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**ATTACHMENT E-5**  
**Laboratory Analytical Results**  
**for the Annual Groundwater Sampling Event**  
**(April 2018)**

**CSIs**



April 16, 2018

Sharon Schultz  
Atlanta Environmental Mgmt

2580 NE Expressway  
Atlanta GA 30345

RE: Ingersoll Rand - Sylvania Remediation

Dear Sharon Schultz:

Order No: 1804662

Analytical Environmental Services, Inc. received 3 samples on 4/6/2018 4:15:00 PM  
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated  
Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the  
analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical  
Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective  
07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective  
07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical  
Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos,  
Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal)  
Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar  
Project Manager



**ANALYTICAL ENVIRONMENTAL SERVICES, INC**  
 3785 Presidential Parkway, Atlanta GA 30340-3704  
 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

**CHAIN OF CUSTODY**

Work Order: 1804662  
 Date: 4/6/18 Page 1 of 1

COMPANY:		ADDRESS:				ANALYSIS REQUESTED		REMARKS	
Atlanta Environmental Mgmt. Inc.		2580 Northeast Expressway, Atlanta, Georgia 30345				Full Appendix IX		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	
PHON 404-329-9006		FAX: 404-329-2057		SIGNATURE: <i>Gerald Ingole</i>		VOCs (8260)			
SAMPLED BY: <i>GERALD INGOLE</i>		SAMPLED		DATE		TIME			
#		SAMPLE ID		DATE		TIME		REMARKS	
1	TRIP BLANK			4/4/18	0900	X			2
2	SP-7			4/4/18	1540	X	X	X	10
3	SP-8A						X	X	11
4									NOTE: VOCs & METALS BOTTLES FOR SP-7 & SP-8A ARE UNPRESERVED DUE TO HIGH CYANIDE LEVELS IN GROUND- WATER
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: <i>Gerald Ingole</i>		DATE/TIME RECEIVED BY: <i>Donna</i>		DATE/TIME					
1: <i>4/6/18/1145</i>		1: <i>Donna</i>		4-06-18 1145					
2: <i>Donna</i>		2: <i>Donna</i>		4/6/18 1615					
3:		3:							
PROJECT NAME: <b>Ingersoll Rand - Sylvania Remediation</b>		PROJECT #: 1162-1801-2		PROJECT INFORMATION		RECEIPT			
SITE ADDRESS: 400 Friendship Road Sylvania, Georgia 30467		SEND REPORT TO: Sharon Shultz (AEM), copy Gerald Ingole (email PDF)		INVOICE TO: (IF DIFFERENT FROM ABOVE)		Total # of Containers			
STATE PROGRAM (if any): <b>RCRA</b>		E-mail: <b>NA</b> ; Fax? <b>Y</b> <input checked="" type="checkbox"/>		QUOTE #: _____ PO#:		Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req) Other _____			
DATA PACKAGE: <b>I</b> <input checked="" type="checkbox"/> <b>II</b> <input type="checkbox"/> <b>III</b> <input type="checkbox"/> <b>IV</b> <input type="checkbox"/>		SPECIAL INSTRUCTIONS/COMMENTS: Please send reports and EDD to Sharon Shultz <a href="mailto:sharon-shultz@aem-net.com">sharon-shultz@aem-net.com</a> Copy Gerald Ingole on email		SHIPMENT METHOD OUT / / VIA: IN / / VIA: CLIENTS: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER GREYHOUND <input type="checkbox"/> OTHER _____					
<p><b>SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.</b></p> <p><b>SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.</b></p>									

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)  
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S/M/H = Sulfuric acid + ice S/M/H = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

**Client:** Atlanta Environmental Mgmt  
**Project:** Ingersoll Rand - Sylvania Remediation  
**Lab ID:** 1804662

**Case Narrative**

Appendix IX Analyses:

At the request of Gerald Ingle with AEM via e-mail on 4/5/18, the laboratory did not analyze a full Appendix IX package due to limited sample volume. Only Volatiles, Semi-Volatiles, Micro Volatiles, Total Metals, Sulfide and Cyanide were analyzed from the Appendix IX package.

Micro-extractable VOC Analysis by Method 8011:

Matrix spike duplicate analyses were not performed with Batch 258833 due to insufficient sample volume.

Analytical Environmental Services, Inc

Date: 16-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018
<b>Lab ID:</b> 1804662-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B</b>			<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,1-Dichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,1-Dichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,1-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2-Dibromoethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2-Dichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,2-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,3-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
2,2-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
2-Butanone	BRL	10		ug/L	258936	1	04/10/2018 11:15	NP
2-Chloroethyl vinyl ether	BRL	2.0		ug/L	258936	1	04/10/2018 11:15	NP
2-Chlorotoluene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
2-Hexanone	BRL	5.0		ug/L	258936	1	04/10/2018 11:15	NP
4-Chlorotoluene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
4-Isopropyltoluene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	258936	1	04/10/2018 11:15	NP
Acetone	BRL	10		ug/L	258936	1	04/10/2018 11:15	NP
Acrolein	BRL	5.0		ug/L	258936	1	04/10/2018 11:15	NP
Acrylonitrile	BRL	5.0		ug/L	258936	1	04/10/2018 11:15	NP
Benzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Bromobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Bromochloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Bromodichloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Bromoform	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Bromomethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:15	NP
Carbon disulfide	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Carbon tetrachloride	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Chlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Chloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018
<b>Lab ID:</b> 1804662-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloroform	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Chloromethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:15	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Dibromochloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Dibromomethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:15	NP
Ethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Hexachlorobutadiene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Isopropylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
m,p-Xylene	BRL	2.0		ug/L	258936	1	04/10/2018 11:15	NP
Methylene chloride	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
n-Butylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
n-Propylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Naphthalene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
o-Xylene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
sec-Butylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Styrene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
tert-Butylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Tetrachloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Toluene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Trichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Trichlorofluoromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:15	NP
Vinyl acetate	BRL	5.0		ug/L	258936	1	04/10/2018 11:15	NP
Vinyl chloride	BRL	2.0		ug/L	258936	1	04/10/2018 11:15	NP
Surr: 4-Bromofluorobenzene	101	68-127		%REC	258936	1	04/10/2018 11:15	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	258936	1	04/10/2018 11:15	NP
Surr: Toluene-d8	99.2	80.1-116		%REC	258936	1	04/10/2018 11:15	NP

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Analytical Environmental Services, Inc

Date: 16-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-7
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 9:00:00 AM
<b>Lab ID:</b> 1804662-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Sulfide by SM4500-S2-F</b>								
Sulfide	BRL	1.00		mg/L	R367633	1	04/11/2018 09:10	AK
<b>MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011 (SW8011)</b>								
1,2-Dibromo-3-chloropropane	BRL	0.039		ug/L	258833	1	04/10/2018 00:36	UH
1,2-Dibromoethane	BRL	0.020		ug/L	258833	1	04/10/2018 00:36	UH
Surr: 4-Bromofluorobenzene	109	70.4-134		%REC	258833	1	04/10/2018 00:36	UH
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00020		mg/L	258885	1	04/12/2018 02:06	AS
<b>Cyanide SW9014 (SW9010C)</b>								
Cyanide, Total	16.4	1.00		mg/L	259076	100	04/12/2018 14:00	AK
<b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,2,4,5-Tetrachlorobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
1,2,4-Trichlorobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
1,3-Dinitrobenzene	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
1,4-Napthoquinone	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
1-Naphthylamine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,3,4,6-Tetrachlorophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,4,5-Trichlorophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,4-Dichlorophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,4-Dimethylphenol	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
2,4-Dinitrophenol	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
2,4-Dinitrotoluene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,6-Dichlorophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2,6-Dinitrotoluene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Acetylaminofluorene	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
2-Chloronaphthalene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Chlorophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Methylnaphthalene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Methylphenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Naphthylamine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Nitroaniline	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
2-Nitrophenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
2-Picoline	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
3,3'-Dichlorobenzidine	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
3,3'-Dimethylbenzidine	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
3,4-Methylphenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
3-Methylcholanthrene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH

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<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-7
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 9:00:00 AM
<b>Lab ID:</b> 1804662-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
3-Nitroaniline	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
4,6-Dinitro-2-methylphenol	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
4-Aminobiphenyl	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
4-Chloro-3-methylphenol	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
4-Chloroaniline	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
4-Nitroaniline	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
4-Nitrophenol	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
4-Nitroquinoline,1-oxide	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
5-Nitro-o-toluidine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
7,12-Dimethylbenz(a)anthracene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
a,a-Dimethylphenethylamine	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
Acenaphthene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Acenaphthylene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Acetophenone	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Aniline	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Anthracene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Aramite	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Benz(a)anthracene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Benzo(a)pyrene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Benzo(b)fluoranthene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Benzo(k)fluoranthene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Benzyl alcohol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Bis(2-ethylhexyl)phthalate	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Butyl benzyl phthalate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Chlorobenzilate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Chrysene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Di-n-butyl phthalate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Di-n-octyl phthalate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Diallate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Dibenzofuran	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Diethyl phthalate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Dimethoate	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Dimethyl phthalate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Diphenylamine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-7
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 9:00:00 AM
<b>Lab ID:</b> 1804662-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
Disulfoton	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Ethyl methanesulfonate	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Famphur	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Fluoranthene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Fluorene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Hexachlorobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Hexachlorobutadiene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Hexachloroethane	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Hexachlorophene	BRL	80		ug/L	258696	1	04/12/2018 11:47	YH
Hexachlorophene	BRL	80		ug/L	258696	1	04/12/2018 12:19	RF
Hexachloropropene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Isodrin	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Isophorone	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Isosafrole	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Kepone	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
Methapyrilene	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Methyl methanesulfonate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Methyl parathion	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitroso-di-n-butylamine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosodiethylamine	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosodimethylamine	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosodiphenylamine	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosomethylethylamine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosomorpholine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosopiperidine	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
N-Nitrosopyrrolidine	BRL	40		ug/L	258696	1	04/12/2018 11:47	YH
Naphthalene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Nitrobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
O,O,O-Triethylphosphorothioate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
o-Toluidine	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
p-Dimethylaminoazobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
p-Phenylenediamine	BRL	500		ug/L	258696	1	04/12/2018 11:47	YH
Parathion	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Pentachlorobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Pentachloronitrobenzene	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Pentachlorophenol	BRL	50		ug/L	258696	1	04/12/2018 11:47	YH
Phenacetin	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Phenanthrene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH

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<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-7
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 9:00:00 AM
<b>Lab ID:</b> 1804662-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
Phenol	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Phorate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Pronamide	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Pyrene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Pyridine	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Safrole	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Sym-Trinitrobenzene	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Tetraethyl dithiopyrophosphate	BRL	10		ug/L	258696	1	04/12/2018 11:47	YH
Thionazin	BRL	20		ug/L	258696	1	04/12/2018 11:47	YH
Surr: 2,4,6-Tribromophenol	85.6	51.4-138		%REC	258696	1	04/12/2018 11:47	YH
Surr: 2-Fluorobiphenyl	84.4	44.6-119		%REC	258696	1	04/12/2018 11:47	YH
Surr: 2-Fluorophenol	43	27.2-120		%REC	258696	1	04/12/2018 11:47	YH
Surr: 4-Terphenyl-d14	87.2	47.1-136		%REC	258696	1	04/12/2018 11:47	YH
Surr: Nitrobenzene-d5	74.1	40.7-119		%REC	258696	1	04/12/2018 11:47	YH
Surr: Phenol-d5	27.2	18.1-120		%REC	258696	1	04/12/2018 11:47	YH
<b>APPENDIX IX VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,1-Dichloroethane	4.3	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,1-Dichloroethene	9.1	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,2-Dichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,2-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
1,4-Dioxane	BRL	150		ug/L	258936	1	04/10/2018 11:42	NP
2-Butanone	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
2-Hexanone	BRL	5.0		ug/L	258936	1	04/10/2018 11:42	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	258936	1	04/10/2018 11:42	NP
Acetone	25	10		ug/L	258936	1	04/10/2018 11:42	NP
Acetonitrile	BRL	5.0		ug/L	258936	1	04/10/2018 11:42	NP
Acrolein	BRL	5.0		ug/L	258936	1	04/10/2018 11:42	NP
Acrylonitrile	BRL	5.0		ug/L	258936	1	04/10/2018 11:42	NP
Allyl Chloride	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
Benzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Bromodichloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Bromoform	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP

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<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-7
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 9:00:00 AM
<b>Lab ID:</b> 1804662-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX IX VOLATILE ORGANICS SW8260B (SW5030B)</b>								
Bromomethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:42	NP
Carbon disulfide	BRL	2.0		ug/L	258936	1	04/10/2018 11:42	NP
Carbon tetrachloride	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Chlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Chloroethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:42	NP
Chloroform	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Chloromethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:42	NP
Chloroprene	BRL	20		ug/L	258936	1	04/10/2018 11:42	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Dibromochloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Dibromomethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	258936	1	04/10/2018 11:42	NP
Ethyl Methacrylate	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
Ethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Iodomethane	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
Isobutyl Alcohol	BRL	200		ug/L	258936	1	04/10/2018 11:42	NP
Methyl Methacrylate	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
Methylacrylonitrile	BRL	200		ug/L	258936	1	04/10/2018 11:42	NP
Methylene chloride	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Pentachloroethane	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
Propionitrile	BRL	100		ug/L	258936	1	04/10/2018 11:42	NP
Styrene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Tetrachloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Toluene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
trans-1,4-Dichloro-2-butene	BRL	10		ug/L	258936	1	04/10/2018 11:42	NP
Trichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Trichlorofluoromethane	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Vinyl acetate	BRL	5.0		ug/L	258936	1	04/10/2018 11:42	NP
Vinyl chloride	BRL	2.0		ug/L	258936	1	04/10/2018 11:42	NP
Xylenes, Total	BRL	1.0		ug/L	258936	1	04/10/2018 11:42	NP
Surr: 4-Bromofluorobenzene	97.9	68-127		%REC	258936	1	04/10/2018 11:42	NP
Surr: 4-Bromofluorobenzene	101	68-127		%REC	258936	1	04/10/2018 11:42	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	258936	1	04/10/2018 11:42	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	258936	1	04/10/2018 11:42	NP
Surr: Toluene-d8	97.7	80.1-116		%REC	258936	1	04/10/2018 11:42	NP
Surr: Toluene-d8	100	80.1-116		%REC	258936	1	04/10/2018 11:42	NP

<b>APPENDIX IX METALS SW6020B (SW3005A)</b>								
Antimony	BRL	0.00600		mg/L	258894	1	04/12/2018 00:35	NG

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<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-7
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 9:00:00 AM
<b>Lab ID:</b> 1804662-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>APPENDIX IX METALS SW6020B (SW3005A)</b>								
Arsenic	BRL	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Barium	BRL	0.0200		mg/L	258894	1	04/12/2018 00:35	NG
Beryllium	BRL	0.00400		mg/L	258894	1	04/12/2018 00:35	NG
Cadmium	BRL	0.00500		mg/L	258894	1	04/12/2018 00:35	NG
Chromium	BRL	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Cobalt	BRL	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Copper	16.9	0.125		mg/L	258894	5	04/12/2018 21:20	NG
Lead	BRL	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Nickel	BRL	0.0400		mg/L	258894	1	04/12/2018 00:35	NG
Selenium	0.0114	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Silver	BRL	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Thallium	BRL	0.00200		mg/L	258894	1	04/12/2018 00:35	NG
Tin	BRL	0.0400		mg/L	258894	1	04/12/2018 00:35	NG
Vanadium	BRL	0.0100		mg/L	258894	1	04/12/2018 00:35	NG
Zinc	BRL	0.0200		mg/L	258894	1	04/12/2018 00:35	NG

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<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-8A
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 3:40:00 PM
<b>Lab ID:</b> 1804662-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,1-Dichloroethane	1.0	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,1-Dichloroethene	3.4	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,1-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2-Dibromoethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2-Dichloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,2-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,3-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
2,2-Dichloropropane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
2-Butanone	BRL	10		ug/L	258936	1	04/10/2018 12:08	NP
2-Chloroethyl vinyl ether	BRL	2.0		ug/L	258936	1	04/10/2018 12:08	NP
2-Chlorotoluene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
2-Hexanone	BRL	5.0		ug/L	258936	1	04/10/2018 12:08	NP
4-Chlorotoluene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
4-Isopropyltoluene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	258936	1	04/10/2018 12:08	NP
Acetone	BRL	10		ug/L	258936	1	04/10/2018 12:08	NP
Acrolein	BRL	5.0		ug/L	258936	1	04/10/2018 12:08	NP
Acrylonitrile	BRL	5.0		ug/L	258936	1	04/10/2018 12:08	NP
Benzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Bromobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Bromochloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Bromodichloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Bromoform	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Bromomethane	BRL	2.0		ug/L	258936	1	04/10/2018 12:08	NP
Carbon disulfide	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Carbon tetrachloride	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Chlorobenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Chloroethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-8A
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 3:40:00 PM
<b>Lab ID:</b> 1804662-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloroform	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Chloromethane	BRL	2.0		ug/L	258936	1	04/10/2018 12:08	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Dibromochloromethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Dibromomethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	258936	1	04/10/2018 12:08	NP
Ethylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Hexachlorobutadiene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Isopropylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
m,p-Xylene	BRL	2.0		ug/L	258936	1	04/10/2018 12:08	NP
Methylene chloride	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
n-Butylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
n-Propylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Naphthalene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
o-Xylene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
sec-Butylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Styrene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
tert-Butylbenzene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Tetrachloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Toluene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Trichloroethene	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Trichlorofluoromethane	BRL	1.0		ug/L	258936	1	04/10/2018 12:08	NP
Vinyl acetate	BRL	5.0		ug/L	258936	1	04/10/2018 12:08	NP
Vinyl chloride	BRL	2.0		ug/L	258936	1	04/10/2018 12:08	NP
Surr: 4-Bromofluorobenzene	97.7	68-127		%REC	258936	1	04/10/2018 12:08	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	258936	1	04/10/2018 12:08	NP
Surr: Toluene-d8	97.7	80.1-116		%REC	258936	1	04/10/2018 12:08	NP
<b>Sulfide by SM4500-S2-F</b>								
Sulfide	1.00	1.00		mg/L	R367633	1	04/11/2018 09:10	AK
<b>Semivolatile Org. Comp. by GC/MS SW8270D (SW3510C)</b>								
4-Nitrophenol	BRL	50		ug/L	258696	1	04/09/2018 20:53	YH
Benzyl alcohol	BRL	10		ug/L	258696	1	04/09/2018 20:53	YH
Phenol	BRL	10		ug/L	258696	1	04/09/2018 20:53	YH
Surr: 2,4,6-Tribromophenol	81.2	51.4-138		%REC	258696	1	04/09/2018 20:53	YH
Surr: 2-Fluorobiphenyl	76.1	44.6-119		%REC	258696	1	04/09/2018 20:53	YH
Surr: 2-Fluorophenol	44.6	27.2-120		%REC	258696	1	04/09/2018 20:53	YH

**Qualifiers:**

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- Narr See case narrative
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- < Less than Result value
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**Analytical Environmental Services, Inc**

**Date:** 16-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-8A
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 3:40:00 PM
<b>Lab ID:</b> 1804662-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Semivolatile Org. Comp. by GC/MS SW8270D</b>			<b>(SW3510C)</b>					
Surr: 4-Terphenyl-d14	75.1	47.1-136		%REC	258696	1	04/09/2018 20:53	YH
Surr: Nitrobenzene-d5	64.7	40.7-119		%REC	258696	1	04/09/2018 20:53	YH
Surr: Phenol-d5	27.1	18.1-120		%REC	258696	1	04/09/2018 20:53	YH
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00100		mg/L	258885	1	04/12/2018 02:10	AS
<b>Cyanide SW9014</b>			<b>(SW9010C)</b>					
Cyanide, Total	27.0	1.00		mg/L	259076	100	04/12/2018 14:00	AK
<b>CHLORINATED HERBICIDES SW8151A</b>			<b>(SW3510C)</b>					
Dinoseb	BRL	5.0		ug/L	258786	1	04/10/2018 13:22	UH
Surr: DCAA	59.8	45.3-135		%REC	258786	1	04/10/2018 13:22	UH
<b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>			<b>(SW5030B)</b>					
1,4-Dioxane	14	2.0		ug/L	258984	1	04/10/2018 20:52	NP
Surr: 4-Bromofluorobenzene	99.8	85.7-115		%REC	258984	1	04/10/2018 20:52	NP
Surr: Dibromofluoromethane	100	73.4-129		%REC	258984	1	04/10/2018 20:52	NP
Surr: Toluene-d8	100	85-115		%REC	258984	1	04/10/2018 20:52	NP
<b>METALS, TOTAL SW6010D</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0100		mg/L	259004	1	04/13/2018 20:34	IO
Barium	BRL	0.0200		mg/L	259004	1	04/12/2018 13:25	IO
Chromium	BRL	0.0100		mg/L	259004	1	04/12/2018 13:25	IO
Cobalt	BRL	0.0100		mg/L	259004	1	04/12/2018 13:25	IO
Copper	18.4	0.0250		mg/L	259004	1	04/12/2018 13:25	IO
Nickel	BRL	0.0400		mg/L	259004	1	04/12/2018 13:25	IO
Selenium	BRL	0.0100		mg/L	259004	1	04/13/2018 20:34	IO
Silver	BRL	0.0100		mg/L	259004	1	04/12/2018 13:25	IO
Vanadium	BRL	0.0100		mg/L	259004	1	04/12/2018 13:25	IO
Zinc	BRL	0.0200		mg/L	259004	1	04/12/2018 13:25	IO

**Qualifiers:**

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**SUMMARY OF ANALYTES DETECTED**

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
<b>Client Sample ID:</b> SP-7				<b>Lab ID:</b>	1804662-002		
<b>Collection Date:</b> 4/4/2018 9:00:00 AM				<b>Matrix:</b>	Groundwater		
<b>Cyanide SW9014</b>				<b>(SW9010C)</b>			
Cyanide, Total	16.4		0.470	1.00	mg/L	259076	100
<b>APPENDIX IX VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>			
1,1-Dichloroethane	4.3		0.43	1.0	ug/L	258936	1
1,1-Dichloroethene	9.1		0.40	1.0	ug/L	258936	1
Acetone	25		3.6	10	ug/L	258936	1
<b>APPENDIX IX METALS SW6020B</b>				<b>(SW3005A)</b>			
Copper	16.9		0.000630	0.125	mg/L	258894	5
Selenium	0.0114		0.000264	0.0100	mg/L	258894	1
<b>Client Sample ID:</b> SP-8A				<b>Lab ID:</b>	1804662-003		
<b>Collection Date:</b> 4/4/2018 3:40:00 PM				<b>Matrix:</b>	Groundwater		
<b>Volatile Organic Compounds by GC/MS SW8260B</b>				<b>(SW5030B)</b>			
1,1-Dichloroethane	1.0		0.43	1.0	ug/L	258936	1
1,1-Dichloroethene	3.4		0.40	1.0	ug/L	258936	1
<b>Sulfide by SM4500-S2-F</b>							
Sulfide	1.00		0.598	1.00	mg/L	R367633	1
<b>Cyanide SW9014</b>				<b>(SW9010C)</b>			
Cyanide, Total	27.0		0.470	1.00	mg/L	259076	100
<b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>				<b>(SW5030B)</b>			
1,4-Dioxane	14		0.47	2.0	ug/L	258984	1
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>			
Copper	18.4		0.0022	0.0250	mg/L	259004	1

**Qualifiers:**

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit





### SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: \_\_\_\_\_ AFS Work Order Number: \_\_\_\_\_

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Details			Comments
	Yes	No	N/A	
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>
4. Custody seals present on shipping container?				
5. Custody seals intact on shipping container?				
6. Temperature blanks present?				
7. Cooler temperature(s) within limits of 0-8°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>
8. Chain of Custody (COC) present?				
9. Chain of Custody signed, dated, and timed when relinquished and received?				
10. Sampler name and/or signature on COC?				
11. Were all samples received within holding time?				
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>

13. Cooler 1 Temperature \_\_\_\_\_ °C Cooler 2 Temperature \_\_\_\_\_ °C Cooler 3 Temperature \_\_\_\_\_ °C Cooler 4 Temperature \_\_\_\_\_ °C  
 Cooler 5 Temperature \_\_\_\_\_ °C Cooler 6 Temperature \_\_\_\_\_ °C Cooler 7 Temperature \_\_\_\_\_ °C Cooler 8 Temperature \_\_\_\_\_ °C

15. Comments: \_\_\_\_\_  
 I certify that I have completed sections 1-15 (dated initials). \_\_\_\_\_

	Details			Comments
	Yes	No	N/A	
16. Were sample containers intact upon receipt?				
17. Custody seals present on sample containers?				
18. Custody seals intact on sample containers?				
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>
20. Are analyses requested indicated on the COC?				
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>
22. Was the sample collection date/time noted?				
23. Did we receive sufficient sample volume for indicated analyses?				
24. Were samples received in appropriate containers?				
25. Were VOA samples received without headspace (< 1/4" bubble)?				
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>

27. Comments: \_\_\_\_\_  
 I certify that I have completed sections 16-27 (dated initials). \_\_\_\_\_

	Details			Comments
	Yes	No	N/A	
28. Have containers needing chemical preservation been checked? *				
29. Containers meet preservation guidelines?				
30. Was pH adjusted at Sample Receipt?				

I certify that I have completed sections 28-30 (dated initials). \_\_\_\_\_  
 Page 16 of 56

# Analytical Environmental Services, Inc

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Lab Order: 1804662

## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1804662-001A	TRIP BLANK	4/4/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS	4/10/2018	9:00:00AM	04/10/2018
1804662-002A	SP-7	4/4/2018 9:00:00AM	Groundwater	APPENDIX IX VOLATILE ORGANICS	4/10/2018	9:00:00AM	04/10/2018
1804662-002B	SP-7	4/4/2018 9:00:00AM	Groundwater	MICRO-EXTRACTABLE VOCs	4/9/2018	2:09:10PM	04/10/2018
1804662-002C	SP-7	4/4/2018 9:00:00AM	Groundwater	APPENDIX XI-SEMIVOLATILE ORGANIC	4/9/2018	8:00:00AM	04/12/2018
1804662-002C	SP-7	4/4/2018 9:00:00AM	Groundwater	TCL-SEMIVOLATILE ORGANICS	4/9/2018	8:00:00AM	04/10/2018
1804662-002D	SP-7	4/4/2018 9:00:00AM	Groundwater	APPENDIX IX METALS	4/10/2018	3:25:00PM	04/12/2018
1804662-002D	SP-7	4/4/2018 9:00:00AM	Groundwater	TOTAL MERCURY	4/11/2018	8:20:00PM	04/12/2018
1804662-002E	SP-7	4/4/2018 9:00:00AM	Groundwater	Cyanide	4/12/2018	11:20:00AM	04/12/2018
1804662-002F	SP-7	4/4/2018 9:00:00AM	Groundwater	Sulfide by SM4500-S2-F			04/11/2018
1804662-003A	SP-8A	4/4/2018 3:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS	4/10/2018	9:00:00AM	04/10/2018
1804662-003A	SP-8A	4/4/2018 3:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS	4/10/2018	6:07:00PM	04/10/2018
1804662-003B	SP-8A	4/4/2018 3:40:00PM	Groundwater	Chlorinated Herbicides by 615/SM6640B	4/9/2018	9:00:00AM	04/10/2018
1804662-003B	SP-8A	4/4/2018 3:40:00PM	Groundwater	CHLORINATED HERBICIDES, APPENDI;	4/9/2018	9:00:00AM	04/10/2018
1804662-003B	SP-8A	4/4/2018 3:40:00PM	Groundwater	CHLORINATED HERBICIDES	4/9/2018	9:00:00AM	04/10/2018
1804662-003B	SP-8A	4/4/2018 3:40:00PM	Groundwater	APPENDIX XI-SEMIVOLATILE ORGANIC	4/9/2018	8:00:00AM	04/09/2018
1804662-003B	SP-8A	4/4/2018 3:40:00PM	Groundwater	APPENDIX XI-SEMIVOLATILE ORGANIC	4/9/2018	8:00:00AM	04/11/2018
1804662-003B	SP-8A	4/4/2018 3:40:00PM	Groundwater	Semivolatile Org. Comp. by GC/MS	4/9/2018	8:00:00AM	04/09/2018
1804662-003C	SP-8A	4/4/2018 3:40:00PM	Groundwater	TOTAL METALS BY ICP	4/11/2018	5:15:00PM	04/12/2018
1804662-003C	SP-8A	4/4/2018 3:40:00PM	Groundwater	TOTAL METALS BY ICP	4/11/2018	5:15:00PM	04/13/2018
1804662-003C	SP-8A	4/4/2018 3:40:00PM	Groundwater	TOTAL METALS BY ICP	4/11/2018	8:20:00PM	04/12/2018
1804662-003D	SP-8A	4/4/2018 3:40:00PM	Groundwater	TOTAL MERCURY	4/11/2018	8:20:00PM	04/12/2018
1804662-003D	SP-8A	4/4/2018 3:40:00PM	Groundwater	Cyanide	4/12/2018	11:20:00AM	04/12/2018
1804662-003E	SP-8A	4/4/2018 3:40:00PM	Groundwater	Sulfide by SM4500-S2-F			04/11/2018



**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258696**

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367477</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133083</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4,5-Tetrachlorobenzene	BRL	10									
1,2,4-Trichlorobenzene	BRL	10									
1,2-Dichlorobenzene	BRL	10									
1,3-Dichlorobenzene	BRL	10									
1,3-Dinitrobenzene	BRL	20									
1,4-Dichlorobenzene	BRL	10									
1,4-Naphthoquinone	BRL	10									
1-Naphthylamine	BRL	10									
2,3,4,6-Tetrachlorophenol	BRL	10									
2,4,5-Trichlorophenol	BRL	10									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	50									
2,4-Dinitrophenol	BRL	50									
2,4-Dinitrotoluene	BRL	10									
2,6-Dichlorophenol	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Acetylaminofluorene	BRL	20									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Methylnaphthalene	BRL	10									
2-Methylphenol	BRL	10									
2-Naphthylamine	BRL	10									
2-Nitroaniline	BRL	50									
2-Nitrophenol	BRL	10									
2-Picoline	BRL	10									
3,3'-Dichlorobenzidine	BRL	20									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: MB-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367477							
Sample Type: MBLK	TestCode: APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133083							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3'-Dimethylbenzidine	BRL	20									
3,4-Methylphenol	BRL	10									
3-Methylcholanthrene	BRL	10									
3-Nitroaniline	BRL	50									
4,6-Dinitro-2-methylphenol	BRL	50									
4-Aminobiphenyl	BRL	20									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	20									
4-Chloroaniline	BRL	20									
4-Chlorophenyl phenyl ether	BRL	10									
4-Nitroaniline	BRL	20									
4-Nitrophenol	BRL	50									
4-Nitroquinoline,1-oxide	BRL	50									
5-Nitro-o-toluidine	BRL	10									
7,12-Dimethylbenz(a)anthracene	BRL	10									
a,a-Dimethylphenethylamine	BRL	50									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Acetophenone	BRL	10									
Aniline	BRL	10									
Anthracene	BRL	10									
Aramite	BRL	10									
Benz(a)anthracene	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258696**

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367477</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133083</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzyl alcohol	BRL	20									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	20									
Butyl benzyl phthalate	BRL	10									
Chlorobenzilate	BRL	10									
Chrysene	BRL	10									
Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									
Diallate	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Dibenzofuran	BRL	10									
Diethyl phthalate	BRL	10									
Dimethoate	BRL	20									
Dimethyl phthalate	BRL	10									
Diphenylamine	BRL	10									
Disulfoton	BRL	10									
Ethyl methanesulfonate	BRL	20									
Famphur	BRL	20									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									
Hexachloroethane	BRL	10									
Hexachloropropene	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**BatchID: 258696**

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367477</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133083</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Indeno(1,2,3-cd)pyrene	BRL	10									
Isodrin	BRL	20									
Isophorone	BRL	10									
Isosafrole	BRL	10									
Kepon	BRL	50									
Methapyrilene	BRL	20									
Methyl methanesulfonate	BRL	10									
Methyl parathion	BRL	10									
N-Nitroso-di-n-butylamine	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiethylamine	BRL	20									
N-Nitrosodimethylamine	BRL	20									
N-Nitrosodiphenylamine	BRL	50									
N-Nitrosomethylethylamine	BRL	10									
N-Nitrosomorpholine	BRL	10									
N-Nitrosopiperidine	BRL	20									
N-Nitrosopyrrolidine	BRL	40									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
O,O,O-Triethylphosphorothioate	BRL	10									
o-Toluidine	BRL	20									
p-Dimethylaminoazobenzene	BRL	10									
p-Phenylenediamine	BRL	500									
Parathion	BRL	10									
Pentachlorobenzene	BRL	10									
Pentachloronitrobenzene	BRL	20									
Pentachlorophenol	BRL	50									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL		Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258696**

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367477</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133083</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phenacetin	BRL	20									
Phenanthrene	BRL	10									
Phenol	BRL	10									
Phorate	BRL	10									
Pronamide	BRL	10									
Pyrene	BRL	10									
Pyridine	BRL	10									
Safrole	BRL	20									
Sym-Trinitrobenzene	BRL	10									
Tetraethyl dithiopyrophosphate	BRL	10									
Thionazin	BRL	20									
Surr: 2,4,6-Tribromophenol	67.05	0	100.0		67.0	51.4	138				
Surr: 2-Fluorobiphenyl	33.26	0	50.00		66.5	44.6	119				
Surr: 2-Fluorophenol	39.65	0	100.0		39.6	27.2	120				
Surr: 4-Terphenyl-d14	37.05	0	50.00		74.1	47.1	136				
Surr: Nitrobenzene-d5	29.24	0	50.00		58.5	40.7	119				
Surr: Phenol-d5	24.95	0	100.0		25.0	18.1	120				

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367476</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>Semivolatile Org. Comp. by GC/MS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133086</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	10									
1,2,4,5-Tetrachlorobenzene	BRL	10									
1,2,4-Trichlorobenzene	BRL	10									
1,2-Dichlorobenzene	BRL	10									
1,2-Diphenylhydrazine	BRL	10									
1,3,5-Trinitrobenzene	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: MB-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367476							
Sample Type: MBLK	TestCode: Semivolatile Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133086							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,3-Dichlorobenzene	BRL	10									
1,3-Dinitrobenzene	BRL	20									
1,4-Dichlorobenzene	BRL	10									
1,4-Naphthoquinone	BRL	10									
1-Chloronaphthalene	BRL	10									
1-Methylnaphthalene	BRL	10									
1-Naphthylamine	BRL	10									
2,2'-oxybis(1-Chloropropane)	BRL	10									
2,3,4,6-Tetrachlorophenol	BRL	10									N
2,3-Dichloroaniline	BRL	10									
2,4,5-Trichlorophenol	BRL	25									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	10									
2,4-Dinitrophenol	BRL	25									
2,4-Dinitrotoluene	BRL	10									
2,6-Dichlorophenol	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Acetylaminofluorene	BRL	20									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Methylnaphthalene	BRL	10									
2-Methylphenol	BRL	10									
2-Naphthylamine	BRL	10									
2-Nitroaniline	BRL	50									
2-Nitrophenol	BRL	10									
2-Picoline	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: MB-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367476							
Sample Type: MBLK	TestCode: Semivolatile Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133086							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3'-Dichlorobenzidine	BRL	20									
3,3'-Dimethoxybenzidine	BRL	10									N
3,3'-Dimethylbenzidine	BRL	20									
3,4-Methylphenol	BRL	10									
3-Chloroaniline	BRL	10									
3-Methylcholanthrene	BRL	10									
3-Methylphenol	BRL	10									
3-Nitroaniline	BRL	25									
4,6-Dinitro-2-methylphenol	BRL	25									
4-Aminobiphenyl	BRL	10									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	10									
4-Chloroaniline	BRL	10									
4-Chlorophenyl phenyl ether	BRL	10									
4-Methylphenol	BRL	10									
4-Nitroaniline	BRL	25									
4-Nitrophenol	BRL	25									
4-Nitroquinoline, 1-oxide	BRL	50									
5-Nitro-o-toluidine	BRL	10									
7,12-Dimethylbenz(a)anthracene	BRL	10									
a,a-Dimethylphenethylamine	BRL	50									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Acetophenone	BRL	10									
Allethrin	BRL	10									N
alpha-Terpineol	BRL	10									N
Aniline	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**BatchID: 258696**

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367476</b>							
Sample Type: <b>MBLK</b>	Test Code: <b>Semivolatle Org. Comp. by GC/MS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133086</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	10									
Aramite	BRL	10									
Atrazine	BRL	10									
Baygon	BRL	10									
Benz(a)anthracene	BRL	10									N
Benzaldehyde	BRL	10									
Benzidine	BRL	80									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Benzoic acid	BRL	100									
Benzyl alcohol	BRL	10									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	10									
Bis(chloromethyl) ether	BRL	100									N
Butyl benzyl phthalate	BRL	10									
Caprolactam	BRL	10									
Carbazole	BRL	10									
Chlorobenzilate	BRL	10									
Chloropyrifos	BRL	10									N
Chrysene	BRL	10									
Decane	BRL	10									N
Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258696**

Sample ID: <b>MB-258696</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367476</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>Semivolatle Org. Comp. by GC/MS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133086</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diallate	BRL	10									
Diazinon	BRL	10									N
Dibenz(a,h)anthracene	BRL	10									
Dibenz(a,j)acridine	BRL	10									
Dibenzofuran	BRL	10									
Diethyl phthalate	BRL	10									
Dimethoate	BRL	20									
Dimethyl phthalate	BRL	10									
Dimethylaminoazobenzene	BRL	10									N
Diphenylamine	BRL	10									
Disulfoton	BRL	10									
Ethyl methanesulfonate	BRL	10									
Famphur	BRL	20									
Fenvalerate	BRL	10									N
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									
Hexachloroethane	BRL	10									
Hexachlorophene	BRL	80									
Hexachloropropene	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isodrin	BRL	10									
Isophorone	BRL	10									
Isosafrole	BRL	10									
Kepon	BRL	50									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: MB-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367476							
Sample Type: MBLK	TestCode: Semivolatile Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133086							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methapyrilene	BRL	20									
Methyl methanesulfonate	BRL	10									
Methyl parathion	BRL	10									
MGK-264	BRL	10									
N-Nitrosodi-n-butylamine	BRL	10									N
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiethylamine	BRL	10									
N-Nitrosodimethylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
N-Nitrosomethylethylamine	BRL	10									
N-Nitrosomorpholine	BRL	10									
N-Nitrosopiperidine	BRL	10									
N-Nitrosopyrrolidine	BRL	40									
N-Octadecane	BRL	10									N
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
O <sub>3</sub> O-Triethyl phosphorothioate	BRL	10									
o-Toluidine	BRL	10									
p-Dimethylaminoazobenzene	BRL	10									
p-Phenylenediamine	BRL	500									
Parathion	BRL	10									
Pentachlorobenzene	BRL	10									
Pentachloronitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									
Perylene	BRL	10									N
Phenacetin	BRL	10									
Phenanthrene	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: MB-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367476							
Sample Type: MBLK	TestCode: Semivolatile Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133086							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phenol	BRL	10									
Phenothrin	BRL	10									N
Phorate	BRL	10									
Piperonyl Butoxide	BRL	10									N
Pronamide	BRL	10									
Pyrene	BRL	10									
Pyrethrin	BRL	50									N
Pyridine	BRL	10									
Resmethrin	BRL	10									N
Safrole	BRL	50									
Sym-Trinitrobenzene	BRL	10									
Tetraethyl dithiopyrophosphate	BRL	10									
Tetramethrin	BRL	10									N
Thionazin	BRL	10									
Surr: 2,4,6-Tribromophenol	67.05	0	100.0			67.0	51.4	138			
Surr: 2-Fluorobiphenyl	33.26	0	50.00			66.5	44.6	119			
Surr: 2-Fluorophenol	39.65	0	100.0			39.6	27.2	120			
Surr: 4-Terphenyl-d14	37.05	0	50.00			74.1	47.1	136			
Surr: Nitrobenzene-d5	29.24	0	50.00			58.5	40.7	119			
Surr: Phenol-d5	24.95	0	100.0			25.0	18.1	120			

Sample ID: MB-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367679							
Sample Type: MBLK	TestCode: APPENDIX IX-SEMI-VOLATILE ORGANICS SW8270D	BatchID: 258696	Analysis Date: 04/11/2018	Seq No: 8137869							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachlorophene	BRL	80									
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: LCS-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367476
Sample Type: LCS	TestCode: Semivolatile Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133177

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	77.37	10	100.0		77.4	46.4	120				
1,4-Dichlorobenzene	79.53	10	100.0		79.5	50.4	120				
2,4-Dinitrotoluene	77.16	10	100.0		77.2	52.3	120				
2-Chlorophenol	74.80	10	100.0		74.8	46.9	120				
4-Chloro-3-methylphenol	76.31	10	100.0		76.3	45.5	122				
4-Nitrophenol	25.61	25	100.0		25.6	23	120				
Acenaphthene	81.37	10	100.0		81.4	48.5	120				
N-Nitrosodi-n-propylamine	79.97	10	100.0		80.0	47.3	118				
Pentachlorophenol	46.97	25	100.0		47.0	41	118				
Phenol	29.85	10	100.0		29.8	26.4	120				
Pyrene	88.93	10	100.0		88.9	51.2	128				
Surr: 2,4,6-Tribromophenol	85.68	0	100.0		85.7	51.4	138				
Surr: 2-Fluorobiphenyl	42.89	0	50.00		85.8	44.6	119				
Surr: 2-Fluorophenol	49.19	0	100.0		49.2	27.2	120				
Surr: 4-Terphenyl-d14	49.20	0	50.00		98.4	47.1	136				
Surr: Nitrobenzene-d5	37.75	0	50.00		75.5	40.7	119				
Surr: Phenol-d5	34.86	0	100.0		34.9	18.1	120				

Sample ID: LCS-258696	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367477
Sample Type: LCS	TestCode: APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133178

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	77.37	10	100.0		77.4	46.4	120				
1,4-Dichlorobenzene	79.53	10	100.0		79.5	50.4	120				
2,4-Dinitrotoluene	77.16	10	100.0		77.2	52.3	120				
2-Chlorophenol	74.80	10	100.0		74.8	46.9	120				
4-Chloro-3-methylphenol	76.31	20	100.0		76.3	45.5	122				
4-Nitrophenol	BRL	50	100.0		25.6	23	120				

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258696**

Sample ID: LCS-258696	Client ID:	Prep Date:	04/09/2018	Run No:	367477
Sample Type: LCS	TestCode: APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D	Analysis Date:	04/09/2018	Seq No:	8133178
Units:	ug/L	BatchID:	258696		

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	81.37	10	100.0		81.4	48.5	120				
N-Nitrosodi-n-propylamine	79.97	10	100.0		80.0	47.3	118				
Pentachlorophenol	BRL	50	100.0		47.0	41	118				
Phenol	29.85	10	100.0		29.8	26.4	120				
Pyrene	88.93	10	100.0		88.9	51.2	128				
Surr: 2,4,6-Tribromophenol	85.68	0	100.0		85.7	51.4	138				
Surr: 2-Fluorobiphenyl	42.89	0	50.00		85.8	44.6	119				
Surr: 2-Fluorophenol	49.19	0	100.0		49.2	27.2	120				
Surr: 4-Terphenyl-d14	49.20	0	50.00		98.4	47.1	136				
Surr: Nitrobenzene-d5	37.75	0	50.00		75.5	40.7	119				
Surr: Phenol-d5	34.86	0	100.0		34.9	18.1	120				

Sample ID: 1804427-001BMS	Client ID:	Prep Date:	04/09/2018	Run No:	367466
Sample Type: MS	TestCode: APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D	Analysis Date:	04/09/2018	Seq No:	8133524
Units:	ug/L	BatchID:	258696		

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	63.93	10	100.0		63.9	47.9	120				
1,4-Dichlorobenzene	65.44	10	100.0		65.4	48	120				
2,4-Dinitrotoluene	63.16	10	100.0		63.2	50.3	123				
2-Chlorophenol	67.83	10	100.0		67.8	50.8	120				
4-Chloro-3-methylphenol	66.78	20	100.0		66.8	47.1	124				
4-Nitrophenol	BRL	50	100.0		24.3	21.8	120				
Acenaphthene	68.38	10	100.0		68.4	44.7	119				
N-Nitrosodi-n-propylamine	71.20	10	100.0		71.2	51.2	120				
Pentachlorophenol	52.11	50	100.0		52.1	40	120				
Phenol	32.24	10	100.0		32.2	31.5	120				
Pyrene	76.05	10	100.0		76.0	51	129				
Surr: 2,4,6-Tribromophenol	74.47	0	100.0		74.5	51.4	138				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258696**

Sample ID: <b>1804427-001BMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367466</b>							
Sample Type: <b>MS</b>	TestCode: <b>APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133524</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 2-Fluorobiphenyl	34.47	0	50.00		68.9	44.6	119				
Surr: 2-Fluorophenol	47.16	0	100.0		47.2	27.2	120				
Surr: 4-Terphenyl-d14	33.48	0	50.00		67.0	47.1	136				
Surr: Nitrobenzene-d5	34.38	0	50.00		68.8	40.7	119				
Surr: Phenol-d5	31.91	0	100.0		31.9	18.1	120				

Sample ID: <b>1804427-001BMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367467</b>							
Sample Type: <b>MS</b>	TestCode: <b>Semivolatile Org. Comp. by GC/MS SW8270D</b>	BatchID: <b>258696</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8133585</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2,4-Trichlorobenzene	63.93	10	100.0		63.9	47.9	120				
1,4-Dichlorobenzene	65.44	10	100.0		65.4	48	120				
2,4-Dinitrotoluene	63.16	10	100.0		63.2	50.3	123				
2-Chlorophenol	67.83	10	100.0		67.8	50.8	120				
4-Chloro-3-methylphenol	66.78	10	100.0		66.8	47.1	124				
4-Nitrophenol	BRL	25	100.0		24.3	21.8	120				
Acenaphthene	68.38	10	100.0		68.4	44.7	119				
N-Nitrosodi-n-propylamine	71.20	10	100.0		71.2	51.2	120				
Pentachlorophenol	52.11	25	100.0		52.1	40	120				
Phenol	32.24	10	100.0		32.2	31.5	120				
Pyrene	76.05	10	100.0		76.0	51	129				
Surr: 2,4,6-Tribromophenol	74.47	0	100.0		74.5	51.4	138				
Surr: 2-Fluorobiphenyl	34.47	0	50.00		68.9	44.6	119				
Surr: 2-Fluorophenol	47.16	0	100.0		47.2	27.2	120				
Surr: 4-Terphenyl-d14	33.48	0	50.00		67.0	47.1	136				
Surr: Nitrobenzene-d5	34.38	0	50.00		68.8	40.7	119				
Surr: Phenol-d5	31.91	0	100.0		31.9	18.1	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: 1804427-001BMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367466
Sample Type: MSD	TestCode: APPENDIX IX-SEMIVOLATILE ORGANICS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133525

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	53.72	10	100.0		53.7	47.9	120	63.93	17.4	26.1	
1,4-Dichlorobenzene	57.39	10	100.0		57.4	48	120	65.44	13.1	28.3	
2,4-Dinitrotoluene	61.68	10	100.0		61.7	50.3	123	63.16	2.37	21.7	
2-Chlorophenol	59.40	10	100.0		59.4	50.8	120	67.83	13.3	24.8	
4-Chloro-3-methylphenol	61.08	20	100.0		61.1	47.1	124	66.78	8.92	20.7	
4-Nitrophenol	BRL	50	100.0		28.0	21.8	120	24.30	0	38.3	
Acenaphthene	63.91	10	100.0		63.9	44.7	119	68.38	6.76	20.5	
N-Nitrosodi-n-propylamine	63.36	10	100.0		63.4	51.2	120	71.20	11.7	23.2	
Pentachlorophenol	BRL	50	100.0		48.1	40	120	52.11	0	30.7	
Phenol	32.19	10	100.0		32.2	31.5	120	32.24	0.155	28.5	
Pyrene	76.65	10	100.0		76.6	51	129	76.05	0.786	24.8	
Surr: 2,4,6-Tribromophenol	71.43	0	100.0		71.4	51.4	138	74.47	0	0	
Surr: 2-Fluorobiphenyl	31.37	0	50.00		62.7	44.6	119	34.47	0	0	
Surr: 2-Fluorophenol	44.76	0	100.0		44.8	27.2	120	47.16	0	0	
Surr: 4-Terphenyl-d14	34.67	0	50.00		69.3	47.1	136	33.48	0	0	
Surr: Nitrobenzene-d5	29.31	0	50.00		58.6	40.7	119	34.38	0	0	
Surr: Phenol-d5	31.86	0	100.0		31.9	18.1	120	31.91	0	0	

Sample ID: 1804427-001BMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367467
Sample Type: MSD	TestCode: Semivolatile Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133586

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	53.72	10	100.0		53.7	47.9	120	63.93	17.4	26.1	
1,4-Dichlorobenzene	57.39	10	100.0		57.4	48	120	65.44	13.1	28.3	
2,4-Dinitrotoluene	61.68	10	100.0		61.7	50.3	123	63.16	2.37	21.7	
2-Chlorophenol	59.40	10	100.0		59.4	50.8	120	67.83	13.3	24.8	
4-Chloro-3-methylphenol	61.08	10	100.0		61.1	47.1	124	66.78	8.92	20.7	
4-Nitrophenol	27.96	25	100.0		28.0	21.8	120	24.30	14.0	38.3	

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258696

Sample ID: 1804427-001BMSD	Client ID:	Units: ug/L	Prep Date: 04/09/2018	Run No: 367467
Sample Type: MSD	Test Code: Semivolatle Org. Comp. by GC/MS SW8270D	BatchID: 258696	Analysis Date: 04/09/2018	Seq No: 8133586

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Acenaphthene	63.91	10	100.0		63.9	44.7	119	68.38	6.76	20.5	
N-Nitrosodi-n-propylamine	63.36	10	100.0		63.4	51.2	120	71.20	11.7	23.2	
Pentachlorophenol	48.06	25	100.0		48.1	40	120	52.11	8.09	30.7	
Phenol	32.19	10	100.0		32.2	31.5	120	32.24	0.155	28.5	
Pyrene	76.65	10	100.0		76.6	51	129	76.05	0.786	24.8	
Surr: 2,4,6-Tribromophenol	71.43	0	100.0		71.4	51.4	138	74.47	0	0	
Surr: 2-Fluorobiphenyl	31.37	0	50.00		62.7	44.6	119	34.47	0	0	
Surr: 2-Fluorophenol	44.76	0	100.0		44.8	27.2	120	47.16	0	0	
Surr: 4-Terphenyl-d14	34.67	0	50.00		69.3	47.1	136	33.48	0	0	
Surr: Nitrobenzene-d5	29.31	0	50.00		58.6	40.7	119	34.38	0	0	
Surr: Phenol-d5	31.86	0	100.0		31.9	18.1	120	31.91	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**BatchID: 258786**

Sample ID: <b>MB-258786</b>	Client ID:	CHLORINATED HERBICIDES SW8151A	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367619</b>						
Sample Type: <b>MBLK</b>	TestCode:	CHLORINATED HERBICIDES SW8151A	BatchID: <b>258786</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135807</b>						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Dinoseb  
 Surr: DCAA      BRL      5.0      0      5.000      67.9      45.3      135

Sample ID: <b>LCS-258786</b>	Client ID:	CHLORINATED HERBICIDES SW8151A	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367619</b>						
Sample Type: <b>LCS</b>	TestCode:	CHLORINATED HERBICIDES SW8151A	BatchID: <b>258786</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135808</b>						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: DCAA      3.063      0      5.000      61.3      45.3      135

Sample ID: <b>1804662-003BMS</b>	Client ID: <b>SP-8A</b>	CHLORINATED HERBICIDES SW8151A	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367619</b>						
Sample Type: <b>MS</b>	TestCode: <b>MS</b>	CHLORINATED HERBICIDES SW8151A	BatchID: <b>258786</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135810</b>						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: DCAA      2.763      0      5.000      55.3      45.3      135

Sample ID: <b>1804662-003BMSD</b>	Client ID: <b>SP-8A</b>	CHLORINATED HERBICIDES SW8151A	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367619</b>						
Sample Type: <b>MSD</b>	TestCode: <b>MSD</b>	CHLORINATED HERBICIDES SW8151A	BatchID: <b>258786</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135811</b>						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: DCAA      3.020      0      5.000      60.4      45.3      135      2.763      0      0

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258833**

Sample ID: <b>MB-258833</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367589</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011</b>	BatchID: <b>258833</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8135025</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromo-3-chloropropane	BRL	0.040									
1,2-Dibromoethane	BRL	0.020									
Surr: 4-Bromofluorobenzene	5.316	0	5.000		106	70.4	134				

Sample ID: <b>LCS-258833</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367589</b>							
Sample Type: <b>LCS</b>	TestCode: <b>MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011</b>	BatchID: <b>258833</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8135026</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromo-3-chloropropane	0.1070	0.040	0.1000		107	60	140				
1,2-Dibromoethane	0.1110	0.020	0.1000		111	60	140				
Surr: 4-Bromofluorobenzene	5.327	0	5.000		107	70.4	134				

Sample ID: <b>LCS-D-258833</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367589</b>							
Sample Type: <b>LCS-D</b>	TestCode: <b>MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011</b>	BatchID: <b>258833</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8135028</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromo-3-chloropropane	0.1080	0.040	0.1000		108	60	140	0.1070	0.930	18.7	
1,2-Dibromoethane	0.1090	0.020	0.1000		109	60	140	0.1110	1.82	18.2	
Surr: 4-Bromofluorobenzene	5.305	0	5.000		106	70.4	134	5.327	0	0	

Sample ID: <b>1804602-001AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/09/2018</b>	Run No: <b>367589</b>							
Sample Type: <b>MS</b>	TestCode: <b>MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011</b>	BatchID: <b>258833</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8135031</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromo-3-chloropropane	0.06657	0.040	0.1009		66.0	53.6	135				
1,2-Dibromoethane	0.1261	0.020	0.1009	0.02290	102	61.5	131				
Surr: 4-Bromofluorobenzene	5.376	0	5.043		107	70.4	134				

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

BatchID: 258885

Sample ID: MB-258885	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: MBLK	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139494				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020						

Sample ID: LCS-258885	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: LCS	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139495				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003944	98.6	80	120				

Sample ID: 1804545-005AMS	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: MS	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139497				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003943	98.6	70	130				

Sample ID: 1804545-005AMSD	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: MSD	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139498				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003940	98.5	70	130	0.003943	0.074	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**BatchID: 258894**

Sample ID: <b>MB-258894</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367782</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX METALS SW6020B</b>	BatchID: <b>258894</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8141006</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	BRL	0.00600									
Arsenic	BRL	0.0100									
Barium	BRL	0.0200									
Beryllium	BRL	0.00400									
Cadmium	BRL	0.00500									
Chromium	BRL	0.0100									
Cobalt	BRL	0.0100									
Copper	BRL	0.0250									
Lead	BRL	0.0100									
Nickel	BRL	0.0400									
Selenium	BRL	0.0100									
Silver	BRL	0.0100									
Thallium	BRL	0.00200									
Tin	BRL	0.0400									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: <b>LCS-258894</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367782</b>							
Sample Type: <b>LCS</b>	TestCode: <b>APPENDIX IX METALS SW6020B</b>	BatchID: <b>258894</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8141007</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1061	0.00600	0.1000		106	80	120				
Arsenic	0.1129	0.0100	0.1000		113	80	120				
Barium	0.1009	0.0200	0.1000		101	80	120				
Beryllium	0.1080	0.00400	0.1000		108	80	120				
Cadmium	0.1147	0.00500	0.1000		115	80	120				
Chromium	0.1097	0.0200	0.1000	0.0005871	109	80	120				
Cobalt	0.1124	0.0500	0.1000		112	80	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258894

Sample ID: LCS-258894	Client ID:	Units: mg/L	Prep Date: 04/10/2018	Run No: 367782
Sample Type: LCS	Test Code: APPENDIX IX METALS SW6020B	BatchID: 258894	Analysis Date: 04/11/2018	Seq No: 8141007

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1081	0.0200	0.1000	0.0003785	108	80	120				
Lead	0.09795	0.0100	0.1000		98.0	80	120				
Nickel	0.1105	0.0400	0.1000		110	80	120				
Selenium	0.1036	0.0500	0.1000	0.0005438	103	80	120				
Silver	0.01105	0.00500	0.0100	0.00004612	110	80	120				
Thallium	0.1072	0.00200	0.1000		107	80	120				
Tin	0.1116	0.0400	0.1000	0.001434	110	80	120				
Vanadium	0.1085	0.0500	0.1000		109	80	120				
Zinc	0.1097	0.0200	0.1000	0.002554	107	80	120				

Sample ID: 1804596-002CMS	Client ID:	Units: mg/L	Prep Date: 04/10/2018	Run No: 367782
Sample Type: MS	Test Code: APPENDIX IX METALS SW6020B	BatchID: 258894	Analysis Date: 04/11/2018	Seq No: 8141009

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Antimony	0.1056	0.00600	0.1000	0.0007446	105	75	125				
Arsenic	0.1136	0.0100	0.1000	0.0002148	113	75	125				
Barium	0.1817	0.0200	0.1000	0.07629	105	75	125				
Beryllium	0.08259	0.00400	0.1000	0.0002085	82.4	75	125				
Cadmium	0.1120	0.00500	0.1000		112	75	125				
Chromium	0.1102	0.0200	0.1000	0.001148	109	75	125				
Cobalt	0.1132	0.0500	0.1000	0.0003250	113	75	125				
Copper	0.1098	0.0200	0.1000	0.0008709	109	75	125				
Lead	0.09598	0.0100	0.1000	0.0004517	95.5	75	125				
Nickel	0.1115	0.0400	0.1000	0.0004610	111	75	125				
Selenium	0.1039	0.0500	0.1000	0.0006522	103	75	125				
Silver	0.01123	0.00500	0.0100	0.0001196	111	75	125				
Thallium	0.1090	0.00200	0.1000	0.0002534	109	75	125				
Tin	0.1109	0.0400	0.1000	0.001121	110	75	125				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		



**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258894**

Sample ID: <b>1804596-002CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367782</b>							
Sample Type: <b>MS</b>	TestCode: <b>APPENDIX IX METALS SW6020B</b>	BatchID: <b>258894</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8141009</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vanadium	0.09993	0.0500	0.1000	0.001112	98.8	75	125				
Zinc	0.1137	0.0200	0.1000	0.006376	107	75	125				

Sample ID: <b>1804596-002CMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367782</b>							
Sample Type: <b>MSD</b>	TestCode: <b>APPENDIX IX METALS SW6020B</b>	BatchID: <b>258894</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8141010</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Antimony	0.1052	0.00660	0.1000	0.0007446	104	75	125	0.1056	0.422	20	
Arsenic	0.1135	0.0100	0.1000	0.0002148	113	75	125	0.1136	0.121	20	
Barium	0.1804	0.0200	0.1000	0.07629	104	75	125	0.1817	0.717	20	
Beryllium	0.08392	0.00400	0.1000	0.0002085	83.7	75	125	0.08259	1.59	20	
Cadmium	0.1115	0.00500	0.1000		111	75	125	0.1120	0.466	20	
Chromium	0.1101	0.0200	0.1000	0.001148	109	75	125	0.1102	0.019	20	
Cobalt	0.1126	0.0500	0.1000	0.0003250	112	75	125	0.1132	0.536	20	
Copper	0.1097	0.0200	0.1000	0.0008709	109	75	125	0.1098	0.062	20	
Lead	0.09669	0.0100	0.1000	0.0004517	96.2	75	125	0.09598	0.741	20	
Nickel	0.1105	0.0400	0.1000	0.0004610	110	75	125	0.1115	0.891	20	
Selenium	0.1041	0.0500	0.1000	0.0006522	103	75	125	0.1039	0.205	20	
Silver	0.01126	0.00500	0.1000	0.0001196	111	75	125	0.01123	0.351	20	
Thallium	0.1087	0.00200	0.1000	0.0002534	108	75	125	0.1090	0.225	20	
Tin	0.1094	0.0400	0.1000	0.001121	108	75	125	0.1109	1.28	20	
Vanadium	0.09844	0.0500	0.1000	0.001112	97.3	75	125	0.09993	1.50	20	
Zinc	0.1140	0.0200	0.1000	0.006376	108	75	125	0.1137	0.233	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258936

Sample ID: MB-258936	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135220
			SW8260B	

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichlorobenzene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2,4-Trimethylbenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloroethene, Total	BRL	3.0									
1,2-Dichloropropane	BRL	1.0									
1,3,5-Trimethylbenzene	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
1,4-Dioxane	BRL	150									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	1.0									
2-Hexanone	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258936**

Sample ID: <b>MB-258936</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367558</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>SW8260B</b>	BatchID: <b>258936</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135220</b>							
<b>Volatile Organic Compounds by GC/MS</b>											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4-Chlorotoluene	BRL	1.0									
4-Isopropyltoluene	BRL	2.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	1.0									
Bromobenzene	BRL	1.0									
Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Cyclohexane	BRL	2.0									
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Freon-113	BRL	5.0									
Hexachlorobutadiene	BRL	1.0									

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258936**

Sample ID: <b>MB-258936</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367558</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>258936</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135220</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iodomethane	BRL	2.0									
Isopropylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methyl acetate	BRL	2.0									
Methyl tert-butyl ether	BRL	1.0									
Methylcyclohexane	BRL	2.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	1.0									
n-Propylbenzene	BRL	1.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	1.0									
sec-Butylbenzene	BRL	2.0									
Styrene	BRL	1.0									
tert-Butylbenzene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	49.45	0	50.00		98.9	68	127				
Surr: Dibromofluoromethane	55.08	0	50.00		110	84.4	122				
Surr: Toluene-d8	49.48	0	50.00		99.0	80.1	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL		Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258936

Sample ID: MB-258936	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558							
Sample Type: MBLK	TestCode: APPENDIX IX VOLATILE ORGANICS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135237							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258936**

Sample ID: <b>MB-258936</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367558</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX VOLATILE ORGANICS SW8260B</b>	BatchID: <b>258936</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135237</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,3-Dichloropropene	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	5.0									
Ethylbenzene	BRL	5.0									
Iodomethane	BRL	10									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	49.45	0	50.00		98.9	68	127				
Surr: Dibromofluoromethane	55.08	0	50.00		110	84.4	122				
Surr: Toluene-d8	49.48	0	50.00		99.0	80.1	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258936**

Sample ID: <b>MB-258936</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367558</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>APPENDIX IX VOLATILE ORGANICS SW8260B</b>	BatchID: <b>258936</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135289</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acetonitrile	BRL	100									
Allyl Chloride	BRL	10									
Chloroprene	BRL	20									
Ethyl Methacrylate	BRL	10									
Isobutyl Alcohol	BRL	200									
Methyl Methacrylate	BRL	10									
Methylacrylonitrile	BRL	200									
Pentachloroethane	BRL	10									
Propionitrile	BRL	100									
Surr: 4-Bromofluorobenzene	48.22	0	50.00		96.4	68	127				
Surr: Dibromofluoromethane	55.77	0	50.00		112	84.4	122				
Surr: Toluene-d8	50.15	0	50.00		100	80.1	116				

Sample ID: <b>LCS-258936</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367558</b>							
Sample Type: <b>LCS</b>	TestCode: <b>Volatile Organic Compounds by GC/MS SW8260B</b>	BatchID: <b>258936</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8135218</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20.73	2.0	20.00		104	69	136				
Benzene	17.41	1.0	20.00		87.0	73.7	126				
Chlorobenzene	21.09	1.0	20.00		105	73.5	124				
Toluene	19.27	1.0	20.00		96.4	76.8	125				
Trichloroethene	20.04	1.0	20.00		100	70.9	124				
Surr: 4-Bromofluorobenzene	49.76	0	50.00		99.5	68	127				
Surr: Dibromofluoromethane	52.34	0	50.00		105	84.4	122				
Surr: Toluene-d8	48.08	0	50.00		96.2	80.1	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**BatchID: 258936**

Sample ID: LCS-258936	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558
Sample Type: LCS	TestCode: APPENDIX IX VOLATILE ORGANICS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135236

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.73	5.0	20.00		104	69	136				
Benzene	17.41	5.0	20.00		87.0	73.7	126				
Chlorobenzene	21.09	5.0	20.00		105	73.5	124				
Toluene	19.27	5.0	20.00		96.4	76.8	125				
Trichloroethene	20.04	5.0	20.00		100	70.9	124				
Surr: 4-Bromofluorobenzene	49.76	0	50.00		99.5	68	127				
Surr: Dibromofluoromethane	52.34	0	50.00		105	84.4	122				
Surr: Toluene-d8	48.08	0	50.00		96.2	80.1	116				

Sample ID: 1804605-001AMS	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558
Sample Type: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135226

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19680	2000	20000		98.4	65.7	143				
Benzene	17660	1000	20000		88.3	66.1	137				
Chlorobenzene	20140	1000	20000		101	70.9	132				
Toluene	19560	1000	20000		97.8	63.8	141				
Trichloroethene	20370	1000	20000		102	70.6	128				
Surr: 4-Bromofluorobenzene	49720	0	50000		99.4	68	127				
Surr: Dibromofluoromethane	53040	0	50000		106	84.4	122				
Surr: Toluene-d8	47840	0	50000		95.7	80.1	116				

Sample ID: 1804605-001AMS	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558
Sample Type: MS	TestCode: APPENDIX IX VOLATILE ORGANICS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135239

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	19680	5000	20000		98.4	65.7	143				
Benzene	17660	5000	20000		88.3	66.1	137				

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix



**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258936

Sample ID: 1804605-001AMS	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558							
Sample Type: MS	TestCode: APPENDIX IX VOLATILE ORGANICS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135239							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	20140	5000	20000		101	70.9	132				
Toluene	19560	5000	20000		97.8	63.8	141				
Trichloroethene	20370	5000	20000		102	70.6	128				
Surr: 4-Bromofluorobenzene	49720	0	50000		99.4	68	127				
Surr: Dibromofluoromethane	53040	0	50000		106	84.4	122				
Surr: Toluene-d8	47840	0	50000		95.7	80.1	116				

Sample ID: 1804605-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558							
Sample Type: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135229							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	18330	2000	20000		91.6	65.7	143	19680	7.10	17.7	
Benzene	16050	1000	20000		80.2	66.1	137	17660	9.55	20	
Chlorobenzene	19460	1000	20000		97.3	70.9	132	20140	3.43	20	
Toluene	18190	1000	20000		91.0	63.8	141	19560	7.26	20	
Trichloroethene	19080	1000	20000		95.4	70.6	128	20370	6.54	20	
Surr: 4-Bromofluorobenzene	49760	0	50000		99.5	68	127	49720	0	0	
Surr: Dibromofluoromethane	54710	0	50000		109	84.4	122	53040	0	0	
Surr: Toluene-d8	48790	0	50000		97.6	80.1	116	47840	0	0	

Sample ID: 1804605-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558							
Sample Type: MSD	TestCode: APPENDIX IX VOLATILE ORGANICS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135240							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	18330	5000	20000		91.6	65.7	143	19680	7.10	17.7	
Benzene	16050	5000	20000		80.2	66.1	137	17660	9.55	20	
Chlorobenzene	19460	5000	20000		97.3	70.9	132	20140	3.43	20	
Toluene	18190	5000	20000		91.0	63.8	141	19560	7.26	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRLL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258936

Sample ID: 1804605-001AMSD	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367558
Sample Type: MSD	TestCode: APPENDIX IX VOLATILE ORGANICS SW8260B	BatchID: 258936	Analysis Date: 04/10/2018	Seq No: 8135240

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	19080	5000	20000		95.4	70.6	128	20370	6.54	20	
Surr: 4-Bromofluorobenzene	49760	0	50000		99.5	68	127	49720	0	0	
Surr: Dibromofluoromethane	54710	0	50000		109	84.4	122	53040	0	0	
Surr: Toluene-d8	48790	0	50000		97.6	80.1	116	47840	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258984**

Sample ID: <b>MB-258984</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367657</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8136836</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	BRL	5.0									
Surr: 4-Bromofluorobenzene	50.06	0	50.00		100	85.7	115				
Surr: Dibromofluoromethane	50.14	0	50.00		100	73.4	129				
Surr: Toluene-d8	50.45	0	50.00		101	85	115				

Sample ID: <b>LCS-258984</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367657</b>							
Sample Type: <b>LCS</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8136835</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	7.120	5.0	10.00		71.2	69.1	131				
Surr: 4-Bromofluorobenzene	49.94	0	50.00		99.9	85.7	115				
Surr: Dibromofluoromethane	50.12	0	50.00		100	73.4	129				
Surr: Toluene-d8	49.79	0	50.00		99.6	85	115				

Sample ID: <b>1804663-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367720</b>							
Sample Type: <b>MS</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8138747</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	11.14	5.0	10.00		111	60	141				
Surr: 4-Bromofluorobenzene	51.35	0	50.00		103	85.7	115				
Surr: Dibromofluoromethane	49.89	0	50.00		99.8	73.4	129				
Surr: Toluene-d8	50.60	0	50.00		101	85	115				

Sample ID: <b>1804663-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367720</b>							
Sample Type: <b>MSD</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8138748</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	10.34	5.0	10.00		103	60	141	11.14	7.45	20	
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**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258984

Sample ID: 1804663-002AMSD	Client ID:	Units: ug/L	Prep Date: 04/10/2018	Run No: 367720
Sample Type: MSD	Test Code: 1,4-Dioxane by SIM GC/MS SW8260B-SIM	BatchID: 258984	Analysis Date: 04/12/2018	Seq No: 8138748

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	51.12	0	50.00		102	85.7	115	51.35	0	0	
Surr: Dibromofluoromethane	49.30	0	50.00		98.6	73.4	129	49.89	0	0	
Surr: Toluene-d8	50.24	0	50.00		100	85	115	50.60	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded	
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix	
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix			

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 259004

Sample ID: MB-259004	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367873				
Sample Type: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 259004	Analysis Date: 04/12/2018	Seq No: 8143239				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	BRL		0.0200					
Cadmium	BRL		0.0050					
Calcium	BRL		0.100					
Chromium	BRL		0.0100					
Cobalt	BRL		0.0200					
Copper	BRL		0.0100					
Lead	BRL		0.0100					
Magnesium	BRL		0.100					
Nickel	BRL		0.0200					
Silver	BRL		0.0100					
Vanadium	BRL		0.0100					
Zinc	BRL		0.0200					

Sample ID: MB-259004	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367922				
Sample Type: MBLK	TestCode: METALS, TOTAL SW6010D	BatchID: 259004	Analysis Date: 04/13/2018	Seq No: 8144578				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL		0.0100					
Selenium	BRL		0.0100					

Sample ID: LCS-259004	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367873				
Sample Type: LCS	TestCode: METALS, TOTAL SW6010D	BatchID: 259004	Analysis Date: 04/12/2018	Seq No: 8143240				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.142		0.0500	1.000	114	80	120	
Barium	1.083		0.0200	1.000	108	80	120	
Cadmium	1.008		0.0050	1.000	101	80	120	
Calcium	10.63		0.100	10.00	106	80	120	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804662

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 259004**

Sample ID: <b>LCS-259004</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143240</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chromium	1.076	0.0100	1.000		108	80	120				
Cobalt	1.031	0.0200	1.000		103	80	120				
Copper	1.045	0.0100	1.000		105	80	120				
Lead	1.048	0.0100	1.000		105	80	120				
Magnesium	10.65	0.100	10.00		107	80	120				
Nickel	1.080	0.0200	1.000		108	80	120				
Selenium	1.102	0.0200	1.000		110	80	120				
Silver	0.1006	0.0100	0.1000		101	80	120				
Vanadium	1.020	0.0100	1.000		102	80	120				
Zinc	1.163	0.0200	1.000		116	80	120				

Sample ID: <b>1804663-002BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143244</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.135	0.0500	1.000		114	75	125				
Barium	1.120	0.0200	1.000	0.02593	109	75	125				
Cadmium	1.016	0.0050	1.000		102	75	125				
Calcium	12.22	0.100	10.00	1.565	107	75	125				
Chromium	1.077	0.0100	1.000	0.003360	107	75	125				
Cobalt	1.047	0.0200	1.000		105	75	125				
Copper	1.081	0.0100	1.000		108	75	125				
Lead	1.043	0.0100	1.000		104	75	125				
Magnesium	11.65	0.100	10.00	0.8478	108	75	125				
Nickel	1.076	0.0200	1.000	0.01239	106	75	125				
Selenium	1.124	0.0200	1.000		112	75	125				
Silver	0.1026	0.0100	0.1000		103	75	125				
Vanadium	1.040	0.0100	1.000		104	75	125				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 259004

Sample ID: 1804663-002BMS	Client ID:	METALS, TOTAL	SW6010D	Units: mg/L	Prep Date: 04/11/2018	Run No: 367873					
Sample Type: MS	Test Code:			BatchID: 259004	Analysis Date: 04/12/2018	Seq No: 8143244					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Zinc	1.150	0.0200	1.000	0.01539	113	75	125				
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Sample ID: 1804663-002BMSD	Client ID:	METALS, TOTAL	SW6010D	Units: mg/L	Prep Date: 04/11/2018	Run No: 367873					
Sample Type: MSD	Test Code:			BatchID: 259004	Analysis Date: 04/12/2018	Seq No: 8143245					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.116	0.0500	1.000		112	75	125	1.135	1.68	20	
Barium	1.101	0.0200	1.000	0.02593	107	75	125	1.120	1.73	20	
Cadmium	1.002	0.0050	1.000		100	75	125	1.016	1.38	20	
Calcium	12.04	0.100	10.00	1.565	105	75	125	12.22	1.51	20	
Chromium	1.060	0.0100	1.000	0.003360	106	75	125	1.077	1.58	20	
Cobalt	1.029	0.0200	1.000		103	75	125	1.047	1.75	20	
Copper	1.063	0.0100	1.000		106	75	125	1.081	1.65	20	
Lead	1.023	0.0100	1.000		102	75	125	1.043	1.93	20	
Magnesium	11.48	0.100	10.00	0.8478	106	75	125	11.65	1.48	20	
Nickel	1.059	0.0200	1.000	0.01239	105	75	125	1.076	1.64	20	
Selenium	1.104	0.0200	1.000		110	75	125	1.124	1.76	20	
Silver	0.1013	0.0100	0.1000		101	75	125	0.1026	1.33	20	
Vanadium	1.024	0.0100	1.000		102	75	125	1.040	1.54	20	
Zinc	1.129	0.0200	1.000	0.01539	111	75	125	1.150	1.82	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

BatchID: 259076

Sample ID: MB-259076	Client ID:	Units: mg/L	Prep Date: 04/12/2018	Run No: 367799				
Sample Type: MBLK	TestCode: Cyanide SW9014	BatchID: 259076	Analysis Date: 04/12/2018	Seq No: 8141028				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010						

Sample ID: LCS-259076	Client ID:	Units: mg/L	Prep Date: 04/12/2018	Run No: 367799				
Sample Type: LCS	TestCode: Cyanide SW9014	BatchID: 259076	Analysis Date: 04/12/2018	Seq No: 8141029				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2340	93.6	85	115				

Sample ID: 1804663-002CMS	Client ID:	Units: mg/L	Prep Date: 04/12/2018	Run No: 367799				
Sample Type: MS	TestCode: Cyanide SW9014	BatchID: 259076	Analysis Date: 04/12/2018	Seq No: 8141040				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2600	104	70	130				

Sample ID: 1804663-002CMSD	Client ID:	Units: mg/L	Prep Date: 04/12/2018	Run No: 367799				
Sample Type: MSD	TestCode: Cyanide SW9014	BatchID: 259076	Analysis Date: 04/12/2018	Seq No: 8141041				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	98.4	70	130	0.2600	5.53	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Analytical Environmental Services, Inc**

Date: 16-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804662

BatchID: R367633

Sample ID: MB-R367633	Client ID:	Units: mg/L	Prep Date:	Run No: 367633				
Sample Type: MBLK	TestCode: Sulfide by SM4500-S2-F	BatchID: R367633	Analysis Date: 04/11/2018	Seq No: 8136191				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	1.00						

Sample ID: LCS-R367633	Client ID:	Units: mg/L	Prep Date:	Run No: 367633				
Sample Type: LCS	TestCode: Sulfide by SM4500-S2-F	BatchID: R367633	Analysis Date: 04/11/2018	Seq No: 8136192				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	272.0	100	90	110				

Sample ID: 1804660-009BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 367633				
Sample Type: MS	TestCode: Sulfide by SM4500-S2-F	BatchID: R367633	Analysis Date: 04/11/2018	Seq No: 8136201				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	14.00	103	80	120				

Sample ID: 1804660-009BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 367633				
Sample Type: MSD	TestCode: Sulfide by SM4500-S2-F	BatchID: R367633	Analysis Date: 04/11/2018	Seq No: 8136204				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	14.40	106	80	120	14.00	2.82	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



April 17, 2018

Sharon Schultz  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

RE: Ingersoll Rand - Sylvania Remediation

Dear Sharon Schultz:

Order No: 1804663

Analytical Environmental Services, Inc. received 7 samples on 4/6/2018 4:15:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar  
Project Manager

**Revision 4/17/2018**



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704  
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1804663

Date: 4/6/18 Page 1 of 1

COMPANY:		ADDRESS:				ANALYSIS REQUESTED										REMARKS	No # of Containers			
Atlanta Environmental Mgmt. Inc.		2580 Northeast Expressway, Atlanta, Georgia 30345				Full Appendix X		Herbicides (Dinoseb Only)		Metals (see list)		Copper Only		Cyanide		Sulfide		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		
PHON 404-329-9006	FAX: 404-329-2057	SIGNATURE: <i>Gerald Ingle</i>		DATE		TIME		SAMPLED		Grab		Composite		Matrix (See codes)						
#	SAMPLE ID	DATE	TIME	SAMPLED	Grab	Composite	Matrix (See codes)	H+I	H+I	NA	NA	NA	NA	NA	NA	NA	NA	REMARKS	No # of Containers	
1	TRIP BLANK						W	X											2	
2	W-27D	4/2/18	1545	X	X		GW	X	X	X	X	X	X	X	X	X	X		7	
3	W-27S	4/2/18	1750	X	X		GW	X	X	X	X	X	X	X	X	X	X		7	
4	SP-5	4/4/18	1115	X	X		GW			X	X	X	X	X	X	X	X		2	
5	SP-9	4/4/18	1650	X	X		GW			X	X	X	X	X	X	X	X		2	
6	SP-9D	4/5/18	1730	X	X		GW			X	X	X	X	X	X	X	X		3	
7	W-5	4/4/18	1430	X	X		GW			X	X	X	X	X	X	X	X		2	
8																				
9																				
10																				
11																				
12																				
13																				
14																				
RELINQUISHED BY: <i>Sally J</i>		DATE/TIM	4/6/18/1145	RECEIVED BY: <i>Dawn Moore</i>	DATE/TIME	4-06-18 1145	PROJECT INFORMATION													RECEIPT
1: <i>Sally J</i>		DATE/TIM	4/6/18/1145	RECEIVED BY: <i>Dawn Moore</i>	DATE/TIME	4-06-18 1145	PROJECT NAME: Ingersoll Rand - Sylvania Remediation													Total # of Containers
2: <i>Dawn Moore</i>		DATE/TIM	4-06-18 1615	RECEIVED BY: <i>Dawn Moore</i>	DATE/TIME	4/6/18/1615	PROJECT #: 1162-1801-2													Turnaround Time Request
3: <i>Dawn Moore</i>		DATE/TIM	4-06-18 1615	RECEIVED BY: <i>Dawn Moore</i>	DATE/TIME	4/6/18/1615	SITE ADDRESS: 400 Friendship Road													Standard 5 Business Days
		DATE/TIM		RECEIVED BY:	DATE/TIME		Sylvania, Georgia 30467													2 Business Day Rush
		DATE/TIM		RECEIVED BY:	DATE/TIME		SEND REPORT TO: Sharon Shultz (AEM), copy Gerald Ingle (email PDF)													Next Business Day Rush
		DATE/TIM		RECEIVED BY:	DATE/TIME		INVOICE TO:													Same Day Rush (auth req.)
		DATE/TIM		RECEIVED BY:	DATE/TIME		(IF DIFFERENT FROM ABOVE)													Other
		DATE/TIM		RECEIVED BY:	DATE/TIME		SHIPMENT METHOD													STATE PROGRAM (if any): <i>KRAM</i>
		DATE/TIM		RECEIVED BY:	DATE/TIME		OUT / / VIA:													E-mail? <i>Y/N</i>
		DATE/TIM		RECEIVED BY:	DATE/TIME		IN / / VIA:													DATA PACKAGE: <input checked="" type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV
		DATE/TIM		RECEIVED BY:	DATE/TIME		CLIENTS / Fedex / UPS / MAIL / COURIER													
		DATE/TIM		RECEIVED BY:	DATE/TIME		GREYHOUND / OTHER													
		DATE/TIM		RECEIVED BY:	DATE/TIME		SPECIAL INSTRUCTIONS/COMMENTS:													
		DATE/TIM		RECEIVED BY:	DATE/TIME		Please send reports and EDD to Sharon Shultz													
		DATE/TIM		RECEIVED BY:	DATE/TIME		sharon-shultz@aes-net.com													
		DATE/TIM		RECEIVED BY:	DATE/TIME		Copy Gerald Ingle on email													
SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.																				
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.																				

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+H = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Analytical Environmental Services, Inc

Date: 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/5/2018
<b>Lab ID:</b> 1804663-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B</b>			<b>(SW5030B)</b>			
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,1-Dichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,1-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,1-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2-Dibromoethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2-Dichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,2-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,3-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
2,2-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
2-Butanone	BRL	10		ug/L	258971	1	04/12/2018 07:19	NP
2-Chloroethyl vinyl ether	BRL	2.0		ug/L	258971	1	04/12/2018 07:19	NP
2-Chlorotoluene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
2-Hexanone	BRL	5.0		ug/L	258971	1	04/12/2018 07:19	NP
4-Chlorotoluene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
4-Isopropyltoluene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	258971	1	04/12/2018 07:19	NP
Acetone	BRL	10		ug/L	258971	1	04/12/2018 07:19	NP
Acrolein	BRL	5.0		ug/L	258971	1	04/12/2018 07:19	NP
Acrylonitrile	BRL	5.0		ug/L	258971	1	04/12/2018 07:19	NP
Benzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Bromobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Bromochloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Bromodichloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Bromoform	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Bromomethane	BRL	2.0		ug/L	258971	1	04/12/2018 07:19	NP
Carbon disulfide	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Carbon tetrachloride	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Chlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Chloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/5/2018
<b>Lab ID:</b> 1804663-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloroform	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Chloromethane	BRL	2.0		ug/L	258971	1	04/12/2018 07:19	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Dibromochloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Dibromomethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	258971	1	04/12/2018 07:19	NP
Ethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Hexachlorobutadiene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Isopropylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
m,p-Xylene	BRL	2.0		ug/L	258971	1	04/12/2018 07:19	NP
Methylene chloride	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
n-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
n-Propylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Naphthalene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
o-Xylene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
sec-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Styrene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
tert-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Tetrachloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Toluene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Trichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Trichlorofluoromethane	BRL	1.0		ug/L	258971	1	04/12/2018 07:19	NP
Vinyl acetate	BRL	5.0		ug/L	258971	1	04/12/2018 07:19	NP
Vinyl chloride	BRL	2.0		ug/L	258971	1	04/12/2018 07:19	NP
Surr: 4-Bromofluorobenzene	102	68-127		%REC	258971	1	04/12/2018 07:19	NP
Surr: Dibromofluoromethane	106	84.4-122		%REC	258971	1	04/12/2018 07:19	NP
Surr: Toluene-d8	96.6	80.1-116		%REC	258971	1	04/12/2018 07:19	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-27D
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/2/2018 3:45:00 PM
<b>Lab ID:</b> 1804663-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,1-Dichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,1-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,1-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2-Dibromoethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2-Dichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,2-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,3-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
2,2-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
2-Butanone	BRL	10		ug/L	258971	1	04/12/2018 09:36	NP
2-Chloroethyl vinyl ether	BRL	2.0		ug/L	258971	1	04/12/2018 09:36	NP
2-Chlorotoluene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
2-Hexanone	BRL	5.0		ug/L	258971	1	04/12/2018 09:36	NP
4-Chlorotoluene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
4-Isopropyltoluene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	258971	1	04/12/2018 09:36	NP
Acetone	BRL	10		ug/L	258971	1	04/12/2018 09:36	NP
Acrolein	BRL	5.0		ug/L	258971	1	04/12/2018 09:36	NP
Acrylonitrile	BRL	5.0		ug/L	258971	1	04/12/2018 09:36	NP
Benzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Bromobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Bromochloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Bromodichloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Bromoform	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Bromomethane	BRL	2.0		ug/L	258971	1	04/12/2018 09:36	NP
Carbon disulfide	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Carbon tetrachloride	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Chlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Chloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-27D
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/2/2018 3:45:00 PM
<b>Lab ID:</b> 1804663-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloroform	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Chloromethane	BRL	2.0		ug/L	258971	1	04/12/2018 09:36	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Dibromochloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Dibromomethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	258971	1	04/12/2018 09:36	NP
Ethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Hexachlorobutadiene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Isopropylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
m,p-Xylene	BRL	2.0		ug/L	258971	1	04/12/2018 09:36	NP
Methylene chloride	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
n-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
n-Propylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Naphthalene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
o-Xylene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
sec-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Styrene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
tert-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Tetrachloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Toluene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Trichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Trichlorofluoromethane	BRL	1.0		ug/L	258971	1	04/12/2018 09:36	NP
Vinyl acetate	BRL	5.0		ug/L	258971	1	04/12/2018 09:36	NP
Vinyl chloride	BRL	2.0		ug/L	258971	1	04/12/2018 09:36	NP
Surr: 4-Bromofluorobenzene	103	68-127		%REC	258971	1	04/12/2018 09:36	NP
Surr: Dibromofluoromethane	113	84.4-122		%REC	258971	1	04/12/2018 09:36	NP
Surr: Toluene-d8	101	80.1-116		%REC	258971	1	04/12/2018 09:36	NP
<b>Sulfide by SM4500-S2-F</b>								
Sulfide	BRL	1.00		mg/L	R367408	1	04/09/2018 10:20	AK
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00100		mg/L	258885	1	04/12/2018 02:14	AS
<b>Cyanide SW9014 (SW9010C)</b>								
Cyanide, Total	BRL	0.010		mg/L	259076	1	04/12/2018 14:00	AK
<b>1,4-Dioxane by SIM GC/MS SW8260B-SIM (SW5030B)</b>								

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-27D
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/2/2018 3:45:00 PM
<b>Lab ID:</b> 1804663-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>		<b>(SW5030B)</b>						
1,4-Dioxane	BRL	2.0		ug/L	258984	1	04/10/2018 21:19	NP
Surr: 4-Bromofluorobenzene	100	85.7-115		%REC	258984	1	04/10/2018 21:19	NP
Surr: Dibromofluoromethane	99.8	73.4-129		%REC	258984	1	04/10/2018 21:19	NP
Surr: Toluene-d8	99.8	85-115		%REC	258984	1	04/10/2018 21:19	NP
<b>METALS, TOTAL SW6010D</b>		<b>(SW3010A)</b>						
Arsenic	BRL	0.0100		mg/L	259004	1	04/13/2018 20:39	IO
Barium	0.0259	0.0200		mg/L	259004	1	04/12/2018 12:53	IO
Chromium	BRL	0.0100		mg/L	259004	1	04/12/2018 12:53	IO
Cobalt	BRL	0.0100		mg/L	259004	1	04/12/2018 12:53	IO
Copper	BRL	0.0250		mg/L	259004	1	04/12/2018 12:53	IO
Nickel	BRL	0.0400		mg/L	259004	1	04/12/2018 12:53	IO
Selenium	BRL	0.0100		mg/L	259004	1	04/13/2018 20:39	IO
Silver	BRL	0.0100		mg/L	259004	1	04/12/2018 12:53	IO
Vanadium	BRL	0.0100		mg/L	259004	1	04/12/2018 12:53	IO
Zinc	BRL	0.0200		mg/L	259004	1	04/12/2018 12:53	IO

**Qualifiers:**

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-27S
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/2/2018 5:50:00 PM
<b>Lab ID:</b> 1804663-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
1,1,1,2-Tetrachloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,1,1-Trichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,1,2,2-Tetrachloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,1,2-Trichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,1-Dichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,1-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,1-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2,3-Trichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2,3-Trichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2,4-Trichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2,4-Trimethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2-Dibromo-3-chloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2-Dibromoethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2-Dichloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,2-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,3,5-Trimethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,3-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,3-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
1,4-Dichlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
2,2-Dichloropropane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
2-Butanone	BRL	10		ug/L	258971	1	04/12/2018 10:02	NP
2-Chloroethyl vinyl ether	BRL	2.0		ug/L	258971	1	04/12/2018 10:02	NP
2-Chlorotoluene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
2-Hexanone	BRL	5.0		ug/L	258971	1	04/12/2018 10:02	NP
4-Chlorotoluene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
4-Isopropyltoluene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
4-Methyl-2-pentanone	BRL	5.0		ug/L	258971	1	04/12/2018 10:02	NP
Acetone	BRL	10		ug/L	258971	1	04/12/2018 10:02	NP
Acrolein	BRL	5.0		ug/L	258971	1	04/12/2018 10:02	NP
Acrylonitrile	BRL	5.0		ug/L	258971	1	04/12/2018 10:02	NP
Benzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Bromobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Bromochloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Bromodichloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Bromoform	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Bromomethane	BRL	2.0		ug/L	258971	1	04/12/2018 10:02	NP
Carbon disulfide	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Carbon tetrachloride	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Chlorobenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Chloroethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-27S
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/2/2018 5:50:00 PM
<b>Lab ID:</b> 1804663-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Volatile Organic Compounds by GC/MS SW8260B (SW5030B)</b>								
Chloroform	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Chloromethane	BRL	2.0		ug/L	258971	1	04/12/2018 10:02	NP
cis-1,2-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
cis-1,3-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Dibromochloromethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Dibromomethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Dichlorodifluoromethane	BRL	2.0		ug/L	258971	1	04/12/2018 10:02	NP
Ethylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Hexachlorobutadiene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Isopropylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
m,p-Xylene	BRL	2.0		ug/L	258971	1	04/12/2018 10:02	NP
Methylene chloride	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
n-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
n-Propylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Naphthalene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
o-Xylene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
sec-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Styrene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
tert-Butylbenzene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Tetrachloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Toluene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
trans-1,2-Dichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
trans-1,3-Dichloropropene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Trichloroethene	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Trichlorofluoromethane	BRL	1.0		ug/L	258971	1	04/12/2018 10:02	NP
Vinyl acetate	BRL	5.0		ug/L	258971	1	04/12/2018 10:02	NP
Vinyl chloride	BRL	2.0		ug/L	258971	1	04/12/2018 10:02	NP
Surr: 4-Bromofluorobenzene	100	68-127		%REC	258971	1	04/12/2018 10:02	NP
Surr: Dibromofluoromethane	111	84.4-122		%REC	258971	1	04/12/2018 10:02	NP
Surr: Toluene-d8	101	80.1-116		%REC	258971	1	04/12/2018 10:02	NP
<b>Sulfide by SM4500-S2-F</b>								
Sulfide	BRL	1.00		mg/L	R367408	1	04/09/2018 10:20	AK
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00100		mg/L	258885	1	04/12/2018 02:18	AS
<b>Cyanide SW9014 (SW9010C)</b>								
Cyanide, Total	BRL	0.010		mg/L	259076	1	04/12/2018 14:00	AK
<b>1,4-Dioxane by SIM GC/MS SW8260B-SIM (SW5030B)</b>								

**Qualifiers:**

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- BRL Below reporting limit
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-27S
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/2/2018 5:50:00 PM
<b>Lab ID:</b> 1804663-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>		<b>(SW5030B)</b>						
1,4-Dioxane	BRL	2.0		ug/L	258984	1	04/10/2018 21:46	NP
Surr: 4-Bromofluorobenzene	100	85.7-115		%REC	258984	1	04/10/2018 21:46	NP
Surr: Dibromofluoromethane	99.3	73.4-129		%REC	258984	1	04/10/2018 21:46	NP
Surr: Toluene-d8	99.6	85-115		%REC	258984	1	04/10/2018 21:46	NP
<b>METALS, TOTAL SW6010D</b>		<b>(SW3010A)</b>						
Arsenic	BRL	0.0100		mg/L	259004	1	04/13/2018 20:42	IO
Barium	0.0207	0.0200		mg/L	259004	1	04/12/2018 13:29	IO
Chromium	BRL	0.0100		mg/L	259004	1	04/12/2018 13:29	IO
Cobalt	BRL	0.0100		mg/L	259004	1	04/12/2018 13:29	IO
Copper	BRL	0.0250		mg/L	259004	1	04/12/2018 13:29	IO
Nickel	BRL	0.0400		mg/L	259004	1	04/12/2018 13:29	IO
Selenium	BRL	0.0100		mg/L	259004	1	04/13/2018 20:42	IO
Silver	BRL	0.0100		mg/L	259004	1	04/12/2018 13:29	IO
Vanadium	BRL	0.0100		mg/L	259004	1	04/12/2018 13:29	IO
Zinc	BRL	0.0200		mg/L	259004	1	04/12/2018 13:29	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-5
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 11:15:00 AM
<b>Lab ID:</b> 1804663-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Cyanide SW9014</b>								
					<b>(SW9010C)</b>			
Cyanide, Total	BRL	0.010		mg/L	259076	1	04/12/2018 14:00	AK
<b>METALS, TOTAL SW6010D</b>								
					<b>(SW3010A)</b>			
Copper	BRL	0.0250		mg/L	259004	1	04/12/2018 13:32	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-9
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 4:50:00 PM
<b>Lab ID:</b> 1804663-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Cyanide SW9014</b>								
					<b>(SW9010C)</b>			
Cyanide, Total	BRL	0.010		mg/L	259076	1	04/12/2018 14:00	AK
<b>METALS, TOTAL SW6010D</b>								
					<b>(SW3010A)</b>			
Copper	BRL	0.0250		mg/L	259004	1	04/12/2018 13:42	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> SP-9D
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/5/2018 5:30:00 PM
<b>Lab ID:</b> 1804663-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Sulfide by SM4500-S2-F</b>								
Sulfide	BRL	1.00		mg/L	R367633	1	04/11/2018 09:10	AK
<b>Mercury, Total SW7470A (SW7470A)</b>								
Mercury	BRL	0.00100		mg/L	258885	1	04/12/2018 02:21	AS
<b>Cyanide SW9014 (SW9010C)</b>								
Cyanide, Total	BRL	0.010		mg/L	259076	1	04/12/2018 14:00	AK
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Arsenic	BRL	0.0100		mg/L	259004	1	04/13/2018 20:53	IO
Barium	0.0476	0.0200		mg/L	259004	1	04/12/2018 13:45	IO
Chromium	BRL	0.0100		mg/L	259004	1	04/12/2018 13:45	IO
Cobalt	BRL	0.0100		mg/L	259004	1	04/12/2018 13:45	IO
Copper	BRL	0.0250		mg/L	259004	1	04/12/2018 13:45	IO
Nickel	BRL	0.0400		mg/L	259004	1	04/12/2018 13:45	IO
Selenium	BRL	0.0100		mg/L	259004	1	04/13/2018 20:53	IO
Silver	BRL	0.0100		mg/L	259004	1	04/12/2018 13:45	IO
Vanadium	BRL	0.0100		mg/L	259004	1	04/12/2018 13:45	IO
Zinc	BRL	0.0200		mg/L	259004	1	04/12/2018 13:45	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Apr-18

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> W-5
<b>Project Name:</b> Ingersoll Rand - Sylvania Remediation	<b>Collection Date:</b> 4/4/2018 2:30:00 PM
<b>Lab ID:</b> 1804663-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Cyanide SW9014</b>								
					<b>(SW9010C)</b>			
Cyanide, Total	BRL	0.010		mg/L	259076	1	04/12/2018 14:00	AK
<b>METALS, TOTAL SW6010D</b>								
					<b>(SW3010A)</b>			
Copper	BRL	0.0250		mg/L	259004	1	04/12/2018 13:48	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**SUMMARY OF ANALYTES DETECTED**

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
<b>Client Sample ID:</b> W-27D				<b>Lab ID:</b> 1804663-002			
<b>Collection Date:</b> 4/2/2018 3:45:00 PM				<b>Matrix:</b> Groundwater			
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>			
Barium	0.0259		0.0031	0.0200	mg/L	259004	1
<b>Client Sample ID:</b> W-27S				<b>Lab ID:</b> 1804663-003			
<b>Collection Date:</b> 4/2/2018 5:50:00 PM				<b>Matrix:</b> Groundwater			
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>			
Barium	0.0207		0.0031	0.0200	mg/L	259004	1
<b>Client Sample ID:</b> SP-9D				<b>Lab ID:</b> 1804663-006			
<b>Collection Date:</b> 4/5/2018 5:30:00 PM				<b>Matrix:</b> Groundwater			
<b>METALS, TOTAL SW6010D</b>				<b>(SW3010A)</b>			
Barium	0.0476		0.0031	0.0200	mg/L	259004	1

**Qualifiers:**

* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
BRL Below reporting limit	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	Narr See case narrative
N Analyte not NELAC certified	NC Not confirmed
B Analyte detected in the associated method blank	< Less than Result value
> Greater than Result value	J Estimated value detected below Reporting Limit





**SAMPLE/COOLER RECEIPT CHECKLIST**

1. Client Name: \_\_\_\_\_ AFS Work Order Number: \_\_\_\_\_

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes			No			N/A			Details			Comments
3. Shipping container/cooler received in good condition?												damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?													
5. Custody seals intact on shipping container?													
6. Temperature blanks present?													
7. Cooler temperature(s) within limits of 0-8°C? [See item 13 and 14 for temperature recordings.]												Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?													
9. Chain of Custody signed, dated, and timed when relinquished and received?													
10. Sampler name and/or signature on COC?													
11. Were all samples received within holding time?													
12. TAT marked on the COC?												If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature \_\_\_\_\_ °C Cooler 2 Temperature \_\_\_\_\_ °C Cooler 3 Temperature \_\_\_\_\_ °C Cooler 4 Temperature \_\_\_\_\_ °C  
 Cooler 5 Temperature \_\_\_\_\_ °C Cooler 6 Temperature \_\_\_\_\_ °C Cooler 7 Temperature \_\_\_\_\_ °C Cooler 8 Temperature \_\_\_\_\_ °C

15. Comments: \_\_\_\_\_  
 I certify that I have completed sections 1-15 (dated initials). \_\_\_\_\_

	Yes			No			N/A			Details			Comments
16. Were sample containers intact upon receipt?													
17. Custody seals present on sample containers?													
18. Custody seals intact on sample containers?													
19. Do sample container labels match the COC?												incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?													
21. Were all of the samples listed on the COC received?												samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?													
23. Did we receive sufficient sample volume for indicated analyses?													
24. Were samples received in appropriate containers?													
25. Were VOA samples received without headspace (< 1/4" bubble)?													
26. Were trip blanks submitted?												listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_  
 I certify that I have completed sections 16-27 (dated initials). \_\_\_\_\_

	Yes			No			N/A			Details			Comments
28. Have containers needing chemical preservation been checked? *													
29. Containers meet preservation guidelines?													
30. Was pH adjusted at Sample Receipt?													

I certify that I have completed sections 28-30 (dated initials). \_\_\_\_\_ Page 16 of 30

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Lab Order: 1804663

**Dates Report**

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1804663-001A	TRIP BLANK	4/5/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		4/11/2018 9:19:00AM	04/12/2018
1804663-002A	W-27D	4/2/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		4/11/2018 9:19:00AM	04/12/2018
1804663-002A	W-27D	4/2/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		4/10/2018 6:07:00PM	04/10/2018
1804663-002B	W-27D	4/2/2018 3:45:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/12/2018
1804663-002B	W-27D	4/2/2018 3:45:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/13/2018
1804663-002B	W-27D	4/2/2018 3:45:00PM	Groundwater	TOTAL MERCURY		4/11/2018 8:20:00PM	04/12/2018
1804663-002C	W-27D	4/2/2018 3:45:00PM	Groundwater	Cyanide		4/12/2018 11:20:00AM	04/12/2018
1804663-002D	W-27D	4/2/2018 3:45:00PM	Groundwater	Sulfide by SM4500-S2-F			04/09/2018
1804663-003A	W-27S	4/2/2018 5:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		4/11/2018 9:19:00AM	04/12/2018
1804663-003A	W-27S	4/2/2018 5:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		4/10/2018 6:07:00PM	04/10/2018
1804663-003B	W-27S	4/2/2018 5:50:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/12/2018
1804663-003B	W-27S	4/2/2018 5:50:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/13/2018
1804663-003B	W-27S	4/2/2018 5:50:00PM	Groundwater	TOTAL MERCURY		4/11/2018 8:20:00PM	04/12/2018
1804663-003C	W-27S	4/2/2018 5:50:00PM	Groundwater	Cyanide		4/12/2018 11:20:00AM	04/12/2018
1804663-003D	W-27S	4/2/2018 5:50:00PM	Groundwater	Sulfide by SM4500-S2-F			04/09/2018
1804663-004A	SP-5	4/4/2018 11:15:00AM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/12/2018
1804663-004B	SP-5	4/4/2018 11:15:00AM	Groundwater	Cyanide		4/12/2018 11:20:00AM	04/12/2018
1804663-005A	SP-9	4/4/2018 4:50:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/12/2018
1804663-005B	SP-9	4/4/2018 4:50:00PM	Groundwater	Cyanide		4/12/2018 11:20:00AM	04/12/2018
1804663-006A	SP-9D	4/5/2018 5:30:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/12/2018
1804663-006A	SP-9D	4/5/2018 5:30:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/13/2018
1804663-006A	SP-9D	4/5/2018 5:30:00PM	Groundwater	TOTAL MERCURY		4/11/2018 8:20:00PM	04/12/2018
1804663-006B	SP-9D	4/5/2018 5:30:00PM	Groundwater	Cyanide		4/12/2018 11:20:00AM	04/12/2018
1804663-006C	SP-9D	4/5/2018 5:30:00PM	Groundwater	Sulfide by SM4500-S2-F			04/11/2018
1804663-007A	W-5	4/4/2018 2:30:00PM	Groundwater	TOTAL METALS BY ICP		4/11/2018 5:15:00PM	04/12/2018
1804663-007B	W-5	4/4/2018 2:30:00PM	Groundwater	Cyanide		4/12/2018 11:20:00AM	04/12/2018

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258885

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804663

Sample ID: MB-258885	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: MBLK	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139494				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020						

Sample ID: LCS-258885	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: LCS	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139495				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003944	98.6	80	120				

Sample ID: 1804545-005AMS	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: MS	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139497				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003943	98.6	70	130				

Sample ID: 1804545-005AMSD	Client ID:	Units: mg/L	Prep Date: 04/11/2018	Run No: 367731				
Sample Type: MSD	TestCode: Mercury, Total	BatchID: 258885	Analysis Date: 04/12/2018	Seq No: 8139498				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003940	98.5	70	130	0.003943	0.074	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804663

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258971

Sample ID: MB-258971	Client ID:	Units: ug/L	Prep Date: 04/11/2018	Run No: 367685
Sample Type: MBLK	TestCode: Volatile Organic Compounds by GC/MS	BatchID: 258971	Analysis Date: 04/11/2018	Seq No: 8137716
			SW8260B	

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	1.0									
1,1,1,1-Trichloroethane	BRL	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,1-Dichloropropene	BRL	1.0									
1,2,3-Trichlorobenzene	BRL	1.0									
1,2,3-Trichloropropane	BRL	1.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2,4-Trimethylbenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3,5-Trimethylbenzene	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,3-Dichloropropane	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2,2-Dichloropropane	BRL	2.0									
2-Butanone	BRL	10									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	1.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	1.0									
4-Isopropyltoluene	BRL	2.0									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258971**

Sample ID: <b>MB-258971</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367685</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>SW8260B</b>	BatchID: <b>258971</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8137716</b>							
<b>Volatile Organic Compounds by GC/MS</b>											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	1.0									
Bromobenzene	BRL	1.0									
Bromochloromethane	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									
cis-1,2-Dichloroethene	BRL	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Dibromochloromethane	BRL	1.0									
Dibromomethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Hexachlorobutadiene	BRL	1.0									
Isopropylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methylene chloride	BRL	5.0									
n-Butylbenzene	BRL	1.0									

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 258971**

Sample ID: <b>MB-258971</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367685</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>SW8260B</b>	BatchID: <b>258971</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8137716</b>							
<p>Volatile Organic Compounds by GC/MS</p>											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

n-Propylbenzene	BRL	1.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	1.0									
sec-Butylbenzene	BRL	2.0									
Styrene	BRL	1.0									
tert-Butylbenzene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	1.0									
Surr: 4-Bromofluorobenzene	50.27	0	50.00		101	68		127			
Surr: Dibromofluoromethane	52.92	0	50.00		106	84.4		122			
Surr: Toluene-d8	48.62	0	50.00		97.2	80.1		116			

Sample ID: <b>LCS-258971</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367685</b>							
Sample Type: <b>LCS</b>	TestCode: <b>SW8260B</b>	BatchID: <b>258971</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8137715</b>							
<p>Volatile Organic Compounds by GC/MS</p>											
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	20.99	2.0	20.00		105	69		136			
Benzene	19.77	1.0	20.00		98.8	73.7		126			
Chlorobenzene	22.98	1.0	20.00		115	73.5		124			
Toluene	21.89	1.0	20.00		109	76.8		125			
Trichloroethene	22.88	1.0	20.00		114	70.9		124			
Surr: 4-Bromofluorobenzene	51.00	0	50.00		102	68		127			

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

Client: Atlanta Environmental Mgmt  
 Project Name: Ingersoll Rand - Sylvania Remediation  
 Workorder: 1804663

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 258971

Sample ID: LCS-258971	Client ID:	Units: ug/L	Prep Date: 04/11/2018	Run No: 367685							
Sample Type: LCS	TestCode: Volatile Organic Compounds by GC/MS	BatchID: 258971	Analysis Date: 04/11/2018	Seq No: 8137715							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Dibromofluoromethane	52.31	0	50.00		105	84.4	122				
Surr: Toluene-d8	47.79	0	50.00		95.6	80.1	116				

Sample ID: 1804660-033AMS	Client ID:	Units: ug/L	Prep Date: 04/11/2018	Run No: 367685							
Sample Type: MS	TestCode: Volatile Organic Compounds by GC/MS	BatchID: 258971	Analysis Date: 04/11/2018	Seq No: 8137722							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1310	20	200.0	1066	122	65.7	143				
Benzene	194.9	10	200.0		97.4	66.1	137				
Chlorobenzene	222.5	10	200.0		111	70.9	132				
Toluene	209.5	10	200.0		105	63.8	141				
Trichloroethene	235.8	10	200.0		118	70.6	128				
Surr: 4-Bromofluorobenzene	503.6	0	500.0		101	68	127				
Surr: Dibromofluoromethane	545.4	0	500.0		109	84.4	122				
Surr: Toluene-d8	490.0	0	500.0		98.0	80.1	116				

Sample ID: 1804660-033AMSD	Client ID:	Units: ug/L	Prep Date: 04/11/2018	Run No: 367685							
Sample Type: MSD	TestCode: Volatile Organic Compounds by GC/MS	BatchID: 258971	Analysis Date: 04/11/2018	Seq No: 8137723							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1170	20	200.0	1066	52.2	65.7	143	1310	11.2	17.7	S
Benzene	181.9	10	200.0		91.0	66.1	137	194.9	6.90	20	
Chlorobenzene	211.7	10	200.0		106	70.9	132	222.5	4.97	20	
Toluene	204.6	10	200.0		102	63.8	141	209.5	2.37	20	
Trichloroethene	213.4	10	200.0		107	70.6	128	235.8	9.97	20	
Surr: 4-Bromofluorobenzene	500.8	0	500.0		100	68	127	503.6	0	0	
Surr: Dibromofluoromethane	544.2	0	500.0		109	84.4	122	545.4	0	0	
Surr: Toluene-d8	499.8	0	500.0		100.0	80.1	116	490.0	0	0	

**Qualifiers:** > Greater than Result value  
 < Less than Result value  
 BR L Below reporting limit  
 E Estimated (value above quantitation range)  
 J Estimated value detected below Reporting Limit  
 N Analyte not NELAC certified  
 R RPD outside limits due to matrix  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**BatchID: 258984**

Sample ID: <b>MB-258984</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367657</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8136836</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	BRL	5.0									
Surr: 4-Bromofluorobenzene	50.06	0	50.00		100	85.7	115				
Surr: Dibromofluoromethane	50.14	0	50.00		100	73.4	129				
Surr: Toluene-d8	50.45	0	50.00		101	85	115				

Sample ID: <b>LCS-258984</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367657</b>							
Sample Type: <b>LCS</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/10/2018</b>	Seq No: <b>8136835</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	7.120	5.0	10.00		71.2	69.1	131				
Surr: 4-Bromofluorobenzene	49.94	0	50.00		99.9	85.7	115				
Surr: Dibromofluoromethane	50.12	0	50.00		100	73.4	129				
Surr: Toluene-d8	49.79	0	50.00		99.6	85	115				

Sample ID: <b>1804663-002AMS</b>	Client ID: <b>W-27D</b>	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367720</b>							
Sample Type: <b>MS</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8138747</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	11.14	5.0	10.00		111	60	141				
Surr: 4-Bromofluorobenzene	51.35	0	50.00		103	85.7	115				
Surr: Dibromofluoromethane	49.89	0	50.00		99.8	73.4	129				
Surr: Toluene-d8	50.60	0	50.00		101	85	115				

Sample ID: <b>1804663-002AMSD</b>	Client ID: <b>W-27D</b>	Units: <b>ug/L</b>	Prep Date: <b>04/10/2018</b>	Run No: <b>367720</b>							
Sample Type: <b>MSD</b>	TestCode: <b>1,4-Dioxane by SIM GC/MS SW8260B-SIM</b>	BatchID: <b>258984</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8138748</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,4-Dioxane	10.34	5.0	10.00		103	60	141	11.14	7.45	20	
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**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix





**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**BatchID: 259004**

Sample ID: <b>MB-259004</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>				
Sample Type: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143239</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Barium	BRL		0.0200					
Chromium	BRL		0.0100					
Cobalt	BRL		0.0200					
Copper	BRL		0.0100					
Nickel	BRL		0.0200					
Silver	BRL		0.0100					
Vanadium	BRL		0.0100					
Zinc	BRL		0.0200					

Sample ID: <b>MB-259004</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367922</b>				
Sample Type: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>259004</b>	Analysis Date: <b>04/13/2018</b>	Seq No: <b>8144578</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL		0.0100					
Selenium	BRL		0.0100					

Sample ID: <b>LCS-259004</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>				
Sample Type: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143240</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.142		1.000	114	80	120		
Barium	1.083		1.000	108	80	120		
Chromium	1.076		1.000	108	80	120		
Cobalt	1.031		1.000	103	80	120		
Copper	1.045		1.000	105	80	120		
Nickel	1.080		1.000	108	80	120		
Selenium	1.102		1.000	110	80	120		
Silver	0.1006		0.1000	101	80	120		

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 259004**

Sample ID: <b>LCS-259004</b>	Client ID:	METALS, TOTAL	SW6010D	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>					
Sample Type: <b>LCS</b>	Test Code:			BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143240</b>					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vanadium	1.020	0.0100	1.000		102	80	120				
Zinc	1.163	0.0200	1.000		116	80	120				

Sample ID: <b>1804663-002BMS</b>	Client ID: <b>W-27D</b>	METALS, TOTAL	SW6010D	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>					
Sample Type: <b>MS</b>	Test Code:			BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143244</b>					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.135	0.0500	1.000		114	75	125				
Barium	1.120	0.0200	1.000	0.02593	109	75	125				
Chromium	1.077	0.0100	1.000	0.003360	107	75	125				
Cobalt	1.047	0.0200	1.000		105	75	125				
Copper	1.081	0.0100	1.000		108	75	125				
Nickel	1.076	0.0200	1.000	0.01239	106	75	125				
Selenium	1.124	0.0200	1.000		112	75	125				
Silver	0.1026	0.0100	0.1000		103	75	125				
Vanadium	1.040	0.0100	1.000		104	75	125				
Zinc	1.150	0.0200	1.000	0.01539	113	75	125				

Sample ID: <b>1804663-002BMSD</b>	Client ID: <b>W-27D</b>	METALS, TOTAL	SW6010D	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>					
Sample Type: <b>MSD</b>	Test Code:			BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143245</b>					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.116	0.0500	1.000		112	75	125	1.135	1.68	20	
Barium	1.101	0.0200	1.000	0.02593	107	75	125	1.120	1.73	20	
Chromium	1.060	0.0100	1.000	0.003360	106	75	125	1.077	1.58	20	
Cobalt	1.029	0.0200	1.000		103	75	125	1.047	1.75	20	
Copper	1.063	0.0100	1.000		106	75	125	1.081	1.65	20	
Nickel	1.059	0.0200	1.000	0.01239	105	75	125	1.076	1.64	20	

**Qualifiers:** > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit  
 < Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix  
 B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 259004**

Sample ID: <b>1804663-002BMSD</b>	Client ID: <b>W-27D</b>	Units: <b>mg/L</b>	Prep Date: <b>04/11/2018</b>	Run No: <b>367873</b>
Sample Type: <b>MSD</b>	Test Code: <b>METALS, TOTAL</b>	BatchID: <b>259004</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8143245</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	1.104	0.0200	1.000		110	75	125	1.124	1.76	20	
Silver	0.1013	0.0100	0.1000		101	75	125	0.1026	1.33	20	
Vanadium	1.024	0.0100	1.000		102	75	125	1.040	1.54	20	
Zinc	1.129	0.0200	1.000	0.01539	111	75	125	1.150	1.82	20	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL		Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**BatchID: 259076**

Sample ID: <b>MB-259076</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/12/2018</b>	Run No: <b>367799</b>				
Sample Type: <b>MBLK</b>	TestCode: <b>Cyanide SW9014</b>	BatchID: <b>259076</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8141028</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL		0.010					

Sample ID: <b>LCS-259076</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>04/12/2018</b>	Run No: <b>367799</b>				
Sample Type: <b>LCS</b>	TestCode: <b>Cyanide SW9014</b>	BatchID: <b>259076</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8141029</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2340	93.6	85	115				

Sample ID: <b>1804663-002CMS</b>	Client ID: <b>W-27D</b>	Units: <b>mg/L</b>	Prep Date: <b>04/12/2018</b>	Run No: <b>367799</b>				
Sample Type: <b>MS</b>	TestCode: <b>Cyanide SW9014</b>	BatchID: <b>259076</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8141040</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2600	104	70	130				

Sample ID: <b>1804663-002CMSD</b>	Client ID: <b>W-27D</b>	Units: <b>mg/L</b>	Prep Date: <b>04/12/2018</b>	Run No: <b>367799</b>				
Sample Type: <b>MSD</b>	TestCode: <b>Cyanide SW9014</b>	BatchID: <b>259076</b>	Analysis Date: <b>04/12/2018</b>	Seq No: <b>8141041</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2460	98.4	70	130	0.2600	5.53	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**BatchID: R367408**

Sample ID: <b>MB-R367408</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367408</b>				
Sample Type: <b>MBLK</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367408</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8130640</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL		1.00					

Sample ID: <b>LCS-R367408</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367408</b>				
Sample Type: <b>LCS</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367408</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8130641</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	240.0	100	90	110				

Sample ID: <b>1804663-002DMS</b>	Client ID: <b>W-27D</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367408</b>				
Sample Type: <b>MS</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367408</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8130654</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	12.00	100	80	120				

Sample ID: <b>1804663-002DMSD</b>	Client ID: <b>W-27D</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367408</b>				
Sample Type: <b>MSD</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367408</b>	Analysis Date: <b>04/09/2018</b>	Seq No: <b>8130656</b>				
Analyte	Result	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	13.00	108	80	120	12.00	8.00	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Analytical Environmental Services, Inc**

Date: 17-Apr-18

**ANALYTICAL QC SUMMARY REPORT**

**Client:** Atlanta Environmental Mgmt  
**Project Name:** Ingersoll Rand - Sylvania Remediation  
**Workorder:** 1804663

**BatchID: R367633**

Sample ID: <b>MB-R367633</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367633</b>
Sample Type: <b>MBLK</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367633</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8136191</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val
		%REC	Low Limit	High Limit
		%RPD	RPD Ref Val	%RPD
			RPD Limit	RPD Limit
			Qual	Qual

Sulfide BRL 1.00

Sample ID: <b>LCS-R367633</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367633</b>
Sample Type: <b>LCS</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367633</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8136192</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val
		%REC	Low Limit	High Limit
		%RPD	RPD Ref Val	%RPD
			RPD Limit	RPD Limit
			Qual	Qual

Sulfide 272.0 1.00 272.0 100 90 110

Sample ID: <b>1804660-009BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367633</b>
Sample Type: <b>MS</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367633</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8136201</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val
		%REC	Low Limit	High Limit
		%RPD	RPD Ref Val	%RPD
			RPD Limit	RPD Limit
			Qual	Qual

Sulfide 14.00 1.00 13.60 103 80 120

Sample ID: <b>1804660-009BMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>367633</b>
Sample Type: <b>MSD</b>	TestCode: <b>Sulfide by SM4500-S2-F</b>	BatchID: <b>R367633</b>	Analysis Date: <b>04/11/2018</b>	Seq No: <b>8136204</b>
Analyte	Result	RPT Limit	SPK value	SPK Ref Val
		%REC	Low Limit	High Limit
		%RPD	RPD Ref Val	%RPD
			RPD Limit	RPD Limit
			Qual	Qual

Sulfide 14.40 1.00 13.60 106 80 120 14.00 2.82 20

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		