

From: Krueger, Sarah E - DNR
Sent: Wednesday, July 3, 2019 4:15 PM
To: Tobias, Sam
Cc: Chronert, Roxanne N - DNR
Subject: Notification of Groundwater and Soil Sampling Results for the Tynan Property (BRRTS #: 02-20-554881)
Attachments: 2019.06.20_Figure 1 SB and TW locations.pdf; J165419-1 UDS Level 2 Report Final Report.pdf

Good Afternoon Sam,

I received the groundwater and soil sampling results for the Tynan Property (BRRTS #: 02-20-554881) from the consultant this afternoon and wanted to forward you the information. Attached is a figure with the sampling locations and the lab report.

The soil data reported as part of the additional sampling conducted June 18, 2019 are less than the NR 720 residual contaminant levels (RCL).

More specifically, the B-5 location from the original round of sampling had an Industrial Direct Contact NR 720 RCL exceedance of Lead. The Lead sample from B200, which was located within five feet of B-5, was below the groundwater pathway NR720 RCL. Additionally the volatile organic compound (VOCs) sampling in the three soil borings B100, B200, and B300 had one detect in all three borings, Styrene, all three detections were below the NR720 RCLs.

The groundwater data reported as part of the additional sampling conducted June 18, 2018 are less than the NR 140 enforcement standard (ES) and preventative action limit (PAL).

More specifically TW200 had no detections of VOCs in groundwater. TW100 had a detect of Toluene below the PAL, and TW300 had a detect of Benzene, Toluene, and Total Xylenes all of which were below the PAL.

The consultant will conduct one final round of groundwater sampling from the three wells in September, and I will report those results to you as well.

Please contact me with any questions you have.

Thank you,
Sarah

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Sarah Krueger, P.G.

Contaminated Sediment Specialist – Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313

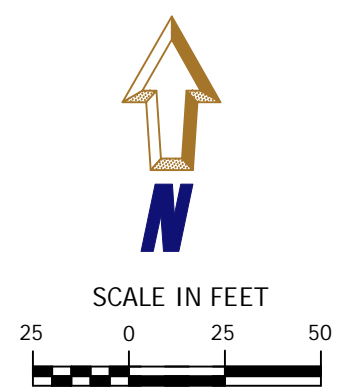
Phone: 920-662-5443

Sarah.Krueger@wisconsin.gov



dnr.wi.gov





LEGEND	
	APPROXIMATE PROPERTY LINE
	RMT SOIL BORING LOCATION
	RMT SOIL BORING AND TEMPORARY MONITORING WELL LOCATION
	STANTEC SOIL BORING AND TEMPORARY MONITORING WELL LOCATION
	TYNAN PRIVATE WELL LOCATION (ABANDONED)


 1165 Scheuring Road, Green Bay, Wisconsin 54115
 Phone: 920-592-8400 Fax: 920-592-8444

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DATE: 06/20/19 DRAWN BY: JRB PROJECT MANAGER: JRB

SITE LAYOUT WITH SOIL BORING AND TEMPORARY MONITORING WELL LOCATIONS	
TYNAN PROPERTY W998 STH 23 (PARCELS #T10-15-19-15-01-003-00, #T10-15-19-15-03-002-00) TOWN OF FOREST, WISCONSIN	
PROJECT NUMBER:	193706841
FIGURE	1

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-165419-1
Client Project/Site: Tynan Property - 193706841

For:
Stantec Consulting Corp.
1165 Scheuring Road
De Pere, Wisconsin 54115

Attn: Mr. Jeff Brand



Authorized for release by:
7/3/2019 8:10:19 AM
Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com
Designee for
Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Job ID: 500-165419-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-165419-1

Comments

No additional comments.

Receipt

The samples were received on 6/20/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA

The method blank for 492693 contained Styrene above the method detection limit and below the Reporting limit (RL). This target analyte concentration was greater than the reporting limit (RL) in the associated samples; therefore, re-analysis of samples was not performed. Styrene results have been flagged in the associated samples with a "B" flag denote the presence in the blank; therefore the results were reported.

The method blank for 492693 contained Styrene above the method detection limit and below the Reporting limit (RL). This target analyte concentration was not detected in the associated samples therefore: the data was reported.

The laboratory control sample (LCS) for 492693 recovered outside control limits for the following analyte: Methyl tert-butyl ether. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) for 492694 recovered outside control limits for the following analyte: Methyl tert-butyl ether. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S102

Lab Sample ID: 500-165419-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	41	J B	55	21	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: S202

Lab Sample ID: 500-165419-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	31	J B	50	19	ug/Kg	50	☼	8260B	Total/NA
Lead	3.0		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: S302

Lab Sample ID: 500-165419-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Styrene	26	J B	49	19	ug/Kg	50	☼	8260B	Total/NA
Lead	9.6		0.55	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: TW100

Lab Sample ID: 500-165419-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.21	J	0.50	0.15	ug/L	1		8260B	Total/NA

Client Sample ID: TW200

Lab Sample ID: 500-165419-5

No Detections.

Client Sample ID: TW300

Lab Sample ID: 500-165419-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.26	J	0.50	0.15	ug/L	1		8260B	Total/NA
Toluene	0.50		0.50	0.15	ug/L	1		8260B	Total/NA
Xylenes, Total	0.26	J	1.0	0.22	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-165419-1	S102	Solid	06/18/19 09:32	06/20/19 09:40	
500-165419-2	S202	Solid	06/18/19 10:10	06/20/19 09:40	
500-165419-3	S302	Solid	06/18/19 10:50	06/20/19 09:40	
500-165419-4	TW100	Water	06/18/19 12:41	06/20/19 09:40	
500-165419-5	TW200	Water	06/18/19 12:16	06/20/19 09:40	
500-165419-6	TW300	Water	06/18/19 11:37	06/20/19 09:40	

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S102

Lab Sample ID: 500-165419-1

Date Collected: 06/18/19 09:32

Matrix: Solid

Date Received: 06/20/19 09:40

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		55	25	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,1,1-Trichloroethane	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,1,2-Trichloroethane	<19		55	19	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,1-Dichloroethane	<22		55	22	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,1-Dichloroethene	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,1-Dichloropropene	<16		55	16	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2,4-Trimethylbenzene	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2-Dibromo-3-Chloropropane	<110		270	110	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2-Dibromoethane	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2-Dichlorobenzene	<18		55	18	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2-Dichloroethane	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,2-Dichloropropane	<23		55	23	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,3,5-Trimethylbenzene	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
2,2-Dichloropropane	<24		55	24	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
4-Chlorotoluene	<19		55	19	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Benzene	<8.0		14	8.0	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Bromobenzene	<19		55	19	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Bromochloromethane	<23		55	23	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Bromodichloromethane	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Bromoform	<26		55	26	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Bromomethane	<43		160	43	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Carbon tetrachloride	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Chlorobenzene	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Chloroethane	<27		55	27	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Chloroform	<20		110	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Chloromethane	<17		55	17	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
cis-1,2-Dichloroethene	<22		55	22	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Dibromochloromethane	<27		55	27	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Dibromomethane	<15		55	15	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Dichlorodifluoromethane	<37		160	37	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Ethylbenzene	<10		14	10	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Hexachlorobutadiene	<24		55	24	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Isopropyl ether	<15		55	15	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Methyl tert-butyl ether	<21 *		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Methylene Chloride	<89		270	89	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Naphthalene	<18		55	18	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
n-Butylbenzene	<21		55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
p-Isopropyltoluene	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S102

Lab Sample ID: 500-165419-1

Date Collected: 06/18/19 09:32

Matrix: Solid

Date Received: 06/20/19 09:40

Percent Solids: 81.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<22		55	22	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Styrene	41	J B	55	21	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
tert-Butylbenzene	<22		55	22	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Tetrachloroethene	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Toluene	<8.0		14	8.0	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
trans-1,2-Dichloroethene	<19		55	19	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Trichloroethene	<8.9		27	8.9	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Trichlorofluoromethane	<23		55	23	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Vinyl chloride	<14		55	14	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Xylenes, Total	<12		27	12	ug/Kg	☼	06/18/19 09:32	06/29/19 13:02	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				06/18/19 09:32	06/29/19 13:02	50
4-Bromofluorobenzene (Surr)	107		72 - 124				06/18/19 09:32	06/29/19 13:02	50
Dibromofluoromethane	104		75 - 120				06/18/19 09:32	06/29/19 13:02	50
Toluene-d8 (Surr)	90		75 - 120				06/18/19 09:32	06/29/19 13:02	50

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S202

Lab Sample ID: 500-165419-2

Date Collected: 06/18/19 10:10

Matrix: Solid

Date Received: 06/20/19 09:40

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,1-Dichloroethane	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,1-Dichloroethene	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2-Dibromo-3-Chloropropane	<99		250	99	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
4-Chlorotoluene	<17		50	17	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Benzene	<7.3		12	7.3	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Bromobenzene	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Bromochloromethane	<21		50	21	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Bromoform	<24		50	24	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Bromomethane	<40		150	40	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Chlorobenzene	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Chloroethane	<25		50	25	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Chloroform	<18		100	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Chloromethane	<16		50	16	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
cis-1,3-Dichloropropane	<21		50	21	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Dibromomethane	<13		50	13	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Dichlorodifluoromethane	<34		150	34	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Ethylbenzene	<9.1		12	9.1	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Isopropyl ether	<14		50	14	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Methyl tert-butyl ether	<20 *		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Methylene Chloride	<81		250	81	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Naphthalene	<17		50	17	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S202

Lab Sample ID: 500-165419-2

Date Collected: 06/18/19 10:10

Matrix: Solid

Date Received: 06/20/19 09:40

Percent Solids: 85.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Styrene	31	J B	50	19	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Tetrachloroethene	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Toluene	<7.3		12	7.3	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
trans-1,2-Dichloroethene	<17		50	17	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Trichlorofluoromethane	<21		50	21	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Vinyl chloride	<13		50	13	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Xylenes, Total	<11		25	11	ug/Kg	☼	06/18/19 10:10	06/29/19 13:30	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 126				06/18/19 10:10	06/29/19 13:30	50
4-Bromofluorobenzene (Surr)	107		72 - 124				06/18/19 10:10	06/29/19 13:30	50
Dibromofluoromethane	103		75 - 120				06/18/19 10:10	06/29/19 13:30	50
Toluene-d8 (Surr)	89		75 - 120				06/18/19 10:10	06/29/19 13:30	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.0		0.57	0.26	mg/Kg	☼	06/25/19 07:43	06/26/19 09:44	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S302

Lab Sample ID: 500-165419-3

Date Collected: 06/18/19 10:50

Matrix: Solid

Date Received: 06/20/19 09:40

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		49	23	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,1,1-Trichloroethane	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,1,2,2-Tetrachloroethane	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,1,2-Trichloroethane	<17		49	17	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,1-Dichloroethane	<20		49	20	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,1-Dichloroethene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,1-Dichloropropene	<15		49	15	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2,3-Trichlorobenzene	<22		49	22	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2,3-Trichloropropane	<20		98	20	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2,4-Trichlorobenzene	<17		49	17	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2,4-Trimethylbenzene	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2-Dibromo-3-Chloropropane	<97		240	97	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2-Dibromoethane	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2-Dichlorobenzene	<16		49	16	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2-Dichloroethane	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,2-Dichloropropane	<21		49	21	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,3,5-Trimethylbenzene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,3-Dichlorobenzene	<20		49	20	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,3-Dichloropropane	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
1,4-Dichlorobenzene	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
2,2-Dichloropropane	<22		49	22	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
2-Chlorotoluene	<15		49	15	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
4-Chlorotoluene	<17		49	17	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Benzene	<7.1		12	7.1	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Bromobenzene	<17		49	17	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Bromochloromethane	<21		49	21	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Bromodichloromethane	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Bromoform	<24		49	24	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Bromomethane	<39		150	39	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Carbon tetrachloride	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Chlorobenzene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Chloroethane	<25		49	25	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Chloroform	<18		98	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Chloromethane	<16		49	16	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
cis-1,2-Dichloroethene	<20		49	20	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
cis-1,3-Dichloropropane	<20		49	20	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Dibromochloromethane	<24		49	24	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Dibromomethane	<13		49	13	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Dichlorodifluoromethane	<33		150	33	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Ethylbenzene	<8.9		12	8.9	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Hexachlorobutadiene	<22		49	22	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Isopropyl ether	<13		49	13	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Isopropylbenzene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Methyl tert-butyl ether	<19 *		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Methylene Chloride	<80		240	80	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Naphthalene	<16		49	16	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
n-Butylbenzene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
N-Propylbenzene	<20		49	20	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
p-Isopropyltoluene	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50

Eurofins TestAmerica, Chicago

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S302

Lab Sample ID: 500-165419-3

Date Collected: 06/18/19 10:50

Matrix: Solid

Date Received: 06/20/19 09:40

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Styrene	26	J B	49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
tert-Butylbenzene	<19		49	19	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Tetrachloroethene	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Toluene	<7.2		12	7.2	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
trans-1,2-Dichloroethene	<17		49	17	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
trans-1,3-Dichloropropene	<18		49	18	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Trichloroethene	<8.0		24	8.0	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Trichlorofluoromethane	<21		49	21	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Vinyl chloride	<13		49	13	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50
Xylenes, Total	<11		24	11	ug/Kg	☼	06/18/19 10:50	06/29/19 13:57	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 126	06/18/19 10:50	06/29/19 13:57	50
4-Bromofluorobenzene (Surr)	106		72 - 124	06/18/19 10:50	06/29/19 13:57	50
Dibromofluoromethane	104		75 - 120	06/18/19 10:50	06/29/19 13:57	50
Toluene-d8 (Surr)	89		75 - 120	06/18/19 10:50	06/29/19 13:57	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		0.55	0.25	mg/Kg	☼	06/25/19 07:43	06/26/19 09:48	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW100

Lab Sample ID: 500-165419-4

Date Collected: 06/18/19 12:41

Matrix: Water

Date Received: 06/20/19 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/29/19 14:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/29/19 14:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/29/19 14:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/29/19 14:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/29/19 14:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/29/19 14:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/29/19 14:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/29/19 14:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/29/19 14:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/29/19 14:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/29/19 14:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/29/19 14:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/29/19 14:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/29/19 14:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/29/19 14:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/29/19 14:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/29/19 14:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/29/19 14:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/29/19 14:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/29/19 14:24	1
Benzene	<0.15		0.50	0.15	ug/L			06/29/19 14:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/29/19 14:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/29/19 14:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/29/19 14:24	1
Bromoform	<0.48		1.0	0.48	ug/L			06/29/19 14:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/29/19 14:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/29/19 14:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/29/19 14:24	1
Chloroform	<0.37		2.0	0.37	ug/L			06/29/19 14:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/29/19 14:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/29/19 14:24	1
cis-1,3-Dichloropropane	<0.42		1.0	0.42	ug/L			06/29/19 14:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/29/19 14:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/29/19 14:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/29/19 14:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/29/19 14:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/29/19 14:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/29/19 14:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
Methyl tert-butyl ether	<0.39 *		1.0	0.39	ug/L			06/29/19 14:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/29/19 14:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/29/19 14:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/29/19 14:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/29/19 14:24	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW100

Lab Sample ID: 500-165419-4

Date Collected: 06/18/19 12:41

Matrix: Water

Date Received: 06/20/19 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 14:24	1
Styrene	<0.39		1.0	0.39	ug/L			06/29/19 14:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 14:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/29/19 14:24	1
Toluene	0.21	J	0.50	0.15	ug/L			06/29/19 14:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/29/19 14:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/29/19 14:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/29/19 14:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/29/19 14:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/29/19 14:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/29/19 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		06/29/19 14:24	1
4-Bromofluorobenzene (Surr)	110		72 - 124		06/29/19 14:24	1
Dibromofluoromethane	104		75 - 120		06/29/19 14:24	1
Toluene-d8 (Surr)	90		75 - 120		06/29/19 14:24	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW200

Lab Sample ID: 500-165419-5

Date Collected: 06/18/19 12:16

Matrix: Water

Date Received: 06/20/19 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/29/19 14:51	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/29/19 14:51	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/29/19 14:51	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/29/19 14:51	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/29/19 14:51	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/29/19 14:51	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/29/19 14:51	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/29/19 14:51	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/29/19 14:51	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/29/19 14:51	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/29/19 14:51	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/29/19 14:51	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/29/19 14:51	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/29/19 14:51	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/29/19 14:51	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/29/19 14:51	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/29/19 14:51	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/29/19 14:51	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/29/19 14:51	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/29/19 14:51	1
Benzene	<0.15		0.50	0.15	ug/L			06/29/19 14:51	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/29/19 14:51	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/29/19 14:51	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/29/19 14:51	1
Bromoform	<0.48		1.0	0.48	ug/L			06/29/19 14:51	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/29/19 14:51	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/29/19 14:51	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/29/19 14:51	1
Chloroform	<0.37		2.0	0.37	ug/L			06/29/19 14:51	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/29/19 14:51	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/29/19 14:51	1
cis-1,3-Dichloropropane	<0.42		1.0	0.42	ug/L			06/29/19 14:51	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/29/19 14:51	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/29/19 14:51	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/29/19 14:51	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/29/19 14:51	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/29/19 14:51	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/29/19 14:51	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
Methyl tert-butyl ether	<0.39 *		1.0	0.39	ug/L			06/29/19 14:51	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/29/19 14:51	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/29/19 14:51	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/29/19 14:51	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/29/19 14:51	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW200

Lab Sample ID: 500-165419-5

Date Collected: 06/18/19 12:16

Matrix: Water

Date Received: 06/20/19 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 14:51	1
Styrene	<0.39		1.0	0.39	ug/L			06/29/19 14:51	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 14:51	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/29/19 14:51	1
Toluene	<0.15		0.50	0.15	ug/L			06/29/19 14:51	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/29/19 14:51	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/29/19 14:51	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/29/19 14:51	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/29/19 14:51	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/29/19 14:51	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/29/19 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 126		06/29/19 14:51	1
4-Bromofluorobenzene (Surr)	110		72 - 124		06/29/19 14:51	1
Dibromofluoromethane	106		75 - 120		06/29/19 14:51	1
Toluene-d8 (Surr)	90		75 - 120		06/29/19 14:51	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW300

Lab Sample ID: 500-165419-6

Date Collected: 06/18/19 11:37

Matrix: Water

Date Received: 06/20/19 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/29/19 15:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/29/19 15:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/29/19 15:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/29/19 15:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/29/19 15:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/29/19 15:19	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/29/19 15:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/29/19 15:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/29/19 15:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/29/19 15:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/29/19 15:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/29/19 15:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/29/19 15:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/29/19 15:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/29/19 15:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/29/19 15:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/29/19 15:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/29/19 15:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/29/19 15:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/29/19 15:19	1
Benzene	0.26	J	0.50	0.15	ug/L			06/29/19 15:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/29/19 15:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/29/19 15:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/29/19 15:19	1
Bromoform	<0.48		1.0	0.48	ug/L			06/29/19 15:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/29/19 15:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/29/19 15:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/29/19 15:19	1
Chloroform	<0.37		2.0	0.37	ug/L			06/29/19 15:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/29/19 15:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/29/19 15:19	1
cis-1,3-Dichloropropane	<0.42		1.0	0.42	ug/L			06/29/19 15:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/29/19 15:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/29/19 15:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/29/19 15:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/29/19 15:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/29/19 15:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/29/19 15:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
Methyl tert-butyl ether	<0.39	*	1.0	0.39	ug/L			06/29/19 15:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/29/19 15:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/29/19 15:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/29/19 15:19	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/29/19 15:19	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW300

Lab Sample ID: 500-165419-6

Date Collected: 06/18/19 11:37

Matrix: Water

Date Received: 06/20/19 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 15:19	1
Styrene	<0.39		1.0	0.39	ug/L			06/29/19 15:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 15:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/29/19 15:19	1
Toluene	0.50		0.50	0.15	ug/L			06/29/19 15:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/29/19 15:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/29/19 15:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/29/19 15:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/29/19 15:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/29/19 15:19	1
Xylenes, Total	0.26	J	1.0	0.22	ug/L			06/29/19 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 126		06/29/19 15:19	1
4-Bromofluorobenzene (Surr)	110		72 - 124		06/29/19 15:19	1
Dibromofluoromethane	107		75 - 120		06/29/19 15:19	1
Toluene-d8 (Surr)	89		75 - 120		06/29/19 15:19	1

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

GC/MS VOA

Prep Batch: 491402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165419-1	S102	Total/NA	Solid	5035	
500-165419-2	S202	Total/NA	Solid	5035	
500-165419-3	S302	Total/NA	Solid	5035	

Analysis Batch: 492693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165419-1	S102	Total/NA	Solid	8260B	491402
500-165419-2	S202	Total/NA	Solid	8260B	491402
500-165419-3	S302	Total/NA	Solid	8260B	491402
MB 500-492693/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-492693/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 492694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165419-4	TW100	Total/NA	Water	8260B	
500-165419-5	TW200	Total/NA	Water	8260B	
500-165419-6	TW300	Total/NA	Water	8260B	
MB 500-492694/6	Method Blank	Total/NA	Water	8260B	
LCS 500-492694/4	Lab Control Sample	Total/NA	Water	8260B	

Metals

Prep Batch: 491831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165419-2	S202	Total/NA	Solid	3050B	
500-165419-3	S302	Total/NA	Solid	3050B	
MB 500-491831/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-491831/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 492159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165419-2	S202	Total/NA	Solid	6010C	491831
500-165419-3	S302	Total/NA	Solid	6010C	491831
MB 500-491831/1-A	Method Blank	Total/NA	Solid	6010C	491831
LCS 500-491831/2-A	Lab Control Sample	Total/NA	Solid	6010C	491831

General Chemistry

Analysis Batch: 492121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-165419-1	S102	Total/NA	Solid	Moisture	
500-165419-2	S202	Total/NA	Solid	Moisture	
500-165419-3	S302	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-165419-1	S102	102	107	104	90
500-165419-2	S202	102	107	103	89
500-165419-3	S302	101	106	104	89
LCS 500-492693/4	Lab Control Sample	101	105	109	90
MB 500-492693/6	Method Blank	103	107	104	89

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-165419-4	TW100	103	110	104	90
500-165419-5	TW200	104	110	106	90
500-165419-6	TW300	105	110	107	89
LCS 500-492694/4	Lab Control Sample	101	105	109	90
MB 500-492694/6	Method Blank	103	107	104	89

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-492693/6
Matrix: Solid
Analysis Batch: 492693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			06/29/19 12:08	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			06/29/19 12:08	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			06/29/19 12:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			06/29/19 12:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			06/29/19 12:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			06/29/19 12:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			06/29/19 12:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			06/29/19 12:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			06/29/19 12:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			06/29/19 12:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/29/19 12:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			06/29/19 12:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			06/29/19 12:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			06/29/19 12:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			06/29/19 12:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			06/29/19 12:08	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/29/19 12:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			06/29/19 12:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			06/29/19 12:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			06/29/19 12:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			06/29/19 12:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			06/29/19 12:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			06/29/19 12:08	1
Benzene	<0.15		0.25	0.15	ug/Kg			06/29/19 12:08	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			06/29/19 12:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			06/29/19 12:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			06/29/19 12:08	1
Bromoform	<0.48		1.0	0.48	ug/Kg			06/29/19 12:08	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			06/29/19 12:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			06/29/19 12:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			06/29/19 12:08	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			06/29/19 12:08	1
Chloroform	<0.37		2.0	0.37	ug/Kg			06/29/19 12:08	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			06/29/19 12:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			06/29/19 12:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			06/29/19 12:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			06/29/19 12:08	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			06/29/19 12:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			06/29/19 12:08	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/29/19 12:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			06/29/19 12:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			06/29/19 12:08	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			06/29/19 12:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/29/19 12:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			06/29/19 12:08	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/29/19 12:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			06/29/19 12:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			06/29/19 12:08	1

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-492693/6
Matrix: Solid
Analysis Batch: 492693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			06/29/19 12:08	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/29/19 12:08	1
Styrene	0.679	J	1.0	0.39	ug/Kg			06/29/19 12:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/29/19 12:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			06/29/19 12:08	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/29/19 12:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			06/29/19 12:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			06/29/19 12:08	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			06/29/19 12:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			06/29/19 12:08	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			06/29/19 12:08	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/29/19 12:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		06/29/19 12:08	1
4-Bromofluorobenzene (Surr)	107		72 - 124		06/29/19 12:08	1
Dibromofluoromethane	104		75 - 120		06/29/19 12:08	1
Toluene-d8 (Surr)	89		75 - 120		06/29/19 12:08	1

Lab Sample ID: LCS 500-492693/4
Matrix: Solid
Analysis Batch: 492693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.4		ug/Kg		101	70 - 125
1,1,1,2-Tetrachloroethane	50.0	35.3		ug/Kg		71	62 - 140
1,1,2-Trichloroethane	50.0	39.4		ug/Kg		79	71 - 130
1,1-Dichloroethane	50.0	44.8		ug/Kg		90	70 - 125
1,1-Dichloroethene	50.0	44.6		ug/Kg		89	67 - 122
1,1-Dichloropropene	50.0	48.8		ug/Kg		98	70 - 121
1,2,3-Trichlorobenzene	50.0	51.4		ug/Kg		103	51 - 145
1,2,3-Trichloropropane	50.0	42.0		ug/Kg		84	50 - 133
1,2,4-Trichlorobenzene	50.0	52.4		ug/Kg		105	57 - 137
1,2,4-Trimethylbenzene	50.0	47.7		ug/Kg		95	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.6		ug/Kg		75	56 - 123
1,2-Dibromoethane	50.0	43.2		ug/Kg		86	70 - 125
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	70 - 125
1,2-Dichloroethane	50.0	47.3		ug/Kg		95	68 - 127
1,2-Dichloropropane	50.0	43.9		ug/Kg		88	67 - 130
1,3,5-Trimethylbenzene	50.0	47.4		ug/Kg		95	70 - 123
1,3-Dichlorobenzene	50.0	46.8		ug/Kg		94	70 - 125
1,3-Dichloropropane	50.0	40.9		ug/Kg		82	62 - 136
1,4-Dichlorobenzene	50.0	46.1		ug/Kg		92	70 - 120
2,2-Dichloropropane	50.0	45.5		ug/Kg		91	58 - 139
2-Chlorotoluene	50.0	44.4		ug/Kg		89	70 - 125
4-Chlorotoluene	50.0	43.4		ug/Kg		87	68 - 124
Benzene	50.0	44.6		ug/Kg		89	70 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-492693/4
Matrix: Solid
Analysis Batch: 492693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	48.9		ug/Kg		98	70 - 122
Bromochloromethane	50.0	50.5		ug/Kg		101	65 - 122
Bromodichloromethane	50.0	47.2		ug/Kg		94	69 - 120
Bromoform	50.0	45.1		ug/Kg		90	56 - 132
Bromomethane	50.0	32.7		ug/Kg		65	40 - 152
Carbon tetrachloride	50.0	53.6		ug/Kg		107	59 - 133
Chlorobenzene	50.0	45.7		ug/Kg		91	70 - 120
Chloroethane	50.0	38.6		ug/Kg		77	48 - 136
Chloroform	50.0	46.9		ug/Kg		94	70 - 120
Chloromethane	50.0	35.3		ug/Kg		71	56 - 152
cis-1,2-Dichloroethene	50.0	46.1		ug/Kg		92	70 - 125
cis-1,3-Dichloropropene	50.0	40.5		ug/Kg		81	64 - 127
Dibromochloromethane	50.0	45.6		ug/Kg		91	68 - 125
Dibromomethane	50.0	44.0		ug/Kg		88	70 - 120
Dichlorodifluoromethane	50.0	38.8		ug/Kg		78	40 - 159
Ethylbenzene	50.0	44.6		ug/Kg		89	70 - 123
Hexachlorobutadiene	50.0	60.4		ug/Kg		121	51 - 150
Isopropylbenzene	50.0	46.3		ug/Kg		93	70 - 126
Methyl tert-butyl ether	50.0	65.7	*	ug/Kg		131	55 - 123
Methylene Chloride	50.0	42.7		ug/Kg		85	69 - 125
Naphthalene	50.0	48.1		ug/Kg		96	53 - 144
n-Butylbenzene	50.0	44.9		ug/Kg		90	68 - 125
N-Propylbenzene	50.0	44.1		ug/Kg		88	69 - 127
p-Isopropyltoluene	50.0	49.4		ug/Kg		99	70 - 125
sec-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 123
Styrene	50.0	47.6		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 121
Tetrachloroethene	50.0	52.3		ug/Kg		105	70 - 128
Toluene	50.0	39.0		ug/Kg		78	70 - 125
trans-1,2-Dichloroethene	50.0	45.4		ug/Kg		91	70 - 125
trans-1,3-Dichloropropene	50.0	40.1		ug/Kg		80	62 - 128
Trichloroethene	50.0	51.5		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	50.5		ug/Kg		101	55 - 128
Vinyl chloride	50.0	38.8		ug/Kg		78	64 - 126
Xylenes, Total	100	88.6		ug/Kg		89	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane	109		75 - 120
Toluene-d8 (Surr)	90		75 - 120

Lab Sample ID: MB 500-492694/6
Matrix: Water
Analysis Batch: 492694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			06/29/19 12:08	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-492694/6
Matrix: Water
Analysis Batch: 492694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/29/19 12:08	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/29/19 12:08	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/29/19 12:08	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			06/29/19 12:08	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			06/29/19 12:08	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			06/29/19 12:08	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			06/29/19 12:08	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			06/29/19 12:08	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			06/29/19 12:08	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			06/29/19 12:08	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			06/29/19 12:08	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			06/29/19 12:08	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			06/29/19 12:08	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			06/29/19 12:08	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			06/29/19 12:08	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			06/29/19 12:08	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			06/29/19 12:08	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			06/29/19 12:08	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			06/29/19 12:08	1
Benzene	<0.15		0.50	0.15	ug/L			06/29/19 12:08	1
Bromobenzene	<0.36		1.0	0.36	ug/L			06/29/19 12:08	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			06/29/19 12:08	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			06/29/19 12:08	1
Bromoform	<0.48		1.0	0.48	ug/L			06/29/19 12:08	1
Bromomethane	<0.80		3.0	0.80	ug/L			06/29/19 12:08	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/29/19 12:08	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
Chloroethane	<0.51		1.0	0.51	ug/L			06/29/19 12:08	1
Chloroform	<0.37		2.0	0.37	ug/L			06/29/19 12:08	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/29/19 12:08	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			06/29/19 12:08	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			06/29/19 12:08	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			06/29/19 12:08	1
Dibromomethane	<0.27		1.0	0.27	ug/L			06/29/19 12:08	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			06/29/19 12:08	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/29/19 12:08	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			06/29/19 12:08	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			06/29/19 12:08	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			06/29/19 12:08	1
Naphthalene	<0.34		1.0	0.34	ug/L			06/29/19 12:08	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			06/29/19 12:08	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			06/29/19 12:08	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			06/29/19 12:08	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 12:08	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-492694/6
Matrix: Water
Analysis Batch: 492694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Styrene	0.679	J	1.0	0.39	ug/L			06/29/19 12:08	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			06/29/19 12:08	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/29/19 12:08	1
Toluene	<0.15		0.50	0.15	ug/L			06/29/19 12:08	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			06/29/19 12:08	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			06/29/19 12:08	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/29/19 12:08	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			06/29/19 12:08	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/29/19 12:08	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			06/29/19 12:08	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		75 - 126		06/29/19 12:08	1
4-Bromofluorobenzene (Surr)	107		72 - 124		06/29/19 12:08	1
Dibromofluoromethane	104		75 - 120		06/29/19 12:08	1
Toluene-d8 (Surr)	89		75 - 120		06/29/19 12:08	1

Lab Sample ID: LCS 500-492694/4
Matrix: Water
Analysis Batch: 492694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 125
1,1,2,2-Tetrachloroethane	50.0	35.3		ug/L		71	62 - 140
1,1,2-Trichloroethane	50.0	39.4		ug/L		79	71 - 130
1,1-Dichloroethane	50.0	44.8		ug/L		90	70 - 125
1,1-Dichloroethene	50.0	44.6		ug/L		89	67 - 122
1,1-Dichloropropene	50.0	48.8		ug/L		98	70 - 121
1,2,3-Trichlorobenzene	50.0	51.4		ug/L		103	51 - 145
1,2,3-Trichloropropane	50.0	42.0		ug/L		84	50 - 133
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	57 - 137
1,2,4-Trimethylbenzene	50.0	47.7		ug/L		95	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.6		ug/L		75	56 - 123
1,2-Dibromoethane	50.0	43.2		ug/L		86	70 - 125
1,2-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 125
1,2-Dichloroethane	50.0	47.3		ug/L		95	68 - 127
1,2-Dichloropropane	50.0	43.9		ug/L		88	67 - 130
1,3,5-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 123
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 125
1,3-Dichloropropane	50.0	40.9		ug/L		82	62 - 136
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 120
2,2-Dichloropropane	50.0	45.5		ug/L		91	58 - 139
2-Chlorotoluene	50.0	44.4		ug/L		89	70 - 125
4-Chlorotoluene	50.0	43.4		ug/L		87	68 - 124
Benzene	50.0	44.6		ug/L		89	70 - 120
Bromobenzene	50.0	48.9		ug/L		98	70 - 122
Bromochloromethane	50.0	50.5		ug/L		101	65 - 122

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-492694/4
Matrix: Water
Analysis Batch: 492694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	47.2		ug/L		94	69 - 120
Bromoform	50.0	45.1		ug/L		90	56 - 132
Bromomethane	50.0	32.7		ug/L		65	40 - 152
Carbon tetrachloride	50.0	53.6		ug/L		107	59 - 133
Chlorobenzene	50.0	45.7		ug/L		91	70 - 120
Chloroethane	50.0	38.6		ug/L		77	48 - 136
Chloroform	50.0	46.9		ug/L		94	70 - 120
Chloromethane	50.0	35.3		ug/L		71	56 - 152
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	40.5		ug/L		81	64 - 127
Dibromochloromethane	50.0	45.6		ug/L		91	68 - 125
Dibromomethane	50.0	44.0		ug/L		88	70 - 120
Dichlorodifluoromethane	50.0	38.8		ug/L		78	40 - 159
Ethylbenzene	50.0	44.6		ug/L		89	70 - 123
Hexachlorobutadiene	50.0	60.4		ug/L		121	51 - 150
Isopropylbenzene	50.0	46.3		ug/L		93	70 - 126
Methyl tert-butyl ether	50.0	65.7	*	ug/L		131	55 - 123
Methylene Chloride	50.0	42.7		ug/L		85	69 - 125
Naphthalene	50.0	48.1		ug/L		96	53 - 144
n-Butylbenzene	50.0	44.9		ug/L		90	68 - 125
N-Propylbenzene	50.0	44.1		ug/L		88	69 - 127
p-Isopropyltoluene	50.0	49.4		ug/L		99	70 - 125
sec-Butylbenzene	50.0	46.7		ug/L		93	70 - 123
Styrene	50.0	47.6		ug/L		95	70 - 120
tert-Butylbenzene	50.0	49.9		ug/L		100	70 - 121
Tetrachloroethene	50.0	52.3		ug/L		105	70 - 128
Toluene	50.0	39.0		ug/L		78	70 - 125
trans-1,2-Dichloroethene	50.0	45.4		ug/L		91	70 - 125
trans-1,3-Dichloropropene	50.0	40.1		ug/L		80	62 - 128
Trichloroethene	50.0	51.5		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	50.5		ug/L		101	55 - 128
Vinyl chloride	50.0	38.8		ug/L		78	64 - 126
Xylenes, Total	100	88.6		ug/L		89	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
4-Bromofluorobenzene (Surr)	105		72 - 124
Dibromofluoromethane	109		75 - 120
Toluene-d8 (Surr)	90		75 - 120

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-491831/1-A
Matrix: Solid
Analysis Batch: 492159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 491831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		06/25/19 07:43	06/26/19 09:36	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-491831/2-A
Matrix: Solid
Analysis Batch: 492159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 491831
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	10.0	9.57		mg/Kg		96	80 - 120

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Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: S102
Date Collected: 06/18/19 09:32
Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	492121	06/26/19 10:24	LWN	TAL CHI

Client Sample ID: S102
Date Collected: 06/18/19 09:32
Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-1
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			491402	06/18/19 09:32	WRE	TAL CHI
Total/NA	Analysis	8260B		50	492693	06/29/19 13:02	JMP	TAL CHI

Client Sample ID: S202
Date Collected: 06/18/19 10:10
Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	492121	06/26/19 10:24	LWN	TAL CHI

Client Sample ID: S202
Date Collected: 06/18/19 10:10
Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-2
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			491402	06/18/19 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	492693	06/29/19 13:30	JMP	TAL CHI
Total/NA	Prep	3050B			491831	06/25/19 07:43	SAH	TAL CHI
Total/NA	Analysis	6010C		1	492159	06/26/19 09:44	JEF	TAL CHI

Client Sample ID: S302
Date Collected: 06/18/19 10:50
Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	492121	06/26/19 10:24	LWN	TAL CHI

Client Sample ID: S302
Date Collected: 06/18/19 10:50
Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-3
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			491402	06/18/19 10:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	492693	06/29/19 13:57	JMP	TAL CHI
Total/NA	Prep	3050B			491831	06/25/19 07:43	SAH	TAL CHI
Total/NA	Analysis	6010C		1	492159	06/26/19 09:48	JEF	TAL CHI

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Client Sample ID: TW100

Date Collected: 06/18/19 12:41

Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	492694	06/29/19 14:24	JDD	TAL CHI

Client Sample ID: TW200

Date Collected: 06/18/19 12:16

Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	492694	06/29/19 14:51	JDD	TAL CHI

Client Sample ID: TW300

Date Collected: 06/18/19 11:37

Date Received: 06/20/19 09:40

Lab Sample ID: 500-165419-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	492694	06/29/19 15:19	JDD	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Tynan Property - 193706841

Job ID: 500-165419-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 500-165419-1

Login Number: 165419

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Fioravanti, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

From: Krueger, Sarah E - DNR
Sent: Wednesday, July 3, 2019 4:39 PM
To: Tobias, Sam
Cc: Chronert, Roxanne N - DNR
Subject: RE: Notification of Groundwater and Soil Sampling Results for the Tynan Property (BRRTS #: 02-20-554881)

Sam –

I just had a quick conversation with the closure committee before we closed up for the weekend and we are not going to do a second round of groundwater sampling since the previous sampling was not confirmed. The consultant will schedule a time to abandon the wells and I will let you know when that work will occur.

Let me know if you have any questions.
Thank you,
Sarah

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Sarah Krueger, P.G.

Phone: 920-662-5443

Sarah.Krueger@wisconsin.gov

From: Krueger, Sarah E - DNR
Sent: Wednesday, July 3, 2019 4:15 PM
To: Tobias, Sam <sam.tobias@fdlco.wi.gov>
Cc: Chronert, Roxanne N - DNR <Roxanne.Chronert@wisconsin.gov>
Subject: Notification of Groundwater and Soil Sampling Results for the Tynan Property (BRRTS #: 02-20-554881)

Good Afternoon Sam,

I received the groundwater and soil sampling results for the Tynan Property (BRRTS #: 02-20-554881) from the consultant this afternoon and wanted to forward you the information. Attached is a figure with the sampling locations and the lab report.

The soil data reported as part of the additional sampling conducted June 18, 2019 are less than the NR 720 residual contaminant levels (RCL).

More specifically, the B-5 location from the original round of sampling had an Industrial Direct Contact NR 720 RCL exceedance of Lead. The Lead sample from B200, which was located within five feet of B-5, was below the groundwater pathway NR720 RCL. Additionally the volatile organic compound (VOCs) sampling in the three soil borings B100, B200, and B300 had one detect in all three borings, Styrene, all three detections were below the NR720 RCLs.

The groundwater data reported as part of the additional sampling conducted June 18, 2018 are less than the NR 140 enforcement standard (ES) and preventative action limit (PAL).

More specifically TW200 had no detections of VOCs in groundwater. TW100 had a detect of Toluene below the PAL, and TW300 had a detect of Benzene, Toluene, and Total Xylenes all of which were below the PAL.

The consultant will conduct one final round of groundwater sampling from the three wells in September, and I will report those results to you as well.

Please contact me with any questions you have.

Thank you,
Sarah

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Sarah Krueger, P.G.

Contaminated Sediment Specialist – Remediation & Redevelopment Program

Wisconsin Department of Natural Resources

2984 Shawano Avenue

Green Bay, WI 54313

Phone: 920-662-5443

Sarah.Krueger@wisconsin.gov

