1746 DALE ROAD SITE
GROUNDWATER INVESTIGATION REPORT
OCTOBER 2014

BACKGROUND

The property at 1746 Dale Road in Cheektowaga, NY (see Figure 1), was previously owned by Roco Ltd., and was the subject of a site investigation/remedial action under the Voluntary Cleanup Program (VCP) by Roco, Ltd. dating back to 2000. Subsurface volatile organic (VOC) contamination has been associated with the use of trichloroethylene (TCE) dating back to the 1950s. Site investigations revealed contamination beneath the old metal prep room in the northwest corner of the 33,000-sf single story building, with trichloroethylene (TCE) levels as high as 153,000 ppb in groundwater well GW-3.

Roco LTD entered into the Voluntary Cleanup Program in 2002 and, following site investigations, implemented an in-situ bioremediation system to treat groundwater. The treatment consisted of the injection of a hydrogen release compound from 2005 through 2009. Over this period, site reports show TCE reductions in GW-3 down to 10 ppb, and total VOCs to 138 ppb. The site was abandoned in 2009 immediately after the submittal of a Site Management Plan by Roco Ltd., and turned over to the NYSDEC.

Messrs. Cash Cunningham and Mark Kuczka purchased the property in an auction in early 2014, and held discussions with the NYSDEC regarding measures to investigate current environmental conditions and to explore options for remediation of residual contamination at the site. Since the VCP remediation system and associated groundwater monitoring was terminated by Roco Ltd. a few years ago, the current owners retained IEG to take the first step of characterizing groundwater contamination in and around the northwest corner of the property, and to develop the course of further action.

GROUNDWATER SAMPLING AND ANALYSIS

Seven monitoring wells (see Figure 2) were found at the site from the VCP activities. Five wells (excluding MW-6) were purged and sampled in August 2014 for VOCs. Since GW-4 and GW-7 are relatively close with MW-6 in the middle, MW-6 was not sampled. The purging had to be performed over two days due the slow recharge of all the wells. At the same time, a subslab soil vapor sample (designated SV-01) was collected inside the northwest corner of the building next to monitoring well GW-3.

Table 1 provides field measurements and analytical results for the groundwater samples, while Table 2 provides analytical results for VOCs in the soil vapor sample SV-01. Figure 2 shows groundwater levels and total VOCs for the monitoring wells, and total VOCs for the soil vapor sample. Laboratory analytical reports are attached.

GROUNDWATER LEVEL AND FLOW

According to data in previous reports, the site has a ground elevation of around 653' along the northern boundary, and 643 along the southern boundary. The building occupies the bulk of the property. Groundwater levels at the monitoring wells ranged from 652.2' amsl at GW-2 to 635.9' amsl at GW-5. Levels at all wells remained essentially the same as in 2005 to 2007. The general groundwater flow is from the north to the south consistent with previous reports. There appears to be a westerly component in the northwest corner of the property.

VOCS IN GROUNDWATER AND SOIL VAPOR

VOCs IN GROUNDWATER: Up to eight VOCs were found in the six wells sampled, with GW-3 having the highest levels. GW-3 had 61,219 µg/L total VOCs, while the other four wells ranged from 5.4 to 572 µg/L. Trichloroethene (TCE) ranged from non-detect in GW-7 to 10 µg/L at GW-3. Two

VOCs, cis-1,2-dichloroethene (DCE) and vinyl chloride (VC), were the highest at 34,000 and 27,000 µg/L respectively in GW-3.

TCE is the source compound at this site, while DCE and VC are degradation products associated with in-situ bioremediation of groundwater from 2003 to 2009. According to 2009 Site Management Plan by Leader Professional Services, TCE, DCE and VC had dropped to 9.87, non-detect and 138 µg/L respectively the groundwater at GW-3 in August 2009.

VOCs IN SUBLAB SOIL VAPOR: Six VOCs were detected in the subslab soil vapor sample, ranging from 210 $\mu g/m^3$ toluene to 2,300 $\mu g/m^3$ cis-1,2-dichloroethene and 190,000 $\mu g/m^3$ TCE, significantly above the 250 $\mu g/m^3$ NYSDOH guideline. In comparison, TCE was reported to be 303 $\mu g/m^3$ in a subslab soil vapor sample near GW-3 in 2006.

ASSESSMENT

The bioremediation process appears to have significantly reduced TCE, the source compound, in the source area. However, DCE and VC, the degradation products, appears to have rebounded from the low levels reported in 2009, when the bioremediation system was abandoned by the previous owners. Over this period, the subslab soil vapor also seems to have accumulated significant levels of TCE, far exceeding previously reported levels. The elevated levels of VOCs appear to persist within the source area beneath the floor in the northwest corner of the building.

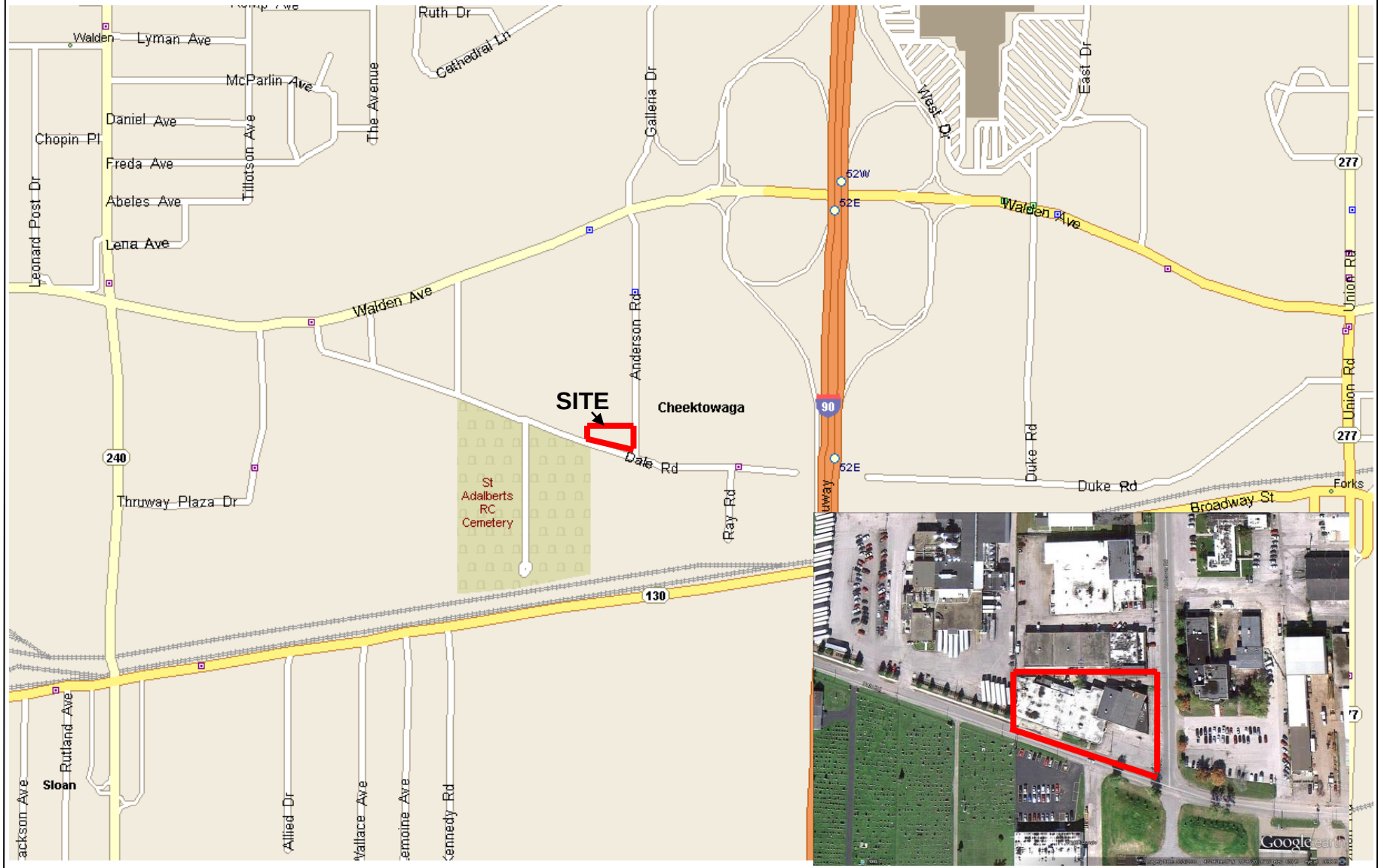
FUTURE COURSE OF ACTION

Over a decade has passed since the groundwater bioremediation system was implemented and five years since the remediation was abandoned. Contaminant levels in the source warrant further action to protect building occupants as wells as prevent further migration of contaminants. The areas outside the building are at significantly lower levels and don't appear to warrant immediate action.

Given the above scenario, IEG recommends a phased course of action, beginning with a subslab soil vapor extraction system, followed by a groundwater pump and treat system, in the source area. This would most likely be the fastest way to achieve the previously established remedial action objectives. The recommended phases are as follows:

Phase 1: Install and operate a subslab vapor extraction system (SVES) for at least a year as a first step to mitigating VOC levels below the floor in the northwest corner of the building where GW-3 is located. The TCE is probably at saturation levels beneath the slab, and, if so, will dissipate rapidly as the soil vapor is extracted. Initially, a vapor phase carbon drum could be used to treat the soil vapor before discharge to the atmosphere. The carbon drum can be discontinued once the VOC levels drop below allowable discharge limits. Continue to assess groundwater quality at GW-3 and immediate vicinity.

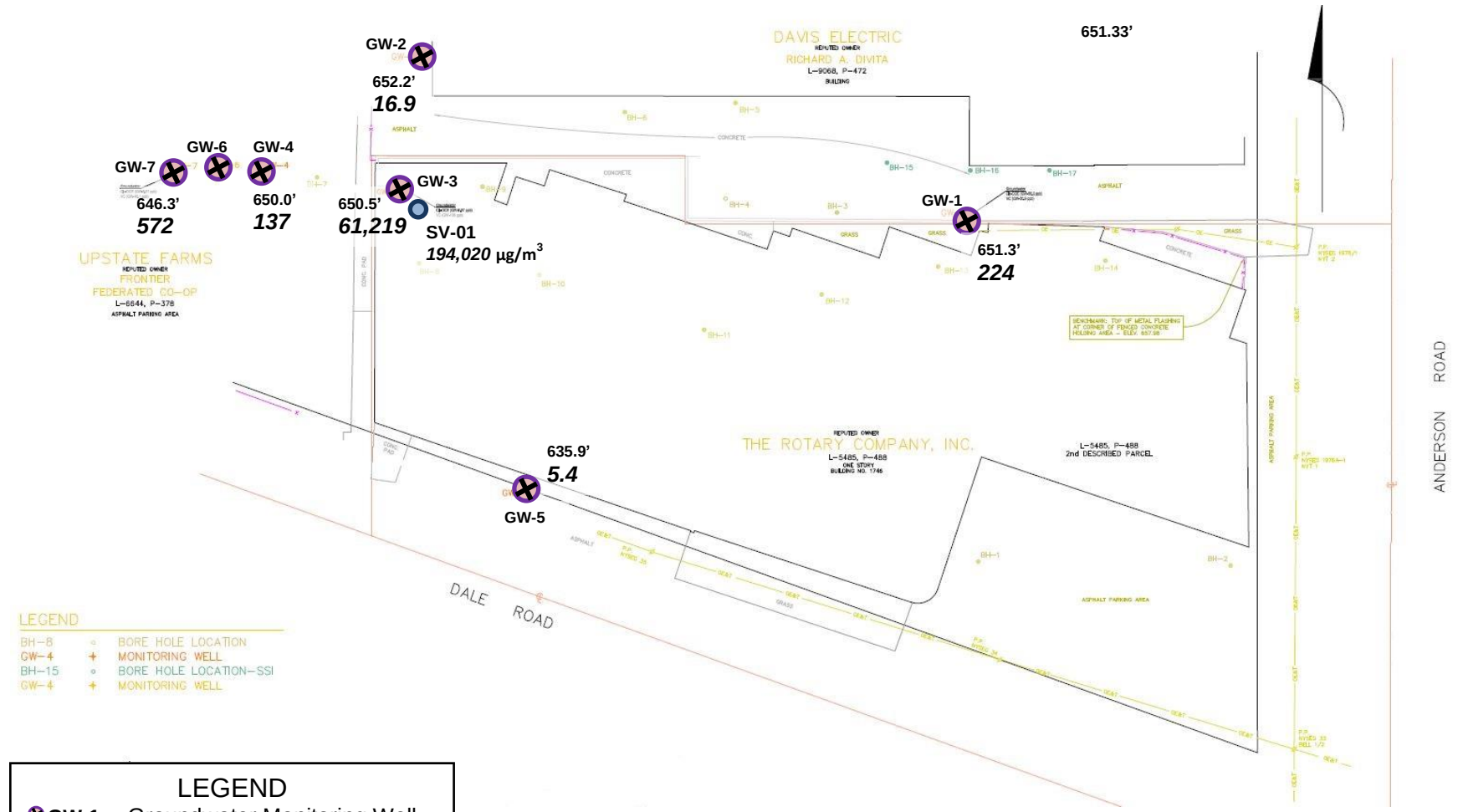
Phase 2: Install a groundwater extraction and treatment system (GETS) in the source area if the SVES does not significantly lower groundwater VOC levels. The GETS may include a groundwater pumping well by GW-3, and treatment by an air-stripper or carbon adsorption.



RoCo Ltd. Site, 1746 Dale Rd., Cheektowaga, NY
SITE LOCATION MAP & AERIAL PHOTO

FIGURE 1

IEG



LEGEND	
GW-1	Groundwater Monitoring Well Subslab vapor sample
651.3'	Groundwater elevation
224	*Total VOC concentration (µg/L)*

Base Map Source: Site Management Plan, RoCo Ltd. Site (NYSDEC #V00422-9), Leader Professional Services, April 2009

RoCo Ltd. Site, Cheektowaga, NY
SITE LAYOUT WITH MONITORING WELL LOCATIONS

FIGURE 2

IEG

TABLE 1

GROUNDWATER SAMPLING: FIELD RECORD/ANALYTICAL DATA

PROJECT:	**ROCO SITE GROUNDWATER I/R**			**DATE:**	**8/25/14 and 8/26/14**		
LOCATION:	**1746 DALE ROAD, CHEEKTOWAGA, NY**			**ON-SITE:**	**R. Allen/D. Iyer**		
CLIENT:	**CASH REALTY**			**WEATHER:**	**Partly cloudy, warm**		
WELL NUMBER	**GW-1**	**GW-2**	**GW-3**	**GW-4**	**GW-5**	**GW-6**	**GW-7**
NORTHING	not available						
EASTING							
WATER LEVEL MEASUREMENTS							
GROUND ELEVATION (ft)	~652.5						
TOR ELEVATION (ft)	652.59	653.88	652.94	653.00	642.57	648.99	650.37
Depth to Bottom from TOR (ft)	13.81	13.67	13.57	12.4	17.46	--	14.35
Depth to Water from TOR (ft)	1.26	1.7	2.44	2.98	6.63	--	4.03
Bottom Elevation (ft. amsl))	638.78	640.21	639.37	640.6	625.11	--	636.02
Water Elevation (ft. amsl))	651.33	652.18	650.5	650.02	635.94	--	646.34
Length of Water Column (ft)	12.6	12.0	11.1	9.4	10.8	--	10.3
One Well Volume (gal)	2.0	2.0	1.8	1.5	1.8	--	1.7
Three Well Volumes (gal)	6.1	5.9	5.4	4.6	5.3	--	5.0
FIELD PARAMTERS: INITIAL (8/25/14) / FINAL (8/26/14)							
TURBIDITY (ntu)	12	16	28	26	14	--	75
	8	10	38	21	85	--	10
TEMPERATURE (^{o}F)	24.7	23.3	21.5	25.5	25.7	--	22.9
	24.9	22.3	17.7	26.3	25.2	--	22.4
pH (s.u.)	7.91	7.87	7.25	7.37	7.62	--	8.14
	7.73	7.91	7.21	7.19	7.79	--	7.81
Sp. Conductivity (µmhos/cm)	867	2979	1811	>3999	637	--	1972
	845	3105	3512	>3999	680	--	2915
TDS (mg/L)	438	1491	903	>2000	318	--	996
	422	1553	1749	>2000	340	--	1453
ORP (mv)	44	59	-57	-111	62	--	55
	54	74	-56	-129	25	--	9
REMARKS: Some wells had broken riser and/or damaged casing/cover							
NOTE: 2" riser: one well volume in gallons = **0.163** **x Length of Water Column in feet**							
ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS (µg/L)							
Acetone	ND	ND	66.0	6.5 J	ND	NA	ND
2-Butanone	ND	ND	64.0	ND	ND		ND
1,1-Dichloroethene	1.0	ND	38.0	ND	ND		1.8 J
Carbon disulfide	ND	ND	0.84 J	ND	ND		ND
Chloroform	ND	ND	ND	ND	0.41 J		ND
cis-1,2-Dichloroethene	190	9.9	34000	100.0	2.8		330
trans-1,2-Dichloroethene	1.9	ND	40.0	4.4	ND		ND
Tetrachloroethene	ND	ND	ND	ND	ND		ND
Toluene	ND	ND	ND	ND	ND		ND
Trichloroethene	3.3	2.3	10.0	8.2	2.2		ND
Vinyl chloride	28.0	4.7	27000	18.0	ND		240
Total VOCs	224	16.9	61219	137	5.4		572
NOTE: Only detected organics are listed; ND = Not Detected; NA = Not Analyzed							

TABLE 2

SUBSLAB SOIL VAPOR SAMPLING: ANALYTICAL DATA

PROJECT:	**ROCO SITE GROUNDWATER I/R**	**DATE:**	**8/25/2014**
LOCATION:	**1746 DALE ROAD, CHEEKTOWAGA, NY**	**ON-SITE:**	**R. Allen/D. Iyer**
CLIENT:	**CASH REALTY**	**WEATHER:**	**Partly cloudy, warm**

SAMPLE ID	**SV-01 (near monitoring well GW-3)**	
ANALYTICAL DATA - VOLATILE ORGANIC COMPOUNDS		
UNITS	**(ppb v/v)**	**($\mu g/m^3$)**
Acetone	ND	ND
2-Butanone	ND	ND
1,1-Dichloroethene	200 J	800 J
Carbon disulfide	ND	ND
Chloroform	ND	ND
cis-1,2-Dichloroethene	590	2300
trans-1,2-Dichloroethene	ND	ND
Tetrachloroethene	100 J	710 J
Toluene	56 J	210 J
Trichloroethene	35000.0	190000
Vinyl chloride	ND	ND
Total VOCs	35946	194020

NOTE: Only detected organics are listed; ND = Not Detected

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-66197-1
Client Project/Site: Dale Rd

For:
Iyer Environmental Group, LLC
44 Rolling Hills Drive
Orchard Park, New York 14127

Attn: Dr. Dharmarajan R Iyer

Authorized for release by:
9/9/2014 11:01:21 AM
Rebecca Jones, Project Management Assistant I
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melissa.deyo@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Job ID: 480-66197-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-66197-1

Comments
No additional comments.

Receipt
The samples were received on 8/26/2014 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) for batch 201130 recovered outside control limits for the following analyte: Chloroethane. Chloroethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: GW-3 (480-66197-3), GW-7 (480-66197-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 201187 recovered outside acceptance criteria, low biased, for Carbon disulfide. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) for batch 201187 recovered outside control limits for the following analytes: Acetone and Methyl acetate. These analytes were not requested spiking compounds in the LCS; therefore, the data have been reported.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: GW-1 (480-66197-1), GW-3 (480-66197-3), GW-4 (480-66197-4). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Client Sample ID: GW-1 — Lab Sample ID: 480-66197-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.0		1.0	0.29	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	3.3		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	28		1.0	0.90	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	190		4.0	3.2	ug/L	4		8260C	Total/NA

Client Sample ID: GW-2 — Lab Sample ID: 480-66197-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.9		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	2.3		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	4.7		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: GW-3 — Lab Sample ID: 480-66197-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	38		4.0	1.2	ug/L	4		8260C	Total/NA
2-Butanone (MEK)	64		40	5.3	ug/L	4		8260C	Total/NA
Acetone	66		40	12	ug/L	4		8260C	Total/NA
Carbon disulfide	0.84	J	4.0	0.76	ug/L	4		8260C	Total/NA
trans-1,2-Dichloroethene	40		4.0	3.6	ug/L	4		8260C	Total/NA
Trichloroethene	10		4.0	1.8	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene - DL	34000		400	320	ug/L	400		8260C	Total/NA
Vinyl chloride - DL	27000		400	360	ug/L	400		8260C	Total/NA

Client Sample ID: GW-4 — Lab Sample ID: 480-66197-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J *	20	6.0	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	100		2.0	1.6	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	4.4		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	8.2		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	18		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: GW-5 — Lab Sample ID: 480-66197-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.41	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.8		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: GW-7 — Lab Sample ID: 480-66197-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.8	J	4.0	1.2	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	330		4.0	3.2	ug/L	4		8260C	Total/NA
Vinyl chloride	240		4.0	3.6	ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Client Sample ID: GW-1
Date Collected: 08/26/14 11:00
Date Received: 08/27/14 14:40

Lab Sample ID: 480-66197-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/06/14 15:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/06/14 15:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/06/14 15:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/06/14 15:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/06/14 15:20	1
1,1-Dichloroethene	**1.0**		1.0	0.29	ug/L			09/06/14 15:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/06/14 15:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/06/14 15:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/06/14 15:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/06/14 15:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/06/14 15:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/06/14 15:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/06/14 15:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/06/14 15:20	1
2-Hexanone	ND		5.0	1.2	ug/L			09/06/14 15:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/06/14 15:20	1
Acetone	ND		10	3.0	ug/L			09/06/14 15:20	1
Benzene	ND		1.0	0.41	ug/L			09/06/14 15:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/06/14 15:20	1
Bromoform	ND		1.0	0.26	ug/L			09/06/14 15:20	1
Bromomethane	ND		1.0	0.69	ug/L			09/06/14 15:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/06/14 15:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/06/14 15:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/06/14 15:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/06/14 15:20	1
Chloroethane	ND	*	1.0	0.32	ug/L			09/06/14 15:20	1
Chloroform	ND		1.0	0.34	ug/L			09/06/14 15:20	1
Chloromethane	ND		1.0	0.35	ug/L			09/06/14 15:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/06/14 15:20	1
Cyclohexane	ND		1.0	0.18	ug/L			09/06/14 15:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/06/14 15:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/06/14 15:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/06/14 15:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/06/14 15:20	1
Methyl acetate	ND		2.5	0.50	ug/L			09/06/14 15:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/06/14 15:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/06/14 15:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/06/14 15:20	1
Styrene	ND		1.0	0.73	ug/L			09/06/14 15:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/06/14 15:20	1
Toluene	ND		1.0	0.51	ug/L			09/06/14 15:20	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.90	ug/L			09/06/14 15:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/06/14 15:20	1
Trichloroethene	**3.3**		1.0	0.46	ug/L			09/06/14 15:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/06/14 15:20	1
Vinyl chloride	**28**		1.0	0.90	ug/L			09/06/14 15:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/06/14 15:20	1

Client Sample ID: GW-1

Lab Sample ID: 480-66197-1

Date Collected: 08/26/14 11:00

Matrix: Water

Date Received: 08/27/14 14:40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*71 - 126*		*09/06/14 15:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*		*09/06/14 15:20*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/06/14 15:20*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*09/06/14 15:20*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**190**		4.0	3.2	ug/L			09/08/14 00:01	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*71 - 126*		*09/08/14 00:01*	*4*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*09/08/14 00:01*	*4*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/08/14 00:01*	*4*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*09/08/14 00:01*	*4*

Client Sample ID: GW-2

Lab Sample ID: 480-66197-2

Date Collected: 08/26/14 11:30

Matrix: Water

Date Received: 08/27/14 14:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/08/14 00:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/08/14 00:25	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/08/14 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/08/14 00:25	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/08/14 00:25	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/08/14 00:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/08/14 00:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/08/14 00:25	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/08/14 00:25	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/08/14 00:25	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/08/14 00:25	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/08/14 00:25	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/08/14 00:25	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/08/14 00:25	1
2-Hexanone	ND		5.0	1.2	ug/L			09/08/14 00:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/08/14 00:25	1
Acetone	ND	*	10	3.0	ug/L			09/08/14 00:25	1
Benzene	ND		1.0	0.41	ug/L			09/08/14 00:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/08/14 00:25	1
Bromoform	ND		1.0	0.26	ug/L			09/08/14 00:25	1
Bromomethane	ND		1.0	0.69	ug/L			09/08/14 00:25	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/08/14 00:25	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/08/14 00:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/08/14 00:25	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/08/14 00:25	1
Chloroethane	ND		1.0	0.32	ug/L			09/08/14 00:25	1
Chloroform	ND		1.0	0.34	ug/L			09/08/14 00:25	1
Chloromethane	ND		1.0	0.35	ug/L			09/08/14 00:25	1
cis-1,2-Dichloroethene	**9.9**		1.0	0.81	ug/L			09/08/14 00:25	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/08/14 00:25	1

Client Sample ID: GW-2

Lab Sample ID: 480-66197-2

Date Collected: 08/26/14 11:30

Matrix: Water

Date Received: 08/27/14 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			09/08/14 00:25	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/08/14 00:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/08/14 00:25	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/08/14 00:25	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/08/14 00:25	1
Methyl acetate	ND	*	2.5	0.50	ug/L			09/08/14 00:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/08/14 00:25	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/08/14 00:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/08/14 00:25	1
Styrene	ND		1.0	0.73	ug/L			09/08/14 00:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/08/14 00:25	1
Toluene	ND		1.0	0.51	ug/L			09/08/14 00:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/08/14 00:25	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/08/14 00:25	1
Trichloroethene	**2.3**		1.0	0.46	ug/L			09/08/14 00:25	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/08/14 00:25	1
Vinyl chloride	**4.7**		1.0	0.90	ug/L			09/08/14 00:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/08/14 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*71 - 126*		*09/08/14 00:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*09/08/14 00:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/08/14 00:25*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*09/08/14 00:25*	*1*

Client Sample ID: GW-3

Lab Sample ID: 480-66197-3

Date Collected: 08/26/14 12:30

Matrix: Water

Date Received: 08/27/14 14:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			09/06/14 16:08	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			09/06/14 16:08	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			09/06/14 16:08	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			09/06/14 16:08	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			09/06/14 16:08	4
1,1-Dichloroethene	**38**		4.0	1.2	ug/L			09/06/14 16:08	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			09/06/14 16:08	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			09/06/14 16:08	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/06/14 16:08	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			09/06/14 16:08	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			09/06/14 16:08	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			09/06/14 16:08	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/06/14 16:08	4
2-Butanone (MEK)	**64**		40	5.3	ug/L			09/06/14 16:08	4
2-Hexanone	ND		20	5.0	ug/L			09/06/14 16:08	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			09/06/14 16:08	4
Acetone	**66**		40	12	ug/L			09/06/14 16:08	4
Benzene	ND		4.0	1.6	ug/L			09/06/14 16:08	4
Bromodichloromethane	ND		4.0	1.6	ug/L			09/06/14 16:08	4

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Client Sample ID: GW-3
Date Collected: 08/26/14 12:30
Date Received: 08/27/14 14:40

Lab Sample ID: 480-66197-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		4.0	1.0	ug/L			09/06/14 16:08	4
Bromomethane	ND		4.0	2.8	ug/L			09/06/14 16:08	4
Carbon disulfide	**0.84**	**J**	4.0	0.76	ug/L			09/06/14 16:08	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			09/06/14 16:08	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/06/14 16:08	4
Dibromochloromethane	ND		4.0	1.3	ug/L			09/06/14 16:08	4
Chloroethane	ND	*	4.0	1.3	ug/L			09/06/14 16:08	4
Chloroform	ND		4.0	1.4	ug/L			09/06/14 16:08	4
Chloromethane	ND		4.0	1.4	ug/L			09/06/14 16:08	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			09/06/14 16:08	4
Cyclohexane	ND		4.0	0.72	ug/L			09/06/14 16:08	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			09/06/14 16:08	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/06/14 16:08	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			09/06/14 16:08	4
Isopropylbenzene	ND		4.0	3.2	ug/L			09/06/14 16:08	4
Methyl acetate	ND		10	2.0	ug/L			09/06/14 16:08	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			09/06/14 16:08	4
Methylcyclohexane	ND		4.0	0.64	ug/L			09/06/14 16:08	4
Methylene Chloride	ND		4.0	1.8	ug/L			09/06/14 16:08	4
Styrene	ND		4.0	2.9	ug/L			09/06/14 16:08	4
Tetrachloroethene	ND		4.0	1.4	ug/L			09/06/14 16:08	4
Toluene	ND		4.0	2.0	ug/L			09/06/14 16:08	4
trans-1,2-Dichloroethene	**40**		4.0	3.6	ug/L			09/06/14 16:08	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			09/06/14 16:08	4
Trichloroethene	**10**		4.0	1.8	ug/L			09/06/14 16:08	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			09/06/14 16:08	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/06/14 16:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*71 - 126*		*09/06/14 16:08*	*4*
1,2-Dichloroethane-d4 (Surr)	*95*		*66 - 137*		*09/06/14 16:08*	*4*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/06/14 16:08*	*4*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*09/06/14 16:08*	*4*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**34000**		400	320	ug/L			09/08/14 00:49	400
Vinyl chloride	**27000**		400	360	ug/L			09/08/14 00:49	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 126*		*09/08/14 00:49*	*400*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*		*09/08/14 00:49*	*400*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/08/14 00:49*	*400*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*09/08/14 00:49*	*400*

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Client Sample ID: GW-4
Date Collected: 08/26/14 10:30
Date Received: 08/27/14 14:40

Lab Sample ID: 480-66197-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/08/14 01:12	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/08/14 01:12	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/08/14 01:12	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			09/08/14 01:12	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			09/08/14 01:12	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/08/14 01:12	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			09/08/14 01:12	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			09/08/14 01:12	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			09/08/14 01:12	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/08/14 01:12	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/08/14 01:12	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			09/08/14 01:12	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			09/08/14 01:12	2
2-Butanone (MEK)	ND		20	2.6	ug/L			09/08/14 01:12	2
2-Hexanone	ND		10	2.5	ug/L			09/08/14 01:12	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			09/08/14 01:12	2
Acetone	**6.5**	**J ***	20	6.0	ug/L			09/08/14 01:12	2
Benzene	ND		2.0	0.82	ug/L			09/08/14 01:12	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/08/14 01:12	2
Bromoform	ND		2.0	0.52	ug/L			09/08/14 01:12	2
Bromomethane	ND		2.0	1.4	ug/L			09/08/14 01:12	2
Carbon disulfide	ND		2.0	0.38	ug/L			09/08/14 01:12	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/08/14 01:12	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/08/14 01:12	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/08/14 01:12	2
Chloroethane	ND		2.0	0.64	ug/L			09/08/14 01:12	2
Chloroform	ND		2.0	0.68	ug/L			09/08/14 01:12	2
Chloromethane	ND		2.0	0.70	ug/L			09/08/14 01:12	2
cis-1,2-Dichloroethene	**100**		2.0	1.6	ug/L			09/08/14 01:12	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/08/14 01:12	2
Cyclohexane	ND		2.0	0.36	ug/L			09/08/14 01:12	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			09/08/14 01:12	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/08/14 01:12	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			09/08/14 01:12	2
Isopropylbenzene	ND		2.0	1.6	ug/L			09/08/14 01:12	2
Methyl acetate	ND	*	5.0	1.0	ug/L			09/08/14 01:12	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			09/08/14 01:12	2
Methylcyclohexane	ND		2.0	0.32	ug/L			09/08/14 01:12	2
Methylene Chloride	ND		2.0	0.88	ug/L			09/08/14 01:12	2
Styrene	ND		2.0	1.5	ug/L			09/08/14 01:12	2
Tetrachloroethene	ND		2.0	0.72	ug/L			09/08/14 01:12	2
Toluene	ND		2.0	1.0	ug/L			09/08/14 01:12	2
trans-1,2-Dichloroethene	**4.4**		2.0	1.8	ug/L			09/08/14 01:12	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/08/14 01:12	2
Trichloroethene	**8.2**		2.0	0.92	ug/L			09/08/14 01:12	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			09/08/14 01:12	2
Vinyl chloride	**18**		2.0	1.8	ug/L			09/08/14 01:12	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/08/14 01:12	2

Client Sample ID: GW-4

Lab Sample ID: 480-66197-4

Date Collected: 08/26/14 10:30

Matrix: Water

Date Received: 08/27/14 14:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*71 - 126*		*09/08/14 01:12*	*2*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*		*09/08/14 01:12*	*2*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*09/08/14 01:12*	*2*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*09/08/14 01:12*	*2*

Client Sample ID: GW-5

Lab Sample ID: 480-66197-5

Date Collected: 08/26/14 12:00

Matrix: Water

Date Received: 08/27/14 14:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/08/14 01:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/08/14 01:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/08/14 01:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/08/14 01:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/08/14 01:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/08/14 01:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/08/14 01:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/08/14 01:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/08/14 01:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/08/14 01:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/08/14 01:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/08/14 01:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/08/14 01:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/08/14 01:36	1
2-Hexanone	ND		5.0	1.2	ug/L			09/08/14 01:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/08/14 01:36	1
Acetone	ND	*	10	3.0	ug/L			09/08/14 01:36	1
Benzene	ND		1.0	0.41	ug/L			09/08/14 01:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/08/14 01:36	1
Bromoform	ND		1.0	0.26	ug/L			09/08/14 01:36	1
Bromomethane	ND		1.0	0.69	ug/L			09/08/14 01:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/08/14 01:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/08/14 01:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/08/14 01:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/08/14 01:36	1
Chloroethane	ND		1.0	0.32	ug/L			09/08/14 01:36	1
Chloroform	**0.41**	**J**	1.0	0.34	ug/L			09/08/14 01:36	1
Chloromethane	ND		1.0	0.35	ug/L			09/08/14 01:36	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.81	ug/L			09/08/14 01:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/08/14 01:36	1
Cyclohexane	ND		1.0	0.18	ug/L			09/08/14 01:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/08/14 01:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/08/14 01:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/08/14 01:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/08/14 01:36	1
Methyl acetate	ND	*	2.5	0.50	ug/L			09/08/14 01:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/08/14 01:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/08/14 01:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/08/14 01:36	1

Client Sample ID: GW-5

Lab Sample ID: 480-66197-5

Date Collected: 08/26/14 12:00

Matrix: Water

Date Received: 08/27/14 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			09/08/14 01:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/08/14 01:36	1
Toluene	ND		1.0	0.51	ug/L			09/08/14 01:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/08/14 01:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/08/14 01:36	1
Trichloroethene	**2.2**		1.0	0.46	ug/L			09/08/14 01:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/08/14 01:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/08/14 01:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/08/14 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 126*		*09/08/14 01:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*09/08/14 01:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*09/08/14 01:36*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*09/08/14 01:36*	*1*

Client Sample ID: GW-7

Lab Sample ID: 480-66197-6

Date Collected: 08/26/14 10:00

Matrix: Water

Date Received: 08/27/14 14:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			09/06/14 17:19	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			09/06/14 17:19	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			09/06/14 17:19	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			09/06/14 17:19	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			09/06/14 17:19	4
1,1-Dichloroethene	**1.8**	**J**	4.0	1.2	ug/L			09/06/14 17:19	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			09/06/14 17:19	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			09/06/14 17:19	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/06/14 17:19	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			09/06/14 17:19	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			09/06/14 17:19	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			09/06/14 17:19	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/06/14 17:19	4
2-Butanone (MEK)	ND		40	5.3	ug/L			09/06/14 17:19	4
2-Hexanone	ND		20	5.0	ug/L			09/06/14 17:19	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			09/06/14 17:19	4
Acetone	ND		40	12	ug/L			09/06/14 17:19	4
Benzene	ND		4.0	1.6	ug/L			09/06/14 17:19	4
Bromodichloromethane	ND		4.0	1.6	ug/L			09/06/14 17:19	4
Bromoform	ND		4.0	1.0	ug/L			09/06/14 17:19	4
Bromomethane	ND		4.0	2.8	ug/L			09/06/14 17:19	4
Carbon disulfide	ND		4.0	0.76	ug/L			09/06/14 17:19	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			09/06/14 17:19	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/06/14 17:19	4
Dibromochloromethane	ND		4.0	1.3	ug/L			09/06/14 17:19	4
Chloroethane	ND	*	4.0	1.3	ug/L			09/06/14 17:19	4
Chloroform	ND		4.0	1.4	ug/L			09/06/14 17:19	4
Chloromethane	ND		4.0	1.4	ug/L			09/06/14 17:19	4

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Client Sample ID: GW-7
Date Collected: 08/26/14 10:00
Date Received: 08/27/14 14:40

Lab Sample ID: 480-66197-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**330**		4.0	3.2	ug/L			09/06/14 17:19	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			09/06/14 17:19	4
Cyclohexane	ND		4.0	0.72	ug/L			09/06/14 17:19	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			09/06/14 17:19	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/06/14 17:19	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			09/06/14 17:19	4
Isopropylbenzene	ND		4.0	3.2	ug/L			09/06/14 17:19	4
Methyl acetate	ND		10	2.0	ug/L			09/06/14 17:19	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			09/06/14 17:19	4
Methylcyclohexane	ND		4.0	0.64	ug/L			09/06/14 17:19	4
Methylene Chloride	ND		4.0	1.8	ug/L			09/06/14 17:19	4
Styrene	ND		4.0	2.9	ug/L			09/06/14 17:19	4
Tetrachloroethene	ND		4.0	1.4	ug/L			09/06/14 17:19	4
Toluene	ND		4.0	2.0	ug/L			09/06/14 17:19	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			09/06/14 17:19	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			09/06/14 17:19	4
Trichloroethene	ND		4.0	1.8	ug/L			09/06/14 17:19	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			09/06/14 17:19	4
Vinyl chloride	**240**		4.0	3.6	ug/L			09/06/14 17:19	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/06/14 17:19	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*71 - 126*		*09/06/14 17:19*	*4*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*09/06/14 17:19*	*4*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/06/14 17:19*	*4*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*09/06/14 17:19*	*4*

Surrogate Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(71-126)	(66-137)	(73-120)	(60-140)
480-66197-1	GW-1	100	98	102	100
480-66197-1 - DL	GW-1	100	96	102	99
480-66197-1 MS	GW-1	100	93	102	101
480-66197-1 MSD	GW-1	97	92	101	101
480-66197-2	GW-2	100	96	103	103
480-66197-3	GW-3	102	95	103	105
480-66197-3 - DL	GW-3	99	97	100	99
480-66197-4	GW-4	102	97	104	105
480-66197-5	GW-5	99	96	99	99
480-66197-6	GW-7	102	96	102	100
LCS 480-201130/4	Lab Control Sample	103	96	102	101
LCS 480-201187/5	Lab Control Sample	100	93	108	99
MB 480-201130/7	Method Blank	101	98	102	102
MB 480-201187/8	Method Blank	99	93	101	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-201130/7
Matrix: Water
Analysis Batch: 201130

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-Trichloroethane	ND		1.0	0.82	ug/L			09/06/14 12:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/06/14 12:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/06/14 12:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/06/14 12:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/06/14 12:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/06/14 12:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/06/14 12:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/06/14 12:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/06/14 12:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/06/14 12:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/06/14 12:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/06/14 12:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/06/14 12:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/06/14 12:50	1
2-Hexanone	ND		5.0	1.2	ug/L			09/06/14 12:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/06/14 12:50	1
Acetone	ND		10	3.0	ug/L			09/06/14 12:50	1
Benzene	ND		1.0	0.41	ug/L			09/06/14 12:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/06/14 12:50	1
Bromoform	ND		1.0	0.26	ug/L			09/06/14 12:50	1
Bromomethane	ND		1.0	0.69	ug/L			09/06/14 12:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/06/14 12:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/06/14 12:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/06/14 12:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/06/14 12:50	1
Chloroethane	ND		1.0	0.32	ug/L			09/06/14 12:50	1
Chloroform	ND		1.0	0.34	ug/L			09/06/14 12:50	1
Chloromethane	ND		1.0	0.35	ug/L			09/06/14 12:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/06/14 12:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/06/14 12:50	1
Cyclohexane	ND		1.0	0.18	ug/L			09/06/14 12:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/06/14 12:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/06/14 12:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/06/14 12:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/06/14 12:50	1
Methyl acetate	ND		2.5	0.50	ug/L			09/06/14 12:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/06/14 12:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/06/14 12:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/06/14 12:50	1
Styrene	ND		1.0	0.73	ug/L			09/06/14 12:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/06/14 12:50	1
Toluene	ND		1.0	0.51	ug/L			09/06/14 12:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/06/14 12:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/06/14 12:50	1
Trichloroethene	ND		1.0	0.46	ug/L			09/06/14 12:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/06/14 12:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/06/14 12:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/06/14 12:50	1

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

Lab Sample ID: MB 480-201130/7
Matrix: Water
Analysis Batch: 201130

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*101*		*71 - 126*		*09/06/14 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*		*09/06/14 12:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/06/14 12:50*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*09/06/14 12:50*	*1*

Lab Sample ID: LCS 480-201130/4
Matrix: Water
Analysis Batch: 201130

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	20.2		ug/L		81	71 - 129
1,1-Dichloroethene	25.0	18.2		ug/L		73	58 - 121
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	22.9		ug/L		91	75 - 127
Benzene	25.0	24.3		ug/L		97	71 - 124
Chlorobenzene	25.0	24.6		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	74 - 124
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Methyl tert-butyl ether	25.0	20.6		ug/L		82	64 - 127
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
Toluene	25.0	24.4		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	20.6		ug/L		83	73 - 127
Trichloroethene	25.0	25.1		ug/L		101	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*103*		*71 - 126*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

Lab Sample ID: MB 480-201187/8
Matrix: Water
Analysis Batch: 201187

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-Trichloroethane	ND		1.0	0.82	ug/L			09/07/14 23:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/07/14 23:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/07/14 23:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/07/14 23:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/07/14 23:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/07/14 23:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/07/14 23:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/07/14 23:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/07/14 23:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/07/14 23:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/07/14 23:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/07/14 23:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/07/14 23:30	1

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

Lab Sample ID: MB 480-201187/8
Matrix: Water
Analysis Batch: 201187

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			09/07/14 23:30	1
2-Hexanone	ND		5.0	1.2	ug/L			09/07/14 23:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/07/14 23:30	1
Acetone	ND		10	3.0	ug/L			09/07/14 23:30	1
Benzene	ND		1.0	0.41	ug/L			09/07/14 23:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/07/14 23:30	1
Bromoform	ND		1.0	0.26	ug/L			09/07/14 23:30	1
Bromomethane	ND		1.0	0.69	ug/L			09/07/14 23:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/07/14 23:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/07/14 23:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/07/14 23:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/07/14 23:30	1
Chloroethane	ND		1.0	0.32	ug/L			09/07/14 23:30	1
Chloroform	ND		1.0	0.34	ug/L			09/07/14 23:30	1
Chloromethane	ND		1.0	0.35	ug/L			09/07/14 23:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/07/14 23:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/07/14 23:30	1
Cyclohexane	ND		1.0	0.18	ug/L			09/07/14 23:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/07/14 23:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/07/14 23:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/07/14 23:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/07/14 23:30	1
Methyl acetate	ND		2.5	0.50	ug/L			09/07/14 23:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/07/14 23:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/07/14 23:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/07/14 23:30	1
Styrene	ND		1.0	0.73	ug/L			09/07/14 23:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/07/14 23:30	1
Toluene	ND		1.0	0.51	ug/L			09/07/14 23:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/07/14 23:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/07/14 23:30	1
Trichloroethene	ND		1.0	0.46	ug/L			09/07/14 23:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/07/14 23:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/07/14 23:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/07/14 23:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*71 - 126*		*09/07/14 23:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*66 - 137*		*09/07/14 23:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/07/14 23:30*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 140*		*09/07/14 23:30*	*1*

Lab Sample ID: LCS 480-201187/5
Matrix: Water
Analysis Batch: 201187

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	20.9		ug/L		84	71 - 129

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

Lab Sample ID: LCS 480-201187/5
Matrix: Water
Analysis Batch: 201187

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	19.7		ug/L		79	58 - 121
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	21.1		ug/L		84	75 - 127
Benzene	25.0	22.6		ug/L		90	71 - 124
Chlorobenzene	25.0	22.5		ug/L		90	72 - 120
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
Methyl tert-butyl ether	25.0	21.1		ug/L		84	64 - 127
Tetrachloroethene	25.0	22.8		ug/L		91	74 - 122
Toluene	25.0	22.5		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	73 - 127
Trichloroethene	25.0	24.3		ug/L		97	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*71 - 126*
1,2-Dichloroethane-d4 (Surr)	*93*		*66 - 137*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: 480-66197-1 MS
Matrix: Water
Analysis Batch: 201187

Client Sample ID: GW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		100	81.8		ug/L		82	71 - 129
1,1-Dichloroethene	ND		100	84.5		ug/L		85	58 - 121
1,2-Dichlorobenzene	ND		100	94.5		ug/L		94	80 - 124
1,2-Dichloroethane	ND		100	88.2		ug/L		88	75 - 127
Benzene	ND		100	90.6		ug/L		91	71 - 124
Chlorobenzene	ND		100	90.8		ug/L		91	72 - 120
cis-1,2-Dichloroethene	190		100	255	F1	ug/L		62	74 - 124
Ethylbenzene	ND		100	90.9		ug/L		91	77 - 123
Methyl tert-butyl ether	ND		100	81.3		ug/L		81	64 - 127
Tetrachloroethene	ND		100	89.1		ug/L		89	74 - 122
Toluene	ND		100	92.0		ug/L		92	80 - 122
trans-1,2-Dichloroethene	ND		100	90.2		ug/L		90	73 - 127
Trichloroethene	3.3		100	97.9		ug/L		95	74 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*71 - 126*
1,2-Dichloroethane-d4 (Surr)	*93*		*66 - 137*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

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

Lab Sample ID: 480-66197-1 MSD
Matrix: Water
Analysis Batch: 201187

Client Sample ID: GW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		100	83.0		ug/L		83	71 - 129	1	20
1,1-Dichloroethene	ND		100	74.7		ug/L		75	58 - 121	12	16
1,2-Dichlorobenzene	ND		100	96.5		ug/L		96	80 - 124	2	20
1,2-Dichloroethane	ND		100	83.4		ug/L		83	75 - 127	6	20
Benzene	ND		100	88.5		ug/L		88	71 - 124	2	13
Chlorobenzene	ND		100	88.2		ug/L		88	72 - 120	3	25
cis-1,2-Dichloroethene	190		100	260	F1	ug/L		67	74 - 124	2	15
Ethylbenzene	ND		100	88.6		ug/L		89	77 - 123	3	15
Methyl tert-butyl ether	ND		100	83.6		ug/L		84	64 - 127	3	37
Tetrachloroethene	ND		100	86.6		ug/L		87	74 - 122	3	20
Toluene	ND		100	88.5		ug/L		88	80 - 122	4	15
trans-1,2-Dichloroethene	ND		100	87.6		ug/L		88	73 - 127	3	20
Trichloroethene	3.3		100	93.0		ug/L		90	74 - 123	5	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*71 - 126*
1,2-Dichloroethane-d4 (Surr)	*92*		*66 - 137*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 140*

QC Association Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

GC/MS VOA

Analysis Batch: 201130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66197-1	GW-1	Total/NA	Water	8260C	
480-66197-3	GW-3	Total/NA	Water	8260C	
480-66197-6	GW-7	Total/NA	Water	8260C	
LCS 480-201130/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-201130/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 201187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66197-1 - DL	GW-1	Total/NA	Water	8260C	
480-66197-1 MS	GW-1	Total/NA	Water	8260C	
480-66197-1 MSD	GW-1	Total/NA	Water	8260C	
480-66197-2	GW-2	Total/NA	Water	8260C	
480-66197-3 - DL	GW-3	Total/NA	Water	8260C	
480-66197-4	GW-4	Total/NA	Water	8260C	
480-66197-5	GW-5	Total/NA	Water	8260C	
LCS 480-201187/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-201187/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Client Sample ID: GW-1
Lab Sample ID: 480-66197-1
Date Collected: 08/26/14 11:00
Matrix: Water
Date Received: 08/27/14 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201130	09/06/14 15:20	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	4	201187	09/08/14 00:01	CXM	TAL BUF

Client Sample ID: GW-2
Lab Sample ID: 480-66197-2
Date Collected: 08/26/14 11:30
Matrix: Water
Date Received: 08/27/14 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201187	09/08/14 00:25	CXM	TAL BUF

Client Sample ID: GW-3
Lab Sample ID: 480-66197-3
Date Collected: 08/26/14 12:30
Matrix: Water
Date Received: 08/27/14 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	201130	09/06/14 16:08	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	400	201187	09/08/14 00:49	CXM	TAL BUF

Client Sample ID: GW-4
Lab Sample ID: 480-66197-4
Date Collected: 08/26/14 10:30
Matrix: Water
Date Received: 08/27/14 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	201187	09/08/14 01:12	CXM	TAL BUF

Client Sample ID: GW-5
Lab Sample ID: 480-66197-5
Date Collected: 08/26/14 12:00
Matrix: Water
Date Received: 08/27/14 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201187	09/08/14 01:36	CXM	TAL BUF

Client Sample ID: GW-7
Lab Sample ID: 480-66197-6
Date Collected: 08/26/14 10:00
Matrix: Water
Date Received: 08/27/14 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	201130	09/06/14 17:19	GTG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Method Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66197-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66197-1	GW-1	Water	08/26/14 11:00	08/27/14 14:40
480-66197-2	GW-2	Water	08/26/14 11:30	08/27/14 14:40
480-66197-3	GW-3	Water	08/26/14 12:30	08/27/14 14:40
480-66197-4	GW-4	Water	08/26/14 10:30	08/27/14 14:40
480-66197-5	GW-5	Water	08/26/14 12:00	08/27/14 14:40
480-66197-6	GW-7	Water	08/26/14 10:00	08/27/14 14:40

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Iyer Environmental Group	Dharma Iyer	8/26/2014	247677
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
44 Rolling Hills Dr	(716) 662-4157 / (716) 662-2118		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Orchard Park / NY / 14127	R. Allen	M. Deyo	
Project Name and Location (State)	**Carrier/Waybill Number**		
1746 Dale Rd (NY)			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: VOCs 624	Special Instructions/ Conditions of Receipt
GW-1	8/26/14	11:00A		✓						3			✓	
GW-2		11:30A		✓						3			✓	
GW-3		12:30P		✓						3			✓	
GW-4		10:30		✓						3			✓	
GW-5		12:00P		✓						3			✓	
GW-7		10:00A		✓						3			✓	

480-66197 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By: Richard C Allen Jr	8/26/14	1440
2. Relinquished By:		
3. Relinquished By:		
1. Received By: TA Staff	8/26/14	1440
2. Received By:		
3. Received By:		

Comments

#1 2.8

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Iyer Environmental Group, LLC

Job Number: 480-66197-1

Login Number: 66197

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IYER
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-66089-1
Client Project/Site: Dale Rd

For:
Iyer Environmental Group, LLC
44 Rolling Hills Drive
Orchard Park, New York 14127

Attn: Dr. Dharmarajan R Iyer

Authorized for release by:
8/29/2014 4:05:57 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

Table of Contents

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

Job ID: 480-66089-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-66089-1

Receipt
The sample was received on 8/22/2014 10:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.0º C.

Air Toxics
Method(s) TO-15: The laboratory control sample (LCS) for batch 76561 recovered outside lower control limits for the following analytes: 2-Hexanone. This analyte was diluted below the reporting limit due to high concentrations of other target analytes, and was expected to be a non-detect based on screen data. Therefore, the data have been qualified and reported: (LCS 200-76561/3), SV-01 (480-66089-1).

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

Detection Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Client Sample ID: SV-01

Lab Sample ID: 480-66089-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	200	J	320	39	ppb v/v	1620		TO-15	Total/NA
1,2-Dichloroethene, Total	590		320	100	ppb v/v	1620		TO-15	Total/NA
cis-1,2-Dichloroethene	590		320	62	ppb v/v	1620		TO-15	Total/NA
Tetrachloroethene	100	J	320	26	ppb v/v	1620		TO-15	Total/NA
Toluene	56	J	320	28	ppb v/v	1620		TO-15	Total/NA
Trichloroethene	35000		320	39	ppb v/v	1620		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	800	J	1300	150	ug/m3	1620		TO-15	Total/NA
1,2-Dichloroethene, Total	2300		1300	410	ug/m3	1620		TO-15	Total/NA
cis-1,2-Dichloroethene	2300		1300	240	ug/m3	1620		TO-15	Total/NA
Tetrachloroethene	710	J	2200	180	ug/m3	1620		TO-15	Total/NA
Toluene	210	J	1200	100	ug/m3	1620		TO-15	Total/NA
Trichloroethene	190000		1700	210	ug/m3	1620		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Client Sample ID: SV-01
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 10:20
Sample Container: Summa Canister 6L

Lab Sample ID: 480-66089-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		320	34	ppb v/v			08/27/14 17:12	1620
1,1,2,2-Tetrachloroethane	ND		320	26	ppb v/v			08/27/14 17:12	1620
1,1,2-Trichloroethane	ND		320	28	ppb v/v			08/27/14 17:12	1620
1,1-Dichloroethane	ND		320	62	ppb v/v			08/27/14 17:12	1620
1,1-Dichloroethene	**200**	**J**	320	39	ppb v/v			08/27/14 17:12	1620
1,2,4-Trichlorobenzene	ND		810	44	ppb v/v			08/27/14 17:12	1620
1,2,4-Trimethylbenzene	ND		320	23	ppb v/v			08/27/14 17:12	1620
1,2-Dibromoethane	ND		320	32	ppb v/v			08/27/14 17:12	1620
1,2-Dichlorobenzene	ND		320	23	ppb v/v			08/27/14 17:12	1620
1,2-Dichloroethane	ND		320	28	ppb v/v			08/27/14 17:12	1620
1,2-Dichloroethene, Total	**590**		320	100	ppb v/v			08/27/14 17:12	1620
1,2-Dichloropropane	ND		320	52	ppb v/v			08/27/14 17:12	1620
1,2-Dichlorotetrafluoroethane	ND		320	57	ppb v/v			08/27/14 17:12	1620
1,3,5-Trimethylbenzene	ND		320	19	ppb v/v			08/27/14 17:12	1620
1,3-Butadiene	ND		320	68	ppb v/v			08/27/14 17:12	1620
1,3-Dichlorobenzene	ND		320	23	ppb v/v			08/27/14 17:12	1620
1,4-Dichlorobenzene	ND		320	23	ppb v/v			08/27/14 17:12	1620
1,4-Dioxane	ND		8100	320	ppb v/v			08/27/14 17:12	1620
2,2,4-Trimethylpentane	ND		320	44	ppb v/v			08/27/14 17:12	1620
2-Chlorotoluene	ND		320	21	ppb v/v			08/27/14 17:12	1620
3-Chloropropene	ND		810	55	ppb v/v			08/27/14 17:12	1620
4-Ethyltoluene	ND		320	29	ppb v/v			08/27/14 17:12	1620
4-Isopropyltoluene	ND		320	130	ppb v/v			08/27/14 17:12	1620
Acetone	ND		8100	2000	ppb v/v			08/27/14 17:12	1620
Benzene	ND		320	31	ppb v/v			08/27/14 17:12	1620
Benzyl chloride	ND		320	130	ppb v/v			08/27/14 17:12	1620
Bromodichloromethane	ND		320	28	ppb v/v			08/27/14 17:12	1620
Bromoethene(Vinyl Bromide)	ND		320	49	ppb v/v			08/27/14 17:12	1620
Bromoform	ND		320	16	ppb v/v			08/27/14 17:12	1620
Bromomethane	ND		320	45	ppb v/v			08/27/14 17:12	1620
Carbon disulfide	ND		810	110	ppb v/v			08/27/14 17:12	1620
Carbon tetrachloride	ND		320	34	ppb v/v			08/27/14 17:12	1620
Chlorobenzene	ND		320	13	ppb v/v			08/27/14 17:12	1620
Chloroethane	ND		810	49	ppb v/v			08/27/14 17:12	1620
Chloroform	ND		320	41	ppb v/v			08/27/14 17:12	1620
Chloromethane	ND		810	220	ppb v/v			08/27/14 17:12	1620
cis-1,2-Dichloroethene	**590**		320	62	ppb v/v			08/27/14 17:12	1620
cis-1,3-Dichloropropene	ND		320	45	ppb v/v			08/27/14 17:12	1620
Cumene	ND		320	26	ppb v/v			08/27/14 17:12	1620
Cyclohexane	ND		320	41	ppb v/v			08/27/14 17:12	1620
Dibromochloromethane	ND		320	32	ppb v/v			08/27/14 17:12	1620
Dichlorodifluoromethane	ND		810	49	ppb v/v			08/27/14 17:12	1620
Ethylbenzene	ND		320	21	ppb v/v			08/27/14 17:12	1620
Freon 22	ND		810	78	ppb v/v			08/27/14 17:12	1620
Freon TF	ND		320	29	ppb v/v			08/27/14 17:12	1620
Hexachlorobutadiene	ND		320	36	ppb v/v			08/27/14 17:12	1620
Isopropyl alcohol	ND		8100	350	ppb v/v			08/27/14 17:12	1620
m,p-Xylene	ND		810	37	ppb v/v			08/27/14 17:12	1620

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Client Sample ID: SV-01
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 10:20
Sample Container: Summa Canister 6L

Lab Sample ID: 480-66089-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND	*	810	320	ppb v/v			08/27/14 17:12	1620
Methyl Ethyl Ketone	ND		810	390	ppb v/v			08/27/14 17:12	1620
methyl isobutyl ketone	ND		810	44	ppb v/v			08/27/14 17:12	1620
Methyl methacrylate	ND		810	49	ppb v/v			08/27/14 17:12	1620
Methyl tert-butyl ether	ND		320	36	ppb v/v			08/27/14 17:12	1620
Methylene Chloride	ND		810	200	ppb v/v			08/27/14 17:12	1620
Naphthalene	ND		810	320	ppb v/v			08/27/14 17:12	1620
n-Butane	ND		810	460	ppb v/v			08/27/14 17:12	1620
n-Butylbenzene	ND		320	130	ppb v/v			08/27/14 17:12	1620
n-Heptane	ND		320	75	ppb v/v			08/27/14 17:12	1620
n-Hexane	ND		320	55	ppb v/v			08/27/14 17:12	1620
n-Propylbenzene	ND		320	130	ppb v/v			08/27/14 17:12	1620
sec-Butylbenzene	ND		320	130	ppb v/v			08/27/14 17:12	1620
Styrene	ND		320	29	ppb v/v			08/27/14 17:12	1620
tert-Butyl alcohol	ND		8100	530	ppb v/v			08/27/14 17:12	1620
tert-Butylbenzene	ND		320	28	ppb v/v			08/27/14 17:12	1620
Tetrachloroethene	**100**	**J**	320	26	ppb v/v			08/27/14 17:12	1620
Tetrahydrofuran	ND		8100	75	ppb v/v			08/27/14 17:12	1620
Toluene	**56**	**J**	320	28	ppb v/v			08/27/14 17:12	1620
trans-1,2-Dichloroethene	ND		320	47	ppb v/v			08/27/14 17:12	1620
trans-1,3-Dichloropropene	ND		320	36	ppb v/v			08/27/14 17:12	1620
Trichloroethene	**35000**		320	39	ppb v/v			08/27/14 17:12	1620
Trichlorofluoromethane	ND		320	49	ppb v/v			08/27/14 17:12	1620
Vinyl chloride	ND		320	62	ppb v/v			08/27/14 17:12	1620
Xylene (total)	ND		320	55	ppb v/v			08/27/14 17:12	1620
Xylene, o-	ND		320	26	ppb v/v			08/27/14 17:12	1620

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1800	190	ug/m3			08/27/14 17:12	1620
1,1,2,2-Tetrachloroethane	ND		2200	180	ug/m3			08/27/14 17:12	1620
1,1,2-Trichloroethane	ND		1800	150	ug/m3			08/27/14 17:12	1620
1,1-Dichloroethane	ND		1300	250	ug/m3			08/27/14 17:12	1620
1,1-Dichloroethene	**800**	**J**	1300	150	ug/m3			08/27/14 17:12	1620
1,2,4-Trichlorobenzene	ND		6000	320	ug/m3			08/27/14 17:12	1620
1,2,4-Trimethylbenzene	ND		1600	110	ug/m3			08/27/14 17:12	1620
1,2-Dibromoethane	ND		2500	250	ug/m3			08/27/14 17:12	1620
1,2-Dichlorobenzene	ND		1900	140	ug/m3			08/27/14 17:12	1620
1,2-Dichloroethane	ND		1300	110	ug/m3			08/27/14 17:12	1620
1,2-Dichloroethene, Total	**2300**		1300	410	ug/m3			08/27/14 17:12	1620
1,2-Dichloropropane	ND		1500	240	ug/m3			08/27/14 17:12	1620
1,2-Dichlorotetrafluoroethane	ND		2300	400	ug/m3			08/27/14 17:12	1620
1,3,5-Trimethylbenzene	ND		1600	96	ug/m3			08/27/14 17:12	1620
1,3-Butadiene	ND		720	150	ug/m3			08/27/14 17:12	1620
1,3-Dichlorobenzene	ND		1900	140	ug/m3			08/27/14 17:12	1620
1,4-Dichlorobenzene	ND		1900	140	ug/m3			08/27/14 17:12	1620
1,4-Dioxane	ND		29000	1200	ug/m3			08/27/14 17:12	1620
2,2,4-Trimethylpentane	ND		1500	200	ug/m3			08/27/14 17:12	1620
2-Chlorotoluene	ND		1700	110	ug/m3			08/27/14 17:12	1620
3-Chloropropene	ND		2500	170	ug/m3			08/27/14 17:12	1620

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Client Sample ID: SV-01
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 10:20
Sample Container: Summa Canister 6L

Lab Sample ID: 480-66089-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		1600	140	ug/m3			08/27/14 17:12	1620
4-Isopropyltoluene	ND		1800	710	ug/m3			08/27/14 17:12	1620
Acetone	ND		19000	4800	ug/m3			08/27/14 17:12	1620
Benzene	ND		1000	98	ug/m3			08/27/14 17:12	1620
Benzyl chloride	ND		1700	670	ug/m3			08/27/14 17:12	1620
Bromodichloromethane	ND		2200	180	ug/m3			08/27/14 17:12	1620
Bromoethene(Vinyl Bromide)	ND		1400	210	ug/m3			08/27/14 17:12	1620
Bromoform	ND		3300	170	ug/m3			08/27/14 17:12	1620
Bromomethane	ND		1300	180	ug/m3			08/27/14 17:12	1620
Carbon disulfide	ND		2500	330	ug/m3			08/27/14 17:12	1620
Carbon tetrachloride	ND		2000	210	ug/m3			08/27/14 17:12	1620
Chlorobenzene	ND		1500	60	ug/m3			08/27/14 17:12	1620
Chloroethane	ND		2100	130	ug/m3			08/27/14 17:12	1620
Chloroform	ND		1600	200	ug/m3			08/27/14 17:12	1620
Chloromethane	ND		1700	450	ug/m3			08/27/14 17:12	1620
cis-1,2-Dichloroethene	**2300**		1300	240	ug/m3			08/27/14 17:12	1620
cis-1,3-Dichloropropene	ND		1500	210	ug/m3			08/27/14 17:12	1620
Cumene	ND		1600	130	ug/m3			08/27/14 17:12	1620
Cyclohexane	ND		1100	140	ug/m3			08/27/14 17:12	1620
Dibromochloromethane	ND		2800	280	ug/m3			08/27/14 17:12	1620
Dichlorodifluoromethane	ND		4000	240	ug/m3			08/27/14 17:12	1620
Ethylbenzene	ND		1400	91	ug/m3			08/27/14 17:12	1620
Freon 22	ND		2900	280	ug/m3			08/27/14 17:12	1620
Freon TF	ND		2500	220	ug/m3			08/27/14 17:12	1620
Hexachlorobutadiene	ND		3500	380	ug/m3			08/27/14 17:12	1620
Isopropyl alcohol	ND		20000	860	ug/m3			08/27/14 17:12	1620
m,p-Xylene	ND		3500	160	ug/m3			08/27/14 17:12	1620
Methyl Butyl Ketone (2-Hexanone)	ND	*	3300	1300	ug/m3			08/27/14 17:12	1620
Methyl Ethyl Ketone	ND		2400	1200	ug/m3			08/27/14 17:12	1620
methyl isobutyl ketone	ND		3300	180	ug/m3			08/27/14 17:12	1620
Methyl methacrylate	ND		3300	200	ug/m3			08/27/14 17:12	1620
Methyl tert-butyl ether	ND		1200	130	ug/m3			08/27/14 17:12	1620
Methylene Chloride	ND		2800	700	ug/m3			08/27/14 17:12	1620
Naphthalene	ND		4200	1700	ug/m3			08/27/14 17:12	1620
n-Butane	ND		1900	1100	ug/m3			08/27/14 17:12	1620
n-Butylbenzene	ND		1800	710	ug/m3			08/27/14 17:12	1620
n-Heptane	ND		1300	310	ug/m3			08/27/14 17:12	1620
n-Hexane	ND		1100	190	ug/m3			08/27/14 17:12	1620
n-Propylbenzene	ND		1600	640	ug/m3			08/27/14 17:12	1620
sec-Butylbenzene	ND		1800	710	ug/m3			08/27/14 17:12	1620
Styrene	ND		1400	120	ug/m3			08/27/14 17:12	1620
tert-Butyl alcohol	ND		25000	1600	ug/m3			08/27/14 17:12	1620
tert-Butylbenzene	ND		1800	150	ug/m3			08/27/14 17:12	1620
Tetrachloroethene	**710**	**J**	2200	180	ug/m3			08/27/14 17:12	1620
Tetrahydrofuran	ND		24000	220	ug/m3			08/27/14 17:12	1620
Toluene	**210**	**J**	1200	100	ug/m3			08/27/14 17:12	1620
trans-1,2-Dichloroethene	ND		1300	190	ug/m3			08/27/14 17:12	1620
trans-1,3-Dichloropropene	ND		1500	160	ug/m3			08/27/14 17:12	1620

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Client Sample ID: SV-01
Lab Sample ID: 480-66089-1
Date Collected: 08/20/14 12:00
Matrix: Air
Date Received: 08/22/14 10:20
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	190000		1700	210	ug/m3			08/27/14 17:12	1620
Trichlorofluoromethane	ND		1800	270	ug/m3			08/27/14 17:12	1620
Vinyl chloride	ND		830	160	ug/m3			08/27/14 17:12	1620
Xylene (total)	ND		1400	240	ug/m3			08/27/14 17:12	1620
Xylene, o-	ND		1400	110	ug/m3			08/27/14 17:12	1620

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-76561/4
Matrix: Air
Analysis Batch: 76561

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-Trichloroethane	ND		0.20	0.021	ppb v/v			08/27/14 12:56	1
1,1,2,2-Tetrachloroethane	ND		0.20	0.016	ppb v/v			08/27/14 12:56	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			08/27/14 12:56	1
1,1-Dichloroethane	ND		0.20	0.038	ppb v/v			08/27/14 12:56	1
1,1-Dichloroethene	ND		0.20	0.024	ppb v/v			08/27/14 12:56	1
1,2,4-Trichlorobenzene	0.0291	J	0.50	0.027	ppb v/v			08/27/14 12:56	1
1,2,4-Trimethylbenzene	ND		0.20	0.014	ppb v/v			08/27/14 12:56	1
1,2-Dibromoethane	ND		0.20	0.020	ppb v/v			08/27/14 12:56	1
1,2-Dichlorobenzene	ND		0.20	0.014	ppb v/v			08/27/14 12:56	1
1,2-Dichloroethane	ND		0.20	0.017	ppb v/v			08/27/14 12:56	1
1,2-Dichloroethene, Total	ND		0.20	0.064	ppb v/v			08/27/14 12:56	1
1,2-Dichloropropane	ND		0.20	0.032	ppb v/v			08/27/14 12:56	1
1,2-Dichlorotetrafluoroethane	ND		0.20	0.035	ppb v/v			08/27/14 12:56	1
1,3,5-Trimethylbenzene	ND		0.20	0.012	ppb v/v			08/27/14 12:56	1
1,3-Butadiene	ND		0.20	0.042	ppb v/v			08/27/14 12:56	1
1,3-Dichlorobenzene	0.0171	J	0.20	0.014	ppb v/v			08/27/14 12:56	1
1,4-Dichlorobenzene	0.0173	J	0.20	0.014	ppb v/v			08/27/14 12:56	1
1,4-Dioxane	ND		5.0	0.20	ppb v/v			08/27/14 12:56	1
2,2,4-Trimethylpentane	ND		0.20	0.027	ppb v/v			08/27/14 12:56	1
2-Chlorotoluene	ND		0.20	0.013	ppb v/v			08/27/14 12:56	1
3-Chloropropene	ND		0.50	0.034	ppb v/v			08/27/14 12:56	1
4-Ethyltoluene	ND		0.20	0.018	ppb v/v			08/27/14 12:56	1
4-Isopropyltoluene	ND		0.20	0.080	ppb v/v			08/27/14 12:56	1
Acetone	ND		5.0	1.3	ppb v/v			08/27/14 12:56	1
Benzene	ND		0.20	0.019	ppb v/v			08/27/14 12:56	1
Benzyl chloride	ND		0.20	0.080	ppb v/v			08/27/14 12:56	1
Bromodichloromethane	ND		0.20	0.017	ppb v/v			08/27/14 12:56	1
Bromoethene(Vinyl Bromide)	ND		0.20	0.030	ppb v/v			08/27/14 12:56	1
Bromoform	ND		0.20	0.010	ppb v/v			08/27/14 12:56	1
Bromomethane	ND		0.20	0.028	ppb v/v			08/27/14 12:56	1
Carbon disulfide	ND		0.50	0.066	ppb v/v			08/27/14 12:56	1
Carbon tetrachloride	ND		0.20	0.021	ppb v/v			08/27/14 12:56	1
Chlorobenzene	ND		0.20	0.0081	ppb v/v			08/27/14 12:56	1
Chloroethane	ND		0.50	0.030	ppb v/v			08/27/14 12:56	1
Chloroform	ND		0.20	0.025	ppb v/v			08/27/14 12:56	1
Chloromethane	ND		0.50	0.14	ppb v/v			08/27/14 12:56	1
cis-1,2-Dichloroethene	ND		0.20	0.038	ppb v/v			08/27/14 12:56	1
cis-1,3-Dichloropropene	ND		0.20	0.028	ppb v/v			08/27/14 12:56	1
Cumene	ND		0.20	0.016	ppb v/v			08/27/14 12:56	1
Cyclohexane	ND		0.20	0.025	ppb v/v			08/27/14 12:56	1
Dibromochloromethane	ND		0.20	0.020	ppb v/v			08/27/14 12:56	1
Dichlorodifluoromethane	ND		0.50	0.030	ppb v/v			08/27/14 12:56	1
Ethylbenzene	ND		0.20	0.013	ppb v/v			08/27/14 12:56	1
Freon 22	ND		0.50	0.048	ppb v/v			08/27/14 12:56	1
Freon TF	ND		0.20	0.018	ppb v/v			08/27/14 12:56	1
Hexachlorobutadiene	ND		0.20	0.022	ppb v/v			08/27/14 12:56	1
Isopropyl alcohol	ND		5.0	0.22	ppb v/v			08/27/14 12:56	1
m,p-Xylene	ND		0.50	0.023	ppb v/v			08/27/14 12:56	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-76561/4
Matrix: Air
Analysis Batch: 76561

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	ND		0.50	0.20	ppb v/v			08/27/14 12:56	1
Methyl Ethyl Ketone	ND		0.50	0.24	ppb v/v			08/27/14 12:56	1
methyl isobutyl ketone	ND		0.50	0.027	ppb v/v			08/27/14 12:56	1
Methyl methacrylate	ND		0.50	0.030	ppb v/v			08/27/14 12:56	1
Methyl tert-butyl ether	ND		0.20	0.022	ppb v/v			08/27/14 12:56	1
Methylene Chloride	ND		0.50	0.13	ppb v/v			08/27/14 12:56	1
Naphthalene	ND		0.50	0.20	ppb v/v			08/27/14 12:56	1
n-Butane	ND		0.50	0.28	ppb v/v			08/27/14 12:56	1
n-Butylbenzene	ND		0.20	0.080	ppb v/v			08/27/14 12:56	1
n-Heptane	ND		0.20	0.046	ppb v/v			08/27/14 12:56	1
n-Hexane	ND		0.20	0.034	ppb v/v			08/27/14 12:56	1
n-Propylbenzene	ND		0.20	0.080	ppb v/v			08/27/14 12:56	1
sec-Butylbenzene	ND		0.20	0.080	ppb v/v			08/27/14 12:56	1
Styrene	ND		0.20	0.018	ppb v/v			08/27/14 12:56	1
tert-Butyl alcohol	ND		5.0	0.33	ppb v/v			08/27/14 12:56	1
tert-Butylbenzene	ND		0.20	0.017	ppb v/v			08/27/14 12:56	1
Tetrachloroethene	ND		0.20	0.016	ppb v/v			08/27/14 12:56	1
Tetrahydrofuran	ND		5.0	0.046	ppb v/v			08/27/14 12:56	1
Toluene	ND		0.20	0.017	ppb v/v			08/27/14 12:56	1
trans-1,2-Dichloroethene	ND		0.20	0.029	ppb v/v			08/27/14 12:56	1
trans-1,3-Dichloropropene	ND		0.20	0.022	ppb v/v			08/27/14 12:56	1
Trichloroethene	ND		0.20	0.024	ppb v/v			08/27/14 12:56	1
Trichlorofluoromethane	ND		0.20	0.030	ppb v/v			08/27/14 12:56	1
Vinyl chloride	ND		0.20	0.038	ppb v/v			08/27/14 12:56	1
Xylene (total)	ND		0.20	0.034	ppb v/v			08/27/14 12:56	1
Xylene, o-	ND		0.20	0.016	ppb v/v			08/27/14 12:56	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.1	0.11	ug/m3			08/27/14 12:56	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.11	ug/m3			08/27/14 12:56	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			08/27/14 12:56	1
1,1-Dichloroethane	ND		0.81	0.15	ug/m3			08/27/14 12:56	1
1,1-Dichloroethene	ND		0.79	0.095	ug/m3			08/27/14 12:56	1
1,2,4-Trichlorobenzene	0.216	J	3.7	0.20	ug/m3			08/27/14 12:56	1
1,2,4-Trimethylbenzene	ND		0.98	0.069	ug/m3			08/27/14 12:56	1
1,2-Dibromoethane	ND		1.5	0.15	ug/m3			08/27/14 12:56	1
1,2-Dichlorobenzene	ND		1.2	0.084	ug/m3			08/27/14 12:56	1
1,2-Dichloroethane	ND		0.81	0.069	ug/m3			08/27/14 12:56	1
1,2-Dichloroethene, Total	ND		0.79	0.25	ug/m3			08/27/14 12:56	1
1,2-Dichloropropane	ND		0.92	0.15	ug/m3			08/27/14 12:56	1
1,2-Dichlorotetrafluoroethane	ND		1.4	0.24	ug/m3			08/27/14 12:56	1
1,3,5-Trimethylbenzene	ND		0.98	0.059	ug/m3			08/27/14 12:56	1
1,3-Butadiene	ND		0.44	0.093	ug/m3			08/27/14 12:56	1
1,3-Dichlorobenzene	0.103	J	1.2	0.084	ug/m3			08/27/14 12:56	1
1,4-Dichlorobenzene	0.104	J	1.2	0.084	ug/m3			08/27/14 12:56	1
1,4-Dioxane	ND		18	0.72	ug/m3			08/27/14 12:56	1
2,2,4-Trimethylpentane	ND		0.93	0.13	ug/m3			08/27/14 12:56	1
2-Chlorotoluene	ND		1.0	0.067	ug/m3			08/27/14 12:56	1

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-76561/4
Matrix: Air
Analysis Batch: 76561

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Chloropropene	ND		1.6	0.11	ug/m3			08/27/14 12:56	1
4-Ethyltoluene	ND		0.98	0.088	ug/m3			08/27/14 12:56	1
4-Isopropyltoluene	ND		1.1	0.44	ug/m3			08/27/14 12:56	1
Acetone	ND		12	3.0	ug/m3			08/27/14 12:56	1
Benzene	ND		0.64	0.061	ug/m3			08/27/14 12:56	1
Benzyl chloride	ND		1.0	0.41	ug/m3			08/27/14 12:56	1
Bromodichloromethane	ND		1.3	0.11	ug/m3			08/27/14 12:56	1
Bromoethene(Vinyl Bromide)	ND		0.87	0.13	ug/m3			08/27/14 12:56	1
Bromoform	ND		2.1	0.10	ug/m3			08/27/14 12:56	1
Bromomethane	ND		0.78	0.11	ug/m3			08/27/14 12:56	1
Carbon disulfide	ND		1.6	0.21	ug/m3			08/27/14 12:56	1
Carbon tetrachloride	ND		1.3	0.13	ug/m3			08/27/14 12:56	1
Chlorobenzene	ND		0.92	0.037	ug/m3			08/27/14 12:56	1
Chloroethane	ND		1.3	0.079	ug/m3			08/27/14 12:56	1
Chloroform	ND		0.98	0.12	ug/m3			08/27/14 12:56	1
Chloromethane	ND		1.0	0.28	ug/m3			08/27/14 12:56	1
cis-1,2-Dichloroethene	ND		0.79	0.15	ug/m3			08/27/14 12:56	1
cis-1,3-Dichloropropene	ND		0.91	0.13	ug/m3			08/27/14 12:56	1
Cumene	ND		0.98	0.079	ug/m3			08/27/14 12:56	1
Cyclohexane	ND		0.69	0.086	ug/m3			08/27/14 12:56	1
Dibromochloromethane	ND		1.7	0.17	ug/m3			08/27/14 12:56	1
Dichlorodifluoromethane	ND		2.5	0.15	ug/m3			08/27/14 12:56	1
Ethylbenzene	ND		0.87	0.056	ug/m3			08/27/14 12:56	1
Freon 22	ND		1.8	0.17	ug/m3			08/27/14 12:56	1
Freon TF	ND		1.5	0.14	ug/m3			08/27/14 12:56	1
Hexachlorobutadiene	ND		2.1	0.23	ug/m3			08/27/14 12:56	1
Isopropyl alcohol	ND		12	0.53	ug/m3			08/27/14 12:56	1
m,p-Xylene	ND		2.2	0.10	ug/m3			08/27/14 12:56	1
Methyl Butyl Ketone (2-Hexanone)	ND		2.0	0.82	ug/m3			08/27/14 12:56	1
Methyl Ethyl Ketone	ND		1.5	0.71	ug/m3			08/27/14 12:56	1
methyl isobutyl ketone	ND		2.0	0.11	ug/m3			08/27/14 12:56	1
Methyl methacrylate	ND		2.0	0.12	ug/m3			08/27/14 12:56	1
Methyl tert-butyl ether	ND		0.72	0.079	ug/m3			08/27/14 12:56	1
Methylene Chloride	ND		1.7	0.43	ug/m3			08/27/14 12:56	1
Naphthalene	ND		2.6	1.0	ug/m3			08/27/14 12:56	1
n-Butane	ND		1.2	0.67	ug/m3			08/27/14 12:56	1
n-Butylbenzene	ND		1.1	0.44	ug/m3			08/27/14 12:56	1
n-Heptane	ND		0.82	0.19	ug/m3			08/27/14 12:56	1
n-Hexane	ND		0.70	0.12	ug/m3			08/27/14 12:56	1
n-Propylbenzene	ND		0.98	0.39	ug/m3			08/27/14 12:56	1
sec-Butylbenzene	ND		1.1	0.44	ug/m3			08/27/14 12:56	1
Styrene	ND		0.85	0.077	ug/m3			08/27/14 12:56	1
tert-Butyl alcohol	ND		15	0.99	ug/m3			08/27/14 12:56	1
tert-Butylbenzene	ND		1.1	0.093	ug/m3			08/27/14 12:56	1
Tetrachloroethene	ND		1.4	0.11	ug/m3			08/27/14 12:56	1
Tetrahydrofuran	ND		15	0.14	ug/m3			08/27/14 12:56	1
Toluene	ND		0.75	0.064	ug/m3			08/27/14 12:56	1
trans-1,2-Dichloroethene	ND		0.79	0.11	ug/m3			08/27/14 12:56	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-76561/4
Matrix: Air
Analysis Batch: 76561

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.91	0.10	ug/m3			08/27/14 12:56	1
Trichloroethene	ND		1.1	0.13	ug/m3			08/27/14 12:56	1
Trichlorofluoromethane	ND		1.1	0.17	ug/m3			08/27/14 12:56	1
Vinyl chloride	ND		0.51	0.097	ug/m3			08/27/14 12:56	1
Xylene (total)	ND		0.87	0.15	ug/m3			08/27/14 12:56	1
Xylene, o-	ND		0.87	0.069	ug/m3			08/27/14 12:56	1

Lab Sample ID: LCS 200-76561/3
Matrix: Air
Analysis Batch: 76561

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	10.0	8.80		ppb v/v		88	70 - 130
1,1,2,2-Tetrachloroethane	10.0	7.86		ppb v/v		79	70 - 130
1,1,2-Trichloroethane	10.0	8.09		ppb v/v		81	70 - 130
1,1-Dichloroethane	10.0	9.57		ppb v/v		96	70 - 130
1,1-Dichloroethene	10.0	9.77		ppb v/v		98	70 - 130
1,2,4-Trichlorobenzene	10.0	8.73		ppb v/v		87	70 - 130
1,2,4-Trimethylbenzene	10.0	8.80		ppb v/v		88	70 - 130
1,2-Dibromoethane	10.0	8.87		ppb v/v		89	70 - 130
1,2-Dichlorobenzene	10.0	9.40		ppb v/v		94	70 - 130
1,2-Dichloroethane	10.0	8.51		ppb v/v		85	70 - 130
1,2-Dichloropropane	10.0	9.01		ppb v/v		90	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.3		ppb v/v		103	70 - 130
1,3,5-Trimethylbenzene	10.0	8.83		ppb v/v		88	70 - 130
1,3-Butadiene	10.0	8.56		ppb v/v		86	70 - 130
1,3-Dichlorobenzene	10.0	8.96		ppb v/v		90	70 - 130
1,4-Dichlorobenzene	10.0	9.27		ppb v/v		93	70 - 130
1,4-Dioxane	10.0	8.20		ppb v/v		82	70 - 130
2,2,4-Trimethylpentane	10.0	8.95		ppb v/v		89	70 - 130
2-Chlorotoluene	10.0	7.73		ppb v/v		77	70 - 130
3-Chloropropene	10.0	9.11		ppb v/v		91	70 - 130
4-Ethyltoluene	10.0	8.47		ppb v/v		85	70 - 130
4-Isopropyltoluene	10.0	8.83		ppb v/v		88	70 - 130
Acetone	10.0	8.07		ppb v/v		81	70 - 130
Benzene	10.0	8.73		ppb v/v		87	70 - 130
Benzyl chloride	10.0	9.67		ppb v/v		97	70 - 130
Bromodichloromethane	10.0	9.70		ppb v/v		97	70 - 130
Bromoethene(Vinyl Bromide)	10.0	9.72		ppb v/v		97	70 - 130
Bromoform	10.0	10.1		ppb v/v		101	70 - 130
Bromomethane	10.0	8.88		ppb v/v		89	70 - 130
Carbon disulfide	10.0	10.8		ppb v/v		108	70 - 130
Carbon tetrachloride	10.0	8.97		ppb v/v		90	70 - 130
Chlorobenzene	10.0	9.20		ppb v/v		92	70 - 130
Chloroethane	10.0	8.54		ppb v/v		85	70 - 130
Chloroform	10.0	9.56		ppb v/v		96	70 - 130
Chloromethane	10.0	8.20		ppb v/v		82	70 - 130
cis-1,2-Dichloroethene	10.0	9.87		ppb v/v		99	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-76561/3
Matrix: Air
Analysis Batch: 76561

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	10.0	11.0		ppb v/v		110	70 - 130
Cumene	10.0	9.04		ppb v/v		90	70 - 130
Cyclohexane	10.0	9.27		ppb v/v		93	70 - 130
Dibromochloromethane	10.0	9.29		ppb v/v		93	70 - 130
Dichlorodifluoromethane	10.0	9.16		ppb v/v		92	70 - 130
Ethylbenzene	10.0	8.81		ppb v/v		88	70 - 130
Freon 22	10.0	8.75		ppb v/v		88	70 - 130
Freon TF	10.0	9.57		ppb v/v		96	70 - 130
Hexachlorobutadiene	10.0	10.0		ppb v/v		100	70 - 130
Isopropyl alcohol	10.0	7.70		ppb v/v		77	70 - 130
m,p-Xylene	20.0	18.0		ppb v/v		90	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	6.82	*	ppb v/v		68	70 - 130
Methyl Ethyl Ketone	10.0	8.68		ppb v/v		87	70 - 130
methyl isobutyl ketone	10.0	8.56		ppb v/v		86	70 - 130
Methyl methacrylate	10.0	9.20		ppb v/v		92	70 - 130
Methyl tert-butyl ether	10.0	10.3		ppb v/v		103	70 - 130
Methylene Chloride	10.0	8.59		ppb v/v		86	70 - 130
Naphthalene	10.0	7.90		ppb v/v		79	70 - 130
n-Butane	10.0	8.28		ppb v/v		83	70 - 130
n-Butylbenzene	10.0	8.10		ppb v/v		81	70 - 130
n-Heptane	10.0	8.71		ppb v/v		87	70 - 130
n-Hexane	10.0	10.6		ppb v/v		106	70 - 130
n-Propylbenzene	10.0	8.31		ppb v/v		83	70 - 130
sec-Butylbenzene	10.0	8.70		ppb v/v		87	70 - 130
Styrene	10.0	9.43		ppb v/v		94	70 - 130
tert-Butyl alcohol	10.0	8.65		ppb v/v		87	70 - 130
tert-Butylbenzene	10.0	9.03		ppb v/v		90	70 - 130
Tetrachloroethene	10.0	10.2		ppb v/v		102	70 - 130
Tetrahydrofuran	10.0	7.73		ppb v/v		77	70 - 130
Toluene	10.0	9.39		ppb v/v		94	70 - 130
trans-1,2-Dichloroethene	10.0	10.0		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	10.0	10.9		ppb v/v		109	70 - 130
Trichloroethene	10.0	9.08		ppb v/v		91	70 - 130
Trichlorofluoromethane	10.0	9.50		ppb v/v		95	70 - 130
Vinyl chloride	10.0	8.25		ppb v/v		83	70 - 130
Xylene, o-	10.0	9.53		ppb v/v		95	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	55	48.0		ug/m3		88	70 - 130
1,1,2,2-Tetrachloroethane	69	54.0		ug/m3		79	70 - 130
1,1,2-Trichloroethane	55	44.2		ug/m3		81	70 - 130
1,1-Dichloroethane	40	38.7		ug/m3		96	70 - 130
1,1-Dichloroethene	40	38.7		ug/m3		98	70 - 130
1,2,4-Trichlorobenzene	74	64.8		ug/m3		87	70 - 130
1,2,4-Trimethylbenzene	49	43.2		ug/m3		88	70 - 130
1,2-Dibromoethane	77	68.1		ug/m3		89	70 - 130
1,2-Dichlorobenzene	60	56.5		ug/m3		94	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-76561/3
Matrix: Air
Analysis Batch: 76561

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	40	34.5		ug/m3		85	70 - 130
1,2-Dichloropropane	46	41.6		ug/m3		90	70 - 130
1,2-Dichlorotetrafluoroethane	70	72.1		ug/m3		103	70 - 130
1,3,5-Trimethylbenzene	49	43.4		ug/m3		88	70 - 130
1,3-Butadiene	22	18.9		ug/m3		86	70 - 130
1,3-Dichlorobenzene	60	53.9		ug/m3		90	70 - 130
1,4-Dichlorobenzene	60	55.8		ug/m3		93	70 - 130
1,4-Dioxane	36	29.5		ug/m3		82	70 - 130
2,2,4-Trimethylpentane	47	41.8		ug/m3		89	70 - 130
2-Chlorotoluene	52	40.0		ug/m3		77	70 - 130
3-Chloropropene	31	28.5		ug/m3		91	70 - 130
4-Ethyltoluene	49	41.6		ug/m3		85	70 - 130
4-Isopropyltoluene	55	48.5		ug/m3		88	70 - 130
Acetone	24	19.2		ug/m3		81	70 - 130
Benzene	32	27.9		ug/m3		87	70 - 130
Benzyl chloride	52	50.1		ug/m3		97	70 - 130
Bromodichloromethane	67	65.0		ug/m3		97	70 - 130
Bromoethene(Vinyl Bromide)	44	42.5		ug/m3		97	70 - 130
Bromoform	100	105		ug/m3		101	70 - 130
Bromomethane	39	34.5		ug/m3		89	70 - 130
Carbon disulfide	31	33.7		ug/m3		108	70 - 130
Carbon tetrachloride	63	56.4		ug/m3		90	70 - 130
Chlorobenzene	46	42.3		ug/m3		92	70 - 130
Chloroethane	26	22.5		ug/m3		85	70 - 130
Chloroform	49	46.7		ug/m3		96	70 - 130
Chloromethane	21	16.9		ug/m3		82	70 - 130
cis-1,2-Dichloroethene	40	39.1		ug/m3		99	70 - 130
cis-1,3-Dichloropropene	45	49.8		ug/m3		110	70 - 130
Cumene	49	44.4		ug/m3		90	70 - 130
Cyclohexane	34	31.9		ug/m3		93	70 - 130
Dibromochloromethane	85	79.2		ug/m3		93	70 - 130
Dichlorodifluoromethane	49	45.3		ug/m3		92	70 - 130
Ethylbenzene	43	38.3		ug/m3		88	70 - 130
Freon 22	35	30.9		ug/m3		88	70 - 130
Freon TF	77	73.4		ug/m3		96	70 - 130
Hexachlorobutadiene	110	107		ug/m3		100	70 - 130
Isopropyl alcohol	25	18.9		ug/m3		77	70 - 130
m,p-Xylene	87	78.1		ug/m3		90	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	28.0	*	ug/m3		68	70 - 130
Methyl Ethyl Ketone	29	25.6		ug/m3		87	70 - 130
methyl isobutyl ketone	41	35.1		ug/m3		86	70 - 130
Methyl methacrylate	41	37.7		ug/m3		92	70 - 130
Methyl tert-butyl ether	36	37.2		ug/m3		103	70 - 130
Methylene Chloride	35	29.8		ug/m3		86	70 - 130
Naphthalene	52	41.4		ug/m3		79	70 - 130
n-Butane	24	19.7		ug/m3		83	70 - 130
n-Butylbenzene	55	44.5		ug/m3		81	70 - 130

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-76561/3
Matrix: Air
Analysis Batch: 76561

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Heptane	41	35.7		ug/m3		87	70 - 130
n-Hexane	35	37.5		ug/m3		106	70 - 130
n-Propylbenzene	49	40.8		ug/m3		83	70 - 130
sec-Butylbenzene	55	47.8		ug/m3		87	70 - 130
Styrene	43	40.2		ug/m3		94	70 - 130
tert-Butyl alcohol	30	26.2		ug/m3		87	70 - 130
tert-Butylbenzene	55	49.6		ug/m3		90	70 - 130
Tetrachloroethene	68	69.0		ug/m3		102	70 - 130
Tetrahydrofuran	29	22.8		ug/m3		77	70 - 130
Toluene	38	35.4		ug/m3		94	70 - 130
trans-1,2-Dichloroethene	40	39.6		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	45	49.5		ug/m3		109	70 - 130
Trichloroethene	54	48.8		ug/m3		91	70 - 130
Trichlorofluoromethane	56	53.4		ug/m3		95	70 - 130
Vinyl chloride	26	21.1		ug/m3		83	70 - 130
Xylene, o-	43	41.4		ug/m3		95	70 - 130

QC Association Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Air - GC/MS VOA

Analysis Batch: 76561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66089-1	SV-01	Total/NA	Air	TO-15	
LCS 200-76561/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-76561/4	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Client Sample ID: SV-01
Date Collected: 08/20/14 12:00
Date Received: 08/22/14 10:20

Lab Sample ID: 480-66089-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1620	76561	08/27/14 17:12	BPL	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

Method Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Iyer Environmental Group, LLC
Project/Site: Dale Rd

TestAmerica Job ID: 480-66089-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66089-1	SV-01	Air	08/20/14 12:00	08/22/14 10:20

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Dharma Iyer	**Samples Collected By:** DRI/RA	1 of 1 COCs
Company: IYER ENVIRONMENTAL GRP	Phone: 716 445 9684		
Address: 44 Rolling Hills Dr	Email: iyer@iceeol.com		
City/State/Zip Orchard Park, NY 14127			
Phone: 716 445 9684	Site Contact: Rick Allen		
FAX: 716 662 2118	TA Contact: Melissa Deyo		
Project Name: ~~1246~~ DALE RD GW	**Analysis Turnaround Time**		
Site: 1746 Dale RD	Standard (Specify)_____		
PO #	Rush (Specify)_____		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-01	8/20/14	12:00	12:01	-35	0	5516	4783	✓									✓		

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

480-66089 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by: DRIyer	Date/Time: 8/20/14	Samples Received by: [signature] 8/22/14 1020	TAB4R
Samples Relinquished by:	Date/Time:	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

8/29/2014


ORIGIN ID:DKKA (716) 504-9848
KEN KINECKI
TESTAMERICA LABS
10 HAZELWOOD DRIVE
AMHERST, NY 14228
UNITED STATES US
SHIP DATE: 21AUG14
ACTWGT: 7.2 LB
CAD: 846654/CAFE2704
BILL RECIPIENT
TO MARK PHILLIPS
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: BURLINGTON
DEPT: SAMPLE CONTROL
TRK# 0201 5657 0116 7249
FRI - 22 AUG
STANDARD OVERNIG
EK BTVA
054
VT-US B

Login Sample Receipt Checklist

Client: Iyer Environmental Group, LLC

Job Number: 480-66089-1

Login Number: 66089
List Number: 2
Creator: Goodrich, Kenneth L

List Source: TestAmerica Burlington
List Creation: 08/25/14 01:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

200-23508-A-3
4913
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 8/6/2014 12:00 AM 200-684755

Loc: 200
23508
#3
A

Pre-Shipment Clean Canister Certification Repor

Certification Type: ☒ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		
10	15	8/6/14	MC	6L	1L	3L

Port	Can ID	Leak Test: Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]	Initial Reading	Final Reading
						Gauge ID: 613	Gauge ID: 613
1	5701	-30.2	-30.3	-30.3	0	Date: 8/7/14	Date: 8/9/14
2	4099		-30.5		-0.2	Time: 1230	Time: 1315
3	4913		-30.2		+0.1	Tech: MC	Tech: MC
4	4151		-30.5		-0.2	BP: 29.7 ("Hg)	BP: 29.6 ("Hg)
5	5012		-30.2		0	Temp 22 (°C)	Temp: 22 (°C)
6	5053		-30.2		+0.1	[3]Acceptance Criteria:	
7	4072		-30.2		+0.1	(1) The difference must be less than or equal to + 0.5	
8	4294		-30.4		-0.1	(2) Pressure readings must be at least 24 hours apart.	
9	4783		-30.3		0	If time frame was not met, the PM must authorize shipment of canister:	
10	4833		-30.4		-0.1	*PM Authorization:*	
~~11~~	~~4150~~		Leak				
12	4543	✓	-30.2	✓	+0.1	Signature	Date

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ☐ TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Limited	Secondary Review: Review Date	Reviewer
~~3804~~										
4913	8/8/14	8918	TSL		✓				8/8/14	AMH

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: Routine

BR-FAI023:10.19.09:7
TestAmerica

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23508-1

SDG No.:

Client Sample ID: 4913 Lab Sample ID: 200-23508-3

Matrix: Air Lab File ID: 8918_007.D

Analysis Method: TO-15 Date Collected: 08/06/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/07/2014 18:24

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75773 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U *	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U *	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U *	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U *	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23508-1

SDG No.:

Client Sample ID: 4913 Lab Sample ID: 200-23508-3

Matrix: Air Lab File ID: 8918_007.D

Analysis Method: TO-15 Date Collected: 08/06/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/07/2014 18:24

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75773 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23508-1

SDG No.:

Client Sample ID: 4913 Lab Sample ID: 200-23508-3

Matrix: Air Lab File ID: 8918_007.D

Analysis Method: TO-15 Date Collected: 08/06/2014 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 08/07/2014 18:24

Soil Aliquot Vol: Dilution Factor: 0.2

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 75773 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140807-8918.b\8918_007.D
Lims ID: 200-23508-A-3 Lab Sample ID: 200-23508-3
Client ID: 4913
Sample Type: Client
Inject. Date: 07-Aug-2014 18:24:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0008918-007
Misc. Info.: 23508-03
Operator ID: bl Instrument ID: CHG.i

Method: \\BTV-LIMS1\ChromData\CHG.i\20140807-8918.b\TO15_LLNJ_TO3_G.m
Limit Group: AI_TO15_ICAL
Last Update: 08-Aug-2014 09:09:11 Calib Date: 02-Jul-2014 22:50:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\BTV-LIMS1\ChromData\CHG.i\20140702-8394.b\8394_010.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: lyonsb Date: 08-Aug-2014 09:02:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.758				ND	
2 Dichlorodifluoromethane	85		2.827				ND	
6 Chlorodifluoromethane	51		2.881				ND	
7 1,2-Dichloro-1,1,2,2-tetra	85		3.100				ND	
8 Chloromethane	50		3.239				ND	
9 Butane	43		3.448				ND	
10 Vinyl chloride	62		3.490				ND	
11 Butadiene	54		3.576				ND	
12 Bromomethane	94		4.288				ND	
14 Chloroethane	64		4.544				ND	
16 Vinyl bromide	106		4.956				ND	
17 Trichlorofluoromethane	101		5.063				ND	
19 Ethanol	45		5.705				ND	
23 1,1,2-Trichloro-1,2,2-trif	101		6.219				ND	
24 1,1-Dichloroethene	96		6.251				ND	
25 Acetone	43		6.524				ND	
26 Carbon disulfide	76		6.631				ND	
27 Isopropyl alcohol	45		6.855				ND	
29 3-Chloro-1-propene	41		7.096				ND	
31 Methylene Chloride	49	7.401	7.406	-0.005	82	4288	0.1598	
32 2-Methyl-2-propanol	59		7.669				ND	
33 Methyl tert-butyl ether	73		7.829				ND	
34 trans-1,2-Dichloroethene	61		7.861				ND	
36 Hexane	57		8.262				ND	
37 1,1-Dichloroethane	63		8.776				ND	
38 Vinyl acetate	43		8.878				ND	
39 cis-1,2-Dichloroethene	96		9.915				ND	
40 2-Butanone (MEK)	72		9.985				ND	
42 Ethyl acetate	88		10.044				ND	
S 41 1,2-Dichloroethene, Total	61		10.200				0	
44 Tetrahydrofuran	42		10.381				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 43 Chlorobromomethane	128	10.392	10.392	0.000	71	615788	10.0	
45 Chloroform	83		10.536				ND	
46 Cyclohexane	84		10.755				ND	
47 1,1,1-Trichloroethane	97		10.804				ND	
48 Carbon tetrachloride	117		11.044				ND	
51 Isooctane	57		11.504				ND	
50 Benzene	78		11.531				ND	
52 1,2-Dichloroethane	62		11.729				ND	
53 n-Heptane	43		11.911				ND	
* 54 1,4-Difluorobenzene	114	12.398	12.403	-0.005	92	3381323	10.0	
56 Trichloroethene	95		12.858				ND	
58 1,2-Dichloropropane	63		13.430				ND	
59 Methyl methacrylate	69		13.623				ND	
60 1,4-Dioxane	88		13.660				ND	
61 Dibromomethane	174		13.687				ND	
62 Dichlorobromomethane	83		13.997				ND	
64 cis-1,3-Dichloropropene	75		14.982				ND	
65 4-Methyl-2-pentanone (MIBK	43		15.297				ND	
66 Toluene	92		15.591				ND	
70 trans-1,3-Dichloropropene	75		16.228				ND	
71 1,1,2-Trichloroethane	83		16.608				ND	
72 Tetrachloroethene	166		16.699				ND	
73 2-Hexanone	43		17.084				ND	
74 Chlorodibromomethane	129		17.384				ND	
75 Ethylene Dibromide	107		17.656				ND	
* 76 Chlorobenzene-d5	117	18.571	18.571	0.000	84	3766193	10.0	
77 Chlorobenzene	112		18.635				ND	
78 Ethylbenzene	91		18.796				ND	
80 m-Xylene & p-Xylene	106		19.053				ND	
83 o-Xylene	106		19.898				ND	
84 Styrene	104		19.952				ND	
S 82 Xylenes, Total	106		20.100				0	
85 Bromoform	173		20.369				ND	
86 Isopropylbenzene	105		20.583				ND	
* 87 4-Bromofluorobenzene	95	20.947	20.952	-0.005	95	2352588	10.0	
88 1,1,2,2-Tetrachloroethane	83		21.241				ND	
90 N-Propylbenzene	91		21.305				ND	
91 4-Ethyltoluene	105		21.492				ND	
92 2-Chlorotoluene	91		21.498				ND	
94 1,3,5-Trimethylbenzene	105		21.599				ND	
96 tert-Butylbenzene	119		22.086				ND	
97 1,2,4-Trimethylbenzene	105		22.182				ND	
98 sec-Butylbenzene	105		22.407				ND	
99 4-Isopropyltoluene	119		22.610				ND	
100 1,3-Dichlorobenzene	146		22.637				ND	
101 1,4-Dichlorobenzene	146		22.771				ND	
102 Benzyl chloride	91		22.969				ND	
103 n-Butylbenzene	91		23.177				ND	
105 1,2-Dichlorobenzene	146		23.300				ND	
107 1,2,4-Trichlorobenzene	180		25.793				ND	
108 Hexachlorobutadiene	225		25.981				ND	
109 Naphthalene	128		26.286				ND	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND

Reagents:

ATTO15GIS_00009 Amount Added: 20.00 Units: mL Run Reagent

Report Date: 08-Aug-2014 09:09:16 Chrom Revision: 2.2 24-Jun-2014 07:21:42

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140807-8918.b\8918_007.D

Injection Date:	07-Aug-2014 18:24:30	Instrument ID:	CHG.i	Operator ID:	bl
Lims ID:	200-23508-A-3	Lab Sample ID:	200-23508-3	Worklist Smp#:	7
Client ID:	4913				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	6
Method:	TO15_LLNJ_TO3_G	Limit Group:	AI_TO15_ICAL		

Column: RTX-624 (0.32 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1