ug/L	50	57.9	116	70-130	
1,3-Dichloropropane	ug/L	50	55.8	112	70-130	
1,4-Dichlorobenzene	ug/L	50	58.1	116	70-130	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

LABORATORY CONTROL SAMPLE: 1661081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	56.5	113	58-145	
2-Butanone (MEK)	ug/L	100	118	118	70-145	
2-Chlorotoluene	ug/L	50	56.3	113	70-130	
2-Hexanone	ug/L	100	122	122	70-144	
4-Chlorotoluene	ug/L	50	56.7	113	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	121	121	70-140	
Acetone	ug/L	100	112	112	50-175	
Benzene	ug/L	50	55.6	111	70-130	
Bromobenzene	ug/L	50	57.2	114	70-130	
Bromochloromethane	ug/L	50	50.0	100	70-130	
Bromodichloromethane	ug/L	50	56.0	112	70-130	
Bromoform	ug/L	50	47.8	96	70-130	
Bromomethane	ug/L	50	50.5	101	54-130	
Carbon tetrachloride	ug/L	50	59.2	118	70-132	
Chlorobenzene	ug/L	50	56.9	114	70-130	
Chloroethane	ug/L	50	54.4	109	64-134	
Chloroform	ug/L	50	54.4	109	70-130	
Chloromethane	ug/L	50	57.4	115	64-130	
cis-1,2-Dichloroethene	ug/L	50	55.8	112	70-131	
cis-1,3-Dichloropropene	ug/L	50	56.7	113	70-130	
Dibromochloromethane	ug/L	50	50.6	101	70-130	
Dibromomethane	ug/L	50	56.0	112	70-131	
Dichlorodifluoromethane	ug/L	50	45.0	90	56-130	
Diisopropyl ether	ug/L	50	56.5	113	70-130	
Ethylbenzene	ug/L	50	56.4	113	70-130	
Hexachloro-1,3-butadiene	ug/L	50	57.7	115	70-130	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	58.4	117	70-130	
Methylene Chloride	ug/L	50	48.7	97	63-130	
Naphthalene	ug/L	50	59.8	120	70-138	
o-Xylene	ug/L	50	54.6	109	70-130	
p-Isopropyltoluene	ug/L	50	57.8	116	70-130	
Styrene	ug/L	50	57.4	115	70-130	
Tetrachloroethene	ug/L	50	57.4	115	70-130	
Toluene	ug/L	50	54.1	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	57.8	116	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	70-132	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	52.6	105	62-133	
Vinyl acetate	ug/L	100	103	103	66-157	
Vinyl chloride	ug/L	50	52.6	105	50-150	
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

MATRIX SPIKE SAMPLE:		1661082	92285091001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers	
1,1,1,2-Tetrachloroethane	ug/L	ND	500	535	107	70-130		
1,1,1-Trichloroethane	ug/L	ND	500	587	117	70-130		
1,1,2,2-Tetrachloroethane	ug/L	ND	500	549	110	70-130		
1,1,2-Trichloroethane	ug/L	ND	500	530	106	70-130		
1,1-Dichloroethane	ug/L	ND	500	554	111	70-130		
1,1-Dichloroethene	ug/L	ND	500	594	119	70-166		
1,1-Dichloropropene	ug/L	ND	500	601	120	70-130		
1,2,3-Trichlorobenzene	ug/L	ND	500	529	106	70-130		
1,2,3-Trichloropropane	ug/L	ND	500	524	105	70-130		
1,2,4-Trichlorobenzene	ug/L	ND	500	529	106	70-130		
1,2-Dibromo-3-chloropropane	ug/L	ND	500	554	111	70-130		
1,2-Dibromoethane (EDB)	ug/L	ND	500	526	105	70-130		
1,2-Dichlorobenzene	ug/L	ND	500	547	109	70-130		
1,2-Dichloroethane	ug/L	ND	500	528	105	70-130		
1,2-Dichloropropane	ug/L	ND	500	563	113	70-130		
1,3-Dichlorobenzene	ug/L	ND	500	554	111	70-130		
1,3-Dichloropropane	ug/L	ND	500	533	107	70-130		
1,4-Dichlorobenzene	ug/L	ND	500	555	111	70-130		
2,2-Dichloropropane	ug/L	ND	500	552	110	70-130		
2-Butanone (MEK)	ug/L	ND	1000	1120	112	70-130		
2-Chlorotoluene	ug/L	ND	500	480	96	70-130		
2-Hexanone	ug/L	ND	1000	1110	109	70-130		
4-Chlorotoluene	ug/L	ND	500	550	110	70-130		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	1000	1210	121	70-130		
Acetone	ug/L	ND	1000	956	96	70-130		
Benzene	ug/L	0.98 mg/L	500	1580	120	70-148		
Bromobenzene	ug/L	ND	500	562	112	70-130		
Bromochloromethane	ug/L	ND	500	497	99	70-130		
Bromodichloromethane	ug/L	ND	500	565	113	70-130		
Bromoform	ug/L	ND	500	461	92	70-130		
Bromomethane	ug/L	ND	500	530	106	70-130		
Carbon tetrachloride	ug/L	ND	500	612	122	70-130		
Chlorobenzene	ug/L	ND	500	565	113	70-146		
Chloroethane	ug/L	ND	500	644	129	70-130		
Chloroform	ug/L	ND	500	546	107	70-130		
Chloromethane	ug/L	ND	500	592	115	70-130		
cis-1,2-Dichloroethene	ug/L	ND	500	567	113	70-130		
cis-1,3-Dichloropropene	ug/L	ND	500	555	111	70-130		
Dibromochloromethane	ug/L	ND	500	503	101	70-130		
Dibromomethane	ug/L	ND	500	565	113	70-130		
Dichlorodifluoromethane	ug/L	ND	500	461	92	70-130		
Diisopropyl ether	ug/L	ND	500	585	115	70-130		
Ethylbenzene	ug/L	0.86 mg/L	500	1410	108	70-130		
Hexachloro-1,3-butadiene	ug/L	ND	500	522	104	70-130		
m&p-Xylene	ug/L	3.4 mg/L	1000	4400	100	70-130		
Methyl-tert-butyl ether	ug/L	0.081 mg/L	500	663	116	70-130		
Methylene Chloride	ug/L	ND	500	511	100	70-130		

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

MATRIX SPIKE SAMPLE: 1661082		92285091001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Naphthalene	ug/L	0.49 mg/L	500	955	94	70-130	
o-Xylene	ug/L	1.7 mg/L	500	2140	95	70-130	
p-Isopropyltoluene	ug/L	ND	500	571	111	70-130	
Styrene	ug/L	ND	500	558	111	70-130	
Tetrachloroethene	ug/L	ND	500	575	115	70-130	
Toluene	ug/L	3.7 mg/L	500	4240	115	70-155	
trans-1,2-Dichloroethene	ug/L	ND	500	582	116	70-130	
trans-1,3-Dichloropropene	ug/L	ND	500	537	107	70-130	
Trichloroethene	ug/L	ND	500	579	116	69-151	
Trichlorofluoromethane	ug/L	ND	500	582	116	70-130	
Vinyl acetate	ug/L	ND	1000	1100	110	70-130	
Vinyl chloride	ug/L	ND	500	561	112	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 1661083

Parameter	Units	92285091005	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	8.5J		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	1.1 mg/L	1070	2	30	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

SAMPLE DUPLICATE: 1661083

Parameter	Units	92285091005 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	0.021 mg/L	19.3J		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	0.037 mg/L	35.4	4	30	
Ethylbenzene	ug/L	0.69 mg/L	673	2	30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	3.2 mg/L	3160	0	30	
Methyl-tert-butyl ether	ug/L	0.083 mg/L	81.8	1	30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	0.42 mg/L	399	5	30	
o-Xylene	ug/L	1.3 mg/L	1290	3	30	
p-Isopropyltoluene	ug/L	0.034 mg/L	33.6	0	30	
Styrene	ug/L	ND	8.0J		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	2.5 mg/L	2430	2	30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	4.5 mg/L	4450	1	30	
1,2-Dichloroethane-d4 (S)	%	100	100	0		
4-Bromofluorobenzene (S)	%	99	98	1		
Toluene-d8 (S)	%	100	100	1		

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

QC Batch:	MSV/35456	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5035A Volatile Organics
Associated Lab Samples:	92285439001, 92285439002, 92285439003, 92285439004, 92285439005, 92285439006, 92285439007		

METHOD BLANK:	1660766	Matrix:	Solid
Associated Lab Samples:	92285439001, 92285439002, 92285439003, 92285439004, 92285439005, 92285439006, 92285439007		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.4	1.9	02/05/16 12:36	
1,1,1-Trichloroethane	ug/kg	ND	4.4	1.6	02/05/16 12:36	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.4	1.7	02/05/16 12:36	
1,1,2-Trichloroethane	ug/kg	ND	4.4	1.9	02/05/16 12:36	
1,1-Dichloroethane	ug/kg	ND	4.4	1.3	02/05/16 12:36	
1,1-Dichloroethene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
1,1-Dichloropropene	ug/kg	ND	4.4	1.3	02/05/16 12:36	
1,2,3-Trichlorobenzene	ug/kg	ND	4.4	2.0	02/05/16 12:36	
1,2,3-Trichloropropane	ug/kg	ND	4.4	1.4	02/05/16 12:36	
1,2,4-Trichlorobenzene	ug/kg	ND	4.4	1.4	02/05/16 12:36	
1,2,4-Trimethylbenzene	ug/kg	ND	4.4	1.8	02/05/16 12:36	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.4	3.2	02/05/16 12:36	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.4	1.6	02/05/16 12:36	
1,2-Dichlorobenzene	ug/kg	ND	4.4	1.7	02/05/16 12:36	
1,2-Dichloroethane	ug/kg	ND	4.4	2.0	02/05/16 12:36	
1,2-Dichloropropane	ug/kg	ND	4.4	1.5	02/05/16 12:36	
1,3,5-Trimethylbenzene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
1,3-Dichlorobenzene	ug/kg	ND	4.4	1.8	02/05/16 12:36	
1,3-Dichloropropane	ug/kg	ND	4.4	1.7	02/05/16 12:36	
1,4-Dichlorobenzene	ug/kg	ND	4.4	1.5	02/05/16 12:36	
2,2-Dichloropropane	ug/kg	ND	4.4	1.5	02/05/16 12:36	
2-Butanone (MEK)	ug/kg	ND	88.8	2.6	02/05/16 12:36	
2-Chlorotoluene	ug/kg	ND	4.4	1.5	02/05/16 12:36	
2-Hexanone	ug/kg	ND	44.4	3.5	02/05/16 12:36	
4-Chlorotoluene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	44.4	3.3	02/05/16 12:36	
Acetone	ug/kg	ND	88.8	8.9	02/05/16 12:36	
Benzene	ug/kg	ND	4.4	1.4	02/05/16 12:36	
Bromobenzene	ug/kg	ND	4.4	1.8	02/05/16 12:36	
Bromochloromethane	ug/kg	ND	4.4	1.5	02/05/16 12:36	
Bromodichloromethane	ug/kg	ND	4.4	1.7	02/05/16 12:36	
Bromoform	ug/kg	ND	4.4	2.0	02/05/16 12:36	
Bromomethane	ug/kg	ND	8.9	2.2	02/05/16 12:36	
Carbon tetrachloride	ug/kg	ND	4.4	2.3	02/05/16 12:36	
Chlorobenzene	ug/kg	ND	4.4	1.7	02/05/16 12:36	
Chloroethane	ug/kg	ND	8.9	2.1	02/05/16 12:36	
Chloroform	ug/kg	ND	4.4	1.4	02/05/16 12:36	
Chloromethane	ug/kg	ND	8.9	2.1	02/05/16 12:36	
cis-1,2-Dichloroethene	ug/kg	ND	4.4	1.2	02/05/16 12:36	
cis-1,3-Dichloropropene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
Dibromochloromethane	ug/kg	ND	4.4	1.6	02/05/16 12:36	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

METHOD BLANK: 1660766

Matrix: Solid

Associated Lab Samples: 92285439001, 92285439002, 92285439003, 92285439004, 92285439005, 92285439006, 92285439007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.4	2.2	02/05/16 12:36	
Dichlorodifluoromethane	ug/kg	ND	8.9	3.2	02/05/16 12:36	
Diisopropyl ether	ug/kg	ND	4.4	1.5	02/05/16 12:36	
Ethylbenzene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
Hexachloro-1,3-butadiene	ug/kg	ND	4.4	1.8	02/05/16 12:36	
Isopropylbenzene (Cumene)	ug/kg	ND	4.4	1.7	02/05/16 12:36	
m&p-Xylene	ug/kg	ND	8.9	3.2	02/05/16 12:36	
Methyl-tert-butyl ether	ug/kg	ND	4.4	1.3	02/05/16 12:36	
Methylene Chloride	ug/kg	ND	17.8	2.7	02/05/16 12:36	
n-Butylbenzene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
n-Propylbenzene	ug/kg	ND	4.4	1.5	02/05/16 12:36	
Naphthalene	ug/kg	ND	4.4	1.1	02/05/16 12:36	
o-Xylene	ug/kg	ND	4.4	1.7	02/05/16 12:36	
p-Isopropyltoluene	ug/kg	ND	4.4	1.5	02/05/16 12:36	
sec-Butylbenzene	ug/kg	ND	4.4	1.4	02/05/16 12:36	
Styrene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
tert-Butylbenzene	ug/kg	ND	4.4	1.8	02/05/16 12:36	
Tetrachloroethene	ug/kg	ND	4.4	1.5	02/05/16 12:36	
Toluene	ug/kg	ND	4.4	1.6	02/05/16 12:36	
trans-1,2-Dichloroethene	ug/kg	ND	4.4	1.7	02/05/16 12:36	
trans-1,3-Dichloropropene	ug/kg	ND	4.4	1.3	02/05/16 12:36	
Trichloroethene	ug/kg	ND	4.4	1.9	02/05/16 12:36	
Trichlorofluoromethane	ug/kg	ND	4.4	2.0	02/05/16 12:36	
Vinyl acetate	ug/kg	ND	44.4	7.8	02/05/16 12:36	
Vinyl chloride	ug/kg	ND	8.9	1.6	02/05/16 12:36	
Xylene (Total)	ug/kg	ND	8.9	3.2	02/05/16 12:36	
1,2-Dichloroethane-d4 (S)	%	86	70-132		02/05/16 12:36	
4-Bromofluorobenzene (S)	%	96	70-130		02/05/16 12:36	
Toluene-d8 (S)	%	102	70-130		02/05/16 12:36	

LABORATORY CONTROL SAMPLE: 1660767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	46.7	43.4	93	74-137	
1,1,1-Trichloroethane	ug/kg	46.7	49.6	106	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	46.7	35.8	77	72-141	
1,1,2-Trichloroethane	ug/kg	46.7	40.5	87	78-138	
1,1-Dichloroethane	ug/kg	46.7	46.4	99	69-134	
1,1-Dichloroethene	ug/kg	46.7	49.2	105	67-138	
1,1-Dichloropropene	ug/kg	46.7	47.6	102	69-139	
1,2,3-Trichlorobenzene	ug/kg	46.7	43.9	94	70-146	
1,2,3-Trichloropropane	ug/kg	46.7	41.2	88	69-144	
1,2,4-Trichlorobenzene	ug/kg	46.7	44.4	95	68-148	
1,2,4-Trimethylbenzene	ug/kg	46.7	43.3	93	74-137	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

LABORATORY CONTROL SAMPLE: 1660767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	46.7	42.6	91	65-140	
1,2-Dibromoethane (EDB)	ug/kg	46.7	42.7	91	77-135	
1,2-Dichlorobenzene	ug/kg	46.7	41.6	89	77-141	
1,2-Dichloroethane	ug/kg	46.7	46.6	100	65-137	
1,2-Dichloropropane	ug/kg	46.7	41.4	89	72-136	
1,3,5-Trimethylbenzene	ug/kg	46.7	42.8	92	76-133	
1,3-Dichlorobenzene	ug/kg	46.7	43.7	94	74-138	
1,3-Dichloropropane	ug/kg	46.7	41.7	89	71-139	
1,4-Dichlorobenzene	ug/kg	46.7	43.8	94	76-138	
2,2-Dichloropropane	ug/kg	46.7	49.8	107	68-137	
2-Butanone (MEK)	ug/kg	93.5	95.7	102	58-147	
2-Chlorotoluene	ug/kg	46.7	42.5	91	73-139	
2-Hexanone	ug/kg	93.5	93.2	100	62-145	
4-Chlorotoluene	ug/kg	46.7	43.4	93	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	93.5	87.7	94	64-149	
Acetone	ug/kg	93.5	101	108	53-153	
Benzene	ug/kg	46.7	41.0	88	73-135	
Bromobenzene	ug/kg	46.7	42.3	91	75-133	
Bromochloromethane	ug/kg	46.7	42.1	90	73-134	
Bromodichloromethane	ug/kg	46.7	42.1	90	71-135	
Bromoform	ug/kg	46.7	40.0	86	66-141	
Bromomethane	ug/kg	46.7	48.0	103	53-160	
Carbon tetrachloride	ug/kg	46.7	40.5	87	60-145	
Chlorobenzene	ug/kg	46.7	43.5	93	78-130	
Chloroethane	ug/kg	46.7	49.1	105	64-149	
Chloroform	ug/kg	46.7	47.8	102	70-134	
Chloromethane	ug/kg	46.7	46.3	99	52-150	
cis-1,2-Dichloroethene	ug/kg	46.7	47.5	102	70-133	
cis-1,3-Dichloropropene	ug/kg	46.7	41.5	89	68-134	
Dibromochloromethane	ug/kg	46.7	42.0	90	71-138	
Dibromomethane	ug/kg	46.7	41.2	88	74-130	
Dichlorodifluoromethane	ug/kg	46.7	41.6	89	40-160	
Diisopropyl ether	ug/kg	46.7	50.4	108	69-141	
Ethylbenzene	ug/kg	46.7	41.7	89	75-133	
Hexachloro-1,3-butadiene	ug/kg	46.7	43.2	92	68-143	
Isopropylbenzene (Cumene)	ug/kg	46.7	42.3	91	76-143	
m&p-Xylene	ug/kg	93.5	84.9	91	75-136	
Methyl-tert-butyl ether	ug/kg	46.7	49.0	105	68-144	
Methylene Chloride	ug/kg	46.7	49.1	105	45-154	
n-Butylbenzene	ug/kg	46.7	43.6	93	72-137	
n-Propylbenzene	ug/kg	46.7	41.9	90	76-136	
Naphthalene	ug/kg	46.7	42.7	91	68-151	
o-Xylene	ug/kg	46.7	41.7	89	76-141	
p-Isopropyltoluene	ug/kg	46.7	41.7	89	76-140	
sec-Butylbenzene	ug/kg	46.7	41.3	88	79-139	
Styrene	ug/kg	46.7	43.8	94	79-137	
tert-Butylbenzene	ug/kg	46.7	37.4	80	74-143	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

LABORATORY CONTROL SAMPLE: 1660767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	46.7	36.6	78	71-138	
Toluene	ug/kg	46.7	40.2	86	74-131	
trans-1,2-Dichloroethene	ug/kg	46.7	47.8	102	67-135	
trans-1,3-Dichloropropene	ug/kg	46.7	41.0	88	65-146	
Trichloroethene	ug/kg	46.7	45.4	97	67-135	
Trichlorofluoromethane	ug/kg	46.7	47.2	101	59-144	
Vinyl acetate	ug/kg	93.5	60.0	64	40-160 F3	
Vinyl chloride	ug/kg	46.7	49.7	106	56-141	
Xylene (Total)	ug/kg	140	127	90	76-137	
1,2-Dichloroethane-d4 (S)	%			117	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1661402

Parameter	Units	92285133006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	22.6	22.8	101	70-130	
1,1,1-Trichloroethane	ug/kg	ND	22.6	20.7	92	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	22.6	20.2	89	70-130	
1,1,2-Trichloroethane	ug/kg	ND	22.6	20.4	90	70-130	
1,1-Dichloroethane	ug/kg	ND	22.6	18.5	82	70-130	
1,1-Dichloroethene	ug/kg	ND	22.6	21.1	94	49-180	
1,1-Dichloropropene	ug/kg	ND	22.6	20.2	89	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	22.6	11.1	49	70-130 M1	
1,2,3-Trichloropropane	ug/kg	ND	22.6	22.6	100	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	22.6	12.3	54	70-130 M1	
1,2,4-Trimethylbenzene	ug/kg	ND	22.6	27.1	120	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	22.6	23.3	103	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	22.6	20.8	92	70-130	
1,2-Dichlorobenzene	ug/kg	ND	22.6	18.8	83	70-130	
1,2-Dichloroethane	ug/kg	ND	22.6	18.9	84	70-130	
1,2-Dichloropropane	ug/kg	ND	22.6	21.5	95	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	22.6	28.6	126	70-130	
1,3-Dichlorobenzene	ug/kg	ND	22.6	20.3	90	70-130	
1,3-Dichloropropane	ug/kg	ND	22.6	21.4	95	70-130	
1,4-Dichlorobenzene	ug/kg	ND	22.6	18.6	82	70-130	
2,2-Dichloropropane	ug/kg	ND	22.6	21.5	95	70-130	
2-Butanone (MEK)	ug/kg	ND	45.1	43.4J	96	70-130	
2-Chlorotoluene	ug/kg	ND	22.6	26.9	119	70-130	
2-Hexanone	ug/kg	ND	45.1	46.9J	104	70-130	
4-Chlorotoluene	ug/kg	ND	22.6	23.5	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	45.1	46.6J	103	70-130	
Acetone	ug/kg	21.8J	45.1	66.3J	98	70-130	
Benzene	ug/kg	ND	22.6	21.5	95	50-166	
Bromobenzene	ug/kg	ND	22.6	23.4	103	70-130	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

MATRIX SPIKE SAMPLE: 1661402		92285133006	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Bromochloromethane	ug/kg	ND	22.6	16.8	74	70-130	
Bromodichloromethane	ug/kg	ND	22.6	22.3	99	70-130	
Bromoform	ug/kg	ND	22.6	18.8	83	70-130	
Bromomethane	ug/kg	ND	22.6	21.2	94	70-130	
Carbon tetrachloride	ug/kg	ND	22.6	22.2	98	70-130	
Chlorobenzene	ug/kg	ND	22.6	19.6	87	43-169	
Chloroethane	ug/kg	ND	22.6	22.1	98	70-130	
Chloroform	ug/kg	ND	22.6	20.5	91	70-130	
Chloromethane	ug/kg	ND	22.6	20.9	92	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	22.6	19.2	85	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	22.6	19.9	88	70-130	
Dibromochloromethane	ug/kg	ND	22.6	22.0	97	70-130	
Dibromomethane	ug/kg	ND	22.6	20.4	90	70-130	
Dichlorodifluoromethane	ug/kg	ND	22.6	19.3	85	70-130	
Diisopropyl ether	ug/kg	ND	22.6	21.1	93	70-130	
Ethylbenzene	ug/kg	ND	22.6	22.6	100	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	22.6	26.4	117	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	22.6	23.4	104	70-130	
m&p-Xylene	ug/kg	ND	45.1	44.1	98	70-130	
Methyl-tert-butyl ether	ug/kg	ND	22.6	20.5	91	70-130	
Methylene Chloride	ug/kg	ND	22.6	17.8J	79	70-130	
n-Butylbenzene	ug/kg	ND	22.6	29.5	130	70-130	
n-Propylbenzene	ug/kg	ND	22.6	30.1	133	70-130 M1	
Naphthalene	ug/kg	ND	22.6	13.2	59	70-130 M1	
o-Xylene	ug/kg	ND	22.6	21.2	94	70-130	
p-Isopropyltoluene	ug/kg	ND	22.6	29.6	131	70-130 M1	
sec-Butylbenzene	ug/kg	ND	22.6	31.6	140	70-130 M1	
Styrene	ug/kg	ND	22.6	17.9	79	70-130	
tert-Butylbenzene	ug/kg	ND	22.6	29.1	129	70-130	
Tetrachloroethene	ug/kg	ND	22.6	18.9	84	70-130	
Toluene	ug/kg	ND	22.6	16.9	75	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	22.6	19.2	85	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	22.6	18.7	83	70-130	
Trichloroethene	ug/kg	ND	22.6	20.6	91	49-167	
Trichlorofluoromethane	ug/kg	ND	22.6	20.3	90	70-130	
Vinyl acetate	ug/kg	ND	45.1	20.5J	45	70-130 M1	
Vinyl chloride	ug/kg	ND	22.6	22.7	101	70-130	
1,2-Dichloroethane-d4 (S)	%				88	70-132	
4-Bromofluorobenzene (S)	%				86	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1661401

Parameter	Units	92285338001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

SAMPLE DUPLICATE: 1661401

Parameter	Units	92285338001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		30	
1,1,2-Trichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethane	ug/kg	ND	ND		30	
1,1-Dichloroethene	ug/kg	ND	ND		30	
1,1-Dichloropropene	ug/kg	ND	ND		30	
1,2,3-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,3-Trichloropropane	ug/kg	ND	ND		30	
1,2,4-Trichlorobenzene	ug/kg	ND	ND		30	
1,2,4-Trimethylbenzene	ug/kg	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		30	
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		30	
1,2-Dichlorobenzene	ug/kg	ND	ND		30	
1,2-Dichloroethane	ug/kg	ND	ND		30	
1,2-Dichloropropane	ug/kg	ND	ND		30	
1,3,5-Trimethylbenzene	ug/kg	ND	ND		30	
1,3-Dichlorobenzene	ug/kg	ND	ND		30	
1,3-Dichloropropane	ug/kg	ND	ND		30	
1,4-Dichlorobenzene	ug/kg	ND	ND		30	
2,2-Dichloropropane	ug/kg	ND	ND		30	
2-Butanone (MEK)	ug/kg	ND	ND		30	
2-Chlorotoluene	ug/kg	ND	ND		30	
2-Hexanone	ug/kg	ND	ND		30	
4-Chlorotoluene	ug/kg	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		30	
Acetone	ug/kg	ND	24.7J		30	
Benzene	ug/kg	ND	ND		30	
Bromobenzene	ug/kg	ND	ND		30	
Bromochloromethane	ug/kg	ND	ND		30	
Bromodichloromethane	ug/kg	ND	ND		30	
Bromoform	ug/kg	ND	ND		30	
Bromomethane	ug/kg	ND	ND		30	
Carbon tetrachloride	ug/kg	ND	ND		30	
Chlorobenzene	ug/kg	ND	ND		30	
Chloroethane	ug/kg	ND	ND		30	
Chloroform	ug/kg	ND	ND		30	
Chloromethane	ug/kg	ND	ND		30	
cis-1,2-Dichloroethene	ug/kg	ND	ND		30	
cis-1,3-Dichloropropene	ug/kg	ND	ND		30	
Dibromochloromethane	ug/kg	ND	ND		30	
Dibromomethane	ug/kg	ND	ND		30	
Dichlorodifluoromethane	ug/kg	ND	ND		30	
Diisopropyl ether	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
Hexachloro-1,3-butadiene	ug/kg	ND	ND		30	
Isopropylbenzene (Cumene)	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

SAMPLE DUPLICATE: 1661401

Parameter	Units	92285338001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		30	
Methylene Chloride	ug/kg	ND	11.0J		30	
n-Butylbenzene	ug/kg	ND	ND		30	
n-Propylbenzene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	2.0J		30	
o-Xylene	ug/kg	ND	ND		30	
p-Isopropyltoluene	ug/kg	ND	ND		30	
sec-Butylbenzene	ug/kg	ND	ND		30	
Styrene	ug/kg	ND	ND		30	
tert-Butylbenzene	ug/kg	ND	ND		30	
Tetrachloroethene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
trans-1,2-Dichloroethene	ug/kg	ND	ND		30	
trans-1,3-Dichloropropene	ug/kg	ND	ND		30	
Trichloroethene	ug/kg	ND	ND		30	
Trichlorofluoromethane	ug/kg	ND	ND		30	
Vinyl acetate	ug/kg	ND	ND		30	
Vinyl chloride	ug/kg	ND	ND		30	
Xylene (Total)	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	91	93	0		
4-Bromofluorobenzene (S)	%	98	95	5		
Toluene-d8 (S)	%	103	101	5		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

QC Batch:	PMST/8779	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	92285439001, 92285439002, 92285439003, 92285439004, 92285439005, 92285439006, 92285439007, 92285439008, 92285439009, 92285439010		

SAMPLE DUPLICATE: 1660553

Parameter	Units	92285255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	15.4	3	25	

SAMPLE DUPLICATE: 1660554

Parameter	Units	92285439010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.2	11.2	0	25	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
2g	The sample was weighed and preserved in the laboratory from a soil jar. Sample was not preserved within 48 hours.
C9	Common Laboratory Contaminant.
F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NEXUS RAIL SIDING

Pace Project No.: 92285439

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92285439008	CB-1	EPA 8260	MSV/35489		
92285439009	CB-2	EPA 8260	MSV/35489		
92285439010	CB-3	EPA 8260	MSV/35489		
92285439011	TRIP BLANK	EPA 8260	MSV/35463		
92285439001	NX-1-0.5-1.0	EPA 8260	MSV/35456		
92285439002	NX-2-0.5-1.0	EPA 8260	MSV/35456		
92285439003	NX-3-0.5-1.0	EPA 8260	MSV/35456		
92285439004	NX-4-0.5-1.0	EPA 8260	MSV/35456		
92285439005	NX-5-0.5-1.0	EPA 8260	MSV/35456		
92285439006	DOCK-1	EPA 8260	MSV/35456		
92285439007	DUPLICATE	EPA 8260	MSV/35456		
92285439001	NX-1-0.5-1.0	ASTM D2974-87	PMST/8779		
92285439002	NX-2-0.5-1.0	ASTM D2974-87	PMST/8779		
92285439003	NX-3-0.5-1.0	ASTM D2974-87	PMST/8779		
92285439004	NX-4-0.5-1.0	ASTM D2974-87	PMST/8779		
92285439005	NX-5-0.5-1.0	ASTM D2974-87	PMST/8779		
92285439006	DOCK-1	ASTM D2974-87	PMST/8779		
92285439007	DUPLICATE	ASTM D2974-87	PMST/8779		
92285439008	CB-1	ASTM D2974-87	PMST/8779		
92285439009	CB-2	ASTM D2974-87	PMST/8779		
92285439010	CB-3	ASTM D2974-87	PMST/8779		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: *Enviro Analytical Group* Project #:

WO#: 92285439



Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client
☐ Commercial ☐ Pace ☐ Other:

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other:

Thermometer Used: ☒ T1505

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *4.1 C*

Biological Tissue Frozen? ☐ Yes ☒ No ☐ N/A

Temp should be above freezing to 6°C

Correction Factor: *0.0 °C*

Date and Initials of Person Examining Contents: *RP 2-4-16*

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.	Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes Date/Time/ID/Analysis Matrix: <i>Soil</i>			
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
(HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Samples checked for dechlorization	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____

Date/Time: _____

Field Data Required? ☐ Yes ☐ No

Comments/Resolution: _____

Project Manager SCURF Review: *RP*

Date: *2/5*

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



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:

Company: EnviroAnalytics Group
Address: 1650 Des Peres Road
Saint Louis, MO 63131
Email: dcraig@enviroanalyticsgroup.com
Phone: (314)775-0500 Fax
Requested Due Date:

Section B

Required Project Information:

Report To: David Craig
Copy To:
Purchase Order #: **EAG 4228**
Project Name: Nexus Rail Siding
Project #:

Section C

Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: taylor.ezell@pacelabs.com
Pace Profile #: **6781e-3134-46WY**

Page : 1 Of 1

Regulatory Agency

State / Location

NC

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)	92285439																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses Test	VOC by 8260	VOC by 8260	Trip BLANK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
		CO - J		2/4/16	1525	RP Pace HVL		2-4-16	3:26	1526	41	Y	N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on
Ice
(Y/N)

Custody
Sealed
(Y/N)

Cooler
(Y/N)

Samples
Intact
(Y/N)

Attachment D

**EPA Screening Level for TCE
Nexus Church: 3144 Cullman Avenue, Charlotte, NC**

Bellis, Brian

Subject: FW: Additional Vapor Intrusion Work

From: Lucia Casabo [mailto:lcasabo@enviroanalyticsgroup.com]
Sent: Monday, October 05, 2015 3:51 PM
To: Bellis, Brian <bbellis@withersravenel.com>
Subject: FW: Additional Vapor Intrusion Work

Lucia Casabo



Ph: 919.960.9311

From: Kenneth Rhame [mailto:Rhame.Kenneth@epa.gov]
Sent: Tuesday, September 1, 2015 11:20 AM
To: Lucia Casabo <lcasabo@enviroanalyticsgroup.com>
Cc: Brent Burch <brent.burch@ncdenr.gov>
Subject: Re: Additional Vapor Intrusion Work

Our screening levels for indoor air at the church property is 8 micrograms per cubic meter. This was established considering sensitive populations (women of child bearing age and children) present.

Kenneth B Rhame
US EPA Region 4
On-Scene Coordinator
Raleigh, NC
(919) 475-7397 cell

On Sep 1, 2015, at 11:02 AM, Lucia Casabo <lcasabo@enviroanalyticsgroup.com> wrote:

Hi Ken,

We are in the process of evaluating potential screening levels for the Church indoor air.

Please let me know which EPA screening level was referenced for TCE in the e-mail below.

Thanks,

Lucia Casabo
EnviroAnalytics Group, LLC
Ph: 919.960.9311