15 June 2009

Mr. Steven M. Scharf, P.E. New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Action, Bureau A 625 Broadway Albany, NY 12233-7015

Re: Supplemental Soil Vapor Intrusion/Indoor Air Quality Investigation Results Interior Building Areas Near Phase II Area Nos. 25 & 46 Former Grumman Plant 2, Bethpage, New York

Dear Mr. Scharf:

On behalf of Steel Los III, LP, (Steel Los III), ERM Consulting & Engineering, Inc. (ERM) has prepared this letter report to present the results of the Supplemental Soil Vapor Intrusion (SVI)/Indoor Air Quality (IAQ) Investigation performed within the former Grumman Plant 2 building in certain office/break room areas, and near Area of Concern Nos. 25 (Former Paint Storage, Mixing and Stripping Room) & 46 (Machine Pit) identified in a Phase II investigation conducted by Dvirka & Bartilucci in 1996.

### Background

An initial SVI investigation was conducted on 25 February 2008 pursuant to the Stipulation Agreement between Steel Los III and New York State Department of Environmental Conservation (NYSDEC) dated 4 February 2008. The initial investigation involved collection of six (6) sub-slab vapor samples in accordance with ERM's 28 January 2008 Revised SVI Investigation Work Plan<sup>1</sup> that was approved by NYSDEC<sup>2</sup>. The purpose of the SVI investigation was to evaluate whether there are any potential soil vapor intrusion issues within the former Grumman Plant 2 building that are associated with the former Areas of Concern.

The sampling was conducted on 25 February 2008 within the portion of the building occupied by the current tenant, the United States Postal Service (USPS). The integrity of the building concrete floor slab is very good throughout ranging in thickness from 6 to 12 inches with an

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Environmental Resources Management

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<sup>&</sup>lt;sup>1</sup> Letter dated 28 January 2008 from Chris Wenczel-ERM to Steve Scharf-NYSDEC

<sup>&</sup>lt;sup>2</sup> Letter dated 31 January 2008 from Steve Scharf-NYSDEC to Chris Wenczel-ERM

average thickness of approximately 8 inches. There are powerful heating/ventilation/air conditioning systems that continuously feed and circulate fresh air from outdoors under a positive pressure to all occupied areas of the building. Specific details are presented below.

According to Steel Los III, the HVAC system for USPS space in the former Grumman Plant 2 building (the space containing former AOCs 25 & 46) consists of 34 rooftop units that produce an airflow of 2,560,000 CFM. The nominal fresh air setting is at 20%, resulting in a fresh air flow of 512,000 CFM. The footprint of the USPS space is 373,000 square feet, with an interior volume of 10,440,000 cubic feet. The HVAC system provides a minimum of 3 air changes an hour. In general, fresh air influx through the HVAC system places the space under positive pressure. The space is not airtight, allowing communication between indoor and outdoor air, which also lessens vapor intrusion concerns.

Ceiling heights range from 9 to 38.5 feet with 96% of the space consisting of high bay areas with a ceiling height of 24 feet or greater.

The sub-slab vapor sampling findings were presented to NYSDEC in ERM's 6 May 2008 letter<sup>3</sup>. Based on those results, the NYSDEC and NYSDOH requested that Steel Los III perform additional soil vapor sampling along with the simultaneous collection of an indoor air sample at each location.

Accordingly, the supplemental investigation was performed and the results thereof are presented below.

### Soil Vapor Intrusion/Indoor Air Quality Investigation

The SVI investigation was conducted on 16 March 2009 and subslab/indoor air/ambient air sampling locations are shown in Figure 1, which were slightly adjusted in the field based on accessibility and positioned to cause minimal disruption to the business activities of the current tenant, the USPS.

Sampling was performed following the protocols outlined in the NYSDEC-approved Work Plan and in accordance with the applicable protocols identified in the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" (October 2006). An "Indoor Air Quality Questionnaire and Building Inventory, and Product Inventory Forms" was completed (Attachment 1) contained in Appendix B of the NYSDOH Guidance.

<sup>&</sup>lt;sup>3</sup> Letter dated 6 May 2008 from Chris Wenczel-ERM to Steve Scharf-NYSDEC. 0072943 700 Hicksville Road, Bethpage, NY 15 June 2009

Each sampling location was screened using a photoionization detector (PID) to identify areas of potential interferences, and removing possible sources of VOCs from the sampling area. The PID was properly calibrated using isobutylene at the beginning of the day. No interferences were noted at the sampling locations. All sub-slab/indoor air/ambient air samples were collected over the same 8-hour period with individually-certified clean Summa<sup>®</sup> canisters fitted with appropriately programmed regulators. Sampling was discontinued while the canisters still exhibited a slight vacuum. All the pertinent data was recorded for each sampling location and is summarized in Table 1.

### Sub-Slab Soil Vapor Samples

Four (4) sub-slab soil vapor samples (SS-07 through SS-10) were collected: one soil vapor sample was collected from each of Areas Nos. 25 & 46, and two additional locations that the NYSDOH now has requested to be sampled. Samples SS-07 and SS-09 correspond to the two additional locations requested by NYSDOH. Sample SS-08 corresponds to the highest VOC concentrations previously observed at Area No. 46 (SS-03). Sample SS-10 corresponds to the location closest to an occupied area within Area No 25.

The proposed sampling location in AOC 25 is considered representative of a worse-case location regarding soil vapor intrusion since it is located in an area with a low ceiling and a security office situated on top of an area of known sub-slab VOC concentrations in soil. Other office areas are located a minimum of 150 feet away from the AOCs associated with VOC concentrations in soil.

### Indoor Air Samples

Four (4) indoor air samples (IA-07 through IA-10) were collected from the immediate locations of the sub-slab samples. Sample collection was through a section of dedicated Teflon tubing extending from the Summa<sup>®</sup> canister to the breathing zone of a seated person, approximately three (3) feet above the floor.

### Ambient Air Sample

The Plant 2 building has roof-mounted heating/ventilation/air conditioning systems that continuously feed and circulate fresh air from outdoors under a positive pressure to all occupied areas of the building. Accordingly, one ambient air sample (AA-01) was collected from an upwind location on the roof adjacent to a roof-top air intake for the building.

A section of dedicated Teflon tubing was extended from the Summa<sup>®</sup> canister to collect the sample from the breathing zone of a standing individual at four (4) to six (6) feet above the ground.

### Laboratory Analysis

The nine canisters were shipped via overnight delivery to Accutest Laboratories (NYSDOH Certification No. 10983) in Dayton, New Jersey, an Environmental Laboratory Accreditation Program- (ELAP)-certified laboratory. All samples were analyzed for VOCs using USEPA Method TO-15, with a target detection limit of 1.0 micrograms per cubic meter ( $\mu$ g/m<sup>3</sup>) or less for all parameters except trichloroethene (TCE). The target detection limit for TCE in indoor air samples was 0.25 ug/m<sup>3</sup> or less. This lower detection limit is required for TCE because the Decision Matrices in the NYSDOH Guidance used to evaluate indoor TCE concentrations, and Decision Matrix 1 evaluates the risks posed by TCE at concentrations as low as 0.25 ug/m<sup>3</sup> although the actual NYSDOH guidance value for indoor air is 5 ug/m<sup>3</sup> for TCE.

All laboratory data was reported in ASP Category B deliverable format and a data usability validation was performed by a qualified ERM Chemist. The Data Usability Report which includes laboratory data summary sheets is presented in Attachment 2. The validated analytical results are presented in Table 2. The full ASP Category B laboratory data deliverable is provided on the CD presented in Attachment 3. Detected compounds and associated concentrations are summarized in Table 2.

The exact sources of VOCs in sub-slab soil vapor and indoor air are presently unknown. The current tenant uses and stores minor amounts of detergents, lubricants and degreasers in servicing its package conveyance systems and for general housekeeping. Since the PID screening at each sampling location taken at the time of the sub-slab and indoor air sampling did not indicate the presence of VOCs, the tenant's use and storage of these VOC-containing products is unlikely to have influenced the sampling results.

### **Conclusions**

Based on the sampling results, indoor air sample IA-07 contained a concentration of 11 ug/m<sup>3</sup>, which exceeds the NYSDOH indoor air guideline of 5 ug/m<sup>3</sup> for TCE. Detected concentrations of TCE in the remaining three indoor air samples were below the 5 ug/m<sup>3</sup> for TCE guideline. Steel Los has adjusted the fresh air inlet damper on the HVAC unit that services the area of the building where sample IA-07 was

collected to provide a greater volume of fresh air to this area thereby reducing TCE concentrations in the indoor air.

We do not expect to observe additional impacts to indoor air quality from the sub-slab vapors above the NYSDOH indoor air guideline because the integrity of the floor slab is very good in these areas, and there are powerful heating/ventilation/air conditioning systems that continuously feed and circulate fresh air from outdoors under a positive pressure to all occupied areas of the building, which would suppress sub-slab vapors from entering the building.

We would like to meet with you to discuss these results. If you have any additional questions or comments, please do not hesitate to contact me at (631) 756-8900.

Very truly yours,

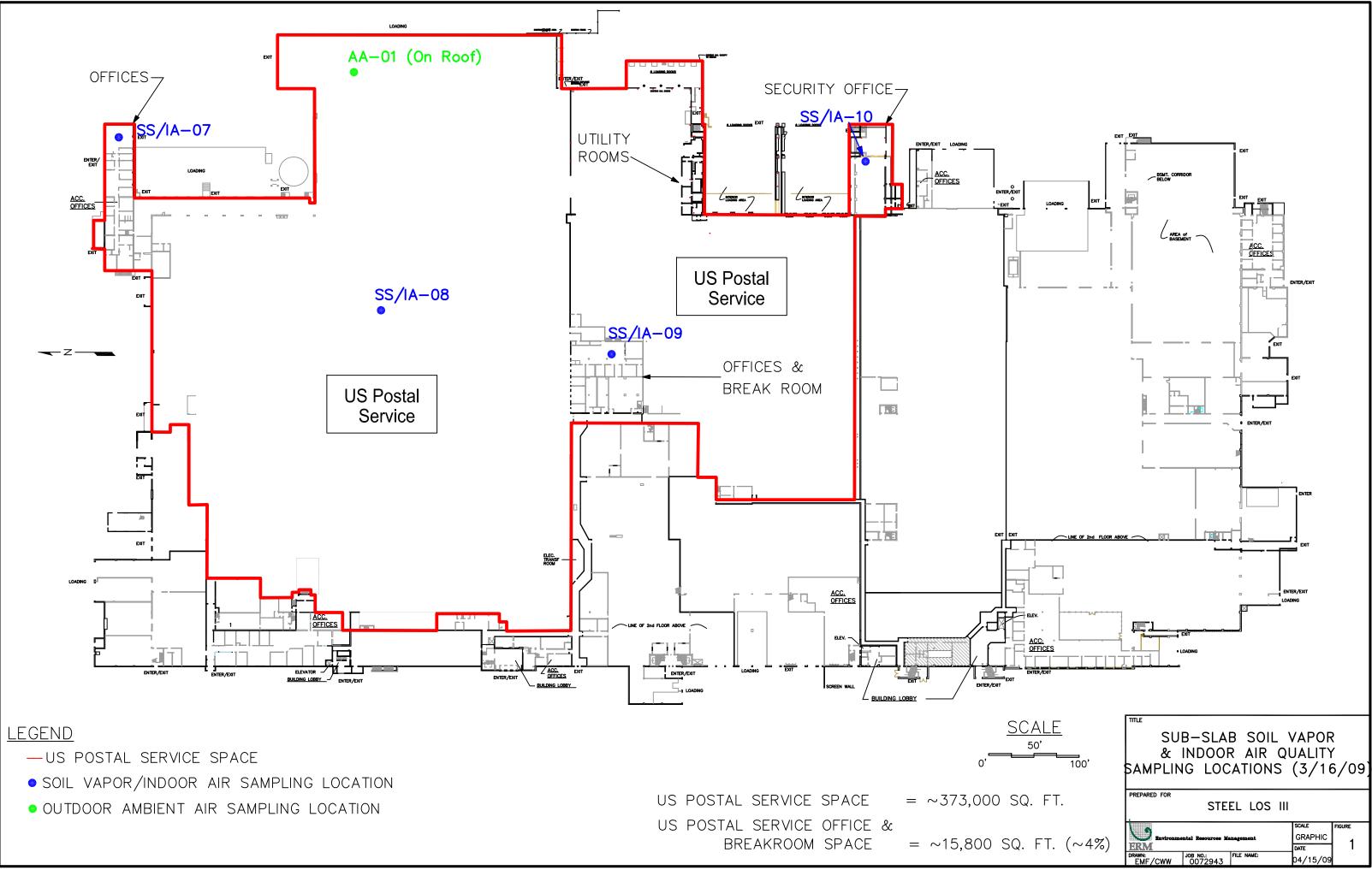
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Chris W. Wenczel Senior Consultant

Attachments

cc: Kevin Lumpe, Steel Los III, LP Manfred Bohms, Steel Los III, LP John Swartwout, NYSDEC Walter Parish, NYSDEC

## **FIGURES**



## TABLES

ERM

### TABLE 1 SUB-SLAB/INDOOR AIR/AMBIENT AIR SAMPLING SUMMARY 16 MARCH 2009 STEEL LOS III, FORMER GRUMMAN PLANT 2 700 HICKSVILLE ROAD, BETHPAGE, NY

	NE Roof		ice Room/ ice Offices	Are	a 46		e Room ak Room)	Are	a 25
Sample ID	AA-01	IA-07	SS-07	IA-08	SS-08	IA-09	SS-09	IA-10	SS-10
Sampler's Name	KP/TS	KP/TS	KP/TS	KP/TS	KP/TS	KP/TS	KP/TS	KP/TS	KP/TS
	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09
Date, Time And PID Reading Following	0935	1006	1006	0851	0851	0911	0911	0922	0922
Purge	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM
	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09
	0935	1006	1006	0851	0851	0911	0911	0922	0922
Date, Time And PID Reading in Room	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM
	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09	3/16/09
	0937	1008	1008	0853	0852	0913	0914	0924	0924
Date And Time Of Sample Start And Stop	1736	1807	1807	1652	1651	1712	1713	1723	1723
Summa <sup>®</sup> Canister Serial Number	A871	A900	A901	A902	A903	A895	A899	A896	A905
Flow Controller ID Number	FC214	FC222	FC202	FC195	FC220	FC216	FC217	FC208	FC200
	-30"Hg+	-30"Hg	-30"Hg+	-30"Hg+	-30"Hg	-30"Hg+	-30"Hg	-30"Hg+	-27"Hg
Initial And Final Summa® Canister Vacuum	-5.5"Hg	-6"Hg	-6"Hg	-11"Hg	-6"Hg	-6.5"Hg	-8"Hg	-5.5"Hg	-8"Hg
	AA-01	IA-07	SS-07	IA-08	SS-08	IA-09	SS-09	IA-10	SS-10
	See Figure	See Figure	See Figure	See Figure	See Figure	See Figure	See Figure	See Figure	See Figure
Sample Identification, And Descriptive	of sampling	of sampling	of sampling	•	of sampling	of sampling	of sampling	of sampling	of sampling
Location Of The Sampling Area	locations.	locations.	locations.	locations.	locations.	locations.	locations.	locations.	locations.
Sample Identification For Other									
Corresponding Samples At The Same									
Property	None	None	None	None	None	None	None	None	None
Weather Conditions Including Barometric	30.2"	30.2"	30.2"	30.2"	30.2"	30.2"	30.2"	30.2"	30.2"
Pressure, And Ambient Temperature Inside		70°F	70°F	70°F	70°F	70°F	70°F	70°F	70°F
And Outside The Building	45°F	45°F	45°F	45°F	45°F	45°F	45°F	45°F	45°F
Floor Slab Thickness			6"		6"		6"		6"
Sampling Depth(S)			-		-		-		
Soil Type At Sample Location, If Known									
	60 ml	60 ml	60 ml	60 ml	60 ml	60 ml	60 ml	60 ml	60 ml
	3/16/2009	3/16/2009	3/16/2009	3/16/2009	3/16/2009	3/16/2009	3/16/2009	3/16/2009	3/16/2009
All Equipment Calibrations Performed.	0800	0800	0800	0800	0800	0800	0800	0800	0800

### TABLE 2 SUB-SLAB/INDOOR AIR/AMBIENT AIR SAMPLING RESULT SUMMARY 16 MARCH 2009 STEEL LOS III, FORMER GRUMMAN PLANT 2 700 HICKSVILLE ROAD, BETHPAGE, NY

Bate         Printoor         No.2004         S162000         S16200	Sample ID	OSHA PEL	NYSDOH	SS-07	IA-07	SS-08	IA-08	SS-09	IA-09	SS-10	IA-10	AA-01
Units         ogan"         ogan" <th< th=""><th>Date</th><th></th><th>Indoor Air</th><th></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th></th<>	Date		Indoor Air		-							-
11.1-10.23         11.1-10.23         11.23	Location	Air <sup>1</sup>	Guideline <sup>2</sup>	NE Offices	NE Offices	AOC 46	AOC 46	Break Room	Break Room	AOC 25		NE Roof
11.22-Treintendentarie         36.00         NOV         U	Units			ug/m <sup>3</sup>								
11.2-Dictionalization         45.000         NOV         U         U         U         U         U         U         U         U         U           11.3-bit interfance         NS         NOV         U         1.4.5         U         2.8         U         1.5.1         U         3.1         U         U         U           11.3-bit interfance         NS         NSV         U         2.7         1.1         U         1.2         U <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td></t<>							-					
11-Discription         NGV         2.9         U         1.5         U         2.9         U         55.4         U         U           12.4-761050xcm0         NS         NGV         U         U         0.4         U <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td>				-	-		-	-				
11-Blacknochme         NS         NGV         U				-	-	-	-	-	-	-	-	_
12,4-Trinshysene         NS         NGV         U	'				-		-		-		-	
12.4-Tomoshore         NS         NGV         U         Z.7         1.1         U         U.3         0.1         U <thu< td="" th<=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td></thu<>							-		-			
12-Decharbes/pergene         3200,00         NGV         U        U         U        U </td <td>1,2,4-Trimethylbenzene</td> <td></td> <td></td> <td>U</td> <td>2.7</td> <td>1.1</td> <td>U</td> <td>2.3</td> <td>1.1</td> <td>U</td> <td>U</td> <td>U</td>	1,2,4-Trimethylbenzene			U	2.7	1.1	U	2.3	1.1	U	U	U
12-Backborgenbane         2003.000         NGV         U </td <td>1,2-Dibromoethane</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>_</td>	1,2-Dibromoethane		-	-	-	-	-	-	-	-	-	_
12-Dichospongene         550.00         NGY         U        U	,			-	-		-	-	-	-		
13,8-Timeltybenzene         NS         NGV         U         0         U	'			-	-	-	-	-	-	-	-	_
13-Batadené         1,000         NGV         U <thu< th="">         U         U</thu<>				-	-		-	-	-	-	-	
13-Dickinochanzene         NS         NSV         U				-		-	-		-	-	-	_
14-Doxano         360,000         NGV         U         U         U         1.2         U         U         U         U           2-Butnance         \$90,000         NGV         U         4.1         4.7         2.7         2.7         2.7         3.5         1         2.1         1.1           2-Butnance         S00,000         NGV         U <t< td=""><td>· ·</td><td></td><td></td><td>Ŭ</td><td>U</td><td>Ū</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></t<>	· ·			Ŭ	U	Ū	U	U	U	U	U	U
22,4-Timethylgentame         NS         NGV         U         1.4         U         0.98         0.757         3.5         U         0.84J         U           2-Chirontolene         NS         NGV         U	,				-		-		-		-	_
24Butanne         590.000         NGV         1.9         4.1         4.7         2.7         2.7         2.7         3.5         1         2.1         1.1           2-Horatobare         NGV         U <tdu< td=""><td>,</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>_</td></tdu<>	,		-	-	-	-	-		-	-	-	_
S         NGV         U			-	-		-				-		_
2+Haranne         410,000         NGV         U <thu< th="">         U         U</thu<>										-		
32-Ohotopropene         3,000         NOV         U	2-Hexanone			-	-		-	-	-	-		
At:Bitydiane         NS         NSV         U         0.64.J         U         U         U         U         U         U         U           Acetore         2,400,000         NGV         12         54.6         36.3         13         323         27.1         10         9.3         5.7           Benzene         3,190         NGV         0.54.J         2         0.48.J         1.4         4.8         1.7         0.64         1.3         0.87           Benzene         NS         NGV         U	3-Chloropropene			-	-		-	-	-	-		
Acetone         2.400,000         NGV         0.54         32.3         13         32.3         27.1         10         9.3         5.7           Benzy chloride         NS         NGV         U         <	4-Ethyltoluene	NS		-		-	-	-	-	-	-	_
Benzene         5,190         NGV         0.54J         2         0.48J         1.4         4.88         1.7         0.64         1.3         0.89           Benzyl chlorid         NS         NGV         U        <				-	-	=	-		-	-	-	_
Banagk chlonde         NS         NSV         U <thu< th="">         U         U</thu<>							-			-		-
Bromochhome         NS         NSV         U			-									
Bromethene         NS         NSV         U         <			-	-	-	-	-	-	-			
Brommerhane Carbon disulfide (achon disulfide)         NGV 62,000         U	Bromoethene			-			-			_		
Carbon disulfide         62,000         NGV         4.7         U         0.62         U         3.7         U <th< td=""><td>Bromoform</td><td></td><td>NGV</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></th<>	Bromoform		NGV	U	U	U	U	U	U	U	U	U
Carbon tetrachloride         63,704         NGV         20         U         7.5         U <th< td=""><td>Bromomethane</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>_</td></th<>	Bromomethane			-	-	-	-	-	-	-	-	_
Chiorobenzene         350,000         NGV         U					-		-		-	_	-	_
Chlorosthane         2,60,000         NGV         U			-				-	-				_
Chlorodram         240,000         NGV         5.4         U         33         U         19         U         18         U         U           Chloromethane         100,000         NGV         3.9         1.3         0.68         1.3         0.97         1.3         0.33J         1.2         1.3           Gis1_2.D:chloroethane         5.000         NGV         U			-	-	-	-	-	-	-	-	-	_
Chloromethane         100,000         NGV         U         1.3         0.6         1.3         0.97         1.3         0.33J         1.2         1.3           cis-1,2-Dichlorograpene         5,000         NGV         U <thu< th=""> <thu< td=""><td>Chloroform</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>_</td></thu<></thu<>	Chloroform			-	-	-	-	-	-	-	-	_
cis-13-bichioropropene         5,000         NGV         U	Chloromethane		NGV	U	1.3	0.6	1.3	0.97	1.3	0.33J	1.2	1.3
Cyclohexane         1,650,000         NGV         U         0.722         U <td>cis-1,2-Dichloroethene</td> <td></td> <td></td> <td></td> <td>U</td> <td>0.48J</td> <td>U</td> <td></td> <td>-</td> <td></td> <td>-</td> <td>_</td>	cis-1,2-Dichloroethene				U	0.48J	U		-		-	_
Dibronchloromethane         87,000         NGV         U </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-		-		-			
Dichtorodifluoromethane         4,950,000         NGV         2.8         5.4         4         2.7         2.5         2.7         3.2         2.8         2.8           Ethyl Acetate         NS         NGV         2         4.7         5.8         4         3.65         12.60         1.2         39.4         5.5           Ethyl Acetate         NS         NGV         2         4.7         5.8         4         3.6         3.6         2.4         2.2         U           Ethyl Acetate         NS         NGV         U         1.4         1         0.96         1.5         1.2         U         0.74J         U           Freon-113         NS         NGV         U							-				-	_
Ethanol         1,900,000         NGV         18         558.J         13         33.5         28.8         126J         12         39.4         5.5           EthylAcetate         NS         NGV         2         4.7         5.8         4         3.6         3.6         24         2.2         U           EthylAcetate         NS         NGV         3.3         U         11         U         21         U         0.74J         U           Freon-113         NS         NGV         3.3         U         11         U				-	-	-	-	-			-	_
Ethyl Acetate         NS         NGV         2         4.7         5.8         4         3.6         3.6         2.4         2.2         U           Ethylbenzene         435,000         NGV         U         1.4         1         0.96         1.5         1.2         U         0.74J         U           Freon-113         NS         NGV         3.3         U         11         U         21         U												
Freen-113         NS         NGV         3.3         U         11         U         21         U         12         U         U           Freen-114         NS         NGV         U	Ethyl Acetate											
Freon-114         NS         NGV         U <t< td=""><td>Ethylbenzene</td><td></td><td></td><td>-</td><td>1.4</td><td>1</td><td>0.96</td><td></td><td>1.2</td><td>-</td><td>0.74J</td><td>U</td></t<>	Ethylbenzene			-	1.4	1	0.96		1.2	-	0.74J	U
HeptaneNSNGVU6.1U1.13.21.6U0.86UHexachlorobutadieneNSNGVUUU	Freon-113				-		-					_
Hexachlorobutadiene         NS         NGV         U					-		-		-		-	
Isopropanol         980,000         NGV         U         1.7         0.56J         1.1         2         2         U         0.88         0.42J           Methyl tert butyl terther         NS         NGV         2.9         152J         1.8         11         8.8         110J         2.3         15         0.71           Methylene chloride         87,933         NGV         U				-		-				-		_
Methyl tert butyl ether         NS         NGV         2.9         152J         1.8         11         8.8         110J         2.3         15         0.71           Methylene chloride         87,933         NGV         U <t< td=""><td>Isopropanol</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>_</td><td>-</td><td>-</td></t<>	Isopropanol			-	-	-	-			_	-	-
Methylene chloride         87,933         NGV         U <td>Methyl tert butyl ether</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	Methyl tert butyl ether			-						-		
o-Xylene         435,000         NGV         U         1.6         1.1         0.69J         1.4         0.96         U         0.65J         U           p/m-Xylene         435,000         NGV         0.56J         3.8         2.5         1.7         4         2.4         0.83J         1.5         0.56J           Propylene         NS         NGV         U         U         1.4         1.9         13         U         U         1.9         U           Styrene         NS         NGV         U         U         U         3.4         U <td>Methylene chloride</td> <td>87,933</td> <td>NGV</td> <td>-</td> <td>U</td> <td></td> <td>U</td> <td></td> <td>U</td> <td>U</td> <td>U</td> <td>U</td>	Methylene chloride	87,933	NGV	-	U		U		U	U	U	U
p/m-Xylene435,000NGV0.56J3.82.51.742.40.83J1.50.56JPropyleneNSNGVUU1.41.913UU1.9UStyreneNSNGVUUUU3.4UUUUTertiary Butyl Alcohol300,000NGVU2.1UUUUUUUTetrachloroethene678,000100.0281200.88261.31320.75UTetrachloroethene590,000NSUUUUUUUUUToluene754,000NS1.1148.7918132.43.41.5trans-1,2-Dichloroethene790,000NS0.99UUUUUUUUTrichloroethene537,000S.00844114641.27421.1436UUUTrichloroethaneNSNS1.72.7132.82.62.53.721.6Vinyl acetateNSNSNANANANANANANANANANAVinyl chlorideNSNSUUUUUUUUUU	n-Hexane											
Propylene         NS         NGV         U         U         1.4         1.9         13         U         U         1.9         U           Styrene         NS         NGV         U         U         U         U         3.4         U         U         U         U           Tertiary Butyl Alcohol         300,000         NGV         U         2.1         U	-			-								
Styrene         NS         NGV         U         U         U         U         3.4         U         U         U         U           Tertiary Butyl Alcohol         300,000         NGV         U         2.1         U <td></td>												
Tertiary Butyl Alcohol300,000NGVU2.1UUUUUUUUTetrachloroethene678,000100.0281200.88261.31320.75UTetrahydrofuran590,000NSUUUUUUUUUUUToluene754,000NS1.1148.7918132.43.41.5trans-1,2-Dichloroethene790,000NS0.99UUUUUUUUtrans-1,3-Dichloroptopene5,000NSUUUUUUUUUTrichloroethene537,0005.00844114641.27421.1436UUUTrichlorofluoromethaneNSNS1.72.7132.82.62.53.721.6Vinyl acetateNSNSUUUUUUUUUUUVinyl bromideNSNSNANANANANANANANANANAVinyl chloride3,000NSUUUUUUUUUU												
Tetrachloroethene678,000100.0281200.88261.31320.75UTetrahydrofuran590,000NSUUUUUUUUUToluene754,000NS1.1148.7918132.43.41.5trans-1,2-Dichloroethene790,000NS0.99UUUUUUUUUtrans-1,3-Dichloropropene5,000NSUUUUUUUUUUTrichloroethene537,000S.008441146441.27421.1436UUUTrichlorofluoromethaneNSNS1.72.7132.82.62.53.721.6Vinyl acetateNSNSUUUUUUUUUUUVinyl chlorideNSNSNANANANANANANANANANAVinyl chloride3,000NSUU<	-			-	-	-	-			_		
Toluene         754,000         NS         1.1         14         8.7         9         18         13         2.4         3.4         1.5           trans-1,2-Dichloroethene         790,000         NS         0.99         U				-		-	-		-	-	-	_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-			-								
trans-1,3-Dichloropropene         5,000         NS         U <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
Trichloroethene         537,000         5.00         844         11         464         1.2         742         1.1         436         U         U           Trichlorofluoromethane         NS         NS         NS         1.7         2.7         13         2.8         2.6         2.5         3.7         2         1.6           Vinyl acetate         NS         NS         U						-	-					
Trichlorofluoromethane         NS         NS         1.7         2.7         13         2.8         2.6         2.5         3.7         2         1.6           Vinyl acetate         NS         NS         U					-	-	-	-	-	-	-	_
Vinyl acetate         NS         NS         U												_
Vinyl bromide         NS         NS         NA	Vinyl acetate											
	Vinyl bromide	NS	NS	NA	NA	NA	NA	NA	NA		NA	NA
Xylenes (total) 435,000 NS 0.56J 5.2 3.6 2.3 5.2 3.4 0.83J 2.2 0.56J	Vinyl chloride			-								_
	Xylenes (total)	435,000	NS	0.56J	5.2	3.6	2.3	5.2	3.4	0.83J	2.2	0.56J

#### 110103.

All units are in (ug/m<sup>3</sup>)

1: PELs Permissible Exposure Limits For Chemicals In Indoor Air: United States Department of Labor - Occupational Health & Safety Administration: http://www.osha.gov/SLTC/pel/

2: New York State Department of Health: Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006: Table 3.1 Air Guideline Values Derived By The NYSDOH NGV = No Guidance Value

### **ATTACHMENTS**

## ATTACHMENT 1 - INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY, AND PRODUCT INVENTORY FORMS

ATTACHMENT 2 - DATA VALIDATION REPORT

## ATTACHMENT 3 – ACCUTEST LABORATORIES ASP CATEGORY B LABORATORY DATA DELIVERABLE (ON CD)

## ATTACHMENT 1 - INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY, AND PRODUCT INVENTORY FORMS

	NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR	AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
	CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Karen Pickering Date/Time Prepared
Preparer's Name Karen Pickering Date/Time Prepared 03/16/09 Preparer's Affiliation ERM Phone No. (631) 756-8900
Purpose of Investigation Legacy Site
1. OCCUPANT:
Interviewed: Y/D
Last Name: Nick Vernaci First Name:
Address: 288 Gruman Road, West Bethpage, NY 11714
County: Nassau
Home Phone: Office Phone: 516) 803-0132
Number of Occupants/persons at this location 500 + Age of Occupants 18-60 (in 2 shifts)
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: ⑦/ N
Last Name: Lumpe First Name: Kevin
Address: 700 Hicksville Rd. Bethpage, NY 11714
County: Nassau
Home Phone: Office Phone: (516) 576-3165
3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential Industrial School Church Commercial/Multi-use

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		-	
If the property is residentia	ll, type? (Circle appropria	te response)	
Ranch Raised Ranch Cape Cod Duplex Modular	2-Family Split Level Contemporary Apartment House Log Home	3-Family Colonial Mobile Home Townhouses/Condos Other:	
If multiple units, how man	y?		
If the property is commerc			
Business Type(s)	S Postal Se	ervice	
Does it include residen	ces (i.e., multi-use)? Y 🖊	N If yes, how many?	
Other characteristics:			
Number of floors	Buil	ding age 70 Yrs	
Is the building insulate	d V/N Hov	v air tight? Tight / Average / Not Tight)	
4. AIRFLOW Use air current tubes or t	racer smoke to evaluate	airflow patterns and qualitatively describe:	
Airflow between floors		· · · · ·	
Airflow near source			<u></u> ,,
Outdoor air infiltration			
Infiltration into air ducts			

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a. Above grade construction	: wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other
c. Basement floor:	concrete	dirt	stone	other
d. Basement floor:	uncovered	covered	covered with	
e, Concrete floor:	unsealed	sealed	sealed with _	
f. Foundation walls:	poured	block	stone	other
g. Foundation walls:	unsealed	sealed	sealed with	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially fini	shed
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable	,		

3

Basement/Lowest level depth below grade: \_\_\_\_\_(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

# 6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump Stream radiation Wood stove Hot water baseboard Radiant floor Outdoor wood boiler

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No Boile

The primary type of fuel used is:

Natural Gas Electric Wood Fuel Oil Propane Coal Kerosene Solar

Main Floor

Natural Gas/Electric Domestic hot water tank fueled by:

Central Air

Boiler/furnace located in:

Basement Outdoors

Air conditioning:

Window units Open Windows

None

Other

## Are there air distribution ducts present?

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Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

YN N

Rooftop Mounted equipment. Supply and return
- La la Golf dack with approx. 10-12 of
Vertical Duct and 4 way attuser on suppry
and single return.

#### 7. OCCUPANCY

1. 0000000					
Is basement/l	owest level occupied?	Full-time	Occasionally	Seldom	Almost Never
<u>Level</u>	<u>General Use of Each</u>	Floor (e.g., f	amilyroom, bedro	oom, laundry.	workshop, storage)
Basement					
1 <sup>st</sup> Floor	Slab on gr throughou	ade. Pou	<u>ckage Dist</u> i 1 Helgna t	$r_{1}$ but ion_	Conveyors
2 <sup>nd</sup> Floor	Partial Mezz	<u>anine</u> o	ffice		
3 <sup>rd</sup> Floor	NA				
4 <sup>th</sup> Floor	NA				
8. FACTOR	RS THAT MAY INFLU	JENCE INDO	OR AIR QUALIT	ry 2	
a. Is there	e an attached garage?			Y N	
b. Does tl	he garage have a separa	ate heating uni	t?	Y/N/	D
e Åre ne	troleum-powered mach in the garage (e.g., law	nines or vehicle	S		ecify
	e building ever had a f			<u> </u>	/hen?
e, Is a ke	erosene or unvented gas	s space heater ]	present?		Vhere?
	e a workshop or hobby		Y /	Where &	Туре?
	re smoking in the build		Υ/	How free	Typicel Detergents Type? WD40, Degreasers
h. Have	cleaning products been	n used recently	? ()	'N When &	Type? WD40, Degreasers
			*7	When &	Туре?

i. Have cosmetic products been used recently?

5	
j. Has painting/staining been done in the last 6 months?	Y N Where & When?
k. Is there new carpet, drapes or other textiles?	Y N Where & When?
1. Have air fresheners been used recently?	Y (N) When & Type?
m. Is there a kitchen exhaust fan?	Y (N) If yes, where vented?
n. Is there a bathroom exhaust fan?	(Y) N If yes, where vented? KOF
o. Is there a clothes dryer?	Y (N If yes, is it vented outside? Y / N
p. Has there been a pesticide application?	Y N When & Type?
Are there odors in the building? If yes, please describe:	Y (N)
<b>Do any of the building occupants use solvents at work?</b> (e.g., chemical manufacturing or laboratory, auto mechanic or boiler mechanic, pesticide application, cosmetologist	Y/N UNKOWN 500 + emplored auto body shop, painting, fuel oil delivery, in Z
If yes, what types of solvents are used?	
If yes, are their clothes washed at work?	Y / N
Do any of the building occupants regularly use or work a response) Yes, use dry-cleaning regularly (weekly)	No
Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	Unknown
Is there a radon mitigation system for the building/struct Is the system active or passive? Active/Passive	ture? Y / Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Dr	riven Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Le	each Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill reside	
a. Provide reasons why relocation is recommended:	
b. Residents choose to: remain in home relocate t	to friends/family relocate to hotel/motel
c. Responsibility for costs associated with reimburs	ement explained? Y / N
c. Responsibility for costs account	ement explained? 1711

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### 11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

### **Basement:**

12.2.2

5 - 4

#### **First Floor:**

6

### **12. OUTDOOR PLOT**

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

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## 13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: \_\_\_\_\_\_

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition <sup>*</sup>	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y / N</u>
					· · · · · · · · · · · · · · · · · · ·	_
						_
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\* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)** \*\* Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

### ATTACHMENT 2 - DATA VALIDATION REPORT

Environmental Resources Management

### DATA USABILITY SUMMARY REPORT (DUSR) STEEL EQUITIES SOIL VAPOR INTRUSION INVESTIGATION INTERIOR BUILDING AREAS NEAR PHASE II AREA NOS. 25 & 46, AND OFFICE/BREAK ROOM AREAS FORMER GRUMMAN PLANT 2, BETHPAGE, NEW YORK ENVIRONMENTAL RESOURCES MANAGEMENT (ERM) PROJECT NUMBER 0072943 ACCUTEST LABORATORIES JOB NUMBER JA14410

### Deliverables:

The above referenced data packages for nine (9) air samples contains all the required deliverables as stipulated under the 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) Category B deliverables. The sample were analyzed following "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition 1997, EPA/625/R-96/010B", Compendium Method TO-15, "Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)". The data have been evaluated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region 2 Data Review Standard Operating Procedure (SOP) Number HW-31, Revision 4, October 2006: Validating Volatile Organic Analysis of Ambient Air in canister by Method TO-15 and the reviewer's professional judgment.

This report pertains to the following air samples collected on 16 March 2009:

<u>ERM Sample ID</u>		
SS-07	IA-10	SS-09
IA-08	IA-07	SS-10
IA-09	SS-08	AA-01

The following items/criteria were reviewed:

- Case narrative and deliverable compliance
- Chain-of-Custody (COC)
- Holding times
- Canister Certification/Pressures

- Surrogate compound recoveries, summary and data
- Method blank summary and data
- Blank Spike/Blank Spike Duplicate recoveries, summary and data
- Laboratory Duplicate Sample recoveries, summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Report of Analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra, and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were in compliance with the analytical methods and with the ASP and USEPA criteria with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

### Chains-of-Custody

- The Chains-of-Custody (COCs) were reviewed for completeness and accuracy. There were no discrepancies observed with the samples presented on the COC, and all tests specified on the COC were performed for the designated samples.
- Ethanol and Isopropyl Alcohol were reported in samples IA-07 and IA-09 with an "E" qualifier. This indicates that the concentration of Ethanol and Isopropyl Alcohol in these samples was above the calibration range of the instrument. The samples were not reanalyzed by the laboratory for Ethanol and Isopropyl Alcohol as these compounds are suspected to be contaminants possibly present since they are routinely added to the gas cylinders supplied by the commercial standard suppliers. These compounds are not of concern at the site. The values are considered estimated and have been qualified "J". The values are still useable as an estimated positive detects.
- The table below lists samples containing compounds that were reported from diluted analyses due to the elevated concentrations of those compounds in the initial analyses of these samples. The dilutions were justified. No qualification of the sample data is required.

Sample	Compounds
SS-07	trichloroethene
SS-08	trichloroethene
SS-09	acetone, trichloroethene, 1,1,1-trichloroethane
SS-10	trichloroethene, 1,1,1-trichloroethane

 The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) and compounds that exceeded 25 percent difference (%D) between the ICAL average RRF and the continuing calibration verification (CCV) RRF. Calibrations applicable to QC samples only have not been included. Associated field samples are also listed. Positive results for these compounds in the associated samples are considered estimated and qualified "J" while non-detect results do not require qualification.

Calibration	Compound	Deficiency	Associated Samples
ICAL 03/18/2009 11:01-20:32	1,2,4-trichlorobenzene	%RSD=36.9	SS-07DL, SS-08DL
CCV 03/20/2009 @ 08:38	2,2,4-trimethylpentane tetrachloroethylene	%D=27.9 %D=36.1	SS-07DL, SS-08DL

 The laboratory reported Xylenes (total) as well as m+p-Xylene and o-Xylene on the Form Is. The NYSDEC Division of Environmental Remediation (DER) has developed a TO-15 Target Compound List (TCL) and Xylenes (total) is not part. Xylenes (total) have been manually crossed off the Form Is. No qualification of the sample data is required.

### Package Summary:

All data are valid and usable with qualifications as noted in this review.

AndofCoursen

Signed:

Dated: 01 April 2009

Andrew J. Coenen ERM QA Officer

Report of Analysis										Pag	Page 1 of 3		
Client Sam Lab Sample Matrix: Method: Project:	e ID:	SS-07 JA14410-1 AIR - Air Sum TO-15 Steel Equities, SVI	ma ID: A90 Former Gru		Dat Per	e Sampl e Receiv cent Soli mman Re	ed: 03 ids: n/		/09				
Run #1 Run #2	File ID 3W1037 W20720		Analyzed 03/25/09 03/20/09	By BR YMH	Prep n/a n/a	Date	Pre n/a n/a		atch	Analytical V3W430 VW879	Batch		
			00/20/00		n/ u								
Run #1 Run #2	Initial V 400 ml 50.0 ml	oume											
CAS No.	MW	Compound		Result	RL	MDL	Units	Q	Result	RL	Units		
67-64-1 106-99-0 71-43-2	$58.08 \\ 54.09 \\ 78.11$	Acetone 1,3-Butadiene Benzene		5.0 ND 0.17	$0.20 \\ 0.20 \\ 0.20$	$0.044 \\ 0.054 \\ 0.017$	ppbv ppbv ppbv	J	12 ND 0.54	$0.48 \\ 0.44 \\ 0.64$	ug/m3 ug/m3 ug/m3		
75-27-4 75-25-2	$\begin{array}{c} 163.8\\ 252.8\end{array}$	Bromodichlorome Bromoform	thane	ND ND	$\begin{array}{c} 0.040 \\ 0.040 \end{array}$	$0.023 \\ 0.029$	ppbv ppbv	J	ND ND	$\begin{array}{c} 0.27 \\ 0.41 \end{array}$	ug/m3 ug/m3		
74-83-9 593-60-2 100-44-7	$94.94 \\ 106.9 \\ 126$	Bromomethane Bromoethene Benzyl Chloride		ND ND ND	0.20 0.20 0.20	$\begin{array}{c} 0.031 \\ 0.032 \\ 0.037 \end{array}$	ppbv ppbv ppbv		ND ND ND	$0.78 \\ 0.87 \\ 1.0$	ug/m3 ug/m3 ug/m3		
75-15-0 108-90-7 75-00-3	$76.14 \\ 112.6 \\ 64.52$	Carbon disulfide Chlorobenzene Chloroethane		1.5 ND ND	0.20 0.20 0.20	$0.018 \\ 0.028 \\ 0.026$	ppbv ppbv ppbv		4.7 ND ND	0.62 0.92 0.53	ug/m3 ug/m3 ug/m3		
67-66-3 74-87-3 107-05-1	$119.4 \\ 50.49 \\ 76.53$	Chloroform Chloromethane 3-Chloropropene		1.1 ND ND	0.20 0.20 0.20	0.021 0.039 0.029	ppbv ppbv ppbv		5.4 ND ND	$0.98 \\ 0.41 \\ 0.63$	ug/m3 ug/m3 ug/m3		
95-49-8 56-23-5	$126.6 \\ 153.8$	2-Chlorotoluene Carbon tetrachlor	ide	ND 3.1	$\begin{array}{c} 0.20 \\ 0.040 \end{array}$	$0.022 \\ 0.027$	ppbv ppbv		ND 20	$1.0 \\ 0.25$	ug/m3 ug/m3		
110-82-7 75-34-3 75-35-4	$84.16 \\98.96 \\96.94$	Cyclohexane 1,1-Dichloroethar 1,1-Dichloroethyl		ND 0.71 ND	0.20 0.20 0.20	$0.034 \\ 0.021 \\ 0.040$	ppbv ppbv ppbv		ND 2.9 ND	0.69 0.81 0.79	ug/m3 ug/m3 ug/m3		
106-93-4 107-06-2 78-87-5	187.9 98.96 113	1,2-Dibromoethar 1,2-Dichloroethar 1,2-Dichloroprop	ne	ND ND ND	0.040 0.20 0.20	0.030 0.038 0.029	ppbv ppbv ppbv		ND ND ND	0.31 0.81 0.92	ug/m3 ug/m3 ug/m3		
123-91-1 75-71-8	88.12 120.9	1,4-Dioxane Dichlorodifluoron	nethane	ND 0.57	0.20 0.20	$\begin{array}{c} 0.046 \\ 0.030 \end{array}$	ppbv ppbv		ND 2.8	$0.72 \\ 0.99$	ug/m3 ug/m3		
124-48-1 156-60-5 156-59-2	208.3 96.94 96.94	Dibromochloromo trans-1,2-Dichloro cis-1,2-Dichloroe	oethylene	ND 0.25 0.99	0.040 0.20 0.20	$0.019 \\ 0.023 \\ 0.028$	ppbv ppbv ppbv		ND 0.99 3.9	0.34 0.79 0.79	ug/m3 ug/m3 ug/m3		
10061-01-5 541-73-1	$\frac{111}{147}$	cis-1,3-Dichlorop m-Dichlorobenzer	ropene ne	ND ND	$\begin{array}{c} 0.20 \\ 0.10 \end{array}$	$\begin{array}{c} 0.027\\ 0.044\end{array}$	ppbv ppbv		ND ND	$\begin{array}{c} 0.91 \\ 0.60 \end{array}$	ug/m3 ug/m3		
95-50-1 106-46-7 10061-02-6	147 147 111	o-Dichlorobenzen p-Dichlorobenzen trans-1,3-Dichloro	e	ND 0.25 ND	$0.040 \\ 0.10 \\ 0.20$	$0.040 \\ 0.044 \\ 0.032$	ppbv ppbv ppbv		ND 1.5 ND	$0.24 \\ 0.60 \\ 0.91$	ug/m3 ug/m3 ug/m3		

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

J = Indicates an estimated value

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Report of Analysis

Client Samp Lab Sample Matrix: Method: Project:		SS-07 JA14410-1 AIR - Air Summa ID: A TO-15 Steel Equities, SVI Former (		Dat Per	e Sample e Receiv cent Soli mman Ro	ed: 03 ds: n/:		/09		
CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	9.5	0.50	0.047	ppbv		18	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.56	0.20	0.046	ppbv		2.0	0.72	ug/m
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.036	ppbv		ND	0.98	ug/m
76-13-1	187.4	Freon 113	0.43	0.040	0.020	ppbv		3.3	0.31	ug/m
76-14-2	170.9	Freon 114	ND	0.040	0.027	ppbv		ND	0.28	ug/m
142-82-5	100.2	Heptane	ND	0.20	0.021	ppbv		ND	0.82	ug/m
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv		ND	0.96	ug/m
110-54-3	86.17	Hexane	ND	0.20	0.054	ppbv		ND	0.70	ug/m
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m
67-63-0	60.1	Isopropyl Alcohol	1.2	0.20	0.036	ppbv		2.9	0.49	ug/m
75-09-2	84.94	Methylene chloride	0.14	0.20	0.040	ppbv	J	0.49	0.69	ug/m
78-93-3	72.11	Methyl ethyl ketone	0.65	0.20	0.039	ppbv	5	1.9	0.59	ug/m
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv		ND	0.82	ug/m
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv		ND	0.72	ug/m
115-07-1	42	Propylene	ND	0.50	0.053	ppbv		ND	0.86	ug/m
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv		ND	0.85	ug/m
71-55-6	133.4	1,1,1-Trichloroethane	8.8	0.040	0.026	ppbv		48	0.22	ug/m
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv		ND	0.27	ug/m
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv		ND	0.22	ug/m
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv		ND	0.74	ug/m
	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m
95-63-6			ND	0.20	0.024	ppbv		ND	0.98	ug/m
108-67-8	120.2	1,3,5-Trimethylbenzene						ND	0.93	ug/m
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.026	ppbv		ND	0.53	
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.027	ppbv			0.01	ug/m
127-18-4	165.8	Tetrachloroethylene	4.1	0.040	0.027	ppbv		28 ND		ug/m
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.027	ppbv		ND	0.59	ug/m
108-88-3	92.14	Toluene	0.28	0.20	0.020	ppbv		1.1	0.75	ug/n
79-01-6	131.4	Trichloroethylene	157 a	0.32	0.23	ppbv		844 a	1.7	ug/n
75-69-4	137.4	Trichlorofluoromethane	0.31	0.040	0.029	ppbv		1.7	0.22	ug/m
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv		ND	0.51	ug/n
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv		ND	0.70	ug/n
	106.2	m,p-Xylene	0.13	0.20	0.10	ppbv	J	0.56	0.87	ug/m
95-47-6	106.2	o-Xylene	ND	0.20	0.026	ppbv		ND	0.87	ug/m
1330-20-7	106.2	Xylenes (total)	0.13	0.20	0.026	ppbv	J	0.56	0.87	ug/m
CAS No.	Surro	gate Recoveries Ru	n#1 Run	#2 I	imits					
460-00-4 a - 1	4-Bro	mofluorobenzene 909	% 93%	5 7	8-124%					

RL = Reporting LimitE = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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		Re	port of A	Analysi	S			Pag	ge 1 of 2
Client Samj Lab Sample Matrix: Method: Project:		IA-08 JA14410-2 AIR - Air Summa ID: A TO-15 Steel Equities, SVI Former C		Dat Per	e Sample e Receiv cent Soli mman Ro	ed: 03/1 ds: n/a	8/09		
Run #1 Run #2	File ID 3W1037	DF Analyzo 79.D 1.55 03/25/0		Prep n/a	Date	Prep n/a	Batch	Analytical V3W430	Batch
Run #1 Run #2	Initial V 620 ml	Jolume							
CAS No.	MW	Compound	Result	RL	MDL	Units Q	Result	RL	Units
67-64-1	58.08	Acetone	5.3	0.20	0.044	ppbv	13 ND	0.48	ug/m
106-99-0	$54.09 \\ 78.11$	1,3-Butadiene	ND 0.43	$0.20 \\ 0.20$	$\begin{array}{c} 0.054 \\ 0.017 \end{array}$	ppbv	1.4	$\begin{array}{c} 0.44 \\ 0.64 \end{array}$	ug/m
71-43-2 75-27-4	163.8	Benzene Bromodichloromethane	0.43 ND	0.20	0.023	ppbv ppbv	ND	0.04	ug/m ug/m
75-25-2	252.8	Bromoform	ND	0.040	0.023	ppbv ppbv	ND	0.21	ug/m
74-83-9	94.94	Bromomethane	ND	0.20	0.025 0.031	ppbv	ND	0.41	ug/m
593-60-2	106.9	Bromoethene	ND	0.20	0.031	ppbv	ND	0.87	ug/m
100-44-7	126	Benzyl Chloride	ND	0.20	0.037	ppbv	ND	1.0	ug/m
75-15-0	76.14	Carbon disulfide	ND	0.20	0.018	ppbv	ND	0.62	ug/m
108-90-7	112.6	Chlorobenzene	ND	0.20	0.028	ppbv	ND	0.92	ug/m
75-00-3	64.52	Chloroethane	ND	0.20	0.026	ppbv	ND	0.53	ug/m
67-66-3	119.4	Chloroform	ND	0.20	0.021	ppbv	ND	0.98	ug/m
74-87-3	50.49	Chloromethane	0.64	0.20	0.039	ppbv	1.3	0.41	ug/m
107-05-1	76.53	3-Chloropropene	ND	0.20	0.029	ppbv	ND	0.63	ug/m
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv	ND	1.0	ug/m
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.027	ppbv	ND	0.25	ug/m
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.021	ppbv	ND	0.81	ug/m
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.040	ppbv	ND	0.79	ug/m
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.030	ppbv	ND	0.31	ug/m
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.038	ppbv	ND	0.81	ug/m
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv	ND	0.92	ug/m
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.046	ppbv	ND	0.72	ug/m
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.20	0.030	ppbv	2.7	0.99	ug/m
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.019	ppbv	ND	0.34	ug/m
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.023	ppbv	ND	0.79	ug/m
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	ug/m
10061-01-5		cis-1,3-Dichloropropene	ND	0.20	0.027	ppbv	ND	0.91	ug/m
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.044	ppbv	ND	0.60	ug/m
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.040	ppbv	ND	0.24	ug/m
106-46-7	147	p-Dichlorobenzene	0.26	0.10	0.044	ppbv	1.6	0.60	ug/m
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.032	ppbv	ND	0.91	ug/m

ND = Not detectedMDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting LimitE = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



3.2

**Report of Analysis** 

Client Samı Lab Sample Matrix: Method: Project:		IA-08 JA14410-2 AIR - Air Summa ID: A9 TO-15 Steel Equities, SVI Former G		Date	e Sample e Receiv cent Soli nman Ro	ed: 03/18/ ds: n/a	09		
CAS No.	MW	Compound	Result	RL	MDL	Units Q	Result	RL	Units
64-17-5	46.07	Ethanol	17.8	0.50	0.047	ppbv	33.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.22	0.20	0.018	ppbv	0.96	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.046	ppbv	4.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.036	ppbv	ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.040	0.020	ppbv	ND	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.027	ppbv	ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.28	0.20	0.021	ppbv	1.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv	ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.31	0.20	0.054	ppbv	1.1	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv	ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.6	0.20	0.036	ppbv	11	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.32	0.20	0.040	ppbv	1.1	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.92	0.20	0.039	ppbv	2.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv	ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv	ND	0.72	ug/m3
115-07-1	42	Propylene	1.1	0.50	0.053	ppbv	1.9	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv	ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.040	0.026	ppbv	ND	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv	ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv	ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv	ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv	ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.021	ppbv	ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.21	0.20	0.026	ppbv	0.98	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.027	ppbv	ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.13	0.040	0.027	ppbv	0.88	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.027	ppbv	ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.4	0.20	0.020	ppbv	9.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.23	0.040	0.029	ppbv	1.2	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.49	0.040	0.029	ppbv	2.8	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv	ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv	ND	0.70	ug/m3
	106.2	m,p-Xylene	0.38	0.20	0.10	ppbv	1.7	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.16	0.20	0.026	ppbv J	0.69	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	0.026	ppbv	2.3	0.87	ug/m
CAS No. 460-00-4		gate Recoveries Runs mofluorobenzene 97%	#1 Run		/imits 8-124%				

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting LimitE = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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Report of Analysis										Page 1 of 2		
Client Samj Lab Sample Matrix: Method: Project:	e ID:	IA-09 JA14410-3 AIR - Air Summa ID: A8 TO-15 Steel Equities, SVI Former Gr		Dat	e Sample e Receiv cent Soli mman Ro	ed: 03/ ds: n/a		09				
Run #1 Run #2	File ID 3W1038	DF Analyzed 0.D 1 03/25/09	By BR	Prep n/a	Date	Pre n/a	pВ	atch	Analytical V3W430	Batch		
Run #1 Run #2	Initial N 400 ml	/olume										
CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units		
67-64-1	58.08	Acetone	11.4	0.20	0.044	ppbv		27.1	0.48	ug/m3		
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.054	ppbv		ND	0.44	ug/m3		
71-43-2	78.11	Benzene	0.54	0.20	0.017	ppbv		1.7	0.64	ug/m3		
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3		
75-25-2	252.8	Bromoform	ND	0.040	0.029	ppbv		ND	0.41	ug/m3		
74-83-9	94.94	Bromomethane	ND	0.20	0.031	ppbv		ND	0.78	ug/m3		
593-60-2	106.9	Bromoethene	ND	0.20	0.032	ppbv		ND	0.87	ug/m3		
100-44-7	126	Benzyl Chloride	ND	0.20	0.037	ppbv		ND	1.0	ug/m3		
75-15-0	76.14	Carbon disulfide	ND	0.20	0.018	ppbv		ND	0.62	ug/m3		
108-90-7	112.6	Chlorobenzene	ND	0.20	0.028	ppbv		ND	$0.92 \\ 0.53$	ug/m3		
75-00-3	64.52	Chloroethane	ND	0.20	0.026	ppbv		ND		ug/m3		
67-66-3	119.4	Chloroform	ND	0.20	0.021	ppbv		ND	$\begin{array}{c} 0.98 \\ 0.41 \end{array}$	ug/m3		
74-87-3	50.49	Chloromethane	0.65	0.20	0.039	ppbv		1.3 ND	0.41	ug/m3		
107-05-1	76.53	3-Chloropropene	ND	0.20	$0.029 \\ 0.022$	ppbv		ND	1.0	ug/m3		
95-49-8	126.6	2-Chlorotoluene	ND		0.022	ppbv		0.61	0.25	ug/m3 ug/m3		
56-23-5	153.8	Carbon tetrachloride	0.097	$0.040 \\ 0.20$	0.021	ppbv	т	0.62	0.25	ug/ma		
110-82-7	84.16	Cyclohexane	0.18 ND	0.20	0.034	ppbv	J	ND	0.81	ug/ma		
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.021	ppbv		ND	0.81	ug/ma		
75-35-4	96.94	1,1-Dichloroethylene 1,2-Dibromoethane	ND	0.20	0.040	ppbv ppbv		ND	0.75	ug/ma		
106-93-4	187.9	·····	ND	0.040	0.030	ppbv		ND	0.81	ug/ma		
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.038	ppbv		ND	0.92	ug/ma		
78-87-5	$113 \\ 88.12$	1,2-Dichloropropane	ND	0.20	0.025	ppbv		ND	0.72	ug/ma		
123-91-1 75-71-8	120.9	1,4-Dioxane Dichlorodifluoromethane	0.55	0.20	0.040	ppbv		2.7	0.99	ug/ma		
124-48-1	208.3	Dibromochloromethane	ND	0.20	0.030	ppbv		ND	0.34	ug/ma		
156-60-5	208.3 96.94	trans-1,2-Dichloroethylene	ND	0.20	0.023	ppbv		ND	0.79	ug/m3		
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3		
10061-01-5		cis-1,3-Dichloropropene	ND	0.20	0.027	ppbv		ND	0.91	ug/m3		
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.044	ppbv		ND	0.60	ug/m		
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.040	ppbv		ND	0.24	ug/m		
106-46-7	147	p-Dichlorobenzene	2.7	0.10	0.044	ppbv		16	0.60	ug/m		
10061-02-6		trans-1,3-Dichloropropene	ND	0.20	0.032	ppbv		ND	0.91	ug/m		

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



3.3

**Report of Analysis** 

Client Samj Lab Sample Matrix: Method: Project:		IA-09 JA14410-3 AIR - Air Summa ID: A TO-15 Steel Equities, SVI Former G		Dat Per	e Sample e Receiv cent Soli mman Ro	ed: 03 ds: n/			
CAS No.	MW	Compound	Result	RL	MDL	Units	Q Result	RL	Units
64-17-5	46.07	Ethanol	67.0	0.50	0.047	ppbv	<b>EJ</b> 126	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.28	0.20	0.018	ppbv	1.2	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.0	0.20	0.046	ppbv	3.6	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.036	ppbv	ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.040	0.020	ppbv	ND	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.027	ppbv	ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.38	0.20	0.021	ppbv	1.6	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv	ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.57	0.20	0.054	ppbv	2.0	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv	ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	44.7	0.20	0.036	ppbv	EJ110	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.34	0.20	0.040	ppbv	1.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.2	0.20	0.039	ppbv	3.5	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv	ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv	ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.053	ppbv	ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv	ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.26	0.040	0.026	ppbv	1.4	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv	ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv	ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv	ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.22	0.20	0.024	ppbv	1.1	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.021	ppbv	ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.76	0.20	0.026	ppbv	3.5	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.027	ppbv	ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.19	0.040	0.027	ppbv	1.3	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.027	ppbv	ND	0.59	ug/m3
108-88-3	92.14	Toluene	3.5	0.20	0.020	ppbv	13	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.21	0.040	0.029	ppbv	1.1	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.44	0.040	0.029	ppbv	2.5	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv	ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv	ND	0.70	ug/m3
200 00 1	106.2	m,p-Xylene	0.56	0.20	0.10	ppbv	2.4	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.22	0.20	0.026	ppbv	0.96	0.87	ug/m3
1330-20-7	106.2		0.78	0.20	0.026	ppbv	3.4	0.87	ug/m3
CAS No. 460-00-4	Surro	gate Recoveries Run mofluorobenzene 89%	#1 Run	#2 L	imits 8-124%	F.F.			

ND = Not detectedMDL - Method Detection Limit

J = Indicates an estimated value

 $\begin{array}{l} RL = Reporting \ Limit \\ E = Indicates \ value \ exceeds \ calibration \ range \end{array}$ 

B = Indicates analyte found in associated method blankN = Indicates presumptive evidence of a compound



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	Report of Analysis										
Client Samp Lab Sample Matrix: Method: Project:		IA-10 JA14410-4 AIR - Air Summa ID: A8 TO-15 Steel Equities, SVI Former Gr		Dat Per	e Sampl e Receiv cent Soli mman Ro	ed: 03/18 ds: n/a	/09				
Run #1 Run #2	File ID 3W1038	DF Analyzed 31.D 1 03/25/09		Prep n/a	Date	Prep E n/a	Batch	Analytical V3W430	Batch		
Run #1 Run #2	Initial V 400 ml	Volume									
CAS No.	MW	Compound	Result	$\mathbf{RL}$	MDL	Units Q	Result	RL	Units		
67-64-1	58.08	Acetone	3.9	0.20	0.044	ppbv	9.3	0.48	ug/m3		
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.054	ppbv	ND	0.44	ug/m3		
71-43-2	78.11	Benzene	0.40	0.20	0.017	ppbv	1.3	0.64	ug/m		
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.023	ppbv	ND	0.27	ug/m		
75-25-2	252.8	Bromoform	ND	0.040	0.029	ppbv	ND	0.41	ug/m		
74-83-9	94.94	Bromomethane	ND	0.20	0.031	ppbv	ND	0.78	ug/m		
593-60-2	106.9	Bromoethene	ND	0.20	0.032	ppbv	ND	0.87	ug/m		
100-44-7	126	Benzyl Chloride	ND	0.20	0.037	ppbv	ND	1.0	ug/m		
75-15-0	76.14	Carbon disulfide	ND	0.20	0.018	ppbv	ND	0.62	ug/m		
108-90-7	112.6	Chlorobenzene	ND	0.20	0.028	ppbv	ND	0.92	ug/m		
75-00-3	64.52	Chloroethane	ND	0.20	0.026	ppbv	ND	0.53	ug/m		
67-66-3	119.4	Chloroform	ND	0.20	0.021	ppbv	ND	0.98	ug/m		
74-87-3	50.49	Chloromethane	0.59	0.20	0.039	ppbv	1.2	0.41	ug/m		
107-05-1	76.53	3-Chloropropene	ND	0.20	0.029	ppbv	ND	0.63	ug/m		
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv	ND	1.0	ug/m		
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.027	ppbv	ND	0.25	ug/m		
110-82-7	84.16	Cyclohexane	ND	0.20	0.034	ppbv	ND	0.69	ug/m		
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.021	ppbv	ND	0.81	ug/m		
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.040	ppbv	ND	0.79	ug/m		
106 - 93 - 4	187.9	1,2-Dibromoethane	ND	0.040	0.030	ppbv	ND	0.31	ug/m		
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.038	ppbv	ND	0.81	ug/m		
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv	ND	0.92	ug/m		
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.046	ppbv	ND	0.72	ug/m		
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.20	0.030	ppbv	2.8	0.99	ug/m		
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.019	ppbv	ND	0.34	ug/m		
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.023	ppbv	ND	0.79	ug/m		
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	ug/m		
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.027	ppbv	ND	0.91	ug/m		
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.044	ppbv	ND	0.60	ug/m		
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.040	ppbv	ND	0.24	ug/m		
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.044	ppbv	ND	0.60	ug/m		
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.032	ppbv	ND	0.91	ug/m		

ND = Not detectedMDL - Method Detection Limit

RL = Reporting Limit

 $J\,=\,Indicates \;an\;estimated\;value$ 

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Report of A	nalysis
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Client Samj Lab Sample Matrix: Method: Project:		IA-10 JA14410-4 AIR - Air Summa ID: A TO-15 Steel Equities, SVI Former G		Dat Per	e Sample e Receiv cent Soli mman Ro	ed: 03 ds: n/		/09		
CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	20.9	0.50	0.047	ppbv		39.4	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.17	0.20	0.018	ppbv	J	0.74	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.61	0.20	0.046	ppbv		2.2	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.036	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.040	0.020	ppbv		ND	0.31	ug/m
76-14-2	170.9	Freon 114	ND	0.040	0.027	ppbv		ND	0.28	ug/m
142-82-5	100.2	Heptane	0.21	0.20	0.021	ppbv		0.86	0.82	ug/m
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv		ND	0.96	ug/m
110-54-3	86.17	Hexane	0.25	0.20	0.054	ppbv		0.88	0.70	ug/m
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m
67-63-0	60.1	Isopropyl Alcohol	6.2	0.20	0.036	ppbv		15	0.49	ug/m
75-09-2	84.94	Methylene chloride	0.21	0.20	0.040	ppbv		0.73	0.69	ug/m
78-93-3	72.11	Methyl ethyl ketone	0.71	0.20	0.039	ppbv		2.1	0.59	ug/m
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv		ND	0.82	ug/m
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv		ND	0.72	ug/m
115-07-1	42	Propylene	1.1	0.50	0.053	ppbv		1.9	0.86	ug/m
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv		ND	0.85	ug/m
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.040	0.026	ppbv		ND	0.22	ug/m
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv		ND	0.27	ug/m
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv		ND	0.22	ug/m
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv		ND	0.74	ug/m
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m
540-84-1	114.2	2,2,4-Trimethylpentane	0.18	0.20	0.026	ppbv	J	0.84	0.93	ug/m
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.027	ppbv	J	ND	0.61	ug/m
127-18-4	165.8	Tetrachloroethylene	0.11	0.040	0.027	ppbv		0.75	0.27	ug/m
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.027	ppbv		ND	0.59	ug/m
108-88-3	92.14	Toluene	0.89	0.20	0.020	ppbv		3.4	0.75	ug/m
79-01-6	131.4	Trichloroethylene	ND	0.040	0.029	ppbv		ND	0.21	ug/m
75-69-4	137.4	Trichlorofluoromethane	0.36	0.040	0.029	ppbv		2.0	0.22	ug/m
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv		ND	0.70	ug/m
100-00-4	106.2	m,p-Xylene	0.35	0.20	0.10	ppbv		1.5	0.87	ug/m
95-47-6	106.2	o-Xylene	0.15	0.20	0.026	ppbv	I	0.65	0.87	ug/m
1330-20-7	106.2	Xylenes (total)	0.15	0.20	0.020	ppbv	J	2.2	0.87	ug/m
						ppv	6	6.6	0.01	ug/m
CAS No.	Surro	gate Recoveries Run‡	∮1 Run	#2 L	imits					
460-00-4	4-Bron	mofluorobenzene 95%		7	8-124%					

MDL - Method Detection Limit ND = Not detected

J = Indicates an estimated value

 $\begin{array}{l} RL = Reporting \ Limit \\ E = Indicates \ value \ exceeds \ calibration \ range \end{array}$ 

 $\mathbf{B}$  = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



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Accutest Laboratories

			Rep	ort of A	Analysi	s			Pag	ge 1 of 2
Client Samp Lab Sample Matrix: Method: Project:		IA-07 JA14410-5 AIR - Air Summ TO-15 Steel Equities, SVI F	a ID: A90 ormer Gru		Dat Per	e Sampl e Receiv cent Soli mman Ro	ed: 03/ ds: n/a	16/09 18/09 page, NY		
File II Run #1 3W10 Run #2			Analyzed 03/25/09	By BR	Prep n/a	Date	Prep n/a	Batch	Analytical V3W430	Batch
Run #1 Run #2	Initial V 400 ml	Volume								
CAS No.	MW	Compound		Result	RL	MDL	Units	Q Result	RL	Units
67-64-1 106-99-0 71-43-2 75-27-4 75-25-2 74-83-9	58.08 54.09 78.11 163.8 252.8 94.94	Acetone 1,3-Butadiene Benzene Bromodichlorometh Bromoform Bromomethane	ane	23.0 ND 0.64 ND ND ND	$\begin{array}{c} 0.20 \\ 0.20 \\ 0.20 \\ 0.040 \\ 0.040 \\ 0.20 \end{array}$	0.044 0.054 0.017 0.023 0.029 0.031	ppbv ppbv ppbv ppbv ppbv ppbv	54.6 ND 2.0 ND ND ND	$\begin{array}{c} 0.48 \\ 0.44 \\ 0.64 \\ 0.27 \\ 0.41 \\ 0.78 \\ 0.78 \end{array}$	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3
593-60-2 100-44-7 75-15-0 108-90-7 75-00-3 67-66-3	$106.9 \\ 126 \\ 76.14 \\ 112.6 \\ 64.52 \\ 119.4$	Bromoethene Benzyl Chloride Carbon disulfide Chlorobenzene Chloroethane Chloroform		ND ND ND ND ND ND	$\begin{array}{c} 0.20 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.20 \end{array}$	$\begin{array}{c} 0.032 \\ 0.037 \\ 0.018 \\ 0.028 \\ 0.026 \\ 0.021 \end{array}$	ppbv ppbv ppbv ppbv ppbv ppbv	ND ND ND ND ND ND	$\begin{array}{c} 0.87 \\ 1.0 \\ 0.62 \\ 0.92 \\ 0.53 \\ 0.98 \end{array}$	ug/mä ug/mä ug/mä ug/mä ug/mä
74-87-3 107-05-1 95-49-8 56-23-5 110-82-7	50.49 76.53 126.6 153.8 84.16	Chloromethane 3-Chloropropene 2-Chlorotoluene Carbon tetrachloride Cyclohexane	e	0.63 ND ND ND 0.21	0.20 0.20 0.20 0.040 0.20	0.021 0.039 0.029 0.022 0.027 0.034	ppbv ppbv ppbv ppbv ppbv ppbv	1.3 ND ND ND 0.72	$\begin{array}{c} 0.33\\ 0.41\\ 0.63\\ 1.0\\ 0.25\\ 0.69\end{array}$	ug/m ug/m ug/m ug/m ug/m
75-34-3 75-35-4 106-93-4 107-06-2 78-87-5	98.96 96.94 187.9 98.96 113	1,1-Dichloroethane 1,1-Dichloroethylen 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloropropan		ND ND ND ND ND	0.20 0.20 0.040 0.20 0.20 0.20	0.034 0.021 0.040 0.030 0.038 0.029	ppbv ppbv ppbv ppbv ppbv ppbv	ND ND ND ND ND	0.81 0.79 0.31 0.81 0.92	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3
123-91-1 75-71-8 124-48-1 156-60-5	88.12 120.9 208.3 96.94	1,4-Dioxane Dichlorodifluorome Dibromochlorometh trans-1,2-Dichloroe	thane ane thylene	ND 1.1 ND ND	0.20 0.20 0.040 0.20	0.046 0.030 0.019 0.023	ppbv ppbv ppbv ppbv	ND 5.4 ND ND	0.72 0.99 0.34 0.79	ug/m3 ug/m3 ug/m3 ug/m3
156-59-2 10061-01-5 541-73-1 95-50-1 106-46-7 10061-02-6	96.94 111 147 147 147 147 111	cis-1,2-Dichloroethy cis-1,3-Dichloropro m-Dichlorobenzene o-Dichlorobenzene p-Dichlorobenzene trans-1,3-Dichlorop	pene	ND ND ND 15.2 ND	$0.20 \\ 0.20 \\ 0.10 \\ 0.040 \\ 0.10 \\ 0.20$	$\begin{array}{c} 0.028 \\ 0.027 \\ 0.044 \\ 0.040 \\ 0.044 \\ 0.032 \end{array}$	ppbv ppbv ppbv ppbv ppbv ppbv	ND ND ND 91.4 ND	$\begin{array}{c} 0.79 \\ 0.91 \\ 0.60 \\ 0.24 \\ 0.60 \\ 0.91 \end{array}$	ug/m3 ug/m3 ug/m3 ug/m3 ug/m3

ND = Not detectedMDL - Method Detection Limit

RL = Reporting Limit

J = Indicates an estimated value

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



		R	eport of A	Analysi	S			Pag	ge 2 of 2
Client Sam Lab Sampl Matrix: Method: Project:		IA-07 JA14410-5 AIR - Air Summa ID: TO-15 Steel Equities, SVI Former		Dat Per	e Sampl e Receiv cent Soli mman Ro	ed: 03 ids: n/			
CAS No.	MW	Compound	Result	RL	MDL	Units		RL	Units
64-17-5	46.07	Ethanol	296	0.50	0.047	ppbv	<b>KJ</b> 558	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.32	0.20	0.018	ppbv	1.4	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.3	0.20	0.046	ppbv	4.7	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.13	0.20	0.040	ppbv	J 0.64	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	0.030	ppbv	J 0.04 ND	0.31	ug/m3
76-13-1		Freon 114	ND	0.040	0.020		ND	0.31	
	170.9			0.20	0.021	ppbv	6.1	0.28	ug/m3 ug/m3
142-82-5	100.2	Heptane	1.5 ND			ppbv	ND		
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv		0.96	ug/m3
110-54-3	86.17	Hexane	0.48	0.20	0.054	ppbv	1.7 ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv	ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	61.7	0.20	0.036	ppbv	E 1152	0.49	ug/m
75-09-2	84.94	Methylene chloride	0.44	0.20	0.040	ppbv	1.5	0.69	ug/m
78-93-3	72.11	Methyl ethyl ketone	1.4	0.20	0.039	ppbv	4.1	0.59	ug/m
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv	ND	0.82	ug/m
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv	ND	0.72	ug/m
115-07-1	42	Propylene	ND	0.50	0.053	ppbv	ND	0.86	ug/m
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv	ND	0.85	ug/m
71-55-6	133.4	1,1,1-Trichloroethane	0.12	0.040	0.026	ppbv	0.65	0.22	ug/m
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv	ND	0.27	ug/m
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv	ND	0.22	ug/m
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv	ND	0.74	ug/m
95-63-6	120.2	1,2,4-Trimethylbenzene	0.54	0.20	0.024	ppbv	2.7	0.98	ug/m
108-67-8	120.2	1,3,5-Trimethylbenzene	0.14	0.20	0.021	ppbv	J 0.69	0.98	ug/m
540-84-1	114.2	2,2,4-Trimethylpentane	0.30	0.20	0.026	ppbv	1.4	0.93	ug/m
75-65-0	74.12	Tertiary Butyl Alcohol	0.69	0.20	0.027	ppbv	2.1	0.61	ug/m
127-18-4	165.8	Tetrachloroethylene	0.15	0.040	0.027	ppbv	1.0	0.27	ug/m
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.027	ppbv	ND	0.59	ug/m
108-88-3	92.14	Toluene	3.7	0.20	0.020	ppbv	14	0.75	ug/m
79-01-6	131.4	Trichloroethylene	2.0	0.040	0.029	ppbv	11	0.21	ug/m
75-69-4	137.4	Trichlorofluoromethane	0.48	0.040	0.029	ppbv	2.7	0.22	ug/m
75-01-4	62.5	Vinyl chloride	ND	0.20	0.031	ppbv	ND	0.51	ug/m
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv	ND	0.70	ug/m
	106.2	m,p-Xylene	0.87	0.20	0.10	ppbv	3.8	0.87	ug/m
95-47-6	106.2	o-Xylene	0.36	0.20	0.026	ppbv	1.6	0.87	ug/m
1330-20-7	106.2	Xylenes (total)	1.2	0.20	0.026	ppbv	5.2	0.87	ug/m
CAS No.	Surro	gate Recoveries Ru	n#1 Run	#2 L	imits				
460-00-4	4-Broi	mofluorobenzene 102	2%	7	8-124%				

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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			Rep	ort of A	nalysi	s			0	Pag	e 1 of 3
Client Samp Lab Sample Matrix: Method: Project:		SS-08 JA14410-6 AIR - Air Sun TO-15 Steel Equities, SV	nma ID: A90 Former Gru		Date	e Sample e Receiv cent Soli nman Ro	ed: 03 ds: n/s		/09		
	File ID	DF	Analyzed	Ву	Prep	Date	Pre	p B	atch	Analytical	Batch
Run #1	3W1038		03/25/09	BR	n/a		n/a			V3W430	
Run #2	W20721	.D 1	03/20/09	YMH	n/a		n/a			VW879	
D	Initial V	/olume									
Run #1 Run #2	400 ml 100 ml										
CAS No.	MW	Compound		Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone		15.3	0.20	0.044	ppbv		36.3	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene		ND	0.20	0.054	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene		0.15	0.20	0.017	ppbv	J	0.48	0.64	ug/m3
75-27-4	163.8	Bromodichlorom	ethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform		ND	0.040	0.029	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane		ND	0.20	0.031	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene		ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride		ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide		0.20	0.20	0.018	ppbv		0.62	0.62	ug/m3
108-90-7	112.6	Chlorobenzene		ND	0.20	0.028	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane		ND	0.20	0.026	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform		6.8	0.20	0.021	ppbv		33	0.98	ug/m3
74-87-3	50.49	Chloromethane		0.29	0.20	0.039	ppbv		0.60	0.41	ug/m3
107-05-1	76.53	3-Chloropropene		ND	0.20	0.029	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene		ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachlo	ride	1.2	0.040	0.027	ppbv		7.5	0.25	ug/m3
110-82-7	84.16	Cyclohexane		ND	0.20	0.034	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroetha		0.36	0.20	0.021	ppbv		1.5	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethy		0.11	0.20	0.040	ppbv	J	0.44	0.79	ug/m3
106 - 93 - 4	187.9	1,2-Dibromoetha		ND	0.040	0.030	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroetha		ND	0.20	0.038	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloroprop	ane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane		ND	0.20	0.046	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoro		0.80	0.20	0.030	ppbv		4.0	0.99	ug/m3
124-48-1	208.3	Dibromochlorom		ND	0.040	0.019	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichlor		ND	0.20	0.023	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloro		0.12	0.20	0.028	ppbv	J	0.48	0.79	ug/m3
10061-01-5		cis-1,3-Dichloro		ND	0.20	0.027	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenze		ND	0.10	0.044	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenze		ND	0.040	0.040	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenze		0.45	0.10	0.044	ppbv		2.7	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichlo	ropropene	ND	0.20	0.032	ppbv		ND	0.91	ug/m3

ND = Not detectedMDL - Method Detection Limit

RL = Reporting Limit

J = Indicates an estimated value

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

17 of 653 TEST. JA14410 Laboratorie

**Report of Analysis** 

/16/09 /18/09 a hpage, NY		
Q Resul	t RL	Units
13	0.94	ug/m3
1.0	0.87	ug/m3
5.8	0.72	ug/m3
ND	0.98	ug/m3
11	0.31	ug/m3
ND	0.28	ug/m3
ND	0.82	ug/m3
ND	0.96	ug/m3
J 0.56	0.70	ug/m3
ND	0.82	ug/m3
1.8	0.49	ug/m3
2.9	0.69	ug/m3
4.7	0.59	ug/m3
7.0	0.82	ug/m3
ND	0.72	ug/m3
1.4	0.86	ug/m3
ND	0.85	ug/m3
44	0.22	ug/m3
ND	0.27	ug/m3
ND	0.22	ug/m3
ND	0.74	ug/m3
1.1	0.98	ug/m3
ND	0.98	ug/m
ND	0.93	ug/m3
ND	0.61	ug/m
20	0.27	ug/m3
ND	0.59	ug/m3
8.7	0.75	ug/m3
464 a		ug/m
13	0.22	ug/m
ND	0.51	ug/m
ND	0.70	ug/m
2.5	0.87	ug/m
1.1	0.87	ug/m
		ug/m
5.0	0,01	ug/m
t	3.6 ed value	

ND = Not detectedMDL - Method Detection Limit

RL = Reporting Limit

 $\begin{array}{l} J = \mbox{ Indicates an estimated value} \\ B = \mbox{ Indicates analyte found in associated method blank} \\ N = \mbox{ Indicates presumptive evidence of a compound} \end{array}$ 

E = Indicates value exceeds calibration range



	Client Sample ID: SS-09											Page 1 of 3		
Client Sam Lab Sample Matrix: Method: Project:									/09					
						By Prep Date BR n/a			ep B	atch	Analytical Batch V3W430			
Run #2	3W1039	3.D	1.48	03/26/09	$\mathbf{BR}$	n/a		n/a			V3W430			
Run #1 Run #2	Initial V 592 ml 74.0 ml													
CAS No.	MW	Comp	ound		Result	RL	MDL	Units	Q	Result	RL	Units		
67-64-1	58.08	Aceto			136 <sup>a</sup>	1.6	0.35	ppbv		323 a	3.8	ug/m3		
106-99-0	54.09	1,3-B	utadiene		ND	0.20	0.054	ppbv		ND	0.44	ug/m3		
71-43-2	78.11	Benze			1.5	0.20	0.017	ppbv		4.8	0.64	ug/m3		
75-27-4	163.8		odichlorom	ethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3		
75-25-2	252.8	Brom			ND	0.040	0.029	ppbv		ND	0.41	ug/m3		
74-83-9	94.94		omethane		ND	0.20	0.031	ppbv		ND	0.78	ug/m3		
593-60-2	106.9		pethene		ND	0.20	0.032	ppbv		ND	0.87	ug/m3		
100-44-7	126		l Chloride		ND	0.20	0.037	ppbv		ND	1.0	ug/m3		
75-15-0	76.14		n disulfide		1.2	0.20	0.018	ppbv		3.7	0.62	ug/m3		
108-90-7	112.6		obenzene		ND	0.20	0.028	ppbv		ND	0.92	ug/m3		
75-00-3	64.52		oethane		ND	0.20	0.026	ppbv		ND	0.53	ug/m3		
67-66-3	119.4	Chlor			3.8	0.20	0.021	ppbv		19	0.98	ug/m3		
74-87-3	50.49		omethane		0.47	0.20	0.039	ppbv		0.97	0.41	ug/m3		
107-05-1	76.53		oropropene		ND	0.20	0.029	ppbv		ND	0.63	ug/m3		
95-49-8	126.6		orotoluene		ND	0.20	0.022	ppbv		ND	1.0	ug/m3		
56-23-5	153.8		n tetrachlor	ride	0.28	0.040	0.027	ppbv		1.8	0.25	ug/m3		
110-82-7	84.16		hexane		ND	0.20	0.034	ppbv		ND	0.69	ug/m3		
75-34-3	98.96		ichloroetha		7.1	0.20	0.021	ppbv		29	0.81	ug/m3		
75-35-4	96.94		ichloroethy		2.4	0.20	0.040	ppbv		9.5	0.79	ug/m3		
106-93-4	187.9		ibromoetha		ND	0.040	0.030	ppbv		ND	0.31	ug/m3		
107-06-2	98.96		ichloroetha		ND	0.20	0.038	ppbv		ND	0.81	ug/m3		
78-87-5	113		ichloroprop	ane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3		
123-91-1	88.12		ioxane		0.32	0.20	0.046	ppbv		1.2	0.72	ug/m3		
75-71-8	120.9		orodifluoro		0.51	0.20	0.030	ppbv		2.5	0.99	ug/m3		
124-48-1	208.3		mochlorom		ND	0.040	0.019	ppbv		ND	0.34	ug/m3		
156-60-5	96.94		1,2-Dichlor		ND	0.20	0.023	ppbv	v	ND	0.79	ug/m3		
156-59-2	96.94		2-Dichloroe		0.16	0.20	0.028	ppbv	J	0.63	0.79	ug/m3		
10061-01-5			3-Dichloro		ND	0.20	0.027	ppbv		ND	0.91	ug/m3		
541-73-1	147		chlorobenze		ND	0.10	0.044	ppbv		ND	0.60	ug/m3		
95-50-1	147		hlorobenzei		ND	0.040	0.040	ppbv		ND	0.24	ug/m3		
106-46-7	147		hlorobenzei		13.3 ND	0.10	0.044	ppbv		80.0	0.60	ug/m3		
10061-02-6	111	uans-	1,3-Dichloı	opropene	ND	0.20	0.032	ppbv		ND	0.91	ug/m3		

ND = Not detectedMDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



3.7

64-17-5 $46.07$ Ethanol $15.3$ $0.50$ $0.047$ ppl $100-41-4$ $106.2$ Ethylbenzene $0.34$ $0.20$ $0.018$ ppl $141-78-6$ 88Ethyl Acetate $1.0$ $0.20$ $0.036$ ppl $622-96-8$ $120.2$ $4$ -EthyltolueneND $0.20$ $0.036$ ppl $76-13-1$ $187.4$ Freon 113 $2.8$ $0.040$ $0.027$ ppl $76-14-2$ $170.9$ Freon 114ND $0.040$ $0.027$ ppl $142-82-5$ $100.2$ Heptane $0.77$ $0.20$ $0.021$ ppl $87-68-3$ $260.8$ HexachlorobutatieneND $0.090$ $0.084$ ppl $110-54-3$ $86.17$ Hexane $0.58$ $0.20$ $0.025$ ppl $591-78-6$ $100$ $2$ -HexanoneND $0.20$ $0.025$ ppl $67-63-0$ $60.1$ Isopropyl Alcohol $3.6$ $0.20$ $0.036$ ppl $78-93-3$ $72.11$ Methyl ethyl ketone $9.1$ $0.20$ $0.032$ ppl $1634-04-4$ $88.15$ Methyl Tert Butyl EtherND $0.20$ $0.023$ ppl $100-42-5$ $104.1$ Styrene $0.80$ $0.20$ $0.023$ ppl $10-42-5$ $104.1$ Styrene $0.80$ $0.20$ $0.023$ ppl $10-42-5$ $104.1$ Styrene $0.80$ $0.20$ $0.023$ ppl $10-42-5$ $104.1$ Styrene $0.80$ $0.20$ $0.024$ ppl	03/16 03/18 n/a Bethpa			
100-41-4106.2Ethylbenzene0.340.200.018ppl141-78-688Ethyl Acetate1.00.200.046ppl622-96-8120.24-EthyltolueneND0.200.036ppl76-13-1187.4Freon 1132.80.0400.027ppl76-14-2170.9Freon 114ND0.0400.027ppl142-82-5100.2Heptane0.770.200.021ppl87-68-3260.8HexachlorobutadieneND0.9900.084ppl110-54-386.17Hexane0.580.200.055ppl591-78-61002-HexanoneND0.200.025ppl67-63-060.1Isopropyl Alcohol3.60.200.040ppl78-93-372.11Methyl ethyl ketone9.10.200.039ppl108-10-1100.2Methyl Tert Butyl EtherND0.200.022ppl115-07-142Propylene7.70.500.053ppl115-56133.41,1,2-TrichloroethaneND0.0400.024ppl99-00-5133.41,2,2-TetrachloroethaneND0.0400.024ppl99-01-5133.41,2,4-TrichlorobenzeneND0.100.066ppl99-02-5133.41,2,4-TrichloroethaneND0.200.024ppl100-42-5104.1Styrene0.460.200.024ppl	its Q	Result	RL	Units
141-78-688Ethyl Acetate1.00.200.046ppl622-96-8120.24-EthyltolueneND0.200.036ppl76-13-1187.4Freon 1132.80.0400.020ppl76-14-2170.9Freon 114ND0.0400.027ppl142-82-5100.2Heptane0.770.200.021ppl87-68-3260.8HexachlorobutadieneND0.0900.084ppl110-54-386.17Hexane0.580.200.054ppl591-78-61002-HexanoneND0.200.025ppl67-63-060.1Isopropyl Alcohol3.60.200.040ppl78-93-372.11Methyl enchloride0.300.200.022ppl108-10-1100.2Methyl Isobutyl Ketone9.10.200.022ppl115-07-142Propylene7.70.500.053ppl115-07-142Propylene7.70.500.053ppl115-07-142Propylene7.70.500.023ppl115-07-142Propylene7.70.500.024ppl100-42-5104.1Styrene0.800.200.024ppl19-34-5167.91,1,2,2-TetrachloroethaneND0.0400.020ppl19-34-5167.91,2,4-TrichloroethaneND0.100.066ppl19-0-5133.4	ov	28.8	0.94	ug/m3
$622-96-8$ $120.2$ $4$ -EthyltolueneND $0.20$ $0.036$ ppl $76-13-1$ $187.4$ Freon 113 $2.8$ $0.040$ $0.020$ ppl $76-14-2$ $170.9$ Freon 114ND $0.040$ $0.027$ ppl $142-82-5$ $100.2$ Heptane $0.77$ $0.20$ $0.021$ ppl $87-68-3$ $260.8$ HexachlorobutadieneND $0.090$ $0.084$ ppl $110-54-3$ $86.17$ Hexanone $0.58$ $0.20$ $0.055$ ppl $591-78-6$ $100$ $2$ -HexanoneND $0.20$ $0.025$ ppl $67-63-0$ $60.1$ Isopropyl Alcohol $3.6$ $0.20$ $0.040$ ppl $75-09-2$ $84.94$ Methylene chloride $0.30$ $0.20$ $0.022$ ppl $78-93-3$ $72.11$ Methyl thyl ketone $9.1$ $0.20$ $0.039$ ppl $108-10-1$ $100.2$ Methyl Tert Butyl EtherND $0.20$ $0.023$ ppl $115-07-1$ $42$ Propylene $7.7$ $0.50$ $0.53$ ppl $17-55-6$ $133.4$ $1,1,2-Trichloroethane150^{-a}0.320.21ppl9-34-5167.91,2,2-TetrachloroethaneND0.1000.0400.024ppl9-9-05133.41,1,2-TrichloroethaneND0.1000.066ppl9-63-6120.21,2,4-TrichlorobenzeneND0.1000.020ppl108-67-8120.2$	ov	1.5	0.87	ug/m3
76-13-1187.4Freen 1132.80.0400.020ppl76-14-2170.9Freen 114ND0.0400.027ppl142-82-5100.2Heptane0.770.200.021ppl87-68-3260.8HexachlorobutadieneND0.0900.084ppl110-54-386.17Hexane0.580.200.025ppl591-78-61002-HexanoneND0.200.025ppl67-63-060.1Isopropyl Alcohol3.60.200.040ppl75-09-284.94Methylene chloride0.300.200.022ppl108-10-1100.2Methyl tsobutyl Ketone9.10.200.022ppl1634-04-488.15Methyl Tert Butyl EtherND0.200.023ppl115-07-142Propylene7.70.500.53ppl100-42-5104.1Styrene0.800.200.024ppl115-07-142Propylene7.70.500.023ppl125-66133.41,1,2-TrichloroethaneND0.0400.024ppl120-82-1181.51,2,4-TrichlorobenzeneND0.100.066ppl120-82-1181.51,2,4-Trimethylbenzene0.460.200.027ppl120-82-1181.51,2,4-Trimethylbenzene0.110.200.027ppl120-84-1114.22,2,4-Trimethylbenzene0.160.200	ov	3.6	0.72	ug/m3
76-14-2170.9Freon 114ND $0.040$ $0.027$ $print142-82-5100.2Heptane0.770.200.021ppint87-68-3260.8HexachlorobutadieneND0.0900.084ppint110-54-386.17Hexane0.580.200.025ppint591-78-61002-HexanoneND0.200.025ppint67-63-060.1Isopropyl Alcohol3.60.200.036ppint78-93.372.11Methylene chloride0.300.200.040ppint78-93.372.11Methyl testone9.10.200.022ppint108-10-1100.2Methyl Isobutyl Ketone0.390.200.022ppint115-07-142Propylene7.70.500.53ppint115-07-142Propylene7.70.500.023ppint15-56133.41,1,2.2-TetrachloroethaneND0.0400.024ppint9-9-0.5133.41,1,2.2-TetrachloroethaneND0.0400.024ppint9-9-0.5133.41,2,2-TetrachloroethaneND0.100.066ppint95-63-6120.21,2,4-Trimethylbenzene0.160.200.021ppint95-63-6120.21,2,4-Trimethylbenzene0.160.200.027ppint97-01-5133.41,1,2-$	vo	ND	0.98	ug/m3
142-82-5100.2Heptane0.770.200.021 $prid87-68-3260.8HexachlorobutadieneND0.0900.084ppl110-54-386.17Hexane0.580.200.054ppl591-78-61002-HexanoneND0.200.025ppl67-63-060.1Isopropyl Alcohol3.60.200.040ppl75-09-284.94Methylene chloride0.300.200.040ppl78-93-372.11Methyl tetone9.10.200.022ppl108-10-1100.2Methyl Isobutyl Ketone0.390.200.022ppl115-07-142Propylene7.70.500.053ppl100-42-5104.1Styrene0.800.200.022ppl100-42-5104.1Styrene0.800.200.023ppl71-55-6133.41,1,22-TetrachloroethaneND0.0400.024ppl79-00-5133.41,1,2-TrichloroethaneND0.0400.024ppl95-63-6120.21,2,4-Trimethylbenzene0.160.200.024ppl108-67-8120.21,3,5-Trimethylbenzene0.160.200.027ppl127-18-4165.8Tetrachloroethylene3.90.0400.027ppl127-18-4165.8Tetrachloroethylene3.90.0400.027ppl108-88-392.14Toluene4.70.20<$	ov	21	0.31	ug/m
87-68-3         260.8         Hexachlorobutadiene         ND         0.090         0.084         ppl           110-54-3         86.17         Hexane         0.58         0.20         0.054         ppl           591-78-6         100         2-Hexanone         ND         0.20         0.025         ppl           67-63-0         60.1         Isopropyl Alcohol         3.6         0.20         0.036         ppl           75-09-2         84.94         Methylene chloride         0.30         0.20         0.022         ppl           78-93-3         72.11         Methyl tethyl ketone         9.1         0.20         0.039         ppl           108-10-1         100.2         Methyl Isobutyl Ketone         0.39         0.20         0.022         ppl           115-07-1         42         Propylene         7.7         0.50         0.053         ppl           100-42-5         104.1         Styrene         0.80         0.20         0.024         ppl           79-34-5         167.9         1,1,2,2-Tetrachloroethane         ND         0.040         0.204         ppl           99-00-5         133.4         1,1,2-Trichloroethane         ND         0.10         0.666	bv	ND	0.28	ug/m
110-54-386.17Hexane0.580.200.054ppl591-78-61002-HexanoneND0.200.025ppl67-63-060.1Isopropyl Alcohol3.60.200.036ppl75-09-284.94Methylene chloride0.300.200.040ppl78-93-372.11Methyl ethyl ketone9.10.200.022ppl108-10-1100.2Methyl Isobutyl Ketone0.390.200.022ppl1634-04-488.15Methyl Tert Butyl EtherND0.200.018ppl115-07-142Propylene7.70.500.053ppl100-42-5104.1Styrene0.800.200.024ppl79-34-5167.91,1,2,2-TetrachloroethaneND0.0400.024ppl79-00-5133.41,1,2-TrichloroethaneND0.0400.024ppl120-82-1181.51,2,4-TrichlorobenzeneND0.100.066ppl95-63-6120.21,3,5-Trimethylbenzene0.460.200.021ppl127-18-4165.8Tetrachloroethylene3.90.0400.027ppl127-18-4165.8Tetrachloroethylene3.90.0400.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl109-99-972.11Tetrahydrofuran <td>bv</td> <td>3.2</td> <td>0.82</td> <td>ug/m</td>	bv	3.2	0.82	ug/m
591-78-61002-HexanoneND0.200.025pri67-63-060.1Isopropyl Alcohol3.60.200.036ppl75-09-284.94Methylene chloride0.300.200.040ppl78-93-372.11Methyl ethyl ketone9.10.200.022ppl108-10-1100.2Methyl Isobutyl Ketone0.390.200.022ppl1634-04-488.15Methyl Tert Butyl EtherND0.200.018ppl115-07-142Propylene7.70.500.053ppl100-42-5104.1Styrene0.800.200.022ppl71-55-6133.41,1,1-Trichloroethane150 a0.320.21ppl79-04-5133.41,1,2-TrichloroethaneND0.0400.024ppl79-00-5133.41,2,4-TrichlorobenzeneND0.100.066ppl95-63-6120.21,2,4-Trimethylbenzene0.460.200.021ppl108-67-8120.21,3,5-Trimethylbenzene0.110.200.027ppl127-18-4165.8Tetrachloroethylene3.90.0400.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl108-88-392.14Toluene4.70.200.027ppl108-88-392.14Toluene4.70.200.020ppl108-88-392.14Toluene4.7 <t< td=""><td>bv</td><td>ND</td><td>0.96</td><td>ug/m</td></t<>	bv	ND	0.96	ug/m
$591-78-6$ $100$ $2$ -HexanoneND $0.20$ $0.025$ ppl $67-63-0$ $60.1$ Isopropyl Alcohol $3.6$ $0.20$ $0.036$ ppl $75-09-2$ $84.94$ Methylene chloride $0.30$ $0.20$ $0.040$ ppl $78-93-3$ $72.11$ Methyl ethyl ketone $9.1$ $0.20$ $0.022$ ppl $108-10-1$ $100.2$ Methyl Isobutyl Ketone $0.39$ $0.20$ $0.022$ ppl $1634-04-4$ $88.15$ Methyl Tert Butyl EtherND $0.20$ $0.018$ ppl $115-07-1$ $42$ Propylene $7.7$ $0.50$ $0.053$ ppl $100-42-5$ $104.1$ Styrene $0.80$ $0.20$ $0.022$ ppl $71-55-6$ $133.4$ $1,1,1$ -Trichloroethane $150^{a}$ $0.32$ $0.21$ ppl $79-00-5$ $133.4$ $1,1,2$ -TetrachloroethaneND $0.040$ $0.024$ ppl $79-00-5$ $133.4$ $1,1,2$ -TrichlorobenzeneND $0.10$ $0.066$ ppl $99-00-5$ $133.4$ $1,1,2$ -TrichlorobenzeneND $0.10$ $0.020$ ppl $108-67-8$ $120.2$ $1,2,4$ -Trimethylbenzene $0.11$ $0.20$ $0.021$ ppl $99-63-6$ $120.2$ $1,2,4$ -Trimethylbenzene $0.16$ $0.20$ $0.026$ ppl $108-67-8$ $120.2$ $1,3,5$ -Trimethylbenzene $0.16$ $0.20$ $0.027$ ppl $108-67-8$ $120.2$ $1,2,4$ -Trimethylpentane $0.16$ $0.20$ $0.0$	bv	2.0	0.70	ug/m
67-63-0       60.1       Isopropyl Alcohol       3.6       0.20       0.036       ppl         75-09-2       84.94       Methylene chloride       0.30       0.20       0.040       ppl         78-93-3       72.11       Methyl ethyl ketone       9.1       0.20       0.022       ppl         108-10-1       100.2       Methyl Isobutyl Ketone       0.39       0.20       0.022       ppl         1634-04-4       88.15       Methyl Tert Butyl Ether       ND       0.20       0.018       ppl         115-07-1       42       Propylene       7.7       0.50       0.023       ppl         100-42-5       104.1       Styrene       0.80       0.20       0.024       ppl         71-55-6       133.4       1,1,1-Trichloroethane       ND       0.040       0.024       ppl         79-00-5       133.4       1,2,2-Tetrachloroethane       ND       0.10       0.066       ppl         95-63-6       120.2       1,2,4-Trichlorobenzene       ND       0.10       0.024       ppl         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.027       ppl         108-67-8       120.2       1,3,5-Trimethylpentane <td></td> <td>ND</td> <td>0.82</td> <td>ug/m</td>		ND	0.82	ug/m
75-09-2       84.94       Methylene chloride       0.30       0.20       0.040       ppl         78-93-3       72.11       Methyl ethyl ketone       9.1       0.20       0.039       ppl         108-10-1       100.2       Methyl Isobutyl Ketone       0.39       0.20       0.022       ppl         1634-04-4       88.15       Methyl Tert Butyl Ether       ND       0.20       0.018       ppl         115-07-1       42       Propylene       7.7       0.50       0.023       ppl         100-42-5       104.1       Styrene       0.80       0.20       0.024       ppl         71-55-6       133.4       1,1,1-Trichloroethane       150 a       0.32       0.21       ppl         79-04-5       167.9       1,1,2,2-Tetrachloroethane       ND       0.040       0.024       ppl         79-00-5       133.4       1,1,2-Trichloroethane       ND       0.10       0.066       ppl         95-63-6       120.2       1,2,4-Trimethylbenzene       0.11       0.20       0.021       ppl         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.026       ppl         108-67-8       120.2       1,3,5-Trimethylp		8.8	0.49	ug/m
78-93-3       72.11       Methyl ethyl ketone       9.1       0.20       0.039       ppl         108-10-1       100.2       Methyl Isobutyl Ketone       0.39       0.20       0.022       ppl         1634-04-4       88.15       Methyl Tert Butyl Ether       ND       0.20       0.018       ppl         115-07-1       42       Propylene       7.7       0.50       0.023       ppl         100-42-5       104.1       Styrene       0.80       0.20       0.024       ppl         71-55-6       133.4       1,1,1-Trichloroethane       150 a       0.32       0.21       ppl         79-34-5       167.9       1,1,2,2-Tetrachloroethane       ND       0.040       0.024       ppl         79-00-5       133.4       1,1,2-Trichloroethane       ND       0.10       0.066       ppl         120-82-1       181.5       1,2,4-Trichlorobenzene       ND       0.10       0.024       ppl         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.027       ppl         108-67-8       120.2       1,3,5-Trimethylpentane       0.16       0.20       0.027       ppl         108-67-8       120.2       1,3,5-Trimet		1.0	0.69	ug/m
108-10-1       100.2       Methyl Isobutyl Ketone       0.39       0.20       0.022       ppl         1634-04-4       88.15       Methyl Tert Butyl Ether       ND       0.20       0.018       ppl         115-07-1       42       Propylene       7.7       0.50       0.023       ppl         100-42-5       104.1       Styrene       0.80       0.20       0.024       ppl         71-55-6       133.4       1,1,1-Trichloroethane       150 a       0.32       0.21       ppl         79-34-5       167.9       1,1,2,2-Tetrachloroethane       ND       0.040       0.020       ppl         79-00-5       133.4       1,1,2-Trichloroethane       ND       0.10       0.066       ppl         95-63-6       120.2       1,2,4-Trichlorobenzene       ND       0.10       0.020       ppl         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.021       ppl         540-84-1       114.2       2,2,4-Trimethylpentane       0.16       0.20       0.027       pp         108-67-8       120.2       1,3,5-Trimethylpentane       0.16       0.20       0.027       pp         108-88-3       92.14       Toluene <td></td> <td>27</td> <td>0.59</td> <td>ug/m</td>		27	0.59	ug/m
1634-04-488.15Methyl Tert Butyl EtherND0.200.018ppl115-07-142Propylene7.70.500.053ppl100-42-5104.1Styrene0.800.200.023ppl71-55-6133.41,1,1-Trichloroethane150 a0.320.21ppl79-34-5167.91,1,2,2-TetrachloroethaneND0.0400.024ppl79-00-5133.41,1,2-TrichloroethaneND0.0400.020ppl120-82-1181.51,2,4-TrichlorobenzeneND0.100.066ppl95-63-6120.21,2,4-Trimethylbenzene0.460.200.021ppl108-67-8120.21,3,5-Trimethylbenzene0.110.200.026ppl540-84-1114.22,2,4-Trimethylpentane0.160.200.027ppl127-18-4165.8Tetrachloroethylene3.90.0400.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl108-88-392.14Toluene4.70.200.020ppl75-69-4131.4Trichloroethylene138 a0.320.23ppl75-01-462.5Vinyl chlorideND0.200.031ppl108-05-486Vinyl AcetateND0.200.038ppl108-05-486Vinyl AcetateND0.200.088ppl106.2m,p-Xylene0.910.20 </td <td></td> <td>1.6</td> <td>0.82</td> <td>ug/m</td>		1.6	0.82	ug/m
115-07-142Propylene7.70.500.053ppl100-42-5104.1Styrene0.800.200.023ppl71-55-6133.41,1,1-Trichloroethane150 a0.320.21ppl79-34-5167.91,1,2,2-TetrachloroethaneND0.0400.024ppl79-00-5133.41,1,2-TrichloroethaneND0.0400.020ppl120-82-1181.51,2,4-TrichlorobenzeneND0.100.066ppl95-63-6120.21,2,4-Trimethylbenzene0.460.200.024ppl108-67-8120.21,3,5-Trimethylbenzene0.110.200.021ppl540-84-1114.22,2,4-Trimethylpentane0.160.200.026ppl75-65-074.12Tertiary Butyl AlcoholND0.200.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl108-88-392.14Toluene4.70.200.029ppl75-69-4131.4Trichloroethylene138 a0.320.23ppl75-01-462.5Vinyl chlorideND0.200.031ppl108-05-486Vinyl AcetateND0.200.088ppl106.2m,p-Xylene0.910.200.10ppl		ND	0.72	ug/m
100-42-5       104.1       Styrene       0.80       0.20       0.023       ppl         71-55-6       133.4       1,1,1-Trichloroethane       150 a       0.32       0.21       ppl         79-34-5       167.9       1,1,2,2-Tetrachloroethane       ND       0.040       0.024       ppl         79-00-5       133.4       1,1,2-Trichloroethane       ND       0.040       0.020       ppl         120-82-1       181.5       1,2,4-Trichlorobenzene       ND       0.10       0.066       ppl         95-63-6       120.2       1,2,4-Trimethylbenzene       0.46       0.20       0.024       ppl         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.026       ppl         540-84-1       114.2       2,2,4-Trimethylpentane       0.16       0.20       0.027       ppl         75-65-0       74.12       Tertiary Butyl Alcohol       ND       0.20       0.027       ppl         109-99-9       72.11       Tetrachloroethylene       3.9       0.040       0.027       ppl         108-88-3       92.14       Toluene       4.7       0.20       0.020       ppl         75-69-4       131.4       Trichlorofluo		13	0.86	ug/m
71-55-6133.41,1,1-Trichloroethane150 a0.320.21ppl79-34-5167.91,1,2,2-TetrachloroethaneND0.0400.024ppl79-00-5133.41,1,2-TrichloroethaneND0.0400.020ppl120-82-1181.51,2,4-TrichlorobenzeneND0.100.066ppl95-63-6120.21,2,4-Trimethylbenzene0.460.200.024ppl108-67-8120.21,3,5-Trimethylbenzene0.110.200.021ppl540-84-1114.22,2,4-Trimethylpentane0.160.200.026ppl75-65-074.12Tertiary Butyl AlcoholND0.200.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl108-88-392.14Toluene4.70.200.029ppl75-69-4131.4Trichloroethylene138 a0.320.23ppl75-69-4137.4Trichlorofluoromethane0.470.0400.029ppl75-01-462.5Vinyl chlorideND0.200.031ppl108-05-486Vinyl AcetateND0.200.088ppl106.2m,p-Xylene0.910.200.10ppl		3.4	0.85	ug/m
79-34-5167.91,1,2,2-TetrachloroethaneND0.0400.024ppl79-00-5133.41,1,2-TrichloroethaneND0.0400.020ppl120-82-1181.51,2,4-TrichlorobenzeneND0.100.066ppl95-63-6120.21,2,4-Trimethylbenzene0.460.200.024ppl108-67-8120.21,3,5-Trimethylbenzene0.110.200.021ppl540-84-1114.22,2,4-Trimethylpentane0.160.200.026ppl75-65-074.12Tertiary Butyl AlcoholND0.200.027ppl109-99-972.11TetrahydrofuranND0.200.027ppl108-88-392.14Toluene4.70.200.020ppl75-69-4131.4Trichloroethylene138 a0.320.23ppl75-69-4137.4Trichlorofluoromethane0.470.0400.029ppl108-05-486Vinyl AcetateND0.200.031ppl108-05-486Vinyl AcetateND0.200.088ppl106.2m,p-Xylene0.910.200.10ppl		818 a	1.7	ug/m
79-00-5       133.4       1,1,2-Trichloroethane       ND       0.040       0.020       ppl         120-82-1       181.5       1,2,4-Trichlorobenzene       ND       0.10       0.066       ppl         95-63-6       120.2       1,2,4-Trimethylbenzene       0.46       0.20       0.021       ppl         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.021       ppl         540-84-1       114.2       2,2,4-Trimethylpentane       0.16       0.20       0.026       ppl         75-65-0       74.12       Tertiary Butyl Alcohol       ND       0.20       0.027       ppl         127-18-4       165.8       Tetrachloroethylene       3.9       0.040       0.027       ppl         109-99-9       72.11       Tetrahydrofuran       ND       0.20       0.027       ppl         108-88-3       92.14       Toluene       4.7       0.20       0.020       ppl         75-69-4       131.4       Trichloroethylene       138 a       0.32       0.23       ppl         75-01-4       62.5       Vinyl chloride       ND       0.20       0.031       ppl         108-05-4       86       Vinyl Acetate       <	bv	ND	0.27	ug/m
120-82-1       181.5       1,2,4-Trichlorobenzene       ND       0.10       0.066       pp         95-63-6       120.2       1,2,4-Trimethylbenzene       0.46       0.20       0.024       pp         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.021       pp         540-84-1       114.2       2,2,4-Trimethylbenzene       0.16       0.20       0.026       pp         75-65-0       74.12       Tertiary Butyl Alcohol       ND       0.20       0.027       pp         127-18-4       165.8       Tetrachloroethylene       3.9       0.040       0.027       pp         109-99-9       72.11       Tetrahydrofuran       ND       0.20       0.027       pp         108-88-3       92.14       Toluene       4.7       0.20       0.020       pp         75-69-4       131.4       Trichlorofhuoromethane       0.47       0.040       0.029       pp         75-69-4       137.4       Trichlorofluoromethane       0.47       0.040       0.029       pp         108-05-4       86       Vinyl Acetate       ND       0.20       0.031       pp         108-05-4       86       Vinyl Acetate       N		ND	0.22	ug/m
95-63-6       120.2       1,2,4-Trimethylbenzene       0.46       0.20       0.024       pp         108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.021       pp         540-84-1       114.2       2,2,4-Trimethylpentane       0.16       0.20       0.026       pp         75-65-0       74.12       Tertiary Butyl Alcohol       ND       0.20       0.027       pp         127-18-4       165.8       Tetrachloroethylene       3.9       0.040       0.027       pp         109-99-9       72.11       Tetrahydrofuran       ND       0.20       0.020       pp         108-88-3       92.14       Toluene       4.7       0.20       0.020       pp         75-69-4       131.4       Trichloroethylene       138 a       0.32       0.23       pp         75-69-4       137.4       Trichlorofluoromethane       0.47       0.040       0.029       pp         75-01-4       62.5       Vinyl chloride       ND       0.20       0.031       pp         108-05-4       86       Vinyl Acetate       ND       0.20       0.088       pp         106.2       m,p-Xylene       0.91       0.20       0		ND	0.74	ug/m
108-67-8       120.2       1,3,5-Trimethylbenzene       0.11       0.20       0.021       pp         540-84-1       114.2       2,2,4-Trimethylpentane       0.16       0.20       0.026       pp         75-65-0       74.12       Tertiary Butyl Alcohol       ND       0.20       0.027       pp         127-18-4       165.8       Tetrachloroethylene       3.9       0.040       0.027       pp         109-99-9       72.11       Tetrahydrofuran       ND       0.20       0.027       pp         108-88-3       92.14       Toluene       4.7       0.20       0.020       pp         79-01-6       131.4       Trichloroethylene       138 a       0.32       0.23       pp         75-69-4       137.4       Trichlorofluoromethane       0.47       0.040       0.029       pp         75-01-4       62.5       Vinyl chloride       ND       0.20       0.031       pp         108-05-4       86       Vinyl Acetate       ND       0.20       0.088       pp         106.2       m,p-Xylene       0.91       0.20       0.10       pp		2.3	0.98	ug/m
540-84-1       114.2       2,2,4-Trimethylpentane       0.16       0.20       0.026       pp         75-65-0       74.12       Tertiary Butyl Alcohol       ND       0.20       0.027       pp         127-18-4       165.8       Tetrachloroethylene       3.9       0.040       0.027       pp         109-99-9       72.11       Tetrahydrofuran       ND       0.20       0.027       pp         108-88-3       92.14       Toluene       4.7       0.20       0.020       pp         79-01-6       131.4       Trichloroethylene       138 a       0.32       0.23       pp         75-69-4       137.4       Trichlorofluoromethane       0.47       0.040       0.029       pp         75-01-4       62.5       Vinyl chloride       ND       0.20       0.031       pp         108-05-4       86       Vinyl Acetate       ND       0.20       0.088       pp         106.2       m,p-Xylene       0.91       0.20       0.10       pp			0.98	ug/m
75-65-0         74.12         Tertiary Butyl Alcohol         ND         0.20         0.027         pp           127-18-4         165.8         Tetrachloroethylene         3.9         0.040         0.027         pp           109-99-9         72.11         Tetrahydrofuran         ND         0.20         0.027         pp           108-88-3         92.14         Toluene         4.7         0.20         0.020         pp           79-01-6         131.4         Trichloroethylene         138 a         0.32         0.23         pp           75-69-4         137.4         Trichlorofluoromethane         0.47         0.040         0.029         pp           75-01-4         62.5         Vinyl chloride         ND         0.20         0.031         pp           108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		0.75	0.93	ug/m
127-18-4       165.8       Tetrachloroethylene       3.9       0.040       0.027       pp         109-99-9       72.11       Tetrahydrofuran       ND       0.20       0.027       pp         108-88-3       92.14       Toluene       4.7       0.20       0.020       pp         79-01-6       131.4       Trichloroethylene       138 a       0.32       0.23       pp         75-69-4       137.4       Trichlorofluoromethane       0.47       0.040       0.029       pp         75-01-4       62.5       Vinyl chloride       ND       0.20       0.031       pp         108-05-4       86       Vinyl Acetate       ND       0.20       0.088       pp         106.2       m,p-Xylene       0.91       0.20       0.10       pp		ND	0.61	ug/m
109-99-9         72.11         Tetrahydrofuran         ND         0.20         0.027         pp           108-88-3         92.14         Toluene         4.7         0.20         0.020         pp           79-01-6         131.4         Trichloroethylene         138 a         0.32         0.23         pp           75-69-4         137.4         Trichlorofluoromethane         0.47         0.040         0.029         pp           75-01-4         62.5         Vinyl chloride         ND         0.20         0.031         pp           108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		26	0.27	ug/m
108-88-3         92.14         Toluene         4.7         0.20         0.020         pp           79-01-6         131.4         Trichloroethylene         138 a         0.32         0.23         pp           75-69-4         137.4         Trichlorofluoromethane         0.47         0.040         0.029         pp           75-01-4         62.5         Vinyl chloride         ND         0.20         0.031         pp           108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		ND	0.59	ug/m
79-01-6         131.4         Trichloroethylene         138 a         0.32         0.23         pp           75-69-4         137.4         Trichlorofluoromethane         0.47         0.040         0.029         pp           75-01-4         62.5         Vinyl chloride         ND         0.20         0.031         pp           108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		18	0.75	ug/m
75-69-4         137.4         Trichlorofluoromethane         0.47         0.040         0.029         pp           75-01-4         62.5         Vinyl chloride         ND         0.20         0.031         pp           108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		742 a	1.7	ug/m
75-01-4         62.5         Vinyl chloride         ND         0.20         0.031         pp           108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		2.6	0.22	ug/m
108-05-4         86         Vinyl Acetate         ND         0.20         0.088         pp           106.2         m,p-Xylene         0.91         0.20         0.10         pp		ND	0.51	ug/m
106.2 m,p-Xylene 0.91 0.20 0.10 pp		ND	0.70	ug/m
		4.0	0.87	ug/m
93-47-0 100.2 O-AVIENE 0.32 0.20 0.020 DD	bv	1.4	0.87	ug/m
1330-20-7 106.2 Xylenes (total) 1.2 0.20 0.026 pp		5.2	0.87	ug/m
CAS No. Surrogate Recoveries Run#1 Run#2 Limits				
460-00-4 4-Bromofluorobenzene 96% 99% 78-124%				

Report of Analysis

ND = Not detected MDL - Method Detection Limit J

RL = Reporting Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



		0	Repo	ort of A	Analysi	S				Pag	e 1 of 3
Client Samj Lab Sample Matrix: Method: Project:	e ID:	TO-15	Summa ID:A90 SVI Former Gru		Dat	e Sample e Receiv cent Soli mman Ro	ed: 03 ds: n/		/09		
	File ID	DF	Analyzed	By	Prep	Date	Pre	p B	atch	Analytical	Batch
Run #1	3W1038	6.D 1	03/25/09	BR	n/a		n/a			V3W430	
Run #2	3W1039	4.D 1	03/26/09	BR	n/a		n/a			V3W430	
	Initial V	olume									
Run #1	400 ml										
Run #2	80.0 ml										
CAS No.	MW	Compound		Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone		4.3	0.20	0.044	ppbv		10	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene		ND	0.20	0.054	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene		0.20	0.20	0.017	ppbv		0.64	0.64	ug/m3
75-27-4	163.8	Bromodichlor	omethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform		ND	0.040	0.029	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethan	e	ND	0.20	0.031	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene		ND	0.20	0.032	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chlori	de	ND	0.20	0.037	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulf	ide	ND	0.20	0.018	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzen	e	ND	0.20	0.028	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane		ND	0.20	0.026	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform		3.6	0.20	0.021	ppbv		18	0.98	ug/m3
74-87-3	50.49	Chloromethan		0.16	0.20	0.039	ppbv	J	0.33	0.41	ug/m3
107-05-1	76.53	3-Chloroprop		ND	0.20	0.029	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotolue		ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrac	hloride	2.2	0.040	0.027	ppbv		14	0.25	ug/m3
110-82-7	84.16	Cyclohexane		0.47	0.20	0.034	ppbv		1.6	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroe		13.7	0.20	0.021	ppbv		55.4	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroe		0.76	0.20	0.040	ppbv		3.0	0.79	ug/m3
106 - 93 - 4	187.9	1,2-Dibromoe		ND	0.040	0.030	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroe		ND	0.20	0.038	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichlorop	oropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane		ND	0.20	0.046	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodiflu		0.65	0.20	0.030	ppbv		3.2	0.99	ug/m3
124-48-1	208.3	Dibromochlor		ND	0.040	0.019	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dic		ND	0.20	0.023	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichle		1.8	0.20	0.028	ppbv		7.1 ND	0.79	ug/m3
10061-01-5		cis-1,3-Dichle		ND ND	$0.20 \\ 0.10$	$\begin{array}{c} 0.027 \\ 0.044 \end{array}$	ppbv		ND	$\begin{array}{c} 0.91 \\ 0.60 \end{array}$	ug/m3 ug/m3
541-73-1	147	m-Dichlorobe		ND	$0.10 \\ 0.040$	$0.044 \\ 0.040$	ppbv		ND	0.80	ug/m
95-50-1	147	o-Dichlorober p-Dichlorober		0.19	0.040	0.040 0.044	ppbv		1.1	0.24	ug/ma
106-46-7 10061-02-6	147	trans-1,3-Dic		ND	0.10	0.044	ppbv		ND	0.80	ug/ma
10001-02-0	5 111	trans-1,5-DIC	noropropene		0.20	0.032	ppbv		ND	0.51	ug/m

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B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



3.8

		R	eport of A	nalysi	S				Pag	ge 2 of 3
Client Samp Lab Sample Matrix: Method: Project:		SS-10 JA14410-8 AIR - Air Summa ID: TO-15 Steel Equities, SVI Former		Date	e Sample e Receiv cent Soli mman Re	ed: 03 ids: n/a		/09		
CAS No.	MW	Compound	Result	RL	MDL			Result	RL	Units
CAS NO.	101 00	Compound	Result	RE	MIDL	Onits	×	resur	ne.	Onito
64-17-5	46.07	Ethanol	6.5	0.50	0.047	ppbv		12	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.018	ppbv		ND	0.87	ug/m
141-78-6	88	Ethyl Acetate	6.6	0.20	0.046	ppbv		24	0.72	ug/m
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.036	ppbv		ND	0.98	ug/m
76-13-1	187.4	Freon 113	1.6	0.040	0.020	ppbv		12	0.31	ug/m
76-14-2	170.9	Freon 114	ND	0.040	0.027	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.021	ppbv		ND	0.82	ug/m
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv		ND	0.96	ug/m
110-54-3	86.17	Hexane	ND	0.20	0.054	ppbv		ND	0.70	ug/m
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m
67-63-0	60.1	Isopropyl Alcohol	0.93	0.20	0.036	ppbv		2.3	0.49	ug/m
75-09-2	84.94	Methylene chloride	0.53	0.20	0.040	ppbv		1.8	0.69	ug/m
78-93-3	72.11	Methyl ethyl ketone	0.35	0.20	0.039	ppbv		1.0	0.59	ug/m
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv		ND	0.82	ug/m
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv		ND	0.72	ug/m
115-07-1	42	Propylene	ND	0.50	0.053	ppbv		ND	0.86	ug/m
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv		ND	0.85	ug/m
71-55-6	133.4	1,1,1-Trichloroethane	80.3 a	0.20	0.13	ppbv		438 a	1.1	ug/m
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv		ND	0.27	ug/m
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv		ND	0.22	ug/m
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv		ND	0.74	ug/m
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.026	ppbv		ND	0.93	ug/m
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.027	ppbv		ND	0.61	ug/m
127-18-4	165.8	Tetrachloroethylene	19.5	0.040	0.027	ppbv		132	0.27	ug/m
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.027	ppbv		ND	0.59	ug/m
	92.14	Toluene	0.64	0.20	0.021	ppbv		2.4	0.75	ug/m
108-88-3			81.2 a	0.20	0.020	ppbv		436 a	1.1	ug/m
79-01-6	131.4	Trichloroethylene			0.029			3.7	0.22	ug/m
75-69-4	137.4	Trichlorofluoromethane	0.65 ND	$\begin{array}{c} 0.040 \\ 0.20 \end{array}$	0.029	ppbv		ND	0.22	ug/m
75-01-4	62.5	Vinyl chloride			0.031	ppbv		ND	0.31	ug/m
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv	T	0.83	0.70	ug/m
05 47 0	106.2	m,p-Xylene	0.19 ND	$0.20 \\ 0.20$	0.10	ppbv	J	0.83 ND	0.87	ug/m
95-47-6	106.2	o-Xylene Xylenes (total)	0.19	0.20	0.026	ppbv	I	0.83	0.87	ug/m
1330-20-7	106.2	Xylenes (total)	0.19	0.20	0.020	ppbv	J	0.03	0.01	ug/ill
CAS No.	Surro	gate Recoveries Ru	n#1 Run	#2 L	imits					
460-00-4	4-Bron	nofluorobenzene 95' - ResAt istrum hun	% 96% #2	5 7	8-124%					

ND = Not detectedMDL - Method Detection Limit

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



	Pag	Page 1 of 2								
Client Sam Lab Sample Matrix: Method: Project:		AA-01 JA14410-9 Date Sampled: 03/16/09 AIR - Air Summa ID: A871 Date Received: 03/18/09 TO-15 Percent Solids: n/a Steel Equities, SVI Former Grumman Plant 2, Grumman Road, Bethpage, NY							L	
File ID Run #1 3W103 Run #2		DF Analyzed 37.D 1 03/25/09	l By BR	Prep n/a	Date	Prep B n/a	atch	Analytical Batch V3W430		
Run #1 Run #2	Initial V 400 ml	Volume								
CAS No.	MW	Compound	Result	RL	MDL	Units Q	Result	RL	Units	
67-64-1 106-99-0 71-43-2	$58.08 \\ 54.09 \\ 78.11$	Acetone 1,3-Butadiene Benzene	2.4 ND 0.28	0.20 0.20 0.20	$0.044 \\ 0.054 \\ 0.017$	ppbv ppbv ppbv	5.7 ND 0.89	$0.48 \\ 0.44 \\ 0.64$	ug/m ug/m ug/m	
75-27-4 75-25-2	$163.8 \\ 252.8$	Bromodichloromethane Bromoform	ND ND	$\begin{array}{c} 0.040 \\ 0.040 \end{array}$	$0.023 \\ 0.029$	ppbv ppbv	ND ND	$\begin{array}{c} 0.27 \\ 0.41 \end{array}$	ug/m ug/m	
74-83-9 593-60-2 100-44-7	94.94 106.9 126	Bromomethane Bromoethene Benzyl Chloride	ND ND ND	$0.20 \\ 0.20 \\ 0.20$	$\begin{array}{c} 0.031 \\ 0.032 \\ 0.037 \end{array}$	ppbv ppbv ppbv	ND ND ND	$0.78 \\ 0.87 \\ 1.0$	ug/m ug/m ug/m	
75-15-0 108-90-7 75-00-3	$76.14 \\ 112.6 \\ 64.52$	Carbon disulfide Chlorobenzene Chloroethane	ND ND ND	$0.20 \\ 0.20 \\ 0.20$	$\begin{array}{c} 0.018 \\ 0.028 \\ 0.026 \end{array}$	ppbv ppbv ppbv	ND ND ND	0.62 0.92 0.53	ug/m ug/m ug/m	
67-66-3 74-87-3	119.4 50.49 76.53	Chloroform Chloromethane	ND 0.65 ND	0.20 0.20 0.20	0.021 0.039 0.029	ppbv ppbv	ND 1.3 ND	$0.98 \\ 0.41 \\ 0.63$	ug/m ug/m ug/m	
107-05-1 95-49-8 56-23-5	$\begin{array}{c} 126.6\\ 153.8 \end{array}$	3-Chloropropene 2-Chlorotoluene Carbon tetrachloride	ND ND	$0.20 \\ 0.040$	0.022 0.027	ppbv ppbv ppbv	ND ND	$\begin{array}{c} 1.0 \\ 0.25 \end{array}$	ug/n ug/n	
110-82-7 75-34-3 75-35-4	$84.16 \\98.96 \\96.94$	Cyclohexane 1,1-Dichloroethane 1,1-Dichloroethylene	ND ND ND	$0.20 \\ 0.20 \\ 0.20$	$0.034 \\ 0.021 \\ 0.040$	ppbv ppbv ppbv	ND ND ND	0.69 0.81 0.79	ug/n ug/n ug/n	
106-93-4 107-06-2 78-87-5	187.9 98.96 113	1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloropropane	ND ND ND	$0.040 \\ 0.20 \\ 0.20$	$0.030 \\ 0.038 \\ 0.029$	ppbv ppbv ppbv	ND ND ND	0.31 0.81 0.92	ug/m ug/m ug/m	
123-91-1 75-71-8	$88.12 \\ 120.9$	1,4-Dioxane Dichlorodifluoromethane	ND 0.56	0.20 0.20	$\begin{array}{c} 0.046 \\ 0.030 \end{array}$	ppbv ppbv	ND 2.8	$0.72 \\ 0.99$	ug/n ug/n	
124-48-1 156-60-5 156-59-2	208.3 96.94 96.94	Dibromochloromethane trans-1,2-Dichloroethylene cis-1,2-Dichloroethylene	ND ND ND	0.040 0.20 0.20	0.019 0.023 0.028	ppbv ppbv ppbv	ND ND ND	0.34 0.79 0.79	ug/n ug/n ug/n	
10061-01-5 541-73-1 95-50-1	$111 \\ 147 \\ 147$	cis-1,3-Dichloropropene m-Dichlorobenzene o-Dichlorobenzene	ND ND ND	0.20 0.10 0.040	$0.027 \\ 0.044 \\ 0.040$	ppbv ppbv ppbv	ND ND ND	$0.91 \\ 0.60 \\ 0.24$	ug/n ug/n ug/n	
106-46-7 10061-02-6	147	p-Dichlorobenzene trans-1,3-Dichloropropene	ND ND	0.10 0.20	0.044	ppbv ppbv ppbv	ND ND	0.60 0.91	ug/n ug/n	

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3.9



**Report of Analysis** 

Client Samp Lab Sample Matrix: Method: Project:		AA-01 JA14410-9 Date Sampled: 03/16/09 AIR - Air Summa ID: A871 Date Received: 03/18/09 TO-15 Percent Solids: n/a Steel Equities, SVI Former Grumman Plant 2, Grumman Road, Bethpage, NY									
CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units	
64-17-5	46.07	Ethanol	2.9	0.50	0.047	ppbv		5.5	0.94	ug/m3	
100-41-4	106.2	Ethylbenzene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3	
141-78-6	88	Ethyl Acetate	ND	0.20	0.046	ppbv		ND	0.72	ug/m3	
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.036	ppbv		ND	0.98	ug/m3	
76-13-1	187.4	Freon 113	ND	0.040	0.020	ppbv		ND	0.31	ug/m3	
76-14-2	170.9	Freon 114	ND	0.040	0.027	ppbv		ND	0.28	ug/m3	
142-82-5	100.2	Heptane	ND	0.20	0.021	ppbv		ND	0.82	ug/m3	
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.084	ppbv		ND	0.96	ug/m3	
110-54-3	86.17	Hexane	0.12	0.20	0.054	ppbv	J	0.42	0.70	ug/m3	
591-78-6	100	2-Hexanone	ND	0.20	0.025	ppbv		ND	0.82	ug/m3	
67-63-0	60.1	Isopropyl Alcohol	0.29	0.20	0.036	ppbv		0.71	0.49	ug/m3	
75-09-2	84.94	Methylene chloride	0.18	0.20	0.040	ppbv	J	0.63	0.69	ug/m3	
78-93-3	72.11	Methyl ethyl ketone	0.37	0.20	0.039	ppbv		1.1	0.59	ug/m3	
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.022	ppbv		ND	0.82	ug/m3	
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.018	ppbv		ND	0.72	ug/m3	
115-07-1	42	Propylene	ND	0.50	0.053	ppbv		ND	0.86	ug/m3	
100-42-5	104.1	Styrene	ND	0.20	0.023	ppbv		ND	0.85	ug/m3	
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.040	0.026	ppbv		ND	0.22	ug/m3	
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.024	ppbv		ND	0.27	ug/m	
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.020	ppbv		ND	0.22	ug/m	
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.066	ppbv		ND	0.74	ug/m	
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.024	ppbv		ND	0.98	ug/m	
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m	
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.021	ppbv		ND	0.93	ug/m	
	74.12	Tertiary Butyl Alcohol	ND	0.20	0.027	ppbv		ND	0.61	ug/m	
75-65-0		Tetrachloroethylene	ND	0.040	0.027	ppbv		ND	0.27	ug/m	
127-18-4	165.8		ND	0.20	0.027	ppbv		ND	0.59	ug/m	
109-99-9	72.11	Tetrahydrofuran Toluene	0.39	0.20	0.021	ppbv		1.5	0.75	ug/m	
108-88-3	92.14		ND	0.040	0.020	ppbv		ND	0.21	ug/m	
79-01-6	131.4		0.28	0.040	0.029			1.6	0.21	ug/m	
75-69-4	137.4		0.28 ND		0.029	ppbv		ND	0.51	ug/m	
75-01-4	62.5	Vinyl chloride		0.20		ppbv		ND	0.70	ug/m	
108-05-4	86	Vinyl Acetate	ND	0.20	0.088	ppbv	т				
	106.2		0.13	0.20	0.10	ppbv	J	0.56	0.87	ug/m	
95-47-6	106.2		ND	0.20	0.026	ppbv	т	ND	0.87	ug/m	
1330-20-7	106.2	Xylenes (total)	0.13	0.20	0.026	ppbv	J	0.56	0.87	ug/m	
CAS No.	Surro	gate Recoveries Run	#1 Run	#2 L	imits.						
460-00-4	4-Bro	mofluorobenzene 96%		7	8-124%						

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3.9

## ATTACHMENT 3 - ACCUTEST LABORATORIES ASP CATEGORY B LABORATORY DATA DELIVERABLE (ON CD)