

# EDGEWATER ENVIRONMENTAL

## MEMORANDUM

DATE: April 14, 2016  
TO: Kevin Lumpe and Manfred Bohms  
Steel Equities  
FROM: Stephen Hix  
SUBJECT: 15 Grumman Road Lower Level  
Indoor Air Quality Sampling Results – Preliminary Review

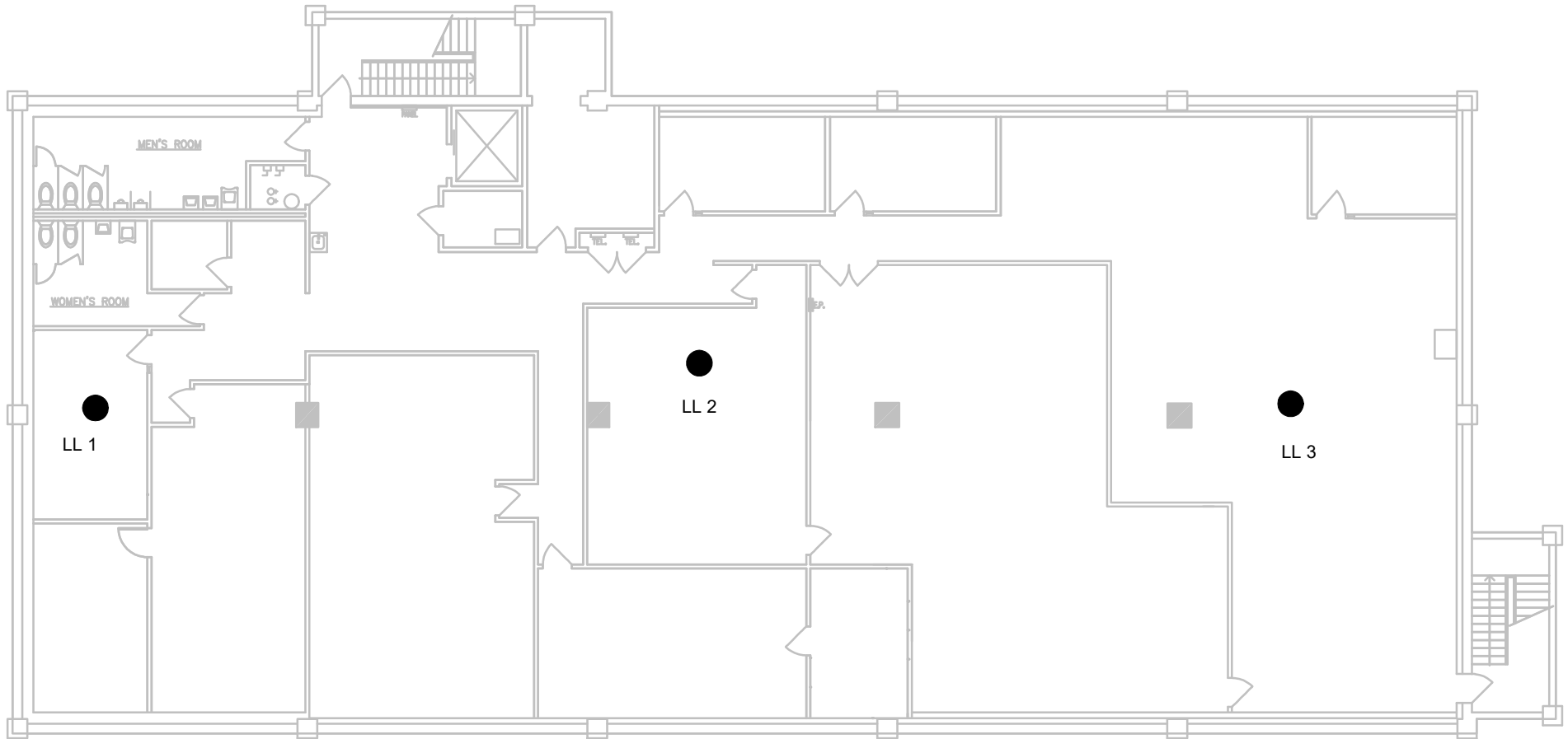
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As requested, this memo summarizes the preliminary findings from the indoor air sampling work. Three samples were collected on the lower basement level of the building at 15 Grumman Road in an area specified by Steel Equities and a control sample was collected outdoors under the tree near the northern entrance door. The sample locations are shown on the attached sketch. Edgewater Environmental collected the samples in 1-liter *MiniCan* canisters over an 8-hour period on April 4, 2016. The sample canisters were shipped to Centek Laboratories for volatile organic analysis using EPA Method TO-15. The findings of the analysis are summarized in the attached table. The laboratory reports are also attached.

The typical compounds of concern, 1,1,1-trichloroethane (TCA), tetrachloroethene (PCE) and trichloroethene (TCE) were not detected in any of the samples. Based on a preliminary review of the compounds detected, none appear to be found at a significant concentration.

# 15 GRUMMAN ROAD LOWER LEVEL AIR SAMPLE LOCATIONS

● AA - OUTDOORS  
GROUND LEVEL  
UNDER TREE



15 GRUMMAN ROAD - LOWER LEVEL  
TO-15 ANALYSIS - VOLATILE ORGANIC COMPOUNDS

Analyte	SAMPLE ID			
	LL1	LL2	LL3	AA
	Q	Q	Q	Q
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	0.59 J	0.54 J
1,2-Dibromoethane	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND
1,3-butadiene	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	12	6.9	9.2	ND
1,4-Dioxane	0.43 J	0.36 J	ND	0.43 J
2,2,4-trimethylpentane	ND	ND	ND	0.61 J
4-ethyltoluene	ND	ND	ND	ND
Acetone	13	15	16	15
Allyl chloride	ND	ND	ND	ND
Benzene	0.73	0.8	0.73	0.99
Benzyl chloride	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND
Carbon tetrachloride	0.88 J	0.94	0.94	0.94
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND
Chloromethane	1.5	1.7	1.6	1.7
cis-1,2-Dichloroethene	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND
Cyclohexane	ND	1.5	ND	0.93
Dibromochloromethane	ND	ND	ND	ND
Ethyl acetate	0.54 J	0.47 J	0.47 J	0.54 J
Ethylbenzene	ND	ND	ND	ND
Freon 11	2.5	2.4	2.5	2.1
Freon 113	1 J	1.1 J	1.1 J	1 J
Freon 114	ND	ND	ND	ND
Freon 12	78	51	84	3.9
Heptane	ND	ND	ND	0.49 J
Hexachloro-1,3-butadiene	ND	ND	ND	ND
Hexane	ND	0.6	0.56	0.6
Isopropyl alcohol	6.5	4.9	6.3	1.4
m&p-Xylene	0.82 J	0.78 J	0.87 J	0.91 J
Methyl Butyl Ketone	0.45 J	0.45 J	0.49 J	0.45 J
Methyl Ethyl Ketone	1.3	1.3	1.5	0.77 J
Methyl Isobutyl Ketone	0.53 J	0.41 J	ND	0.49 J
Methyl tert-butyl ether	ND	ND	ND	ND
Methylene chloride	1.5	1.6	1.5	1.4
o-Xylene	ND	ND	ND	ND
Propylene	ND	ND	ND	ND
Styrene	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND
Toluene	2.6	2.2	2.3	1.4
trans-1,2-Dichloroethene	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Vinyl acetate	ND	ND	ND	ND
Vinyl Bromide	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND

Units: ug/m<sup>3</sup> Q = Qualifier J = estimated value below reporting limit

# Centek Laboratories, LLC

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-001A

**Client Sample ID:** LL 1  
**Tag Number:** 475 340  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>			<b>FLD</b>		Analyst:	
Lab Vacuum In	-8			"Hg		4/7/2016
Lab Vacuum Out	-30			"Hg		4/7/2016
<b>1UG/M3 BY METHOD TO15</b>			<b>TO-15</b>		Analyst: RJP	
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 5:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 5:50:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 5:50:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 5:50:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 5:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 5:50:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/7/2016 5:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 5:50:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 5:50:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 5:50:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 5:50:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/7/2016 5:50:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 5:50:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 5:50:00 PM
1,4-Dichlorobenzene	12	0.90		ug/m3	1	4/7/2016 5:50:00 PM
1,4-Dioxane	0.43	1.1	J	ug/m3	1	4/7/2016 5:50:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/7/2016 5:50:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/7/2016 5:50:00 PM
Acetone	13	3.6		ug/m3	5	4/8/2016 4:37:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 5:50:00 PM
Benzene	0.73	0.48		ug/m3	1	4/7/2016 5:50:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 5:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 5:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 5:50:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 5:50:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 5:50:00 PM
Carbon tetrachloride	0.88	0.94	J	ug/m3	1	4/7/2016 5:50:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 5:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 5:50:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	4/7/2016 5:50:00 PM
Chloromethane	1.5	0.31		ug/m3	1	4/7/2016 5:50:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 5:50:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 5:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/7/2016 5:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 5:50:00 PM
Ethyl acetate	0.54	0.90	J	ug/m3	1	4/7/2016 5:50:00 PM

**Qualifiers:** \*\* Reporting Limit . Results reported are not blank corrected  
 B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits  
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Centek Laboratories, LLC

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-001A

**Client Sample ID:** LL 1  
**Tag Number:** 475 340  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>1UG/M3 BY METHOD TO15</b>		<b>TO-15</b>		Analyst: RJP		
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/7/2016 5:50:00 PM
Freon 11	2.5	0.84		ug/m3	1	4/7/2016 5:50:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	4/7/2016 5:50:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 5:50:00 PM
Freon 12	78	3.7		ug/m3	5	4/8/2016 4:37:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/7/2016 5:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/7/2016 5:50:00 PM
Hexane	< 0.53	0.53		ug/m3	1	4/7/2016 5:50:00 PM
Isopropyl alcohol	6.5	1.8		ug/m3	5	4/8/2016 4:37:00 AM
m&p-Xylene	0.82	1.3	J	ug/m3	1	4/7/2016 5:50:00 PM
Methyl Butyl Ketone	0.45	1.2	J	ug/m3	1	4/7/2016 5:50:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	4/7/2016 5:50:00 PM
Methyl Isobutyl Ketone	0.53	1.2	J	ug/m3	1	4/7/2016 5:50:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/7/2016 5:50:00 PM
Methylene chloride	1.5	0.52		ug/m3	1	4/7/2016 5:50:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	4/7/2016 5:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/7/2016 5:50:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/7/2016 5:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/7/2016 5:50:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/7/2016 5:50:00 PM
Toluene	2.6	0.57		ug/m3	1	4/7/2016 5:50:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 5:50:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 5:50:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	4/7/2016 5:50:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/7/2016 5:50:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/7/2016 5:50:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	4/7/2016 5:50:00 PM

<b>Qualifiers:</b>	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

# Centek Laboratories, LLC

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-002A

**Client Sample ID:** LL 2  
**Tag Number:** 1289 343  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>			<b>FLD</b>		Analyst:	
Lab Vacuum In	-6			"Hg		4/7/2016
Lab Vacuum Out	-30			"Hg		4/7/2016
<b>1UG/M3 BY METHOD TO15</b>			<b>TO-15</b>		Analyst: RJP	
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 6:29:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 6:29:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 6:29:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 6:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 6:29:00 PM
1,2,4-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/7/2016 6:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 6:29:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 6:29:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 6:29:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 6:29:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/7/2016 6:29:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 6:29:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 6:29:00 PM
1,4-Dichlorobenzene	6.9	0.90		ug/m3	1	4/7/2016 6:29:00 PM
1,4-Dioxane	0.36	1.1	J	ug/m3	1	4/7/2016 6:29:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/7/2016 6:29:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/7/2016 6:29:00 PM
Acetone	15	3.6		ug/m3	5	4/8/2016 5:14:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 6:29:00 PM
Benzene	0.80	0.48		ug/m3	1	4/7/2016 6:29:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 6:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 6:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 6:29:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 6:29:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 6:29:00 PM
Carbon tetrachloride	0.94	0.94		ug/m3	1	4/7/2016 6:29:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 6:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 6:29:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	4/7/2016 6:29:00 PM
Chloromethane	1.7	0.31		ug/m3	1	4/7/2016 6:29:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 6:29:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 6:29:00 PM
Cyclohexane	1.5	0.52		ug/m3	1	4/7/2016 6:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 6:29:00 PM
Ethyl acetate	0.47	0.90	J	ug/m3	1	4/7/2016 6:29:00 PM

**Qualifiers:** \*\* Reporting Limit . Results reported are not blank corrected  
 B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits  
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

# Centek Laboratories, LLC

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-002A

**Client Sample ID:** LL 2  
**Tag Number:** 1289 343  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>1UG/M3 BY METHOD TO15</b>		<b>TO-15</b>		Analyst: RJP		
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/7/2016 6:29:00 PM
Freon 11	2.4	0.84		ug/m3	1	4/7/2016 6:29:00 PM
Freon 113	1.1	1.1	J	ug/m3	1	4/7/2016 6:29:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 6:29:00 PM
Freon 12	51	3.7		ug/m3	5	4/8/2016 5:14:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/7/2016 6:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/7/2016 6:29:00 PM
Hexane	0.60	0.53		ug/m3	1	4/7/2016 6:29:00 PM
Isopropyl alcohol	4.9	1.8		ug/m3	5	4/8/2016 5:14:00 AM
m&p-Xylene	0.78	1.3	J	ug/m3	1	4/7/2016 6:29:00 PM
Methyl Butyl Ketone	0.45	1.2	J	ug/m3	1	4/7/2016 6:29:00 PM
Methyl Ethyl Ketone	1.3	0.88		ug/m3	1	4/7/2016 6:29:00 PM
Methyl Isobutyl Ketone	0.41	1.2	J	ug/m3	1	4/7/2016 6:29:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/7/2016 6:29:00 PM
Methylene chloride	1.6	0.52		ug/m3	1	4/7/2016 6:29:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	4/7/2016 6:29:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/7/2016 6:29:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/7/2016 6:29:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/7/2016 6:29:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/7/2016 6:29:00 PM
Toluene	2.2	0.57		ug/m3	1	4/7/2016 6:29:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 6:29:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 6:29:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	4/7/2016 6:29:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/7/2016 6:29:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/7/2016 6:29:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	4/7/2016 6:29:00 PM

<b>Qualifiers:</b>	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

**Centek Laboratories, LLC**

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-003A

**Client Sample ID:** LL 3  
**Tag Number:** 350 382  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>		<b>FLD</b>		Analyst:		
Lab Vacuum In	-5			"Hg		4/7/2016
Lab Vacuum Out	-30			"Hg		4/7/2016
<b>1UG/M3 BY METHOD TO15</b>		<b>TO-15</b>		Analyst: RJP		
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 7:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 7:08:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 7:08:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 7:08:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 7:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 7:08:00 PM
1,2,4-Trimethylbenzene	0.59	0.74	J	ug/m3	1	4/7/2016 7:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 7:08:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 7:08:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 7:08:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 7:08:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/7/2016 7:08:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 7:08:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 7:08:00 PM
1,4-Dichlorobenzene	9.2	0.90		ug/m3	1	4/7/2016 7:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	4/7/2016 7:08:00 PM
2,2,4-trimethylpentane	< 0.70	0.70		ug/m3	1	4/7/2016 7:08:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/7/2016 7:08:00 PM
Acetone	16	3.6		ug/m3	5	4/8/2016 5:51:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 7:08:00 PM
Benzene	0.73	0.48		ug/m3	1	4/7/2016 7:08:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 7:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 7:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 7:08:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 7:08:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 7:08:00 PM
Carbon tetrachloride	0.94	0.94		ug/m3	1	4/7/2016 7:08:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 7:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 7:08:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	4/7/2016 7:08:00 PM
Chloromethane	1.6	0.31		ug/m3	1	4/7/2016 7:08:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 7:08:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 7:08:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	4/7/2016 7:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 7:08:00 PM
Ethyl acetate	0.47	0.90	J	ug/m3	1	4/7/2016 7:08:00 PM

**Qualifiers:** \*\* Reporting Limit . Results reported are not blank corrected  
 B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits  
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits



# Centek Laboratories, LLC

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-003A

**Client Sample ID:** LL 3  
**Tag Number:** 350 382  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>1UG/M3 BY METHOD TO15</b>		<b>TO-15</b>		Analyst: RJP		
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/7/2016 7:08:00 PM
Freon 11	2.5	0.84		ug/m3	1	4/7/2016 7:08:00 PM
Freon 113	1.1	1.1	J	ug/m3	1	4/7/2016 7:08:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 7:08:00 PM
Freon 12	84	3.7		ug/m3	5	4/8/2016 5:51:00 AM
Heptane	< 0.61	0.61		ug/m3	1	4/7/2016 7:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/7/2016 7:08:00 PM
Hexane	0.56	0.53		ug/m3	1	4/7/2016 7:08:00 PM
Isopropyl alcohol	6.3	1.8		ug/m3	5	4/8/2016 5:51:00 AM
m&p-Xylene	0.87	1.3	J	ug/m3	1	4/7/2016 7:08:00 PM
Methyl Butyl Ketone	0.49	1.2	J	ug/m3	1	4/7/2016 7:08:00 PM
Methyl Ethyl Ketone	1.5	0.88		ug/m3	1	4/7/2016 7:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	4/7/2016 7:08:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/7/2016 7:08:00 PM
Methylene chloride	1.5	0.52		ug/m3	1	4/7/2016 7:08:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	4/7/2016 7:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/7/2016 7:08:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/7/2016 7:08:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/7/2016 7:08:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/7/2016 7:08:00 PM
Toluene	2.3	0.57		ug/m3	1	4/7/2016 7:08:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 7:08:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 7:08:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	4/7/2016 7:08:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/7/2016 7:08:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/7/2016 7:08:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	4/7/2016 7:08:00 PM

<b>Qualifiers:</b>	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

# Centek Laboratories, LLC

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-004A

**Client Sample ID:** AA  
**Tag Number:** 471 1166  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>FIELD PARAMETERS</b>						
			<b>FLD</b>			Analyst:
Lab Vacuum In	-4			"Hg		4/7/2016
Lab Vacuum Out	-30			"Hg		4/7/2016
<b>1UG/M3 BY METHOD TO15</b>						
		<b>TO-15</b>				Analyst: RJP
1,1,1-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 5:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	4/7/2016 5:11:00 PM
1,1,2-Trichloroethane	< 0.82	0.82		ug/m3	1	4/7/2016 5:11:00 PM
1,1-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 5:11:00 PM
1,1-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 5:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	4/7/2016 5:11:00 PM
1,2,4-Trimethylbenzene	0.54	0.74	J	ug/m3	1	4/7/2016 5:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	4/7/2016 5:11:00 PM
1,2-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 5:11:00 PM
1,2-Dichloroethane	< 0.61	0.61		ug/m3	1	4/7/2016 5:11:00 PM
1,2-Dichloropropane	< 0.69	0.69		ug/m3	1	4/7/2016 5:11:00 PM
1,3,5-Trimethylbenzene	< 0.74	0.74		ug/m3	1	4/7/2016 5:11:00 PM
1,3-butadiene	< 0.33	0.33		ug/m3	1	4/7/2016 5:11:00 PM
1,3-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 5:11:00 PM
1,4-Dichlorobenzene	< 0.90	0.90		ug/m3	1	4/7/2016 5:11:00 PM
1,4-Dioxane	0.43	1.1	J	ug/m3	1	4/7/2016 5:11:00 PM
2,2,4-trimethylpentane	0.61	0.70	J	ug/m3	1	4/7/2016 5:11:00 PM
4-ethyltoluene	< 0.74	0.74		ug/m3	1	4/7/2016 5:11:00 PM
Acetone	15	3.6		ug/m3	5	4/8/2016 4:00:00 AM
Allyl chloride	< 0.47	0.47		ug/m3	1	4/7/2016 5:11:00 PM
Benzene	0.99	0.48		ug/m3	1	4/7/2016 5:11:00 PM
Benzyl chloride	< 0.86	0.86		ug/m3	1	4/7/2016 5:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	4/7/2016 5:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	4/7/2016 5:11:00 PM
Bromomethane	< 0.58	0.58		ug/m3	1	4/7/2016 5:11:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	4/7/2016 5:11:00 PM
Carbon tetrachloride	0.94	0.94		ug/m3	1	4/7/2016 5:11:00 PM
Chlorobenzene	< 0.69	0.69		ug/m3	1	4/7/2016 5:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	4/7/2016 5:11:00 PM
Chloroform	< 0.73	0.73		ug/m3	1	4/7/2016 5:11:00 PM
Chloromethane	1.7	0.31		ug/m3	1	4/7/2016 5:11:00 PM
cis-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 5:11:00 PM
cis-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 5:11:00 PM
Cyclohexane	0.93	0.52		ug/m3	1	4/7/2016 5:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	4/7/2016 5:11:00 PM
Ethyl acetate	0.54	0.90	J	ug/m3	1	4/7/2016 5:11:00 PM

**Qualifiers:** \*\* Reporting Limit . Results reported are not blank corrected  
 B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded J Analyte detected at or below quantitation limits  
 JN Non-routine analyte. Quantitation estimated. ND Not Detected at the Reporting Limit  
 S Spike Recovery outside accepted recovery limits

**Centek Laboratories, LLC**

Date: 13-Apr-16

**CLIENT:** Edgewater Environmental, Inc.  
**Lab Order:** C1604021  
**Project:** 15 Grumman Rd  
**Lab ID:** C1604021-004A

**Client Sample ID:** AA  
**Tag Number:** 471 1166  
**Collection Date:** 4/4/2016  
**Matrix:** AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
<b>1UG/M3 BY METHOD TO15</b>		<b>TO-15</b>		Analyst: RJP		
Ethylbenzene	< 0.65	0.65		ug/m3	1	4/7/2016 5:11:00 PM
Freon 11	2.1	0.84		ug/m3	1	4/7/2016 5:11:00 PM
Freon 113	1.0	1.1	J	ug/m3	1	4/7/2016 5:11:00 PM
Freon 114	< 1.0	1.0		ug/m3	1	4/7/2016 5:11:00 PM
Freon 12	3.9	0.74		ug/m3	1	4/7/2016 5:11:00 PM
Heptane	0.49	0.61	J	ug/m3	1	4/7/2016 5:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	4/7/2016 5:11:00 PM
Hexane	0.60	0.53		ug/m3	1	4/7/2016 5:11:00 PM
Isopropyl alcohol	1.4	0.37		ug/m3	1	4/7/2016 5:11:00 PM
m&p-Xylene	0.91	1.3	J	ug/m3	1	4/7/2016 5:11:00 PM
Methyl Butyl Ketone	0.45	1.2	J	ug/m3	1	4/7/2016 5:11:00 PM
Methyl Ethyl Ketone	0.77	0.88	J	ug/m3	1	4/7/2016 5:11:00 PM
Methyl Isobutyl Ketone	0.49	1.2	J	ug/m3	1	4/7/2016 5:11:00 PM
Methyl tert-butyl ether	< 0.54	0.54		ug/m3	1	4/7/2016 5:11:00 PM
Methylene chloride	1.4	0.52		ug/m3	1	4/7/2016 5:11:00 PM
o-Xylene	< 0.65	0.65		ug/m3	1	4/7/2016 5:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	4/7/2016 5:11:00 PM
Styrene	< 0.64	0.64		ug/m3	1	4/7/2016 5:11:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	4/7/2016 5:11:00 PM
Tetrahydrofuran	< 0.44	0.44		ug/m3	1	4/7/2016 5:11:00 PM
Toluene	1.4	0.57		ug/m3	1	4/7/2016 5:11:00 PM
trans-1,2-Dichloroethene	< 0.59	0.59		ug/m3	1	4/7/2016 5:11:00 PM
trans-1,3-Dichloropropene	< 0.68	0.68		ug/m3	1	4/7/2016 5:11:00 PM
Trichloroethene	< 0.81	0.81		ug/m3	1	4/7/2016 5:11:00 PM
Vinyl acetate	< 0.53	0.53		ug/m3	1	4/7/2016 5:11:00 PM
Vinyl Bromide	< 0.66	0.66		ug/m3	1	4/7/2016 5:11:00 PM
Vinyl chloride	< 0.38	0.38		ug/m3	1	4/7/2016 5:11:00 PM

<b>Qualifiers:</b>	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		