

Environmental Resources Management

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6 May 2008

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: Soil Vapor Intrusion 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 Soil Vapor Intrusion (SVI) Investigation recently performed within the former Grumman Plant 2 building 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 & Bartalucci in 1996. The SVI investigation was conducted pursuant to the Stipulation Agreement between Steel Los III and NYSDEC dated 4 February 2008, and involved collection of six (6) sub-slab vapor samples in accordance with ERM's 28 January 2008 Revised SVI Investigation Work Plan (the Work Plan) that was approved by New York State Department of Environmental Conservation.<sup>1</sup>

# Background

The New York State Department of Environmental Conservation (NYSDEC) requested that Steel Los III perform a SVI investigation 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.

Historic environmental reports associated with the former Grumman Plant 2 building were reviewed including the April 1996 Phase II Site Assessment For Plant 2 and the December 1996 Supplemental Phase II Site Assessment For Plant 2 prepared by Dvirka & Bartalucci, the December 1997 Supplemental Site Investigation Report and Delisting Petition prepared by Eder Associates, and various correspondence from the NYSDEC regarding these documents. Mr. Steven M. Scharf, P.E. 6 May 2008 Page 2

Based on these reviews, only two former areas were identified where volatile organic compounds (VOCs) were detected in soil at concentrations above the corresponding NYSDEC Soil Cleanup Objectives for those compounds. The former areas, by number, name and corresponding compounds detected in soil at that location are:

Area	Former Area Name	Detected Compounds
25	Paint Storage, Mixing &	Methylene Chloride 1,1-DCA,
	Stripping Room	1,2-DCE, 1,1,1-TCA
46	Former Machine Pit	TCE, 1,1,1-TCA

1,1-DCA: 1,1-Dichloroethane 1,2-DCE: 1,2-Dichloroethene 1,1,1-TCA: 1,1,1-Trichloroethane

The Work Plan called for the collection sub-slab soil vapor samples from six (6) locations; two (2) in the vicinity of Area 25 - Former Paint Storage, Mixing and Stripping Room, and four (4) in the vicinity Area 46 – Former Machine Pits. Soil vapor sampling locations SS-03 and SS-06 were positioned at the perimeter of Area 46 because the machine pits have been filled in and a second concrete slab poured in-place over the pits. Soil vapor sampling locations SS-04 and SS-05 were relocated to the east of Area 46 at the request of the NYSDEC, and the revised locations were incorporated into the NYSDEC-approved Work Plan.

# Sub-Slab Vapor Sampling

The sub-slab vapor sampling was performed on 25 February 2008. Sampling locations SS-01 through SS-06 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 United States Postal Service.

Sampling was performed following the protocols outlined in the NYSDEC-approved Work Plan and in accordance with the applicable protocols identified in the 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. 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 soil vapor samples were collected over the same 8-hour period with individually-certified clean Summa® canisters fitted with appropriately programmed regulators. All the pertinent data was recorded for each sampling location and is summarized in Table 1.

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# Laboratory Analysis & Reporting

The six summa canisters were shipped via overnight courier to Alpha Analytical Laboratories (NYSDOH Certification No. 11627) in Mansfield, Massachusetts, an Environmental Laboratory Accreditation Program-(ELAP)-certified laboratory. The sub-slab vapor samples were analyzed for VOCs using USEPA Method TO-15, with a target detection limit of 1.0 micrograms per cubic meter ( $\mu g/m^3$ ) or less for all parameters. However, all samples required dilution during analyses due to elevated concentrations of target compounds, which resulted in higher detection limits.

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 below.

Detected Compounds	Are	ea 25	Area 46			
(µg/m³)	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06
1,1,1-Trichloroethane	33,400	1,260	2,050	4.01	11.7	23.7
1,1-Dichloroethane	3,200	130	U	U	U	U
1,1-Dichloroethene	1,520	14.3	U	U	U	U
1,2,4-Trimethylbenzene	U	U	U	67.8	175	12.4
1,3,5-Trimethybenzene	U	U	U	24.3	25.4	3.3
1,3-Butadiene	U	U	U	1.84	U	U
2-Butanone	U	U	15.1	17.2	24.3	11
4-Ethyltoluene	U	U	U	10.2	16.2	2.98
4-Methyl-2-pentanone	U	U	U	297	U	6.1
Acetone	U	5.98	96.3	327	138	58.8
Benzene	U	U	U	4.1	U	2.53
Carbon disulfide	175	U	U	3.96	U	1.96
Carbon tetrachloride	454	26.5	U	U	U	U
Chloroethane	21.6	U	U	U	U	U
Chloroform	815	26.8	24	3.71	U	15.6
Cis-1,2-Dichloroethene	15.5	U	U	2.89	U	U
Cyclohexane	10.7	U	U	U	U	U
Ethanol	55	U	93.4	46.7	252	9.56
Ethylbenzene	U	U	U	17.1	U	3.85
Freon-113	196	37.2	U	U	U	U
Heptane	U	U	U	2.94	U	2.32
Isopropanol	U	U	U	7.74	U	6.15
Methylene chloride	21.4	U	U	U	U	U
n-Hexane	U	U	U	2.27	U	2.22
o-Xylene	U	U	U	36.1	U	3.49
p/m-Xylene	U	U	U	91.3	U	14
Propylene	U	U	U	8.34	U	U
Tetrachloroethene	U	138	U	6.33	U	2.86
Toluene	U	U	11.7	22.1	21.9	14.2
Trichloroethene	128	723	1,320	724	290	395
Trichlorofluoromethane	IJ	IJ	137	3 51	IJ	16.8

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The exact sources of VOCs in sub-slab soil vapor are unknown. Although minor use of detergent, lubricants and degreasers by the current tenant in servicing package conveyance systems and general housekeeping was noted, it is highly unlikely that current tenant operations are responsible for the sub-slab findings since the PID screening at each sampling location did not indicate the presence of VOCs in the ambient air.

We do not expect resultant impacts to indoor air quality from the subslab vapors 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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D. Wengo

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** 

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NO. DATE REVISION DATE APPR. REVISION STEEL LOS III NO. APPR DESIGN ENGINEER PLANT 2 BUILDING PROJECT ENGINEE ERM PROJECT MANAGER Environmental Resources Management PPROVEL

# LEGEND

• SOIL VAPOR SAMPLING LOCATION SFORMER AREA OF CONCERN

GRAPHIC SCALE IN FEET

	SOIL VA	APOR SAMPLING LOCATIONS			1
AWIN	EMF/CWW	DATE 04/25/08	REVISION DATE:		REV. NO.
		108 10	CLE MANE	SHEET	OF

DRAMING NO.

EMF/CWW	DATE 04/25/08	REVISION DATE:			
CALE	јов но. 0072943	FLE NAME- new-M-2	SHEET	OF	

TABLES

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# able 1 Sub-Slab Vapor Sampling - 25 February 2008 Former Areas 25 & 46 Seel Equities - Plant 2

	Are	ea 25	Area 46		second of success	
Sample ID	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06
ampler's Name	KP/MJB	KP/MJB	KP/MJB	KP/MJB	KP/MJB	KP/MJB
	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08
Date, Time And PID Reading Following	1000	0955	0950	0945	0940	0935
_`urge	0.0PPM	0.0PPM	50.3PPM	9.1PPM	18.1PPM	29.1PPM
	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08
	1000	0955	0950	0945	0940	0935
Date, Time And PID Reading in Room	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM	0.0PPM
	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08
	1003	1002	0959	0958	0957	0956
Date And Time Of Sample Start And Stop	1802	1801	1758	1739	1740	1755
umma® Canister Serial Number	210	235	459	393	320	198
ow Controller ID Number	FC0084	FC0213	FC0283	FC0093	FC0398	FC0265
	-30"Hg+	-30"Hg+	-30"Hg+	-30"Hg+	-28"Hg	-30"Hg+
'¬itial And Final Summa® Canister Vacuum	-9"Hg	-4"Hg	-5"Hg	-3"Hg	-1"Hg	-5"Hg
	SS-01	SS-02	SS-03	SS-04	SS-05	SS-06
	See Figure	See Figure of	See Figure of	See Figure of	See Figure of	See Figure of
Sample Identification, And Descriptive	of sampling	sampling	sampling	sampling	sampling	sampling
ocation Of The Sampling Area	locations.	locations.	locations.	locations.	locations.	locations.
ample Identification For Other						
Corresponding Samples At The Same						
roperty	None	None	None	None	None	None
Weather Conditions Including Barometric	29.89"	29.89"	29.89"	29.89"	29.89"	29.89"
Pressure, And Ambient Temperature Inside	43°F	43°F	43°F	43°F	43°F	43°F
nd Outside The Building	70°F	70°F	70°F	70°F	70°F	70°F
Floor Slab Thickness	8"	8"	10"	8"	8"	8"
Sampling Depth(S)	10" bgs	10" bgs	12" bgs	10" bgs	10" bgs	10" bgs
oil Type At Sample Location, If Known						
ວoil Vapor Purge Volumes	200 ml	200 ml	200 ml	200 ml	200 ml	200 ml
	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08	2/25/08
<b>1</b> Equipment Calibrations Performed.	0900	0900	0900	0900	0900	0900

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# PERIOD: From 02/25/2008 thru 02/25/2008 - Inclusive SAMPLE TYPE: Air

CONSTITUENT	SITE LAB SAMPLE ID DATE	SS-01 L0802694-01 02/25/2008	SS-02 L0802694-02 02/25/2008	SS-03 L0802694-03 02/25/2008	SS-04 L0802694-04 02/25/2008
1,1,1-Trichloroethane	(ug/m3)	33400	1260	2050	4.01
1,1,2,2-Tetrachloroethane	(ug/m3)	13.7 U	13.7 U	13.7 U	3.43 U
1,1,2-Trichloroethane	(ug/m3)	10.9 U	10.9 U	10.9 U	2.72 U
1,1-Dichloroethane	(ug/m3)	3200	130	8.09 U	2.02 U
1,1-Dichloroethene	(ug/m3)	1520	14.3	7.92 U	1.98 U
1,2,4-Trichlorobenzene	(ug/m3)	14.8 U	14.8 U	14.8 U	3.71 U
1,2,4-Trimethylbenzene	(ug/m3)	9.82 U	9.82 U	9.82 U	67.8
1,2-Dibromoethane	(ug/m3)	15.4 U	15.4 U	15.4 U	3.84 U
1,2-Dichlorobenzene	(ug/m3)	12 U	12 U	12 U	3 U
1,2-Dichloroethane	(ug/m3)	8.09 U	8.09 U	8.09 U	2.02 U
1,2-Dichloropropane	(ug/m3)	9.24 U	9.24 U	9.24 U	2.31 U
1,3,5-Trimethylbenzene	(ug/m3)	9.82 U	9.82 U	9.82 U	24.3
1,3-Butadiene	(ug/m3)	4.42 U	4.42 U	4.42 U	1.84
1,3-Dichlorobenzene	(ug/m3)	12 U	12 U	12 U	3 U
1,4-Dichlorobenzene	(ug/m3)	12 U	12 U	12 U	3 U
1,4-Dioxane	(ug/m3)	7.2 U	7.2 U	7.2 U	1.8 U
2,2,4-Trimethylpentane	(ug/m3)	9.34 U	9.34 U	9.34 U	2.33 U
2-Butanone	(ug/m3)	5.89 U	5.89 U	15.1 J	17.2 J
2-Hexanone	(ug/m3)	8.19 U	8.19 U	8.19 U	2.05 U
4-Ethyltoluene	(ug/m3)	9.82 U	9.82 U	9.82 U	10.2
4-Methyl-2-Pentanone	(ug/m3)	8.19 U	8.19 U	8.19 U	297
Acetone	(ug/m3)	4.75 U	5.98 J	96.3 J	327 J
Allyl chloride	(ug/m3)	6.26 U	6.26 U	6.26 U	1.56 U
Benzene	(ug/m3)	6.38 U	6.38 U	6.38 U	4.1
Benzyl chloride	(ug/m3)	10.3 U	10.3 U	10.3 U	2.59 U
Bromodichloromethane	(ug/m3)	13.4 U	13.4 U	13.4 U	3.35 U
Bromoform	(ug/m3)	20.6 U	20.6 U	20.6 U	5.16 U
Bromomethane	(ug/m3)	7.76 U	7.76 U	7.76 U	1.94 U
Carbon Disulfide	(ug/m3)	175	6.22 U	6.22 U	3.96
Carbon Tetrachloride	(ug/m3)	454	26.5	12.6 U	3.14 U
Chlorobenzene	(ug/m3)	9.2 U	9.2 U	9.2 U	2.3 U
Chloroethane	(ug/m3)	21.6	5.27 U	5.27 U	1.32 U
Chloroform	(ug/m3)	815	26.8	24	3.71
Chloromethane	(ug/m3)	4.13 U	4.13 U	4.13 U	1.03 U
cis-1,2-Dichloroethene	(ug/m3)	15.5	7.92 U	7.92 U	2.89
cis-1,3-Dichloropropene	(ug/m3)	9.07 U	9.07 U	9.07 U	2.27 U
Cyclohexane	(ug/m3)	10.7	6.88 U	6.88 U	1.72 U
Dibromochloromethane	(ug/m3)	17 U	17 U	17 U	4.26 U
Dichlorodifluoromethane	(ug/m3)	9.88 U	9.88 U	U 88.6	2.47 U

U - Non-detect.

J - Estimated value.

# PERIOD: From 02/25/2008 thru 02/25/2008 - Inclusive SAMPLE TYPE: Air

CONSTITUENT	SITE LAB SAMPLE ID DATE	SS-01 L0802694-01 02/25/2008	SS-02 L0802694-02 02/25/2008	SS-03 L0802694-03 02/25/2008	SS-04 L0802694-04 02/25/2008
Ethanol	(ug/m3)	55	47.1 U	93.4	46.7
Ethyl acetate	(ug/m3)	18 U	18 U	18 U	4.5 U
Ethylbenzene	(ug/m3)	8.68 U	8.68 U	8.68 U	17.1
Freon 113	(ug/m3)	196	37.2	15.3 U	3.83 U
Freon 114	(ug/m3)	14 U	14 U	14 U	3.49 U
Heptane	(ug/m3)	8.19 U	8.19 U	8.19 U	2.94
Hexachlorobutadiene	(ug/m3)	21.3 U	21.3 U	21.3 U	5.33 U
Hexane	(ug/m3)	7.04 U	7.04 U	7.04 U	2.27
Isopropyl Alcohol	(ug/m3)	12.3 U	12.3 U	12.3 U	7.74
m+p-Xylene	(ug/m3)	17.4 U	17.4 U	17.4 U	91.3
Methyl Tertiary Butyl Ether	(ug/m3)	7.2 U	7.2 U	7.2 U	1.8 U
Methylene Chloride	(ug/m3)	21.4	6.94 U	6.94 U	1.74 U
o-Xylene	(ug/m3)	8.68 U	8.68 U	8.68 U	36.1
Propylene	(ug/m3)	3.44 U	3.44 U	3.44 U	8.34
Styrene	(ug/m3)	8.51 U	8.51 U	8.51 U	2.13 U
Tetrachloroethene	(ug/m3)	13.6 U	138	13.6 U	6.33
Tetrahydrofuran	(ug/m3)	5.89 U	5.89 U	5.89 U	1.47 U
Toluene	(ug/m3)	7.53 U	7.53 U	11.7	22.1
trans-1,2-Dichloroethene	(ug/m3)	7.92 U	7.92 U	7.92 U	1.98 U
trans-1,3-Dichloropropene	(ug/m3)	9.07 U	9.07 U	9.07 U	2.27 U
Trichloroethene	(ug/m3)	128	723	1320	724
Trichlorofluoromethane	(ug/m3)	11.2 U	11.2 U	13.7	3.51
Vinyl Acetate	(ug/m3)	7.04 U	7.04 U	7.04 U	1.76 U
Vinyl bromide	(ug/m3)	8.74 U	8.74 U	8.74 U	2.18 U
Vinyl chloride	(ug/m3)	5.11 U	5.11 U	5.11 U	1.28 U
Sum of Constituents	(ug/m3)	40012.20	2361.78	3624.20	1732.44

J - Estimated value.

# PERIOD: From 02/25/2008 thru 02/25/2008 - Inclusive SAMPLE TYPE: Air

	SITE	SS-05	SS-06
CONSTITUENT	LAB SAMPLE ID	L0802694-05	L0802694-06
	DATE	02/25/2008	02/25/2008
1,1,1-Trichloroethane	(ug/m3)	11.7	23.7
1,1,2,2-Tetrachloroethane	(ug/m3)	13.7 U	2.74 U
1,1,2-Trichloroethane	(ug/m3)	10.9 U	2.18 U
1,1-Dichloroethane	(ug/m3)	8.09 U	1.62 U
1,1-Dichloroethene	(ug/m3)	7.92 U	1.58 U
1,2,4-Trichlorobenzene	(ug/m3)	14.8 U	2.97 U
1,2,4-Trimethylbenzene	(ug/m3)	175	12.4
1,2-Dibromoethane	(ug/m3)	15.4 U	3.07 U
1,2-Dichlorobenzene	(ug/m3)	12 U	2.4 U
1,2-Dichloroethane	(ug/m3)	8.09 U	1.62 U
1,2-Dichloropropane	(ug/m3)	9.24 U	1.85 U
1,3,5-Trimethylbenzene	(ug/m3)	25.4	3.3
1,3-Butadiene	(ug/m3)	4.42 U	0.884 U
1,3-Dichlorobenzene	(ug/m3)	12 U	2.4 U
1,4-Dichlorobenzene	(ug/m3)	12 U	2.4 U
1,4-Dioxane	(ug/m3)	7.2 U	1.44 U
2,2,4-Trimethylpentane	(ug/m3)	9.34 U	1.87 U
2-Butanone	(ug/m3)	24.3 J	11 J
2-Hexanone	(ug/m3)	8.19 U	1.64 U
4-Ethyltoluene	(ug/m3)	16.2	2.98
4-Methyl-2-Pentanone	(ug/m3)	8.19 U	6.1
Acetone	(ug/m3)	138 J	58.8 J
Allyl chloride	(ug/m3)	6.26 U	1.25 U
Benzene	(ug/m3)	6.38 U	2.53
Benzyl chloride	(ug/m3)	10.3 U	2.07 U
Bromodichloromethane	(ug/m3)	13.4 U	2.68 U
Bromoform	(ug/m3)	20.6 U	4.13 U
Bromomethane	(ug/m3)	7.76 U	1.55 U
Carbon Disulfide	(ug/m3)	6.22 U	1.96
Carbon Tetrachloride	(ug/m3)	12.6 U	2.51 U
Chlorobenzene	(ug/m3)	9.2 U	1.84 U
Chloroethane	(ug/m3)	5.27 U	1.05 U
Chloroform	(ug/m3)	9.76 U	15.6
Chloromethane	(ug/m3)	4.13 U	0.825 U
cis-1,2-Dichloroethene	(ug/m3)	7.92 U	1.58 U
cis-1,3-Dichloropropene	(ug/m3)	9.07 U	1.81 U
Cyclohexane	(ug/m3)	6.88 U	1.38 U
Dibromochloromethane	(ug/m3)	17 U	3.4 U
Dichlorodifluoromethane	(ug/m3)	9.88 U	7.25

U - Non-detect.

J - Estimated value.

#### PERIOD: From 02/25/2008 thru 02/25/2008 - Inclusive SAMPLE TYPE: Air

CONSTITUENT	SITE LAB SAMPLE ID DATE	SS-05 L0802694-05 02/25/2008	SS-06 L0802694-06 02/25/2008
Ethanol	(ug/m3)	252	9.56
Ethyl acetate	(ug/m3)	18 U	3.6 U
Ethylbenzene	(ug/m3)	8.68 U	3.85
Freon 113	(ug/m3)	15.3 U	3.06 U
Freon 114	(ug/m3)	14 U	2.79 U
Heptane	(ug/m3)	8.19 U	2.32
Hexachlorobutadiene	(ug/m3)	21.3 U	4.26 U
Hexane	(ug/m3)	7.04 U	2.22
isopropyl Alcohol	(ug/m3)	12.3 U	6.15
m+p-Xylene	(ug/m3)	17.4 U	14
Methyl Tertiary Butyl Ether	(ug/m3)	7.2 U	1.44 U
Methylene Chloride	(ug/m3)	6.94 U	1.39 U
o-Xylene	(ug/m3)	8.68 U	3.49
Propylene	(ug/m3)	3.44 U	0.688 U
Styrene	(ug/m3)	8.51 U	1.7 U
Tetrachloroethene	(ug/m3)	13.6 U	2.86
Tetrahydrofuran	(ug/m3)	5.89 U	1.18 U
Toluene	(ug/m3)	21.9	14.2
trans-1,2-Dichloroethene	(ug/m3)	7.92 U	1.58 U
trans-1,3-Dichloropropene	(ug/m3)	9.07 U	1.81 U
Trichloroethene	(ug/m3)	290	395
Trichlorofluoromethane	(ug/m3)	11.2 U	16.8
Vinyl Acetate	(ug/m3)	7.04 U	1.41 U
Vinyl bromide	(ug/m3)	8.74 U	1.75 U
Vinyl chloride	(ug/m3)	5.11 U	1.02 U
Sum of Constituents	(ug/m3)	954.50	616.07

m 1.7

J - Estimated value.

**ATTACHMENTS** 

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

**ATTACHMENT 2 - DATA VALIDATION REPORT** 

# ATTACHMENT 3 - ALPHA ANALYTICAL LABORATORIES ASP CATEGORY B LABORATORY DATA DELIVERABLE

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



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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 2/27/08 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 $\frac{500}{(in 2 \text{ shifts})}$ Age of Occupants $\frac{18-60}{(in 2 \text{ shifts})}$
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: ①/ N
Last Name: Lumpe First Name: Kevin
Address: 700 Hicksville Rd. Bethpage, NY 11714
County: Nassau
Home Phone: Office Phone: <u>(516) 576-3</u> 165
3. BUILDING CHARACTERISTICS
Type of Building: (Circle appropriate response)

ResidentialSchoolCommercial/Multi-useIndustrialChurchOther:

		2
If the property is residenti	ial, type? (Circle appropri	ate 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	ıy?	
If the property is commer	cial, type?	
Business Type(s)	S Postal S	ervice
Does it include residen	ces (i.e., multi-use)? Y /	If yes, how many?
Other characteristics:		
Number of floors	Buil	ding age <u>70</u> YrS
Is the building insulated	h∕∕N How	air tight? Tight / Average Not Tight
4. AIRFLOW Use air current tubes or th Airflow between floors	racer smoke to evaluate a	irflow patterns and qualitatively describe
4. AIRFLOW Use air current tubes or tr Airflow between floors	racer smoke to evaluate a	airflow patterns and qualitatively describe
4. AIRFLOW Use air current tubes or tr Airflow between floors Airflow near source	racer smoke to evaluate a	irflow patterns and qualitatively describe
4. AIRFLOW Use air current tubes or th Airflow between floors Airflow near source Outdoor air infiltration	racer smoke to evaluate a	sirflow patterns and qualitatively describe
4. AIRFLOW Use air current tubes or th Airflow between floors Airflow near source Outdoor air infiltration	racer smoke to evaluate a	sirflow patterns and qualitatively describe
4. AIRFLOW Use air current tubes or tr Airflow between floors Airflow near source Outdoor air infiltration Infiltration into air ducts	racer smoke to evaluate a	irflow patterns and qualitatively describe

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# 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade constructio	n: 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 w	ith
e. Concrete floor:	unsealed	sealed	sealed wit	h
f. Foundation walls:		block	stone	other
g. Foundation walls:	unsealed	sealed	sealed wit	h
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially fi	inished
j. Sump present?	Y/N			
k. Water in sump?	Y / N / not applicable			
Basement/Lowest level depth l	below grade:	_(feet)		

# 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

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

Hot water baseboard Radiant floor Outdoor wood boiler

+00 to ir from Othe

The primary type of fuel used is:

Natural Gas Electric Wood Fuel Oil Propane Coal Kerosene Solar

Natural Gas/Electric Domestic hot water tank fueled by: Boiler/furnace located in: Basement Outdoors Main Floor Other Air conditioning: Central Air Window units Open Windows None

NoBoiler

Are there air distribution ducts present? (Y) N

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.

Rooftop Mou	inted equ	sipment.	Supply	and return
Denetrate 1	roof dec	k with	approx.	10-12 of
Vertical Du	uct and	4 way	diffuser	on supply
and single	return.	J		
. ]				

# 7. OCCUPANCY

Is basement/lo	owest level occupied?	Full-time	Occasionally	Seldom	Almost Never
Level	General Use of Each	Floor (e.g., fa)	milyroom, bedro	om, laundry, w	orkshop, storage)
Basement					
1 <sup>st</sup> Floor	Slab on gra	ide Pac	kage Distri	ibution Co	nveyors
2 <sup>nd</sup> Floor	Partial Mezzo	nine of	fice	52	
3 <sup>rd</sup> Floor	NA				
4 <sup>th</sup> Floor	NA				
8. FACTORS	THAT MAY INFLUE	NCE INDOOF	R AIR QUALITY	<u>,</u>	
a. Is there a	n attached garage?			Y (N)	
b. Does the	garage have a separate	heating unit?		Y/N/NA	
c. Are petro stored in	lcum-powered machin the garage (e.g., lawnm	es or vchicles ower, atv, car)		Y / N NA Please specify_	
d. Has the b	ouilding ever had a fire	?		Y (N) When?	
e. Is a keros	sene or unvented gas sp	ace heater pres	sent?	Y (N) Where	?
f. Is there a	workshop or hobby/cr	aft area?	Y / 🕅	Where & Type	?
g. Is there s	moking in the building	?	Y /N	How frequently	/?
h. Have clea	aning products been us	ed recently?	(Э́/ N	When & Type?	WDHO, Degreasers
i. Have cosı	netic products been use	ed recently?	YN	When & Type?	·

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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 🔊 Where & When?
l. 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? <u>Koof</u>
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:	YN
<b>Do any of the building occupants use solvents at work?</b> (e.g., chemical manufacturing or laboratory, auto mechanic o boiler mechanic, pesticide application, cosmetologist	Y/N UNKOWN 500 + employees rauto body shop, painting, fuel oil delivery, in ZShifts
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)	a dry-cleaning service? (Circle appropriate
Yes, use dry-cleaning regularly (weekly) Yes, use dry-cleaning infrequently (monthly or less) Yes, work at a dry-cleaning service	No Unknown
Is there a radon mitigation system for the building/struct Is the system active or passive? Active/Passive	re? Y / Date of Installation:
9. WATER AND SEWAGE	
Water Supply: Public Water Drilled Well Driv	en Well Dug Well Other:
Sewage Disposal: Public Sewer Septic Tank Lea	ch Field Dry Well Other:
10. RELOCATION INFORMATION (for oil spill residen	tial emergency)
a. Provide reasons why relocation is recommended: _	
b. Residents choose to: remain in home relocate to	riends/family relocate to hotel/motel
c. Responsibility for costs associated with reimbursen	ent explained? Y / N
d. Relocation package provided and explained to resid	lents? Y / N

#### **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:** 

**First Floor:** 

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### **12. OUTDOOR PLOT**

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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**

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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>
-							
-							
_							
_							
_							
					T		

\* 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

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# DATA USABILITY SUMMARY REPORT (DUSR) STEEL EQUITIES SOIL VAPOR INTRUSION INVESTIGATION INTERIOR BUILDING AREAS NEAR PHASE II AREA NOS. 25 & 46 FORMER GRUMMAN PLANT 2, BETHPAGE, NEW YORK ENVIRONMENTAL RESOURCES MANAGEMENT (ERM) PROJECT NUMBER 0072943 ALPHA ANALYTICAL SAMPLE DELIVERY GROUP (SDG) L0802694

# Deliverables:

The above referenced data packages for six (6) soil vapor 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 soil vapor samples collected on 25 February 2007:

<u>ERM Sample ID</u>	<u>Alpha Sample ID</u>
SS-01	0802694-01
SS-02	0802694-02
SS-03	0802694-03
SS-04	0802694-04
SS-05	0802694-05
SS-06	0802694-06

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

- Laboratory Check Sample (LCS) recoveries, summary and data
- Method blank 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
- Organic 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.

# Volatiles

- Methylene chloride was positively identified (1.53 ug/m<sup>3</sup>) in the method blank applicable to the further diluted analysis of sample SS-01. No qualification of the sample data is required as only the result for 1,1,1-trichloroethene and 1,1-dichloroethane have been utilized from the further diluted analysis of sample SS-01.
- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRFs) in the initial calibration (ICAL). Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and qualified "J" while nondetect results do not require qualification.

Calibration	Compound	Deficiency	Associated Samples
ICAL 01/31/2008 @ 18:43-23:36	acetone 2-butanone	%RSD=40.93 %RSD=35.64	All samples

• All samples required dilution due to the elevated concentration of target compounds. Sample SS-01 was reanalyzed at a further dilution due to the concentration of 1,1,1-trichloroethene and 1,1-dichloroethane. Results for these 2 compounds have been taken from the further diluted analysis of sample SS-01.

# Package Summary:

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

AndopComm

Signed:

Andrew J. Coenen ERM QA Manager Dated: 07 April 2008

Project Number: Not Specified

03050815:58

 Lab Number:
 L0802694

 Report Date:
 03/05/08

#### SAMPLE RESULTS

Lab ID:	L0802694-01
Client ID:	SS-01
Sample Location:	BETHPAGE, NY
Matrix:	Air
Anaytical Method:	48,TO-15
Analytical Date:	03/03/08 14:21
Analyst:	HM

Date Collected:	02/25/08 18:02
Date Received:	02/26/08
Field Prep:	Not Specified

	p	pbV	ug/m		Dilution		
Parameter	Result	RDL	Results	RDL	Qualifier	Factor	
Low Level Volatile Organic Compou	ınds in Air						
1,1,1-Trichloroethane	120 -1000	2	33400 >5456-	10.9		10	
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10	
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10	
1,1-Dichioroethane	791 _100	2	3200 24047	8.09		10	
1,1-Dichloroethene	384	2.00	1520	7.92		10	
1,2,4-Trichlorbenzene	ND	2.00	ND	14.8		10	
1,2,4-Trimelhylbenzene	ND	2.00	ND	9.82		10	
1,2-Dibromoethane	ND	2.00	ND	15.4		10	
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10	
1,2-Dichloroethane	ND	2.00	ND	8.09		10	
1,2-Dichloropropane	ND	2.00	ND	9.24		10	
1,3,5-Trimelhybenzene	ND	2.00	ND	9.82		10	
1,3-Butadiene	ND	2.00	ND	4.42		10	
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10	
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10	
1,4-Dioxane	ND	2.00	ND	7.20		10	
2.2.4-Trimethylpentane	ND	2.00	ND	9.34		10	
2-Butanone	ND	2.00	ND	5.89		10	
2-Hexanone	ND	2.00	ND	8.19		10	
3-Chloropropene	ND	2.00	ND	6.26		10	
4-Ethyltoluene	ND	2.00	ND	9.82		10	
Acetone	ND	2.00	ND	4.75		10	
Benzene	ND	2.00	ND	6.38		10	
Benzyl chloride	ND	2.00	ND	10.3		10	
Bromodichloromethane	ND	2.00	ND	13.4		10	



Project Number: Not Specified 03050815:58

Lab Number: L0802694 Report Date:

03/05/08

# SAMPLE RESULTS

Lab ID: Client ID:	L0802694-01 SS-01				Date Date	Collected: Received:	02/25/08 18:02 02/26/08
Sample Location:	BETHPAGE, NY			ualmi		Prep:	Not Specified
Parameter		Results	RDL	Results	RDL	Qualifier	Dilution Factor
Low Level Volatile	Drganic Compounds	in Air					
Bromoform		ND	2.00	ND	20.6		10
Bromomethane		ND	2.00	ND	7.76		10
Carbon disulfide		56.4	2.00	175	6.22		10
Carbon tetrachloride		72.3	2.00	454	12.6		10
Chlorobenzene		ND	2.00	ND	9.20		10
Chloroethane		8.19	2.00	21.6	5.27		10
Chloroform		167	2.00	815	9.76		10
Chloromethane		ND	2.00	ND	4.13		10
cis-1,2-Dichloroethene		3.92	2.00	15.5	7.92		10
cis-1,3-Dichloropropene		ND	2.00	ND	9.07		10
Cyclohexane		3.11	2.00	10.7	6.88		10
Dibromochloromethane		ND	2.00	ND	17.0		10
Dichlorodifluoromethane	•	ND	2.00	ND	9.88		10
Ethanol		29.2	25.0	55.0	47.1		10
Ethyl Acetate		ND	5.00	ND	18.0		10
Ethylbenzene		ND	2.00	ND	8.68		10
Freon-113		25.6	2.00	196	15.3		10
Freon-114		ND	2.00	ND	14.0		10
Hexachlorobuladiene		ND	2.00	ND	21.3		10
isopropanol		ND	5.00	ND	12.3		10
Methylene chloride		6.16	2.00	21.4	6.94		10
4-Methyl-2-pentanone		ND	2.00	ND	8.19		10
Methyl tert butyl ether		ND	2.00	ND	7.20		10
p/m-Xylene		ND	4.00	ND	17.4		10
o-Xylene		ND	2.00	ND	8.68		10
Heptane		ND	2.00	ND	8.19		10
n-Hexane		ND	2.00	ND	7.04		10
Propylene		ND	2.00	ND	3.44		10



Project Number: Not Specified

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Lab Number: L0802694

**Report Date:** 03/05/08

# SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L0802694-01 SS-01 BETHPAGE, NY				Date Date Field	Collected: Received: Prep:	02/25/08 02/26/08 Not Spe	8 18:02 8 cified
		ppbV		ug/m3	3		Dilution	
Parameter		Results	RDL	Results	RDL	Qualifier	Factor	
Low Level Volatile	Organic Compounds	in Air						
Styrene		ND	2.00	ND	8.51		10	
Tetrachloroethene		ND	2.00	ND	13.6		10	
Tetrahydrofuran		ND	2.00	ND	5.89		10	
Toluene		ND	2.00	ND	7.53		10	
trans-1,2-Dichloroethen	e	ND	2.00	ND	7.92		10	
trans-1,3-Dichloroprope	ne	ND	2.00	ND	9.07		10	
Trichloroethene		23.8	2.00	128	10.7		10	
Trichlorofluoromethane		ND	2.00	ND	11.2		10	
Vinyl acetate		ND	2.00	ND	7.04		10	
Vinyl bromide		ND	2.00	ND	8.74		10	
Vinyl chloride		ND	2.00	ND	5.11		10	



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	Project Name:	STEEL EQUITIES				Lab N	lumber:	L080269	4
_	Project Number:	Not Specified				Repo	rt Date:	03/05/08	
			S	AMPLE RE	SULTS				
-	Lab ID: Client ID: Sample Location:	L0802694-01 💉 🕻 SS-01 BETHPAGE NY	)L			Date Date I Field	Collected: Received: Pren:	02/25/0 02/26/0 Not Spe	8 18:02 8 cified
-	Matrix: Anaytical Method: Analytical Date:	Air 48,TO-15 03/05/08 14:19						Not opt	Junea
-	Analyst:	НМ							
			ppbV		ug/m3			Dilution	
	Parameter		Results	RDL	Results	RDL	Qualifier	Factor	
	Low Level Volatile	Organic Compounds	in Air	-					
	1,1,1-Trichloroethane		6120	32.4	33400	176		161.8	
-	1,1-Dichloroethane		791	32.4	3200	131		161.8	
-					Quarter Sec	form	1		
_					see				



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L0802694

03/05/08

Project Name: STEEL EQUITIES

Project Number: Not Specified

#### SAMPLE RESULTS

Lab ID:	L0802694-02
Client ID:	SS-02
Sample Location:	BETHPAGE, NY
Matrix:	Air
Anaytical Method:	48,TO-15
Analytical Date:	03/03/08 14:58
Analyst:	НМ

Date Collected:02/25/08 18:01Date Received:02/26/08Field Prep:Not Specified

Lab Number:

**Report Date:** 

	ppbV		ug/m	3		Dilution
Parameter	Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile Organic Cor	mpounds in Air					
1,1,1-Trichloroethane	230	2.00	1260	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	32.2	2.00	130	8.09		10
1,1-Dichloroethene	3.61	2.00	14.3	7.92		10
1,2,4-Trichlorbenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dioxane	ND	2.00	ND	7.20		10
2,2,4-Trimethylpentane	ND	2.00	ND	9.34		10
2-Butanone	ND	2.00	ND	5.89		10
2-Hexanone	ND	2.00	ND	8.19		10
3-Chloropropene	ND	2.00	ND	6.26		10
4-Ethyltoluene	ND	2.00	ND	9.82		10
Acetone	2.52	2.00	5.98	4.75	J	10
Benzene	ND	2.00	ND	6.38	4	10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromodichloromethane	ND	2.00	ND	13.4		10



Project Number: Not Specified

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Lab Number: L08

Report Date: 03/

L0802694 **03/05/08** 

# SAMPLE RESULTS

Lab ID:	L0802694-02				Date	Collected:	02/25/08 18:01
Cilent ID: Sample Location:	SS-UZ BETHDAGE NV				Date	Received:	UZ/20/U8 Not Specified
Cample Eccation.	DETTI AGE, MI	Vdaa		ua/m3		пер.	Dilution
Parameter		Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile	Organic Compounds	in Air					
Bromoform		ND	2.00	ND	20.6		10
Bromomethane		ND	2.00	ND	7.76		10
Carbon disulfide		ND	2.00	ND	6.22		10
Carbon tetrachloride		4.22	2.00	26.5	12.6		10
Chlorobenzene		ND	2.00	ND	9.20		10
Chloroethane		ND	2.00	ND	5.27		10
Chloroform		5.49	2.00	26.8	9.76		10
Chloromethane		ND	2.00	ND	4.13		10
cis-1,2-Dichloroethene		ND	2.00	ND	7.92		10
cis-1,3-Dichloropropene	•	ND	2.00	ND	9.07		10
Cyclohexane		ND	2.00	ND	6.88		10
Dibromochloromethane		ND	2.00	ND	17.0		10
Dichlorodifluoromethane	9	ND	2.00	ND	9.88		10
Ethanol		ND	25.0	ND	47.1		10
Ethyl Acetate		ND	5.00	ND	18.0		10
Ethylbenzene		ND	2.00	ND	8.68		10
Freon-113		4.86	2.00	37.2	15.3		10
Freon-114		ND	2.00	ND	14.0		10
Hexachlorobutadiene		ND	2.00	ND	21.3		10
isopropanol		ND	5.00	ND	12.3		10
Methylene chloride		ND	2.00	ND	6.94		10
4-Methyl-2-pentanone		ND	2.00	ND	8.19		10
Methyl tert butyl ether		ND	2.00	ND	7.20		10
p/m-Xylene		ND	4.00	ND	17.4		10
o-Xylene		ND	2.00	ND	8.68		10
Heptane		ND	2.00	ND	8.19		10
n-Hexane		ND	2.00	ND	7.04		10
Propylene		ND	2.00	ND	3.44		10



Project Number: Not Specified

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Lab Number: L0802694

Report Date: 03/05/08

# SAMPLE RESULTS

Lab ID:L0802694-02Client ID:SS-02Sample Location:BETHPAGE, NY					Date Date Field	Collected: Received: Prep:	02/25/08 18:01 02/26/08 Not Specified
		ppbV		ug/m3			Dilution
Parameter		Results	RDL	Results	RDL	Qualifier	
Low Level Volatile (	Drganic Compounds	in Air					
Styrene		ND	2.00	ND	8.51		10
Tetrachloroethene		20.4	2.00	138	13.6		10
Tetrahydrofuran		ND	2.00	ND	5.89		10
Toluene		ND	2.00	ND	7.53		10
trans-1,2-Dichloroethene	9	ND	2.00	ND	7.92		10
trans-1,3-Dichloroproper	ne	ND	2.00	ND	9.07		10
Trichloroethene		135	2.00	723	10.7		10
Trichlorofluoromethane		ND	2.00	ND	11.2		10
Vinyt acetate		ND	2.00	ND	7.04		10
Vinyl bromide		ND	2.00	ND	8.74		10
Vinyl chloride		ND	2.00	ND	5.11		10



03050815:58

Project Name: STEEL EQUITIES

Project Number: Not Specified Lab Number: L0802694 **Report Date:** 

03/05/08

# SAMPLE RESULTS

Lab ID:	L0802694-03
Client ID:	SS-03
Sample Location:	BETHPAGE, NY
Matrix:	Air
Anaytical Method:	48,TO-15
Analytical Date:	03/03/08 15:35
Analyst:	НМ

Date Collected: 02/25/08 17:58 Date Received: 02/26/08 Field Prep: Not Specified

	ppbV		ug/m		Dilution	
Parameter	Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile Organic Com	npounds in Air					
1,1,1-Trichloroethane	376	2.00	2050	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	ND	2.00	ND	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorbenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	ND	2.00	ND	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	ND	2.00	ND	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dioxane	ND	2.00	ND	7.20		10
2,2,4-Trimethylpentane	ND	2.00	ND	9.34		10
2-Butanone	5.12	2.00	15.1	5.89	J	10
2-Hexanone	ND	2.00	ND	8.19	-	10
3-Chloropropene	ND	2.00	ND	6.26		10
4-Ethyltoluene	ND	2.00	ND	9.82		10
Acetone	40.6	2.00	96.3	4.75	J	10
Benzene	ND	2.00	ND	6.38	-	10
Benzyl chloride	ND	2.00	ND	10.3	ж.	10
Bromodichloromethane	ND	2.00	ND	13.4		10

ALPHA

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Project Number: Not Specified

03050815:58

Lab Number: L0802694

**Report Date:** 

03/05/08

# SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L0802694-03 SS-03 BETHPAGE, NY				Date Date Field	Collected: Received: Prep:	02/25/08 17:58 02/26/08 Not Specified	
	521111102,111	vobV		ug/m	3		Dilution	
Parameter		Results	RDL	Results	RDL	Qualifier	Factor	
Low Level Volatile	Organic Compounds	in Air						
Bromoform		ND	2.00	ND	20.6		10	
Bromomethane		ND	2.00	ND	7.76		10	
Carbon disulfide		ND	2.00	ND	6.22		10	
Carbon tetrachloride		ND	2.00	ND	12.6		10	
Chlorobenzene		ND	2.00	ND	9.20		10	
Chloroethane		ND	2.00	ND	5.27		10	
Chloroform		4.91	2.00	24.0	9.76		10	
Chloromethane		ND	2.00	ND	4.13		10	
cis-1,2-Dichloroethene		ND	2.00	ND	7.92		10	
cis-1,3-Dichloropropene	•	ND	2.00	ND	9.07		10	
Cyclohexane		ND	2.00	ND	6.88		10	
Dibromochloromethane		ND	2.00	ND	17.0		10	
Dichlorodifluoromethan	Э	ND	2.00	ND	9.88		10	
Ethanol		49.6	25.0	93.4	47.1		10	
Ethyl Acetate		ND	5.00	ND	18.0		10	
Ethylbenzene		ND	2.00	ND	8.68		10	
Freon-113		ND	2.00	ND	15.3		10	
Freon-114		ND	2.00	ND	14.0		10	
Hexachlorobutadiene		ND	2.00	ND	21.3		10	
Isopropanol		ND	5.00	ND	12.3		10	
Methylene chloride		ND	2.00	ND	6.94		10	
4-Methyl-2-pentanone		ND	2.00	ND	8.19		10	
Methyl tert butyl ether		ND	2.00	ND	7.20		10	
p/m-Xylene		ND	4.00	ND	17.4		10	
o-Xylene		ND	2.00	ND	8.68		10	
Heptane		ND	2.00	ND	8.19		10	
n-Hexane		ND	2.00	ND	7.04		10	
Propylene		ND	2.00	ND	3.44		10	



Project Number: Not Specified

Lab Number: L0802694

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Report Date: 03/05/08

# SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L0802694-03 SS-03 BETHPAGE, NY				Date Date Field	Collected: Received: Prep:	02/25/08 17:58 02/26/08 Not Specified	
		ррьу	/	ug/m	3		Dilution	
Parameter		Results	RDL	Results	RDL	Qualifier	Factor	
Low Level Volatile	Organic Compounds	in Air						
Styrene		ND	2.00	ND	8.51		10	
Tetrachloroethene		ND	2.00	ND	13.6		10	
Tetrahydrofuran		ND	2.00	ND	5.89		10	
Toluene		3.10	2.00	11.7	7.53		10	
trans-1,2-Dichloroethen	e	ND	2.00	ND	7.92		10	
trans-1,3-Dichloroprope	ne	ND	2.00	ND	9.07		10	
Trichloroethene		246	2.00	1320	10.7		10	
Trichlorofluoromethane		2.44	2.00	13.7	11.2		10	
Vinyl acetate		ND	2.00	ND	7.04		10	
Vinyl bromide		ND	2.00	ND	8.74		10	
Vinyl chloride		ND	2.00	ND	5.11		10	

(10)

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03050815:58

L0802694

03/05/08

# Project Name: STEEL EQUITIES

Project Number: Not Specified

#### Specified

SAMPLE RESULTS

# Lab ID:L0802694-04 pClient ID:SS-04Sample Location:BETHPAGE, NYMatrix:AirAnaytical Method:48,TO-15Analytical Date:03/03/08 18:41Analyst:HM

Date Collected:02/25/08 17:39Date Received:02/26/08Field Prep:Not Specified

Lab Number:

**Report Date:** 

	ppbV		ug/m	3		Dilution
Parameter	Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile Organic Compo	unds in Air					
1,1,1-Trichloroethane	0.735	0.500	4.01	2.72		2.5
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		2.5
1,1,2-Trichloroethane	ND	0.500	ND	2.72		2.5
1,1-Dichloroethane	ND	0.500	ND	2.02		2.5
1,1-Dichloroethene	ND	0.500	ND	1.98		2.5
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		2.5
1,2,4-Trimethylbenzene	13.8	0.500	67.8	2.46		2.5
1,2-Dibromoethane	ND	0.500	ND	3.84		2.5
1,2-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,2-Dichloroethane	ND	0.500	ND	2.02		2.5
1,2-Dichloropropane	ND	0.500	ND	2.31		2.5
1,3,5-Trimethybenzene	4.95	0.500	24.3	2.46		2.5
1,3-Butadiene	0.832	0.500	1.84	1.10		2.5
1,3-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dichlorobenzene	ND	0.500	ND	3.00		2.5
1,4-Dioxane	ND	0.500	ND	1.80		2.5
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		2.5
2-Butanone	5.83	0.500	17.2	1.47	J	2.5
2-Hexanone	ND	0.500	ND	2.05		2.5
3-Chloropropene	ND	0.500	ND	1.56		2.5
4-Ethyltoluene	2.08	0.500	10.2	2.46		2.5
Acetone	138	0.500	327	1.19	J	2.5
Benzene	1.28	0.500	4.10	1.60	•	2.5
Benzyl chloride	ND	0.500	ND	2.59		2.5
Bromodichloromethane	ND	0.500	ND	3.35		2.5

# Project Name:STEEL EQUITIESProject Number:Not Specified

03050815:58

Lab Number: L0802694

Report Date: 0

03/05/08

# SAMPLE RESULTS

Lab ID: Client ID:	L0802694-04 🕅 SS-04				Date Date	Collected: Received:	02/25/08 17:39 02/26/08
Sample Location:	BETHPAGE, NY				Field	Prep:	Not Specified
		рръV		ug/m3	;		Dilution
Parameter		Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile	Organic Compounds	in Air					
Bromoform		ND	0.500	ND	5.16		2.5
Bromomethane		ND	0.500	ND	1.94		2.5
Carbon disulfide		1.27	0.500	3.96	1.56		2.5
Carbon tetrachloride		ND	0.500	ND	3.14		2.5
Chlorobenzene		ND	0.500	ND	2.30		2.5
Chloroethane		ND	0.500	ND	1.32		2.5
Chloroform		0.760	0.500	3.71	2.44		2.5
Chloromethane		ND	0.500	ND	1.03		2.5
cis-1,2-Dichloroethene		0.729	0.500	2.89	1.98		2.5
cis-1,3-Dichloropropene	•	ND	0.500	ND	2.27		2.5
Cyclohexane		ND	0.500	ND	1.72		2.5
Dibromochloromethane		ND	0.500	ND	4.26		2.5
Dichlorodifluoromethan	9	ND	0.500	ND	2.47		2.5
Ethanol		24.8	6.25	46.7	11.8		2.5
Ethyl Acetate		ND	1.25	ND	4.50		2.5
Ethylbenzene		3.93	0.500	17.1	2.17		2.5
Freon-113		ND	0.500	ND	3.83		2.5
Freon-114		ND	0.500	ND	3.49		2.5
Hexachlorobutadiene		ND	0.500	ND	5.33		2.5
Isopropanol		3.15	1.25	7.74	3.07		2.5
Methylene chloride		ND	0.500	ND	1.74		2.5
4-Methyl-2-pentanone		72.6	0.500	297	2.05		2.5
Methyl tert butyl ether		ND	0.500	ND	1.80		2.5
p/ <b>m-Xylene</b>		21.0	1.00	91.3	4.34		2.5
o-Xylene		8.31	0.500	36.1	2.17		2.5
Heptane		0.718	0.500	2.94	2.05		2.5
n-Hexane		0.645	0.500	2.27	1.76		2.5
Propylene		4.85	0.500	8.34	0.860		2.5



Project Number: Not Specified

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03050815:58

Lab Number: L0802694 Report Date: 03/05/08

#### SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L0802694-04 X SS-04 BETHPAGE, NY				Date Date Field	Collected: Received: Prep:	02/25/08 17:39 02/26/08 Not Specified
		ppb\	·	ug/m	3		Dilution
Parameter		Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile	Organic Compounds	in Air					
Styrene		ND	0.500	ND	2.13		2.5
Tetrachloroethene		0.934	0.500	6.33	3.39		2.5
Tetrahydrofuran		ND	0.500	ND	1.47		2.5
Toluene		5.87	0.500	22.1	1.88		2.5
trans-1,2-Dichloroethen	8	ND	0.500	ND	1.98		2.5
trans-1,3-Dichloroprope	ne	ND	0.500	ND	2.27		2.5
Trichloroethene		135	0.500	724	2.68		2.5
Trichlorofluoromethane		0.625	0.500	3.51	2.81		2.5
Vinyl acetate		ND	0.500	ND	1.76		2.5
Vinyl bromide		ND	0.500	ND	2.18		2.5
Vinyl chloride		ND	0.500	ND	1.28		2.5



03050815:58

**Project Name:** STEEL EQUITIES

Project Number: Not Specified

L0802694 **Report Date:** 03/05/08

Lab Number:

# SAMPLE RESULTS

Lab ID:	L0802694-05
Client ID:	SS-05
Sample Location	: BETHPAGE, NY
Matrix:	Air
Anaytical Method	l: 48,TO-15
Analytical Date:	03/03/08 16:47
Analyst:	HM

Date Collected:	02/25/08 17:40
Date Received:	02/26/08
Field Prep:	Not Specified

	Vdqq		ug/m	3		Dilution
Parameter	Results	RDL	Results	RDL	Qualifier	
Low Level Volatile Organic Compo	ounds in Air					
1,1,1-Trichloroethane	2.15	2.00	11.7	10.9		10
1,1,2,2-Tetrachloroethane	ND	2.00	ND	13.7		10
1,1,2-Trichloroethane	ND	2.00	ND	10.9		10
1,1-Dichloroethane	ND	2.00	ND	8.09		10
1,1-Dichloroethene	ND	2.00	ND	7.92		10
1,2,4-Trichlorbenzene	ND	2.00	ND	14.8		10
1,2,4-Trimethylbenzene	35.7	2.00	175	9.82		10
1,2-Dibromoethane	ND	2.00	ND	15.4		10
1,2-Dichlorobenzene	ND	2.00	ND	12.0		10
1,2-Dichloroethane	ND	2.00	ND	8.09		10
1,2-Dichloropropane	ND	2.00	ND	9.24		10
1,3,5-Trimethybenzene	5.16	2.00	25.4	9.82		10
1,3-Butadiene	ND	2.00	ND	4.42		10
1,3-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dichlorobenzene	ND	2.00	ND	12.0		10
1,4-Dioxane	ND	2.00	ND	7.20		10
2,2,4-Trimethylpentane	ND	2.00	ND	9.34		10
2-Butanone	8.24	2.00	24.3	5.89	J	10
2-Hexanone	ND	2.00	ND	8.19		10
3-Chloropropene	ND	2.00	ND	6.26		10
4-Ethyltoluene	3.30	2.00	16.2	9.82		10
Acetone	58.2	2.00	138	4.75	J	10
Benzene	ND	2.00	ND	6.38		10
Benzyl chloride	ND	2.00	ND	10.3		10
Bromodichloromethane	ND	2.00	ND	13.4		10



L0802694-05

Project Number: Not Specified

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Lab ID:

Lab Number: L0802694

Report Date: 03/05/08

Date Collected:

# 02/25/08 17:40

Client ID:	SS-05				Date	Received:	02/26/08
Sample Location:	BETHPAGE, NY					Prep:	Not Specified
Parameter		Results		Results	RDL	Qualifier	Dilution Factor
Low Level Volatile	Organic Compounds	in Air					
Bromoform	2 .	ND	2.00	ND	20.6		10
Bromomethane		ND	2.00	ND	7.76		10
Carbon disulfide		ND	2.00	ND	6.22		10
Carbon tetrachloride		ND	2.00	ND	12.6		10
Chlorobenzene		ND	2.00	ND	9.20		10
Chloroethane		ND	2.00	ND	5.27		10
Chioroform		ND	2.00	ND	9.76		10
Chloromethane		ND	2.00	ND	4.13		10
cis-1,2-Dichloroethene		ND	2.00	ND	7.92		10
cis-1,3-Dichloropropene		ND	2.00	ND	9.07		10
Cyclohexane		ND	2.00	ND	6.88		10
Dibromochloromelhane		ND	2.00	ND	17.0		10
Dichlorodifluoromethane	9	ND	2.00	ND	9.88		10
Ethanol		134	25.0	252	47.1		10
Ethyl Acetate		ND	5.00	ND	18.0		10
Ethylbenzene		ND	2.00	ND	8.68		10
Freon-113		ND	2.00	ND	15.3		10
Freon-114		ND	2.00	ND	14.0		10
Hexachlorobutadiene		ND	2.00	ND	21.3		10
Isopropanol		ND	5.00	ND	12.3		10
Methylene chloride		ND	2.00	ND	6.94		10
4-Methyl-2-pentanone		ND	2.00	ND	8.19		10
Methyl tert butyl elher		ND	2.00	ND	7.20		10
p/m-Xylene		ND	4.00	ND	17.4		10
o-Xylene		ND	2.00	ND	8.68		10
Heptane		ND	2.00	ND	8.19		10
n-Hexane		ND	2.00	ND	7.04		10
Propylene		ND	2.00	ND	3.44		10

SAMPLE RESULTS



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Project Number: Not Specified

03050815:58

Lab Number: L0802694

**Report Date:** 03/05/08

# SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L0802694-05 SS-05 BETHPAGE, NY				Date Date Field	Collected: Received: Prep:	02/25/08 17:40 02/26/08 Not Specified
		ppbV	1	ug/m	3		Dilution
Parameter	· · · · · · · · · · · · · · · · · · ·	Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile	Organic Compounds	in Air					
Styrene		ND	2.00	ND	8.51		10
Tetrachloroethene		ND	2.00	ND	13.6		10
Tetrahydrofuran		ND	2.00	ND	5.89		10
Toluene		5.82	2.00	21.9	7.53		10
trans-1,2-Dichloroethen	e	ND	2.00	ND	7.92		10
trans-1,3-Dichloroprope	ne	ND	2.00	ND	9.07		10
Trichloroethene		54.1	2.00	290	10.7		10
Trichlorofluoromethane		ND	2.00	ND	11.2		10
Vinyl acetate		ND	2.00	ND	7.04		10
Vinyl bromide		ND	2.00	ND	8.74		10
Vinyl chloride		ND	2.00	ND	5.11		10



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#### Project Name: STEEL EQUITIES

Project Number: Not Specified

# SAMPLE RESULTS

		1
	Lab ID:	L0802694-06 🛒
	Client ID:	SS-06
	Sample Location:	BETHPAGE, NY
-	Matrix:	Air
	Anaytical Method:	48,TO-15
	Analytical Date:	03/04/08 07:50
	Analyst:	НМ

Date Collected: 02/25/08 17:55 Date Received: 02/26/08 Field Prep: Not Specified

	ppbV		ug/m	3		Dilution
Parameter	Results	RDL	Results	RDL	Qualifier	Factor
Low Level Volatile Organic Con	npounds in Air					
1,1,1-Trichloroethane	4.34	0.400	23.7	2.18		2
1,1,2,2-Tetrachloroethane	ND	0.400	ND	2.74		2
1,1,2-Trichloroethane	ND	0.400	ND	2.18		2
1,1-Dichloroethane	ND	0.400	ND	1.62		2
1,1-Dichloroethene	ND	0.400	ND	1.58		2
1,2,4-Trichlorbenzene	ND	0.400	ND	2.97		2
1,2,4-Trimethylbenzene	2.53	0.400	12.4	1.96		2
1,2-Dibromoethane	ND	0.400	ND	3.07		2
1,2-Dichlorobenzene	ND	0.400	ND	2.40		2
1,2-Dichloroethane	ND	0.400	ND	1.62		2
1,2-Dichloropropane	ND	0.400	ND	1.85		2
1,3,5-Trimethybenzene	0.673	0.400	3.30	1.96		2
1,3-Butadiene	ND	0.400	ND	0.884		2
1,3-Dichlorobenzene	ND	0.400	ND	2.40		2
1,4-Dichlorobenzene	ND	0.400	ND	2.40		2
1,4-Dioxane	ND	0.400	ND	1.44		2
2,2,4-Trimethylpentane	ND	0.400	ND	1.87		2
2-Butanone	3.75	0.400	11.0	1.18	5	2
2-Hexanone	ND	0.400	ND	1.64		2
3-Chloropropene	ND	0.400	ND	1.25		2
4-Ethyltoluene	0.606	0.400	2.98	1.96		2
Acetone	24.8	0.400	58.8	0.949	J	2
Benzene	0.791	0.400	2.53	1.28	-	2
Benzyl chloride	ND	0.400	ND	2.07		2
Bromodichloromethane	ND	0.400	ND	2.68		2

03050815:58

Lab Number: L0802694 **Report Date:** 

03/05/08

# Project Name:STEEL EQUITIESProject Number:Not Specified

03050815:58

Lab Number: L0802694

Report Date: 03/05/08

## SAMPLE RESULTS

	Lab ID: Client ID: Sample Location:	L0802694-06 R SS-06 BETHPAGE, NY	nnhV		ug/m3	Date Date Field	Collected: Received: Prep:	02/25/08 17:55 02/26/08 Not Specified
	Parameter		Results	RDL	Results	RDL	Qualifier	Factor
_	Low Level Volatile	Organic Compounds	in Air					
, -	Bromoform		ND	0.400	ND	4.13		2
	Bromomethane		ND	0.400	ND	1.55		2
	Carbon disulfide		0.630	0.400	1.96	1.24		2
	Carbon tetrachloride		ND	0.400	ND	2.51		2
-	Chlorobenzene		ND	0.400	ND	1.84		2
	Chloroethane		ND	0.400	ND	1.05		2
_	Chloroform		3.20	0.400	15.6	1.95		2
	Chloromethane		ND	0.400	ND	0.825		2
	cis-1,2-Dichloroethene		ND	0.400	ND	1.58		2
	cis-1,3-Dichloropropene		ND	0.400	ND	1.81		2
	Cyclohexane		ND	0.400	ND	1.38		2
	Dibromochloromethane		ND	0.400	ND	3.40		2
	Dichlorodifluoromethane		1.47	0.400	7.25	1.98		2
	Ethanol		5.08	5.00	9.56	9.41		2
	Ethyl Acetate		ND	1.00	ND	3.60		2
	Ethylbenzene		0.888	0.400	3.85	1.74		2
	Freon-113		ND	0.400	ND	3.06		2
	Freon-114		ND	0.400	ND	2.79		2
	Hexachlorobutadiene		ND	0.400	ND	4.26		2
	Isopropanol		2.50	1.00	6.15	2.46		2
-	Methylene chloride		ND	0.400	ND	1.39		2
	4-Methyl-2-pentanone		1.49	0.400	6.10	1.64		2
	Methyl tert butyl ether		ND	0.400	ND	1.44		2
	p/m-Xylene		3.24	0.800	14.0	3.47		2
	o-Xylene		0.804	0.400	3.49	1.74		2
-	Heptane		0.567	0.400	2.32	1.64		2
	n-Hexane		0.630	0.400	2.22	1.41		2
	Propylene		ND	0.400	ND	0.688		2



Project Number: Not Specified

030508	15:58
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Lab Number: L0802694

**Report Date:** 03/05/08

# SAMPLE RESULTS

Lab ID: Client ID: Sample Location:	L0802694-06 R SS-06 BETHPAGE, NY				Date Date Field	Collected: Received: Prep:	02/25/08 17:55 02/26/08 Not Specified	
		ppbV		ug/m3			Dilution	
Parameter		Results	RDL	Results	RDL	Qualifier	Factor	
Low Level Volatile	Organic Compounds	in Air						
Styrene		ND	0.400	ND	1.70		2	
Tetrachloroethene		0.421	0.400	2.86	2.71		2	
Tetrahydrofuran		ND	0.400	ND	1.18		2	
Toluene		3.78	0.400	14.2	1.51		2	
trans-1,2-Dichloroethene		ND	0.400	ND	1.58		2	
trans-1,3-Dichloropropene		ND	0.400	ND	1.81		2	
Trichloroethene		73.6	0.400	395	2.15		2	
Trichlorofluoromethane		2.99	0.400	16.8	2.24		2	
Vinyl acetate		ND	0.400	ND	1.41		2	
Vinyl bromide		ND	0.400	ND	1.75		2	
Vinyl chloride		ND	0.400	ND	1.02		2	



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

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