APPENDIX K

SOIL VAPOR

LABORATORY ANALYTICAL REPORTS

AND

LEVEL 1 DATA VALIDATION CHECKLISTS

Geosyntec consultants

Data Validation Checklist
Level 1

Reviewed by: Laura Morales
Project/Task No: BR0090/16*6
Review Date: 28-Dec-09

ATTACHED TO THIS FORM:	YES	NO
1) DATA REPORT COVER SHEETS	X	
2) LABORATORY NARRATIVE:	X	

Site: NMI
Laboratory Report # 0911556A
Sample Date: 22-Nov-09
Report Date: 11 December 1009

Answer all questions "Yes" or "No". Any answer in a box requires commen

Review Item	YES	NO	COMMENTS
Chain-of-custody correctly completed:	X		
Transcription errors in chain-of-custody, field forms, or lab reports.		X	2250 OA-1 was outdoor air (background) sample. On this COC, but data included in lab report: 0911556B.
All data requested received:	X		
All analyses within holding times:	X		
Compounds detected below reporting limit:		X	
Surrogates within control for each sample:	X		
Reporting Limits Elevated by greater than 10X:		X	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) within recovery control limits	n/a		
Relative percent difference (RPD) within control limits based on MS/MSD results:	n/a		
Laboratory Control Sample (LCS) within control limits:	X		
Continuing Calibration Verification (CCV) within control limits:	X		
Constituents detected above reporting limits in field equipment, travel or method blank samples:		n/a	Final field pressures are consistent with lab receipt pressures.
Any laboratory qualifiers applied to data:		X	
Laboratory corrective actions implemented:		n/a	
Are data acceptable quality:	X		
EDD received:	X		
EDD checked against hard copy:	X		
EDD ready for upload:		X	Sample 2250SS-1 should be J-flagged in the database because the helium concentration was >5% of shroud concentration in pre-sample screening bag.
Further Validation required:	X		

Comments: Final field pressures are consistent with lab receipt pressure (0.06" Hg - 0.15" Hg difference in measurements)
For sample 2250SS-1, the helium conc. in final screening bag (1.15%) was 5.7%of average shroud conc. (22%)
See attached correction factor calculation and data correction.
For sample 2250SS-2, the helium conc. in final screening bag (0.65%) was 3% of average shroud conc. (22%)

Air Toxics LTD.
Laboratory Services Since 1989

12/11/2009
Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.

Acton MA 01720-4766

Project Name: NMI
Project #: BR0090
Workorder #: 0911556A

Dear Mr. Dave Adilman

The following report includes the data for the above referenced project for sample(s) received on 11/24/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0911556A

Work Order Summary

CLIENT:	Mr. Dave Adilman GeoSyntec Consultants 289 Great Rd. Acton, MA 01720-4766	**BILL TO:**	Accounts Payable GeoSyntec Consultants 5901 Broken Sound Parkway Suite 300 Boca Raton, FL 33487
PHONE:	978-263-9588	**P.O. #**	
FAX:		**PROJECT #**	BR0090 NMI
DATE RECEIVED:	11/24/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/11/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	2250SS-1	Modified TO-15	4.5 "Hg	15 psi
02A	2250SS-2	Modified TO-15	3.5 "Hg	15 psi
03A	2250HPV-2	Modified TO-15	5.5 "Hg	5 psi
03AA	2250HPV-2 Lab Duplicate	Modified TO-15	5.5 "Hg	5 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
04C	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
05C	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06C	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 12/11/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0911556A

Two 1 Liter Summa Canister and one 6 Liter Summa Canister samples were received on November 24, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2250SS-1

Lab ID#: 0911556A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.2	5.4	6.4	29

Client Sample ID: 2250SS-2

Lab ID#: 0911556A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	3.6	6.2	19

Client Sample ID: 2250HPV-2

Lab ID#: 0911556A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.82	1.9	4.4	10

Client Sample ID: 2250HPV-2 Lab Duplicate

Lab ID#: 0911556A-03AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.82	2.0	4.4	11

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250SS-1

Lab ID#: 0911556A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120511**	**Date of Collection:**	**11/22/09 12:40:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**12/5/09 02:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Trichloroethene	1.2	5.4	6.4	29
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
4-Bromofluorobenzene	118	70-130
1,2-Dichloroethane-d4	128	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250SS-2

Lab ID#: 0911556A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120611**	**Date of Collection: 11/22/09 1:51:00 PM**	
Dil. Factor:	**2.29**	**Date of Analysis: 12/6/09 02:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Trichloroethene	1.1	3.6	6.2	19
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
4-Bromofluorobenzene	114	70-130
1,2-Dichloroethane-d4	127	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250HPV-2

Lab ID#: 0911556A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120713**	**Date of Collection: 11/22/09 3:55:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 12/7/09 07:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Trichloroethene	0.82	1.9	4.4	10
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130
1,2-Dichloroethane-d4	111	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250HPV-2 Lab Duplicate

Lab ID#: 0911556A-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120714**	**Date of Collection: 11/22/09 3:55:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 12/7/09 07:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Trichloroethene	0.82	2.0	4.4	11
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130
1,2-Dichloroethane-d4	111	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0911556A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/5/09 10:11 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
4-Bromofluorobenzene	112	70-130
1,2-Dichloroethane-d4	113	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0911556A-04B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120610**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/6/09 01:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
4-Bromofluorobenzene	114	70-130
1,2-Dichloroethane-d4	116	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0911556A-04C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/09 01:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130
1,2-Dichloroethane-d4	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911556A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/5/09 07:59 AM**	

Compound	%Recovery
Vinyl Chloride	86
Trichloroethene	99
Tetrachloroethene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	111	70-130
1,2-Dichloroethane-d4	115	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911556A-05B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120607**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/6/09 11:33 AM**	

Compound	%Recovery
Vinyl Chloride	84
Trichloroethene	98
Tetrachloroethene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	113	70-130
1,2-Dichloroethane-d4	123	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911556A-05C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/09 11:54 AM**	

Compound	%Recovery
Vinyl Chloride	100
Trichloroethene	98
Tetrachloroethene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130
1,2-Dichloroethane-d4	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911556A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/5/09 08:32 AM**	

Compound	%Recovery
Vinyl Chloride	80
Trichloroethene	90
Tetrachloroethene	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	113	70-130
1,2-Dichloroethane-d4	115	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911556A-06B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120608**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/6/09 12:19 PM**	

Compound	%Recovery
Vinyl Chloride	76
Trichloroethene	87
Tetrachloroethene	89

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	118	70-130
1,2-Dichloroethane-d4	118	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911556A-06C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y120703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/7/09 12:42 PM**	

Compound	%Recovery
Vinyl Chloride	98
Trichloroethene	92
Tetrachloroethene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130
1,2-Dichloroethane-d4	98	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager David Adelman

Collected by: (Print and Sign) T. Creamer/L. Morales

Company Geosyntec Consultants Email dadelman@geosyntec.com

Address 289 Great Rd City Acton State MA Zip 01720

Phone 978-263-9588 Fax 978-263-9594

Project Info:
P.O. #
Project # BRD090
Project Name NMI

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psig)
01A	~~225055-1~~ 225055-1	1040	11/22/09	1254	TO-15	-30.15	-4.56		
02A	225055-2	34105	11/22/09	13:51	TO-15	-30.16	-3.35		
	Empty	3733	—	—	Not Used	-29.95	—		
03A	225DHPV-2	35979	11/22/09	1555	TO-15	-30.19	-5.64		
	225001A-1	14011	11/22/09	1625	TO-15LL	-30.09	-3.90		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Tasha Wood	11/23/09 1700	FedEx Tracking # 793043055703	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Erbeznik ATL	11/24/09 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: For all TO-15 Analyses: PCE, TCE, VC

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No (None)	0911556

Form 1293 rev.11

Geosyntec consultants

Data Validation Checklist
Level 1

Reviewed by: Laura Morales
Project/Task No: BR0090/16*6
Review Date: 28-Dec-09

ATTACHED TO THIS FORM:	YES	NO
1) DATA REPORT COVER SHEETS	X	
2) LABORATORY NARRATIVE:	X	

Site: NMI
Laboratory Report # 0911556B
Sample Date: 22-Nov-09
Report Date: 9 December 1009

Answer all questions "Yes" or "No". Any answer in a box requires commen

Review Item	YES	NO	COMMENTS
Chain-of-custody correctly completed:	X		
Transcription errors in chain-of-custody, field forms, or lab reports.		X	2250 OA-1 was outdoor air (background) sample. Reported in a separate lab report from the rest of the samples on the COC.
All data requested received:	X		
All analyses within holding times:	X		
Compounds detected below reporting limit:		X	
Surrogates within control for each sample:	X		
Reporting Limits Elevated by greater than 10X:		X	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) within recovery control limits	n/a		
Relative percent difference (RPD) within control limits based on MS/MSD results:	n/a		
Laboratory Control Sample (LCS) within control limits:	X		
Continuing Calibration Verification (CCV) within control limits:	X		
Constituents detected above reporting limits in field equipment, travel or method blank samples:		n/a	
Any laboratory qualifiers applied to data:		X	
Laboratory corrective actions implemented:		X	
Are data acceptable quality:	X		
EDD received:	X		
EDD checked against hard copy:	X		
EDD ready for upload:	X		
Further Validation required:		X	

Comments: Final field pressure is consistent with lab receipt pressure (0.5" Hg difference in measurements)

Air Toxics LTD.
Laboratory Services Since 1989

12/9/2009
Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.

Acton MA 01720-4766

Project Name: NMI
Project #: BR0090
Workorder #: 0911556B

Dear Mr. Dave Adilman

The following report includes the data for the above referenced project for sample(s) received on 11/24/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0911556B

Work Order Summary

CLIENT:	Mr. Dave Adilman GeoSyntec Consultants 289 Great Rd. Acton, MA 01720-4766	**BILL TO:**	Accounts Payable GeoSyntec Consultants 5901 Broken Sound Parkway Suite 300 Boca Raton, FL 33487
PHONE:	978-263-9588	**P.O. #**	
FAX:		**PROJECT #**	BR0090 NMI
DATE RECEIVED:	11/24/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/09/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
04A	2250OA-1	Modified TO-15	3.4 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 12/09/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0911556B

One 6 Liter Summa Canister (100% Certified) sample was received on November 24, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2250OA-1

Lab ID#: 0911556B-04A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250OA-1

Lab ID#: 0911556B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z120414**	**Date of Collection:**	**11/22/09 4:25:00 PM**
Dil. Factor:	**1.51**	**Date of Analysis:**	**12/4/09 07:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.15	Not Detected	0.81	Not Detected
Tetrachloroethene	0.15	Not Detected	1.0	Not Detected
Vinyl Chloride	0.15	Not Detected	0.38	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0911556B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z120413**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/4/09 06:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911556B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z120407**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/4/09 12:50 PM**	

Compound	%Recovery
Trichloroethene	107
Tetrachloroethene	100
Vinyl Chloride	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911556B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z120403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/4/09 10:21 AM**	

Compound	%Recovery
Trichloroethene	108
Tetrachloroethene	109
Vinyl Chloride	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Bryanna Langley at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0911556A

Client

Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.
Acton, MA 01720-4766

Phone

978-263-9588

Fax

Date Promised: 12/10/09
Date Completed:
Date Received: 11/24/09
PO#:
Project#: BR0090 NMI

Sales Rep: TL

Total $: $ 819.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
01A	2250SS-1	Modified TO-15	11/22/2009	$160.00
02A	2250SS-2	Modified TO-15	11/22/2009	$160.00
03A	2250HPV-2	Modified TO-15	11/22/2009	$160.00

Misc. Charges	1 Liter Summa Canister (3) @ $25.00 each., Shipment 69037	$75.00
	6 Liter Summa Canister (1) @ $45.00 each., Shipment 69037	$45.00
	6 Liter Summa Canister (100% Certified) (1) @ $80.00 each., Shipment 69	$80.00
	Blue Body Flow Controller (4) @ $25.00 each., Shipment 69037	$100.00
	Blue Body Flow Controller (100% Certified) (1) @ $25.00 each., Shipmen	$25.00
	Fitting w/ Pink Ferrule (7) @ $2.00 each.	$14.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Nuclear Metal/13657

BILL TO: Accounts Payable
GeoSyntec Consultants
5901 Broken Sound Parkway
Suite 300
Boca Raton, FL 33487

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 (Sh)-1,4-Dioxane, TCE, PCE & VC

SAMPLE RECEIPT SUMMARY

WORKORDER 0911556B

Client

Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.
Acton, MA 01720-4766

Phone

978-263-9588

Fax

Sales Rep: TL

Date Promised: 12/10/09
Date Completed:
Date Received: 11/24/09
PO#:
Project#: BR0090 NMI

Total $: $ 185.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
04A	2250OA-1	Modified TO-15	11/22/2009	$185.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Nuclear Metal/13657

BILL TO: Accounts Payable
GeoSyntec Consultants
5901 Broken Sound Parkway
Suite 300
Boca Raton, FL 33487

Analysis Code: pptv

TERMS: NET 90

Reporting Method: Modified TO-15-LL (Sh)-1,4-Dioxane, TCE, PCE & VC

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that samples being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: David Adelman
Collected by: (Print and Sign) T. Cremin/K. Morales
Company: Ecosystems Consultants Email: dadelman@
Address: 289 Great Rd City: Acton State: MA Zip: 01720
Phone: 978-263-9585 Fax: 978-263-9594

Project Info:
P.O. #:
Project #: BR0090
Project Name: NMI

Turn Around Time:
☒ Normal
☐ Rush
(specify)

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	~~225055-1~~ ~~2250-1 6m~~	1040	11/22/09	12:40	TO-15	-30.15	-4.56		
	225055-2	34105	11/22/09	13:51	TO-15	-30.16	-3.35		
	Empty	3733	—	—	Not Used	-29.95	—		
	225DHPV-2	~~3579~~	~~11/22/09~~	~~1525~~	TO-15	-30.14	-5.61		
OHA	225000A-1	14011	11/22/09	1625	TO-15LL	-30.09	-3.90		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	11/23/09 1700	FedEx ID 793043855703	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Nguyen ATL	11/24/09 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: For all TO-15 Analyses: PCE, TCE, VC

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No (None)	0911556

Form 1284 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

Method : Modified TO-15 (Sh)-1,4-Dioxane, TCE, PCE & VC

CAS Number	Compound	Rpt. Limit (ppbv)

CAS Number	Compound	
75-01-4	Vinyl Chloride	0.50
79-01-6	Trichloroethene	0.50
123-91-1	1,4-Dioxane	2.0
127-18-4	Tetrachloroethene	0.50

CAS Number	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Method : Modified TO-15-LL (Sh)-1,4-Dioxane, TCE, PCE & VC

CAS Number	Compound	Rpt. Limit (ppbv)

CAS Number	Compound	
75-01-4	Vinyl Chloride	0.10
79-01-6	Trichloroethene	0.10
123-91-1	1,4-Dioxane	0.10
127-18-4	Tetrachloroethene	0.10

CAS Number	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Unreturned Media/Equipment

The following media/equipment are outstanding:

Shipped on: Nov 17 2009 2:55PM

Equipment Type	Physical ID	Outstanding Qty	Amount
1 Liter Summa Canister	12036	1	$750.00
1 Liter Summa Canister	34109	1	$750.00
1 Liter Summa Canister	34606	1	$750.00
1 Liter Summa Canister	34615	1	$750.00
6 Liter Summa Canister	94600	1	$750.00
Blue Body Flow Controller	FC00146	1	$250.00
Blue Body Flow Controller	FC00397	1	$250.00
Blue Body Flow Controller	FC00752	1	$250.00
Blue Body Flow Controller	FC00905	1	$250.00
Blue Body Flow Controller	fc6573	1	$250.00
Duplicate Sampling T		1	$5.00
Gauge-Vacuum		1	$50.00

Shipped on: Nov 18 2009 1:35PM

Equipment Type	Physical ID	Outstanding Qty	Amount
Gauge-Vacuum		1	$50.00

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:60 A.M to 5:30 P.M. PST
E-mail to:samplereceiving@airtoxics.com

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager David Adelman

Collected by: (Print and Sign) T. Creamer/L. Morales

Company Geosyntec Consultants Email dadelman@geosyntec.com

Address 289 Great Rd City Acton State MA Zip 01720

Phone 978-263-9588 Fax 978-263-9594

Project Info:
P.O.#
Project # BR0090
Project Name NM1

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	~~2250-1 4m~~ 225055-1	1040	11/22/09	12:40	TO-15	-30.15	-4.56		
	225055-2	34105	11/22/09	13:51	TO-15	-30.16	-3.35		
	Empty	3733	—	—	Not Used	-29.95	—		
	2250HPV-2	35979	11/22/09	1555	TO-15	-30.14	-5.61		
04A	2250OA-1	14011	11/22/09	1625	TO-15LL	-30.09	-3.90		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	11/23/09 1700	FedEx Tracking # 793043D5703	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Green ATL	11/24/09 900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: For all TO-15 Analyses: PCE, TCE, VC

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No (None)	0911556

Form 1293 rev.11

Geosyntec consultants

Data Validation Checklist
Level 1

Reviewed by: Laura Morales
Project/Task No: BR0090/16*6
Review Date: 28-Dec-09

	YES	NO
ATTACHED TO THIS FORM: 1) DATA REPORT COVER SHEETS	X	
2) LABORATORY NARRATIVE:	X	

Site: NMI
Laboratory Report # 912185
Sample Date: 6-Dec-09
Report Date: 16 December 1009

Answer all questions "Yes" or "No". Any answer in a box requires commen

Review Item	YES	NO	COMMENTS
Chain-of-custody correctly completed:	X		
Transcription errors in chain-of-custody, field forms, or lab reports.		X	
All data requested received:	X		
All analyses within holding times:	X		
Compounds detected below reporting limit:		X	
Surrogates within control for each sample:	X		
Reporting Limits Elevated by greater than 10X:		X	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) within recovery control limits	n/a		
Relative percent difference (RPD) within control limits based on MS/MSD results:	n/a		
Laboratory Control Sample (LCS) within control limits:	X		
Continuing Calibration Verification (CCV) within control limits:	X		
Constituents detected above reporting limits in field equipment, travel or method blank samples:		n/a	
Any laboratory qualifiers applied to data:		X	
Laboratory corrective actions implemented:		X	
Are data acceptable quality:	X		
EDD received:	X		
EDD checked against hard copy:	X		
EDD ready for upload:	X		
Further Validation required:		X	

Comments: Final field pressures are consistent with lab receipt pressure (0.53" Hg - 1.5" Hg difference in measurements)

For sample 2254SS-1, the helium conc. in final screening bag (0.25%) was 1.3% of average shroud conc. (18%)
For sample 2254SS-2, the helium conc. in final screening bag (0.44%) was 2.2% of average shroud conc. (20%)

Air Toxics LTD.
Laboratory Services Since 1989

12/16/2009
Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.

Acton MA 01720-4766

Project Name: NMI
Project #: BR0090
Workorder #: 0912185

Dear Mr. Dave Adilman

The following report includes the data for the above referenced project for sample(s) received on 12/8/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0912185

Work Order Summary

CLIENT:	Mr. Dave Adilman GeoSyntec Consultants 289 Great Rd. Acton, MA 01720-4766	**BILL TO:**	Accounts Payable GeoSyntec Consultants 5901 Broken Sound Parkway Suite 300 Boca Raton, FL 33487
PHONE:	978-263-9588	**P.O. #**	
FAX:		**PROJECT #**	BR0090 NMI
DATE RECEIVED:	12/08/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/16/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	2254SS-2	Modified TO-15	4.0 "Hg	15 psi
02A	BD-1-12062009	Modified TO-15	4.0 "Hg	15 psi
03A	2254SS-1	Modified TO-15	0.5 "Hg	15 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 12/16/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0912185

Three 1 Liter Summa Canister samples were received on December 08, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2254SS-2

Lab ID#: 0912185-01A

No Detections Were Found.

Client Sample ID: BD-1-12062009

Lab ID#: 0912185-02A

No Detections Were Found.

Client Sample ID: 2254SS-1

Lab ID#: 0912185-03A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2254SS-2

Lab ID#: 0912185-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y121217**	**Date of Collection: 12/6/09 5:01:00 PM**	
Dil. Factor:	**2.33**	**Date of Analysis: 12/12/09 08:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
4-Bromofluorobenzene	104	70-130
1,2-Dichloroethane-d4	112	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: BD-1-12062009

Lab ID#: 0912185-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y121218**	**Date of Collection: 12/6/09**	
Dil. Factor:	**2.33**	**Date of Analysis: 12/12/09 09:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
4-Bromofluorobenzene	109	70-130
1,2-Dichloroethane-d4	109	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2254SS-1

Lab ID#: 0912185-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y121219**	**Date of Collection: 12/6/09 6:16:00 PM**	
Dil. Factor:	**2.05**	**Date of Analysis: 12/12/09 10:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
4-Bromofluorobenzene	110	70-130
1,2-Dichloroethane-d4	112	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0912185-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y121212**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/12/09 04:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130
1,2-Dichloroethane-d4	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0912185-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y121209**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/12/09 02:15 PM**	

Compound	%Recovery
Vinyl Chloride	114
Trichloroethene	101
Tetrachloroethene	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130
1,2-Dichloroethane-d4	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0912185-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y121210**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/12/09 03:09 PM**	

Compound	%Recovery
Vinyl Chloride	113
Trichloroethene	101
Tetrachloroethene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130
1,2-Dichloroethane-d4	107	70-130

Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **Bryanna Langley at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0912185

Client

Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.
Acton, MA 01720-4766

Phone

978-263-9588

Fax

Date Promised: 12/22/09
Date Completed:
Date Received: 12/8/09
PO#:
Project#: BR0090 NMI

Sales Rep: TL

Total $: $ 758.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
01A	2254SS-2	Modified TO-15	12/6/2009	$160.00
02A	BD-1-12062009	Modified TO-15	12/6/2009	$160.00
03A	2254SS-1	Modified TO-15	12/6/2009	$160.00

Misc. Charges	1 Liter Summa Canister (4) @ $25.00 each., Shipment 69037	$100.00
	6 Liter Summa Canister (1) @ $45.00 each., Shipment 69037	$45.00
	Blue Body Flow Controller (5) @ $25.00 each., Shipment 69037	$125.00
	Duplicate Sampling T (1) @ $8.00 each.	$8.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Nuclear Metal/13657

BILL TO: Accounts Payable
GeoSyntec Consultants
5901 Broken Sound Parkway
Suite 300
Boca Raton, FL 33487

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 (Sh)-PCE, TCE & VC

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager David Adelman

Collected by: (Print and Sign) T. Creamer / I. Morales

Company Cascade Consultants Email dadelman@cascadeinc.com tcreamer@cascadeinc.com imorales@cascadeinc.com

Address 289 Great Rd Ste 105 City Acton State MA Zip 01720

Phone 978-263-9588 Fax 978-263-9594

Project Info:
P.O. #
Project # BR0070
Project Name NWI

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	225455-2	2387	12.6.09	17:01	TO-15	-29.61	-4.59		
02A	BD-1-12062009	396606	12.6.09	—	TO-15	-29.57	-4.53		
03A	225455-1	34109	12.6.09	18:16	TO-15	-29.57	-1.55		
	Empty	12036	—	—	—				
	Empty	94600	—	—	—				

Relinquished by: (signature) Date/Time: 12/7/09 1700
Received by: (signature) Date/Time: Fedex Tracking # 798199201095

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time: Monica Gregson ATL 12/8/09 925

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No (None)	091185

Form 1999 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

Method : Modified TO-15 (Sh)-PCE, TCE & VC

CAS Number	Compound	Rpt. Limit (ppbv)

CAS Number	Compound	
75-01-4	Vinyl Chloride	0.50
79-01-6	Trichloroethene	0.50
127-18-4	Tetrachloroethene	0.50

CAS Number	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Unreturned Media/Equipment

The following media/equipment are outstanding:

Shipped on: Nov 18 2009 1:35PM

Equipment Type	Physical ID	Outstanding Qty	Amount
Gauge-Vacuum		1	$50.00

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:60 A.M to 5:30 P.M. PST
E-mail to:samplereceiving@airtoxics.com

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager David Adelman

Collected by: (Print and Sign) T. Creamer / I. Morales

Company Cascade Consultants Email dadelman@cascadeinc.com tcreamer@cascadeinc.com imorales@cascadeinc.com

Address 289 Great Rd Ste 105 City Acton State MA Zip 01720

Phone 978-263-9588 Fax 978-263-9594

Project Info:
P.O. #
Project # BR0070
Project Name NWI

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	225455-2	2387	12.6.09	17:01	TO-15	-29.61	-4.59		
02A	BD-1-12062009	396606	12.6.09	—	TO-15	-29.57	-4.53		
03A	225455-1	34109	12.6.09	18:16	TO-15	-29.57	-1.55		
	Empty	12036	—	—	—				
	Empty	94600	—	—	—				

Relinquished by: (signature) Date/Time: 12/7/09 1700
Received by: (signature) Date/Time: Fedex Tracking # 798199201095

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time: Monica Gregson ATL 12/8/09 925

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No (None)	091185

Form 1999 rev.11

Geosyntec consultants

Data Validation Checklist
Level 1

Reviewed by: Laura Morales
Project/Task No: B0090116Kb

Review Date: 7/19/2010

ATTACHED TO THIS FORM:

	YES	NO
1) DATA REPORT COVER SHEETS	X	
2) LABORATORY NARRATIVE:	X	

Site: NMI - Hurley VI
Laboratory Report # 1006319A

Sample Date: 6/6/2010
Report Date: 6/25/2010

Answer all questions "Yes" or "No". Any answer in a box requires comment

Review Item	YES	NO	COMMENTS
Chain-of-custody correctly completed:	X		
Transcription errors in chain-of-custody, field forms, or lab reports.	X		COC ID did not Match Tag (Sampled) for 225455-2. COC ID was used for Report.
All data requested received:	X		
All analyses within holding times:	X		
Compounds detected below reporting limit:		X	
Surrogates within control for each sample:	X		
Reporting Limits Elevated by greater than 10X:		X	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) within recovery control limits	-	-	NA
Relative percent difference (RPD) within control limits based on MS/MSD results:	-	-	NA
Laboratory Control Sample (LCS) within control limits:	X		
Continuing Calibration Verification (CCV) within control limits:	X		
Constituents detected above reporting limits in field equipment, travel or method blank samples:		X	
Any laboratory qualifiers applied to data:		X	
Laboratory corrective actions implemented:	-	-	NA
Are data acceptable quality:	X		
EDD received:	X		
EDD checked against hard copy:	X		
EDD ready for upload:	X		
Further Validation required:		X	

Comments:

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1006319A

Work Order Summary

CLIENT:	Mr. Dave Adilman GeoSyntec Consultants 289 Great Rd. Acton, MA 01720-4766	**BILL TO:**	Accounts Payable GeoSyntec Consultants 5901 Broken Sound Parkway Suite 300 Boca Raton, FL 33487
PHONE:	978-263-9588	**P.O. #**	BR0090-16*6
FAX:		**PROJECT #**	BR0090-16 NMI-Hurley VI
DATE RECEIVED:	06/14/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	06/24/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	2250SS-1	Modified TO-15	0.8 "Hg	15 psi
02A	2250SS-2	Modified TO-15	3.0 "Hg	15 psi
03A	BD-06062010	Modified TO-15	2.8 "Hg	15 psi
04A	2254SS-2	Modified TO-15	4.0 "Hg	15 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 06/25/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 1006319A

Four 1 Liter Summa Canister (100% Certified) samples were received on June 14, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample 2254SS-2 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2250SS-1

Lab ID#: 1006319A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.0	3.8	5.6	20

Client Sample ID: 2250SS-2

Lab ID#: 1006319A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	1.2	6.0	6.5

Client Sample ID: BD-06062010

Lab ID#: 1006319A-03A

No Detections Were Found.

Client Sample ID: 2254SS-2

Lab ID#: 1006319A-04A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250SS-1

Lab ID#: 1006319A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062207**	**Date of Collection: 6/6/10 11:04:00 AM**	
Dil. Factor:	**2.08**	**Date of Analysis: 6/22/10 11:29 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (ug/m3)**	**Amount (ug/m3)**
Trichloroethene	1.0	3.8	5.6	20

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2250SS-2

Lab ID#: 1006319A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062208**	**Date of Collection: 6/6/10 12:30:00 PM**	
Dil. Factor:	**2.24**	**Date of Analysis: 6/22/10 12:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	1.2	6.0	6.5

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: BD-06062010

Lab ID#: 1006319A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062209**	**Date of Collection: 6/6/10**	
Dil. Factor:	**2.23**	**Date of Analysis: 6/22/10 12:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	Not Detected	6.0	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	84	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: 2254SS-2

Lab ID#: 1006319A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062210**	**Date of Collection: 6/6/10 2:07:00 PM**	
Dil. Factor:	**2.33**	**Date of Analysis: 6/22/10 01:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.2	Not Detected	6.3	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1006319A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/22/10 10:24 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.50	Not Detected	2.7	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1006319A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/22/10 07:31 AM**	

Compound	**%Recovery**
Trichloroethene	106

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1006319A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6062203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/22/10 08:16 AM**	

Compound	**%Recovery**
Trichloroethene	103

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Todd Creamer

Collected by: (Print and Sign) Laura Morales/Todd Creamer

Company Geosyntec Consultants Email tcreamer2@geosyntec.com lmorales2@geosyntec.com

Address 289 Great Rd Ste 101 City Acton State MA Zip 01720

Phone 978-263-9588 Fax 978-263-9591

Project Info:
P.O. # BR0090-16*6
Project # BR0090-16
Project Name NM1-Hurley VI

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: ____
Date: ____
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	225055-1	2089	6/6/2010	11:04	TO-15	-29.35	-0.39		
02A	225055-2	36480	6/6/2010	12:30	TO-15	-28.17	-2.37		
03A	BD-060620 10	37300	6/6/2010	—	TO-15	-28.18	-2.28		
04A	225455-2	35622	6/6/2010	14:07	TO-15	-29.09	-3.61		
	225000A-1	9571	6/6/2010	15:51	TO-15 LL	-29.57	-7.89		

Relinquished by: (signature) Laura Morales Date/Time 6/7/10 1530
Received by: (signature) Fedex Tracking # (9612019) 389663 1 10000663 Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Monica Greaben AIR Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time 6/14/10 1110

Notes:
~~PCE~~, TCE, ~~tc~~ LTM
LTM 6/7/2010
6/7/2010

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex G		NA	Good	Yes No None	~~100631 8~~ 100631 9

Form 1293 rev.11

~~0 I 6 9 0 0 I~~ 6/14/10

Geosyntec consultants

Data Validation Checklist
Level 1

Reviewed by: Laura Morales
Project/Task No: BR00107 16AL

Review Date: 7/14/2010

	YES	NO
ATTACHED TO THIS FORM: 1) DATA REPORT COVER SHEETS	X	
2) LABORATORY NARRATIVE:	X	

Site: NMI - Hurley VI
Laboratory Report # 1006398

Sample Date: 6/6/2010
Report Date: 6/25/2010

Answer all questions "Yes" or "No". Any answer in a box requires comment

Review Item	YES	NO	COMMENTS
Chain-of-custody correctly completed:	X		
Transcription errors in chain-of-custody, field forms, or lab reports.		X	
All data requested received:	X		
All analyses within holding times:	X		
Compounds detected below reporting limit:		X	
Surrogates within control for each sample:	X		
Reporting Limits Elevated by greater than 10X:		X	
Matrix Spike/Matrix Spike Duplicate (MS/MSD) within recovery control limits	NA	NA	NA
Relative percent difference (RPD) within control limits based on MS/MSD results:	NA	NA	NA
Laboratory Control Sample (LCS) within control limits:	X		
Continuing Calibration Verification (CCV) within control limits:	X		
Constituents detected above reporting limits in field equipment, travel or method blank samples:		X	
Any laboratory qualifiers applied to data:		X	
Laboratory corrective actions implemented:	—	—	NA
Are data acceptable quality:	✓		
EDD received:	✓		
EDD checked against hard copy:	✓		
EDD ready for upload:	✓		
Further Validation required:		✓	

Comments:

Air Toxics LTD.
Laboratory Services Since 1989

6/25/2010
Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.

Acton MA 01720-4766

Project Name: NMI-Hurley VI
Project #: BR0090-16
Workorder #: 1006319A

Dear Mr. Dave Adilman

The following report includes the data for the above referenced project for sample(s) received on 6/14/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

6/25/2010
Mr. Dave Adilman
GeoSyntec Consultants
289 Great Rd.

Acton MA 01720-4766

Project Name: NM1-Hurley VI
Project #: BR0090-16
Workorder #: 1006319B

Dear Mr. Dave Adilman

The following report includes the data for the above referenced project for sample(s) received on 6/14/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1006319B

Work Order Summary

CLIENT:	Mr. Dave Adilman GeoSyntec Consultants 289 Great Rd. Acton, MA 01720-4766	**BILL TO:**	Accounts Payable GeoSyntec Consultants 5901 Broken Sound Parkway Suite 300 Boca Raton, FL 33487
PHONE:	978-263-9588	**P.O. #**	BR0090-16*6
FAX:		**PROJECT #**	BR0090-16 NM1-Hurley VI
DATE RECEIVED:	06/14/2010	**CONTACT:**	Ausha Scott
DATE COMPLETED:	06/25/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
05A	2250OA-1	Modified TO-15	7.5 "Hg	5 psi
05AA	2250OA-1 Lab Duplicate	Modified TO-15	7.5 "Hg	5 psi
06A	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 06/25/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 1006319B

One 6 Liter Summa Canister (SIM Certified) sample was received on June 14, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	+- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	</= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 2250OA-1

Lab ID#: 1006319B-05A

No Detections Were Found.

Client Sample ID: 2250OA-1 Lab Duplicate

Lab ID#: 1006319B-05AA

No Detections Were Found.

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Client Sample ID: 2250OA-1

Lab ID#: 1006319B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s062205**	**Date of Collection: 6/6/10 3:51:00 PM**	
Dil. Factor:	**1.79**	**Date of Analysis: 6/22/10 12:25 PM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (ug/m3)**	**Amount (ug/m3)**
Trichloroethene	0.18	Not Detected	0.96	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: 2250OA-1 Lab Duplicate

Lab ID#: 1006319B-05AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s062206**	**Date of Collection: 6/6/10 3:51:00 PM**	
Dil. Factor:	**1.79**	**Date of Analysis: 6/22/10 01:11 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.18	Not Detected	0.96	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1006319B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s062204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/22/10 11:35 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (ug/m3)**	**Amount (ug/m3)**
Trichloroethene	0.10	Not Detected	0.54	Not Detected

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: CCV

Lab ID#: 1006319B-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s062202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/22/10 10:31 AM**	

Compound	**%Recovery**
Trichloroethene	116

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1006319B-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s062203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/22/10 11:02 AM**	

Compound	**%Recovery**
Trichloroethene	105

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Todd Creamer

Collected by: (Print and Sign) Laura Morales/Todd Creamer

Company Geosyntec Consultants Email tcreamer2@geosyntec.com lmorales

Address 289 Great Rd Ste 105 City Acton State MA Zip 01720

Phone 978-263-9588 Fax 978-263-9541

Project Info:
P.O. # BR0090-16*6
Project # BR0090-16
Project Name NM1-Hurley VI

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	225055-1	2089	6/6/2010	11:04	TO-15	-29.35	-0.39		
	225055-2	36480	6/6/2010	12:30	TO-15	-28.17	-2.37		
	BD-060620 10	37300	6/6/2010	—	TO-15	-28.18	-2.28		
	225455-2	35622	6/6/2010	14:07	TO-15	-29.09	-3.61		
05A	225005A-1	9571	6/6/2010	15:51	TO-15 LL	-29.57	-7.84		

Relinquished by: (signature) Laura Morales Date/Time 6/7/10/1530
Received by: (signature) Fedex Tracking # (9612019) 389663 1 10000663 Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Monica Grosben ATL Date/Time 6/14/10 1110
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Notes:
~~PCE~~, TCE, ~~VC~~ LTM
LTM 6/7/2010
6/7/2010

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
Fed Ex G		NA	Good	Yes No None	~~100631~~ 100631 9

Form 1293 rev.11

~~GI6000~~