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## ANALYTICAL REPORT

Job Number: 680-58954-1

SDG Number: KSX026

Job Description: WGK SVE Del. Soil & GW/Waste June 2010

For:

Solutia Inc.

575 Maryville Centre Dr.

Saint Louis, MO 63141

Attention: Mr. William G Johnson



Approved for release.  
Lidya Gulizia  
Project Manager I  
7/15/2010 5:40 PM

Lidya Gulizia

Project Manager I

lidya.gulizia@testamericainc.com

07/15/2010

cc: Mr. Scott Crawford  
Erin Stanisewski

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**Job Narrative**  
**680-58954-1 / SDG KSX026 Final Report**

**Receipt**

Method(s) 8260B: The following sample(s) was received with two of the three submitted vials broken for volatiles analysis: : WGK-GWC-GWC-7-12-W(680-58954-4). The remaining vial contained headspace in the sample vial and results may be biased low.

All other samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: WGK-BIGMO-ISA-03S-7.5-8.5 (680-58954-7), WGK-BIGMO-ISA-08S-7.5-8.5 (680-58954-8), WGK-BIGMO-ISA-101S-7.5-8.5 (680-58954-11).

Method(s) 8260B: Due to the high concentration of benzene, the matrix spike / matrix spike duplicate (MS/MSD) for batch 173277 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for four analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 173601 had two analytes outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8260B: The method blank for batch 173362 contained iodomethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 173165 exceeded control criteria for iodomethane and pentachloroethane. The data have been qualified and reported.

Method(s) 8260B: The continuing calibration verification (CCV) for analytical batch 173277 exceeded control criteria for iodomethane. The data have been qualified and reported.

Method(s) 8260B: The continuing calibration verification (CCV) for pentachloroethane recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8260B: Manual integration was performed on the following sample(s): LCSD 680-173764/5 and CCVIS 680-173362/18.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: WGK-GWB-GWB-7-12-W (680-58954-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) contained one acid and/or one base surrogate outside acceptance limits: WGK-GWB-GWB-7-12-W (680-58954-3). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: Sample WGK-GWB-GWB-7-12-W (680-58954-3) was diluted due to the abundance of target analytes. As such, surrogate recoveries are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270C: The grand mean exception, as outlined in EPA Method 8000B, was applied to the initial calibration (ICAL). This rule states that when one or more compounds in the ICAL fail to meet acceptance criteria, the initial calibration (ICAL) may be used for quantitation if the average %RSD (the grand mean) of all the compounds in the ICAL is less than or equal to 15 %RSD.

No other analytical or quality issues were noted.

**General Chemistry**

No analytical or quality issues were noted.

**Comments**

No additional comments.

No analytical or quality issues were noted.

## METHOD SUMMARY

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Description	Lab Location	Method	Preparation Method
<b>Matrix Solid</b>			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Closed System Purge and Trap	TAL SAV		SW846 5035
<b>Matrix Waste</b>			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
<b>Matrix Water</b>			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL SAV	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL SAV		SW846 3520C

### Lab References:

TAL SAV = TestAmerica Savannah

### Method References:

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

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**METHOD / ANALYST SUMMARY**

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B	Bearden, Robert	RB
SW846 8260B	Sokolin, Eleina	ES
SW846 8270C	Chamberlain, Kim	KAC

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## SAMPLE SUMMARY

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-58954-1	WGK-GWA-GWA-7-12-W	Waste	06/28/2010 1455	06/29/2010 1126
680-58954-2	WGK-GWA-GWB-7-12-W	Water	06/28/2010 1510	06/29/2010 1126
680-58954-3	WGK-GWB-GWB-7-12-W	Water	06/28/2010 1535	06/29/2010 1126
680-58954-3MS	WGK-GWB-GWB-7-12-W	Water	06/28/2010 1535	06/29/2010 1126
680-58954-3MSD	WGK-GWB-GWB-7-12-W	Water	06/28/2010 1535	06/29/2010 1126
680-58954-4	WGK-GWC-GWC-7-12-W	Waste	06/28/2010 1610	06/29/2010 1126
680-58954-5	WGK-GWD-GWD-7-12-W	Waste	06/28/2010 1650	06/29/2010 1126
680-58954-6TB	Trip Blank	Water	06/28/2010 0000	06/29/2010 1126
680-58954-7	WGK-BIGMO-ISA-03S-7.5 -8.5	Solid	06/28/2010 1010	06/29/2010 1126
680-58954-8	WGK-BIGMO-ISA-08S-7.5 -8.5	Solid	06/28/2010 1040	06/29/2010 1126
680-58954-9	WGK-BIGMO-ISA-102S-7. 5-8.5	Solid	06/28/2010 1025	06/29/2010 1126
680-58954-10	WGK-BIGMO-ISA-118S-7. 5-8.5	Solid	06/28/2010 1035	06/29/2010 1126
680-58954-11	WGK-BIGMO-ISA-101S-7. 5-8.5	Solid	06/28/2010 1055	06/29/2010 1126
680-58954-12TB	Trip Blank	Water	06/28/2010 0000	06/29/2010 1126
680-58954-14	WGK-GWA-GWA-7-12-W	Water	06/28/2010 1455	06/29/2010 1126
680-58954-15	WGK-GWC-GWC-7-12-W	Water	06/28/2010 1610	06/29/2010 1126
680-58954-16	WGK-GWD-GWD-7-12-W	Water	06/28/2010 1650	06/29/2010 1126

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## **SAMPLE RESULTS**

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: WGK-GWA-GWA-7-12-W

Lab Sample ID: 680-58954-1

Date Sampled: 06/28/2010 1455

Client Matrix: Waste

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B	Prep Batch: 680-173283	Lab File ID:	o0542.d
Dilution:	1000		Initial Weight/Volume:	1 g
Date Analyzed:	07/02/2010 1359		Final Weight/Volume:	10 mL
Date Prepared:	07/02/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		500000	U	500000	500000
Acetonitrile		2000000	U	2000000	2000000
Acrolein		1000000	U	1000000	1000000
Acrylonitrile		1000000	U	1000000	1000000
Benzene		1400000		50000	50000
Dichlorobromomethane		50000	U	50000	50000
Bromoform		50000	U	50000	50000
Bromomethane		50000	U	50000	50000
2-Butanone (MEK)		250000	U	250000	250000
Carbon disulfide		50000	U	50000	50000
Carbon tetrachloride		50000	U	50000	50000
Chlorobenzene		50000	U	50000	50000
2-Chloro-1,3-butadiene		50000	U	50000	50000
Chloroethane		50000	U	50000	50000
Chloroform		50000	U	50000	50000
Chloromethane		50000	U	50000	50000
3-Chloro-1-propene		50000	U	50000	50000
Chlorodibromomethane		50000	U	50000	50000
1,2-Dibromo-3-Chloropropane		100000	U	100000	100000
Ethylene Dibromide		50000	U	50000	50000
Dibromomethane		50000	U	50000	50000
1,2-Dichlorobenzene		50000	U	50000	50000
1,3-Dichlorobenzene		50000	U	50000	50000
1,4-Dichlorobenzene		50000	U	50000	50000
trans-1,4-Dichloro-2-butene		100000	U	100000	100000
Dichlorodifluoromethane		50000	U	50000	50000
1,1-Dichloroethane		50000	U	50000	50000
1,2-Dichloroethane		50000	U	50000	50000
trans-1,2-Dichloroethene		50000	U	50000	50000
1,1-Dichloroethene		50000	U	50000	50000
1,2-Dichloropropane		50000	U	50000	50000
cis-1,3-Dichloropropene		50000	U	50000	50000
trans-1,3-Dichloropropene		50000	U	50000	50000
Ethylbenzene		50000	U	50000	50000
Ethyl methacrylate		50000	U	50000	50000
2-Hexanone		250000	U	250000	250000
Iodomethane		50000	U	50000	50000
Isobutyl alcohol		2000000	U	2000000	2000000
Methacrylonitrile		1000000	U	1000000	1000000
Methylene Chloride		50000	U	50000	50000
Methyl methacrylate		100000	U	100000	100000
4-Methyl-2-pentanone (MIBK)		250000	U	250000	250000
Pentachloroethane		250000	U	250000	250000
Propionitrile		1000000	U	1000000	1000000
Styrene		50000	U	50000	50000
1,1,1,2-Tetrachloroethane		50000	U	50000	50000

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**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWA-GWA-7-12-W**

Lab Sample ID: 680-58954-1  
Client Matrix: Waste

Date Sampled: 06/28/2010 1455  
Date Received: 06/29/2010 1126

**8260B Volatile Organic Compounds (GC/MS)**

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B	Prep Batch: 680-173283	Lab File ID:	o0542.d
Dilution:	1000		Initial Weight/Volume:	1 g
Date Analyzed:	07/02/2010 1359		Final Weight/Volume:	10 mL
Date Prepared:	07/02/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane		50000	U	50000	50000
Tetrachloroethene		50000	U	50000	50000
Toluene		50000	U	50000	50000
1,1,1-Trichloroethane		50000	U	50000	50000
1,1,2-Trichloroethane		50000	U	50000	50000
Trichloroethene		50000	U	50000	50000
Trichlorofluoromethane		50000	U	50000	50000
1,2,3-Trichloropropane		50000	U	50000	50000
Vinyl acetate		100000	U	100000	100000
Vinyl chloride		50000	U	50000	50000
Xylenes, Total		100000	U	100000	100000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		50 - 150
Dibromofluoromethane	106		50 - 150
Toluene-d8 (Surr)	102		50 - 150

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Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: WGK-GWA-GWB-7-12-W

Lab Sample ID: 680-58954-2

Date Sampled: 06/28/2010 1510

Client Matrix: Water

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0543.d
Dilution:	10000		Initial Weight/Volume:	5 mL
Date Analyzed:	07/02/2010 1420		Final Weight/Volume:	5 mL
Date Prepared:	07/02/2010 1420			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	250000	U	50000	250000
Acetonitrile	400000	U	100000	400000
Acrolein	200000	U	74000	200000
Acrylonitrile	200000	U	72000	200000
Benzene	1400000		2500	10000
Bromoform	10000	U	5000	10000
Bromomethane	10000	U	8000	10000
2-Butanone (MEK)	100000	U	10000	100000
Carbon disulfide	20000	U	6000	20000
Carbon tetrachloride	10000	U	5000	10000
Chlorobenzene	6300	J	2500	10000
2-Chloro-1,3-butadiene	10000	U	3000	10000
Chlorodibromomethane	10000	U	1000	10000
Chloroethane	10000	U	10000	10000
Chloroform	10000	U	1400	10000
Chloromethane	10000	U	3300	10000
3-Chloro-1-propene	10000	U	2000	10000
cis-1,3-Dichloropropene	10000	U	1100	10000
1,2-Dibromo-3-Chloropropane	10000	U	4400	10000
Dibromomethane	10000	U	2000	10000
1,2-Dichlorobenzene	10000	U	2100	10000
1,3-Dichlorobenzene	10000	U	2500	10000
1,4-Dichlorobenzene	10000	U	2800	10000
Dichlorobromomethane	10000	U	2500	10000
Dichlorodifluoromethane	10000	U	2500	10000
1,1-Dichloroethane	10000	U	2500	10000
1,2-Dichloroethane	10000	U	1000	10000
1,1-Dichloroethene	10000	U	1100	10000
1,2-Dichloropropane	10000	U	1300	10000
Ethylbenzene	10000	U	1100	10000
Ethylene Dibromide	10000	U	2500	10000
Ethyl methacrylate	10000	U	2500	10000
2-Hexanone	100000	U	10000	100000
Iodomethane	50000	U	10000	50000
Isobutyl alcohol	400000	U	110000	400000
Methacrylonitrile	200000	U	33000	200000
Methylene Chloride	50000	U	10000	50000
Methyl methacrylate	10000	U	4800	10000
4-Methyl-2-pentanone (MIBK)	100000	U	10000	100000
Pentachloroethane	50000	U	12000	50000
Propionitrile	200000	U	46000	200000
Styrene	10000	U	1100	10000
1,1,1,2-Tetrachloroethane	10000	U	3300	10000
1,1,1,2,2-Tetrachloroethane	10000	U	1800	10000
Tetrachloroethene	10000	U	1500	10000
Toluene	10000	U	3300	10000

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**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWA-GWB-7-12-W**

Lab Sample ID: 680-58954-2  
Client Matrix: Water

Date Sampled: 06/28/2010 1510  
Date Received: 06/29/2010 1126

**8260B Volatile Organic Compounds (GC/MS)**

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0543.d
Dilution:	10000		Initial Weight/Volume:	5 mL
Date Analyzed:	07/02/2010 1420		Final Weight/Volume:	5 mL
Date Prepared:	07/02/2010 1420			

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene	20000	U	5000	20000
trans-1,2-Dichloroethene	10000	U	2000	10000
trans-1,3-Dichloropropene	10000	U	2100	10000
1,1,1-Trichloroethane	10000	U	5000	10000
1,1,2-Trichloroethane	10000	U	1300	10000
Trichloroethene	10000	U	1300	10000
Trichlorofluoromethane	10000	U	2500	10000
1,2,3-Trichloropropane	10000	U	4100	10000
Vinyl acetate	20000	U	2800	20000
Vinyl chloride	10000	U	1800	10000
Xylenes, Total	20000	U	2000	20000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	109		75 - 121
Toluene-d8 (Surr)	101		75 - 120

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Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: WGK-GWB-GWB-7-12-W

Lab Sample ID: 680-58954-3  
Client Matrix: Water

Date Sampled: 06/28/2010 1535  
Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-173277 Instrument ID: MSO  
Preparation: 5030B Lab File ID: o0539.d  
Dilution: 5000 Initial Weight/Volume: 5 mL  
Date Analyzed: 07/02/2010 1257 Final Weight/Volume: 5 mL  
Date Prepared: 07/02/2010 1257

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	120000	U	25000	120000
Acetonitrile	200000	U	50000	200000
Acrolein	100000	U	37000	100000
Acrylonitrile	100000	U	36000	100000
Benzene	920000		1200	5000
Bromoform	5000	U	2500	5000
Bromomethane	5000	U	4000	5000
2-Butanone (MEK)	50000	U	5000	50000
Carbon disulfide	10000	U	3000	10000
Carbon tetrachloride	5000	U	2500	5000
Chlorobenzene	140000		1200	5000
2-Chloro-1,3-butadiene	5000	U	1500	5000
Chlorodibromomethane	5000	U	500	5000
Chloroethane	5000	U	5000	5000
Chloroform	5000	U	700	5000
Chloromethane	5000	U	1600	5000
3-Chloro-1-propene	5000	U	1000	5000
cis-1,3-Dichloropropene	5000	U	550	5000
1,2-Dibromo-3-Chloropropane	5000	U	2200	5000
Dibromomethane	5000	U	1000	5000
1,2-Dichlorobenzene	5000	U	1000	5000
1,3-Dichlorobenzene	5000	U	1200	5000
1,4-Dichlorobenzene	5000	U	1400	5000
Dichlorobromomethane	5000	U	1200	5000
Dichlorodifluoromethane	5000	U	1200	5000
1,1-Dichloroethane	5000	U	1200	5000
1,2-Dichloroethane	5000	U	500	5000
1,1-Dichloroethene	5000	U	550	5000
1,2-Dichloropropane	5000	U	650	5000
Ethylbenzene	5000	U	550	5000
Ethylene Dibromide	5000	U	1200	5000
Ethyl methacrylate	5000	U	1200	5000
2-Hexanone	50000	U	5000	50000
Iodomethane	25000	U	5000	25000
Isobutyl alcohol	200000	U	55000	200000
Methacrylonitrile	100000	U	16000	100000
Methylene Chloride	25000	U	5000	25000
Methyl methacrylate	5000	U	2400	5000
4-Methyl-2-pentanone (MIBK)	50000	U	5000	50000
Pentachloroethane	25000	U	6000	25000
Propionitrile	100000	U	23000	100000
Styrene	5000	U	550	5000
1,1,1,2-Tetrachloroethane	5000	U	1600	5000
1,1,2,2-Tetrachloroethane	5000	U	900	5000
Tetrachloroethene	5000	U	750	5000
Toluene	5000	U	1600	5000

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Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: WGK-GWB-GWB-7-12-W

Lab Sample ID: 680-58954-3  
Client Matrix: Water

Date Sampled: 06/28/2010 1535  
Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0539.d
Dilution:	5000		Initial Weight/Volume:	5 mL
Date Analyzed:	07/02/2010 1257		Final Weight/Volume:	5 mL
Date Prepared:	07/02/2010 1257			

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene	10000	U	2500	10000
trans-1,2-Dichloroethene	5000	U	1000	5000
trans-1,3-Dichloropropene	5000	U	1000	5000
1,1,1-Trichloroethane	5000	U	2500	5000
1,1,2-Trichloroethane	5000	U	650	5000
Trichloroethene	5000	U	650	5000
Trichlorofluoromethane	5000	U	1200	5000
1,2,3-Trichloropropane	5000	U	2000	5000
Vinyl acetate	10000	U	1400	10000
Vinyl chloride	5000	U	900	5000
Xylenes, Total	10000	U	1000	10000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	105		75 - 121
Toluene-d8 (Surr)	102		75 - 120

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Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: W GK-GWC-GWC-7-12-W

Lab Sample ID: 680-58954-4

Date Sampled: 06/28/2010 1610

Client Matrix: Waste

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B	Prep Batch: 680-173283	Lab File ID:	o0540.d
Dilution:	500		Initial Weight/Volume:	1 g
Date Analyzed:	07/02/2010 1317		Final Weight/Volume:	10 mL
Date Prepared:	07/02/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		250000	U	250000	250000
Acetonitrile		1000000	U	1000000	1000000
Acrolein		500000	U	500000	500000
Acrylonitrile		500000	U	500000	500000
Benzene		210000		25000	25000
Dichlorobromomethane		25000	U	25000	25000
Bromoform		25000	U	25000	25000
Bromomethane		25000	U	25000	25000
2-Butanone (MEK)		120000	U	120000	120000
Carbon disulfide		25000	U	25000	25000
Carbon tetrachloride		25000	U	25000	25000
Chlorobenzene		25000	U	25000	25000
2-Chloro-1,3-butadiene		25000	U	25000	25000
Chloroethane		25000	U	25000	25000
Chloroform		25000	U	25000	25000
Chloromethane		25000	U	25000	25000
3-Chloro-1-propene		25000	U	25000	25000
Chlorodibromomethane		25000	U	25000	25000
1,2-Dibromo-3-Chloropropane		50000	U	50000	50000
Ethylene Dibromide		25000	U	25000	25000
Dibromomethane		25000	U	25000	25000
1,2-Dichlorobenzene		25000	U	25000	25000
1,3-Dichlorobenzene		25000	U	25000	25000
1,4-Dichlorobenzene		25000	U	25000	25000
trans-1,4-Dichloro-2-butene		50000	U	50000	50000
Dichlorodifluoromethane		25000	U	25000	25000
1,1-Dichloroethane		25000	U	25000	25000
1,2-Dichloroethane		25000	U	25000	25000
trans-1,2-Dichloroethene		25000	U	25000	25000
1,1-Dichloroethene		25000	U	25000	25000
1,2-Dichloropropane		25000	U	25000	25000
cis-1,3-Dichloropropene		25000	U	25000	25000
trans-1,3-Dichloropropene		25000	U	25000	25000
Ethylbenzene		25000	U	25000	25000
Ethyl methacrylate		25000	U	25000	25000
2-Hexanone		120000	U	120000	120000
Iodomethane		25000	U	25000	25000
Isobutyl alcohol		1000000	U	1000000	1000000
Methacrylonitrile		500000	U	500000	500000
Methylene Chloride		25000	U	25000	25000
Methyl methacrylate		50000	U	50000	50000
4-Methyl-2-pentanone (MIBK)		120000	U	120000	120000
Pentachloroethane		120000	U	120000	120000
Propionitrile		500000	U	500000	500000
Styrene		25000	U	25000	25000
1,1,1,2-Tetrachloroethane		25000	U	25000	25000

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: WGK-GWC-GWC-7-12-W

Lab Sample ID: 680-58954-4  
Client Matrix: Waste

Date Sampled: 06/28/2010 1610  
Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B	Prep Batch: 680-173283	Lab File ID:	o0540.d
Dilution:	500		Initial Weight/Volume:	1 g
Date Analyzed:	07/02/2010 1317		Final Weight/Volume:	10 mL
Date Prepared:	07/02/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane		25000	U	25000	25000
Tetrachloroethene		25000	U	25000	25000
Toluene		25000	U	25000	25000
1,1,1-Trichloroethane		25000	U	25000	25000
1,1,2-Trichloroethane		25000	U	25000	25000
Trichloroethene		25000	U	25000	25000
Trichlorofluoromethane		25000	U	25000	25000
1,2,3-Trichloropropane		25000	U	25000	25000
Vinyl acetate		50000	U	50000	50000
Vinyl chloride		25000	U	25000	25000
Xylenes, Total		50000	U	50000	50000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		50 - 150
Dibromofluoromethane	108		50 - 150
Toluene-d8 (Surr)	103		50 - 150

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: W GK-GWD-GWD-7-12-W

Lab Sample ID: 680-58954-5

Date Sampled: 06/28/2010 1650

Client Matrix: Waste

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B	Prep Batch: 680-173283	Lab File ID:	o0545.d
Dilution:	100		Initial Weight/Volume:	1 g
Date Analyzed:	07/02/2010 1501		Final Weight/Volume:	10 mL
Date Prepared:	07/02/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		50000	U	50000	50000
Acetonitrile		200000	U	200000	200000
Acrolein		100000	U	100000	100000
Acrylonitrile		100000	U	100000	100000
Benzene		8200		5000	5000
Dichlorobromomethane		5000	U	5000	5000
Bromoform		5000	U	5000	5000
Bromomethane		5000	U	5000	5000
2-Butanone (MEK)		25000	U	25000	25000
Carbon disulfide		5000	U	5000	5000
Carbon tetrachloride		5000	U	5000	5000
Chlorobenzene		92000		5000	5000
2-Chloro-1,3-butadiene		5000	U	5000	5000
Chloroethane		5000	U	5000	5000
Chloroform		5000	U	5000	5000
Chloromethane		5000	U	5000	5000
3-Chloro-1-propene		5000	U	5000	5000
Chlorodibromomethane		5000	U	5000	5000
1,2-Dibromo-3-Chloropropane		10000	U	10000	10000
Ethylene Dibromide		5000	U	5000	5000
Dibromomethane		5000	U	5000	5000
1,2-Dichlorobenzene		5000	U	5000	5000
1,3-Dichlorobenzene		5000	U	5000	5000
1,4-Dichlorobenzene		5000	U	5000	5000
trans-1,4-Dichloro-2-butene		10000	U	10000	10000
Dichlorodifluoromethane		5000	U	5000	5000
1,1-Dichloroethane		5000	U	5000	5000
1,2-Dichloroethane		5000	U	5000	5000
trans-1,2-Dichloroethene		5000	U	5000	5000
1,1-Dichloroethene		5000	U	5000	5000
1,2-Dichloropropane		5000	U	5000	5000
cis-1,3-Dichloropropene		5000	U	5000	5000
trans-1,3-Dichloropropene		5000	U	5000	5000
Ethylbenzene		5000	U	5000	5000
Ethyl methacrylate		5000	U	5000	5000
2-Hexanone		25000	U	25000	25000
Iodomethane		5000	U	5000	5000
Isobutyl alcohol		200000	U	200000	200000
Methacrylonitrile		100000	U	100000	100000
Methylene Chloride		5000	U	5000	5000
Methyl methacrylate		10000	U	10000	10000
4-Methyl-2-pentanone (MIBK)		25000	U	25000	25000
Pentachloroethane		25000	U	25000	25000
Propionitrile		100000	U	100000	100000
Styrene		5000	U	5000	5000
1,1,1,2-Tetrachloroethane		5000	U	5000	5000

US EPA ARCHIVE DOCUMENT



**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWD-GWD-7-12-W**

Lab Sample ID: 680-58954-5  
Client Matrix: Waste

Date Sampled: 06/28/2010 1650  
Date Received: 06/29/2010 1126

**8260B Volatile Organic Compounds (GC/MS)**

Method:	8260B	Analysis Batch: 680-173277	Instrument ID:	MSO
Preparation:	5030B	Prep Batch: 680-173283	Lab File ID:	o0545.d
Dilution:	100		Initial Weight/Volume:	1 g
Date Analyzed:	07/02/2010 1501		Final Weight/Volume:	10 mL
Date Prepared:	07/02/2010 1000			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
1,1,2,2-Tetrachloroethane		5000	U	5000	5000
Tetrachloroethene		5000	U	5000	5000
Toluene		5000	U	5000	5000
1,1,1-Trichloroethane		5000	U	5000	5000
1,1,2-Trichloroethane		5000	U	5000	5000
Trichloroethene		5000	U	5000	5000
Trichlorofluoromethane		5000	U	5000	5000
1,2,3-Trichloropropane		5000	U	5000	5000
Vinyl acetate		10000	U	10000	10000
Vinyl chloride		5000	U	5000	5000
Xylenes, Total		10000	U	10000	10000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		50 - 150
Dibromofluoromethane	110		50 - 150
Toluene-d8 (Surr)	102		50 - 150

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: Trip Blank

Lab Sample ID: 680-58954-6TB

Date Sampled: 06/28/2010 0000

Client Matrix: Water

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173165	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0481.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/01/2010 1345		Final Weight/Volume:	5 mL
Date Prepared:	07/01/2010 1345			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
1,3-Dichlorobenzene	1.0	U	0.25	1.0
1,4-Dichlorobenzene	1.0	U	0.28	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: Trip Blank

Lab Sample ID: 680-58954-6TB

Date Sampled: 06/28/2010 0000

Client Matrix: Water

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B Analysis Batch: 680-173165 Instrument ID: MSO  
 Preparation: 5030B Lab File ID: o0481.d  
 Dilution: 1.0 Initial Weight/Volume: 5 mL  
 Date Analyzed: 07/01/2010 1345 Final Weight/Volume: 5 mL  
 Date Prepared: 07/01/2010 1345

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		75 - 120
Dibromofluoromethane	111		75 - 121
Toluene-d8 (Surr)	102		75 - 120

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: W GK-BIGMO-ISA-03S-7.5-8.5

Lab Sample ID: 680-58954-7

Date Sampled: 06/28/2010 1010

Client Matrix: Solid

% Moisture: 25.4

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173601	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0415.d
Dilution:	5000		Initial Weight/Volume:	5.7 g
Date Analyzed:	07/08/2010 1412		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		590000	U	130000	590000
Acetonitrile		2400000	U	480000	2400000
Acrolein		1200000	U	280000	1200000
Acrylonitrile		1200000	U	400000	1200000
Benzene		1300000		8600	59000
Bromoform		59000	U	18000	59000
Bromomethane		59000	U	18000	59000
2-Butanone (MEK)		290000	U	28000	290000
Carbon disulfide		59000	U	13000	59000
Carbon tetrachloride		59000	U	9800	59000
Chlorobenzene		59000	U	11000	59000
2-Chloro-1,3-butadiene		59000	U	25000	59000
Chlorodibromomethane		59000	U	20000	59000
Chloroethane		59000	U	32000	59000
Chloroform		59000	U	13000	59000
Chloromethane		59000	U	12000	59000
3-Chloro-1-propene		59000	U	26000	59000
cis-1,3-Dichloropropene		59000	U	9800	59000
1,2-Dibromo-3-Chloropropane		120000	U	52000	120000
Dibromomethane		59000	U	20000	59000
1,2-Dichlorobenzene		59000	U *	15000	59000
1,3-Dichlorobenzene		59000	U	19000	59000
1,4-Dichlorobenzene		59000	U *	8700	59000
Dichlorobromomethane		59000	U	11000	59000
Dichlorodifluoromethane		59000	U	11000	59000
1,1-Dichloroethane		59000	U	13000	59000
1,2-Dichloroethane		59000	U	13000	59000
1,1-Dichloroethene		59000	U	18000	59000
1,2-Dichloropropane		59000	U	10000	59000
Ethylbenzene		59000	U	15000	59000
Ethylene Dibromide		59000	U	18000	59000
Ethyl methacrylate		59000	U	40000	59000
2-Hexanone		290000	U	39000	290000
Iodomethane		59000	U	21000	59000
Isobutyl alcohol		2400000	U	610000	2400000
Methacrylonitrile		1200000	U	270000	1200000
Methylene Chloride		59000	U	12000	59000
Methyl methacrylate		120000	U	53000	120000
4-Methyl-2-pentanone (MIBK)		290000	U	49000	290000
Pentachloroethane		290000	U	74000	290000
Propionitrile		1200000	U	310000	1200000
Styrene		59000	U	11000	59000
1,1,1,2-Tetrachloroethane		59000	U	28000	59000
1,1,1,2,2-Tetrachloroethane		59000	U	19000	59000
Tetrachloroethene		59000	U	22000	59000
Toluene		59000	U	9900	59000

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Client Sample ID: WGK-BIGMO-ISA-03S-7.5-8.5**

Lab Sample ID: 680-58954-7

Date Sampled: 06/28/2010 1010

Client Matrix: Solid

% Moisture: 25.4

Date Received: 06/29/2010 1126

**8260B Volatile Organic Compounds (GC/MS)**

Method:	8260B	Analysis Batch: 680-173601	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0415.d
Dilution:	5000		Initial Weight/Volume:	5.7 g
Date Analyzed:	07/08/2010 1412		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene		120000	U	34000	120000
trans-1,2-Dichloroethene		59000	U	7400	59000
trans-1,3-Dichloropropene		59000	U	10000	59000
1,1,1-Trichloroethane		59000	U	6900	59000
1,1,2-Trichloroethane		59000	U	15000	59000
Trichloroethene		59000	U	15000	59000
Trichlorofluoromethane		59000	U	14000	59000
1,2,3-Trichloropropane		59000	U	28000	59000
Vinyl acetate		120000	U	29000	120000
Vinyl chloride		59000	U	18000	59000
Xylenes, Total		120000	U	13000	120000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	0	D	65 - 124
Dibromofluoromethane	0	D	65 - 124
Toluene-d8 (Surr)	0	D	65 - 132

**US EPA ARCHIVE DOCUMENT**

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: WGK-BIGMO-ISA-08S-7.5-8.5

Lab Sample ID: 680-58954-8

Date Sampled: 06/28/2010 1040

Client Matrix: Solid

% Moisture: 30.4

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0432.d
Dilution:	400		Initial Weight/Volume:	5.5 g
Date Analyzed:	07/09/2010 1858		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		52000	U	11000	52000
Acetonitrile		210000	U	43000	210000
Acrolein		100000	U	25000	100000
Acrylonitrile		100000	U	36000	100000
Benzene		81000		760	5200
Bromoform		5200	U	1600	5200
Bromomethane		5200	U	1600	5200
2-Butanone (MEK)		26000	U	2500	26000
Carbon disulfide		5200	U	1100	5200
Carbon tetrachloride		5200	U	870	5200
Chlorobenzene		5200	U	1000	5200
2-Chloro-1,3-butadiene		5200	U	2200	5200
Chlorodibromomethane		5200	U	1800	5200
Chloroethane		5200	U	2800	5200
Chloroform		5200	U	1100	5200
Chloromethane		5200	U	1000	5200
3-Chloro-1-propene		5200	U	2300	5200
cis-1,3-Dichloropropene		5200	U	870	5200
1,2-Dibromo-3-Chloropropane		10000	U	4600	10000
Dibromomethane		5200	U	1800	5200
1,2-Dichlorobenzene		5200	U	1400	5200
1,3-Dichlorobenzene		5200	U	1700	5200
1,4-Dichlorobenzene		5200	U	770	5200
Dichlorobromomethane		5200	U	1000	5200
Dichlorodifluoromethane		5200	U	980	5200
1,1-Dichloroethane		5200	U	1100	5200
1,2-Dichloroethane		5200	U	1100	5200
1,1-Dichloroethene		5200	U	1600	5200
1,2-Dichloropropane		5200	U	900	5200
Ethylbenzene		5200	U	1400	5200
Ethylene Dibromide		5200	U	1600	5200
Ethyl methacrylate		5200	U	3600	5200
2-Hexanone		26000	U	3400	26000
Iodomethane		5200	U	1900	5200
Isobutyl alcohol		210000	U	54000	210000
Methacrylonitrile		100000	U	24000	100000
Methylene Chloride		5200	U	1000	5200
Methyl methacrylate		10000	U	4700	10000
4-Methyl-2-pentanone (MIBK)		26000	U	4400	26000
Pentachloroethane		26000	U	6600	26000
Propionitrile		100000	U	27000	100000
Styrene		5200	U	970	5200
1,1,1,2-Tetrachloroethane		5200	U	2500	5200
1,1,2,2-Tetrachloroethane		5200	U	1700	5200
Tetrachloroethene		5200	U	2000	5200
Toluene		5200	U	880	5200

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: WGK-BIGMO-ISA-08S-7.5-8.5

Lab Sample ID: 680-58954-8

Date Sampled: 06/28/2010 1040

Client Matrix: Solid

% Moisture: 30.4

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0432.d
Dilution:	400		Initial Weight/Volume:	5.5 g
Date Analyzed:	07/09/2010 1858		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene		10000	U	3000	10000
trans-1,2-Dichloroethene		5200	U	660	5200
trans-1,3-Dichloropropene		5200	U	910	5200
1,1,1-Trichloroethane		5200	U	620	5200
1,1,2-Trichloroethane		5200	U	1400	5200
Trichloroethene		5200	U	1400	5200
Trichlorofluoromethane		5200	U	1300	5200
1,2,3-Trichloropropane		5200	U	2500	5200
Vinyl acetate		10000	U	2600	10000
Vinyl chloride		5200	U	1600	5200
Xylenes, Total		10000	U	1100	10000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	0	D	65 - 124
Dibromofluoromethane	0	D	65 - 124
Toluene-d8 (Surr)	0	D	65 - 132

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: **WGK-BIGMO-ISA-102S-7.5-8.5**

Lab Sample ID: 680-58954-9

Date Sampled: 06/28/2010 1025

Client Matrix: Solid

% Moisture: 25.3

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0433.d
Dilution:	200		Initial Weight/Volume:	5.7 g
Date Analyzed:	07/09/2010 1919		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		23000	U	5200	23000
Acetonitrile		94000	U	19000	94000
Acrolein		47000	U	11000	47000
Acrylonitrile		47000	U	16000	47000
Benzene		34000		340	2300
Bromoform		2300	U	700	2300
Bromomethane		2300	U	700	2300
2-Butanone (MEK)		12000	U	1100	12000
Carbon disulfide		2300	U	520	2300
Carbon tetrachloride		2300	U	390	2300
Chlorobenzene		2300	U	450	2300
2-Chloro-1,3-butadiene		2300	U	990	2300
Chlorodibromomethane		2300	U	800	2300
Chloroethane		2300	U	1300	2300
Chloroform		2300	U	520	2300
Chloromethane		2300	U	470	2300
3-Chloro-1-propene		2300	U	1000	2300
cis-1,3-Dichloropropene		2300	U	390	2300
1,2-Dibromo-3-Chloropropane		4700	U	2100	4700
Dibromomethane		2300	U	800	2300
1,2-Dichlorobenzene		2300	U	610	2300
1,3-Dichlorobenzene		2300	U	750	2300
1,4-Dichlorobenzene		390	J	350	2300
Dichlorobromomethane		2300	U	460	2300
Dichlorodifluoromethane		2300	U	440	2300
1,1-Dichloroethane		2300	U	520	2300
1,2-Dichloroethane		2300	U	520	2300
1,1-Dichloroethene		2300	U	700	2300
1,2-Dichloropropane		2300	U	400	2300
Ethylbenzene		2300	U	610	2300
Ethylene Dibromide		2300	U	700	2300
Ethyl methacrylate		2300	U	1600	2300
2-Hexanone		12000	U	1500	12000
Iodomethane		2300	U	850	2300
Isobutyl alcohol		94000	U	24000	94000
Methacrylonitrile		47000	U	11000	47000
Methylene Chloride		2300	U	460	2300
Methyl methacrylate		4700	U	2100	4700
4-Methyl-2-pentanone (MIBK)		12000	U	2000	12000
Pentachloroethane		12000	U	3000	12000
Propionitrile		47000	U	12000	47000
Styrene		2300	U	440	2300
1,1,1,2-Tetrachloroethane		2300	U	1100	2300
1,1,2,2-Tetrachloroethane		2300	U	750	2300
Tetrachloroethene		2300	U	890	2300
Toluene		2300	U	390	2300

US EPA ARCHIVE DOCUMENT



**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Client Sample ID: WGK-BIGMO-ISA-102S-7.5-8.5**

Lab Sample ID: 680-58954-9

Date Sampled: 06/28/2010 1025

Client Matrix: Solid

% Moisture: 25.3

Date Received: 06/29/2010 1126

**8260B Volatile Organic Compounds (GC/MS)**

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0433.d
Dilution:	200		Initial Weight/Volume:	5.7 g
Date Analyzed:	07/09/2010 1919		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene		4700	U	1400	4700
trans-1,2-Dichloroethene		2300	U	300	2300
trans-1,3-Dichloropropene		2300	U	410	2300
1,1,1-Trichloroethane		2300	U	280	2300
1,1,2-Trichloroethane		2300	U	610	2300
Trichloroethene		2300	U	610	2300
Trichlorofluoromethane		2300	U	560	2300
1,2,3-Trichloropropane		2300	U	1100	2300
Vinyl acetate		4700	U	1200	4700
Vinyl chloride		2300	U	700	2300
Xylenes, Total		4700	U	520	4700

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		65 - 124
Dibromofluoromethane	116		65 - 124
Toluene-d8 (Surr)	100		65 - 132

**US EPA ARCHIVE DOCUMENT**

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: **WGK-BIGMO-ISA-118S-7.5-8.5**

Lab Sample ID: 680-58954-10

Date Sampled: 06/28/2010 1035

Client Matrix: Solid

% Moisture: 27.0

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0434.d
Dilution:	100		Initial Weight/Volume:	5.3 g
Date Analyzed:	07/09/2010 1940		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		13000	U	2800	13000
Acetonitrile		52000	U	11000	52000
Acrolein		26000	U	6200	26000
Acrylonitrile		26000	U	8800	26000
Benzene		33000		190	1300
Bromoform		1300	U	390	1300
Bromomethane		1300	U	390	1300
2-Butanone (MEK)		6500	U	620	6500
Carbon disulfide		1300	U	280	1300
Carbon tetrachloride		1300	U	210	1300
Chlorobenzene		1300	U	250	1300
2-Chloro-1,3-butadiene		1300	U	540	1300
Chlorodibromomethane		1300	U	440	1300
Chloroethane		1300	U	700	1300
Chloroform		1300	U	280	1300
Chloromethane		1300	U	260	1300
3-Chloro-1-propene		1300	U	570	1300
cis-1,3-Dichloropropene		1300	U	210	1300
1,2-Dibromo-3-Chloropropane		2600	U	1100	2600
Dibromomethane		1300	U	440	1300
1,2-Dichlorobenzene		1300	U	340	1300
1,3-Dichlorobenzene		1300	U	410	1300
1,4-Dichlorobenzene		210	J	190	1300
Dichlorobromomethane		1300	U	250	1300
Dichlorodifluoromethane		1300	U	240	1300
1,1-Dichloroethane		1300	U	280	1300
1,2-Dichloroethane		1300	U	280	1300
1,1-Dichloroethene		1300	U	390	1300
1,2-Dichloropropane		1300	U	220	1300
Ethylbenzene		1300	U	340	1300
Ethylene Dibromide		1300	U	390	1300
Ethyl methacrylate		1300	U	880	1300
2-Hexanone		6500	U	850	6500
Iodomethane		1300	U	470	1300
Isobutyl alcohol		52000	U	13000	52000
Methacrylonitrile		26000	U	5900	26000
Methylene Chloride		1300	U	250	1300
Methyl methacrylate		2600	U	1200	2600
4-Methyl-2-pentanone (MIBK)		6500	U	1100	6500
Pentachloroethane		6500	U	1600	6500
Propionitrile		26000	U	6700	26000
Styrene		1300	U	240	1300
1,1,1,2-Tetrachloroethane		1300	U	620	1300
1,1,2,2-Tetrachloroethane		1300	U	410	1300
Tetrachloroethene		1300	U	490	1300
Toluene		1300	U	220	1300

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: WGK-BIGMO-ISA-118S-7.5-8.5

Lab Sample ID: 680-58954-10  
Client Matrix: Solid

% Moisture: 27.0

Date Sampled: 06/28/2010 1035  
Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0434.d
Dilution:	100		Initial Weight/Volume:	5.3 g
Date Analyzed:	07/09/2010 1940		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene		2600	U	750	2600
trans-1,2-Dichloroethene		1300	U	160	1300
trans-1,3-Dichloropropene		1300	U	220	1300
1,1,1-Trichloroethane		1300	U	150	1300
1,1,2-Trichloroethane		1300	U	340	1300
Trichloroethene		1300	U	340	1300
Trichlorofluoromethane		1300	U	310	1300
1,2,3-Trichloropropane		1300	U	620	1300
Vinyl acetate		2600	U	650	2600
Vinyl chloride		1300	U	390	1300
Xylenes, Total		2600	U	280	2600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		65 - 124
Dibromofluoromethane	123		65 - 124
Toluene-d8 (Surr)	102		65 - 132

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: W GK-BIGMO-ISA-101S-7.5-8.5

Lab Sample ID: 680-58954-11

Date Sampled: 06/28/2010 1055

Client Matrix: Solid

% Moisture: 31.0

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0435.d
Dilution:	500		Initial Weight/Volume:	6.0 g
Date Analyzed:	07/09/2010 2001		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		60000	U	13000	60000
Acetonitrile		240000	U	50000	240000
Acrolein		120000	U	29000	120000
Acrylonitrile		120000	U	41000	120000
Benzene		170000		880	6000
Bromoform		6000	U	1800	6000
Bromomethane		6000	U	1800	6000
2-Butanone (MEK)		30000	U	2900	30000
Carbon disulfide		6000	U	1300	6000
Carbon tetrachloride		6000	U	1000	6000
Chlorobenzene		6000	U	1200	6000
2-Chloro-1,3-butadiene		6000	U	2500	6000
Chlorodibromomethane		6000	U	2100	6000
Chloroethane		6000	U	3300	6000
Chloroform		6000	U	1300	6000
Chloromethane		6000	U	1200	6000
3-Chloro-1-propene		6000	U	2700	6000
cis-1,3-Dichloropropene		6000	U	1000	6000
1,2-Dibromo-3-Chloropropane		12000	U	5300	12000
Dibromomethane		6000	U	2100	6000
1,2-Dichlorobenzene		6000	U	1600	6000
1,3-Dichlorobenzene		6000	U	1900	6000
1,4-Dichlorobenzene		2000	J	890	6000
Dichlorobromomethane		6000	U	1200	6000
Dichlorodifluoromethane		6000	U	1100	6000
1,1-Dichloroethane		6000	U	1300	6000
1,2-Dichloroethane		6000	U	1300	6000
1,1-Dichloroethene		6000	U	1800	6000
1,2-Dichloropropane		6000	U	1000	6000
Ethylbenzene		6000	U	1600	6000
Ethylene Dibromide		6000	U	1800	6000
Ethyl methacrylate		6000	U	4100	6000
2-Hexanone		30000	U	4000	30000
Iodomethane		6000	U	2200	6000
Isobutyl alcohol		240000	U	63000	240000
Methacrylonitrile		120000	U	28000	120000
Methylene Chloride		6000	U	1200	6000
Methyl methacrylate		12000	U	5400	12000
4-Methyl-2-pentanone (MIBK)		30000	U	5100	30000
Pentachloroethane		30000	U	7600	30000
Propionitrile		120000	U	31000	120000
Styrene		6000	U	1100	6000
1,1,1,2-Tetrachloroethane		6000	U	2900	6000
1,1,2,2-Tetrachloroethane		6000	U	1900	6000
Tetrachloroethene		6000	U	2300	6000
Toluene		6000	U	1000	6000

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: WGK-BIGMO-ISA-101S-7.5-8.5

Lab Sample ID: 680-58954-11

Date Sampled: 06/28/2010 1055

Client Matrix: Solid

% Moisture: 31.0

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173764	Instrument ID:	MSM
Preparation:	5035	Prep Batch: 680-172905	Lab File ID:	m0435.d
Dilution:	500		Initial Weight/Volume:	6.0 g
Date Analyzed:	07/09/2010 2001		Final Weight/Volume:	10 g
Date Prepared:	06/29/2010 1527			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene		12000	U	3500	12000
trans-1,2-Dichloroethene		6000	U	760	6000
trans-1,3-Dichloropropene		6000	U	1100	6000
1,1,1-Trichloroethane		6000	U	710	6000
1,1,2-Trichloroethane		6000	U	1600	6000
Trichloroethene		6000	U	1600	6000
Trichlorofluoromethane		6000	U	1400	6000
1,2,3-Trichloropropane		6000	U	2900	6000
Vinyl acetate		12000	U	3000	12000
Vinyl chloride		6000	U	1800	6000
Xylenes, Total		12000	U	1300	12000

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	0	D	65 - 124
Dibromofluoromethane	0	D	65 - 124
Toluene-d8 (Surr)	0	D	65 - 132

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: Trip Blank

Lab Sample ID: 680-58954-12TB

Date Sampled: 06/28/2010 0000

Client Matrix: Water

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173165	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0483.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/01/2010 1413		Final Weight/Volume:	5 mL
Date Prepared:	07/01/2010 1413			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
1,3-Dichlorobenzene	1.0	U	0.25	1.0
1,4-Dichlorobenzene	1.0	U	0.28	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Client Sample ID: Trip Blank

Lab Sample ID: 680-58954-12TB

Date Sampled: 06/28/2010 0000

Client Matrix: Water

Date Received: 06/29/2010 1126

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 680-173165	Instrument ID:	MSO
Preparation:	5030B		Lab File ID:	o0483.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/01/2010 1413		Final Weight/Volume:	5 mL
Date Prepared:	07/01/2010 1413			

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		75 - 120
Dibromofluoromethane	112		75 - 121
Toluene-d8 (Surr)	101		75 - 120

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Client Sample ID: WGK-GWA-GWB-7-12-W

Lab Sample ID: 680-58954-2  
Client Matrix: Water

Date Sampled: 06/28/2010 1510  
Date Received: 06/29/2010 1126

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 680-173489	Instrument ID:	MST
Preparation:	3520C	Prep Batch: 680-173237	Lab File ID:	t4621.d
Dilution:	5.0		Initial Weight/Volume:	1060 mL
Date Analyzed:	07/07/2010 1731		Final Weight/Volume:	1 mL
Date Prepared:	07/02/2010 1354		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	47	U	3.6	47
Acenaphthylene	47	U	4.0	47
Anthracene	47	U	3.3	47
Benzo[a]anthracene	47	U	2.6	47
Benzo[a]pyrene	47	U	3.3	47
Benzo[b]fluoranthene	47	U	12	47
Benzo[g,h,i]perylene	47	U	4.1	47
Benzo[k]fluoranthene	47	U	5.7	47
Chrysene	2.5	J	2.4	47
Dibenz(a,h)anthracene	47	U	4.7	47
Fluoranthene	47	U	3.5	47
Fluorene	47	U	4.5	47
Indeno[1,2,3-cd]pyrene	47	U	4.7	47
2-Methylnaphthalene	47	U	3.7	47
1-Methylnaphthalene	7.8	J	3.2	47
Naphthalene	47	U	3.3	47
Phenanthrene	47	U	3.6	47
Pyrene	47	U	3.0	47

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	49	X	50 - 113
2-Fluorophenol	55		36 - 110
Nitrobenzene-d5	61		45 - 112
Phenol-d5	63		38 - 116
Terphenyl-d14	12		10 - 121
2,4,6-Tribromophenol	70		40 - 139

US EPA ARCHIVE DOCUMENT



**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWB-GWB-7-12-W**

Lab Sample ID: 680-58954-3  
Client Matrix: Water

Date Sampled: 06/28/2010 1535  
Date Received: 06/29/2010 1126

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method:	8270C	Analysis Batch: 680-173489	Instrument ID:	MST
Preparation:	3520C	Prep Batch: 680-173237	Lab File ID:	t4623.d
Dilution:	5.0		Initial Weight/Volume:	1050 mL
Date Analyzed:	07/07/2010 1819		Final Weight/Volume:	1 mL
Date Prepared:	07/02/2010 1354		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	48	U	3.6	48
Acenaphthylene	48	U	4.0	48
Anthracene	48	U	3.3	48
Benzo[a]anthracene	48	U	2.6	48
Benzo[a]pyrene	48	U	3.4	48
Benzo[b]fluoranthene	48	U	12	48
Benzo[g,h,i]perylene	48	U	4.1	48
Benzo[k]fluoranthene	48	U	5.7	48
Chrysene	48	U	2.4	48
Dibenz(a,h)anthracene	48	U	4.8	48
Fluoranthene	48	U	3.5	48
Fluorene	48	U	4.6	48
Indeno[1,2,3-cd]pyrene	48	U	4.8	48
2-Methylnaphthalene	48	U	3.7	48
1-Methylnaphthalene	13	J	3.2	48
Naphthalene	48	U	3.3	48
Phenanthrene	48	U	3.7	48
Pyrene	48	U	3.0	48

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	22	X	50 - 113
2-Fluorophenol	57		36 - 110
Nitrobenzene-d5	60		45 - 112
Phenol-d5	68		38 - 116
Terphenyl-d14	10		10 - 121
2,4,6-Tribromophenol	55		40 - 139

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWA-GWA-7-12-W**

Lab Sample ID: 680-58954-14  
Client Matrix: Water

Date Sampled: 06/28/2010 1455  
Date Received: 06/29/2010 1126

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method:	8270C	Analysis Batch: 680-173489	Instrument ID:	MST
Preparation:	3520C	Prep Batch: 680-173237	Lab File ID:	t4622.d
Dilution:	5.0		Initial Weight/Volume:	1030 mL
Date Analyzed:	07/07/2010 1755		Final Weight/Volume:	1 mL
Date Prepared:	07/02/2010 1354		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	49	U	3.7	49
Acenaphthylene	49	U	4.1	49
Anthracene	49	U	3.3	49
Benzo[a]anthracene	49	U	2.7	49
Benzo[a]pyrene	49	U	3.4	49
Benzo[b]fluoranthene	49	U	13	49
Benzo[g,h,i]perylene	49	U	4.2	49
Benzo[k]fluoranthene	49	U	5.8	49
Chrysene	49	U	2.5	49
Dibenz(a,h)anthracene	49	U	4.9	49
Fluoranthene	49	U	3.6	49
Fluorene	49	U	4.7	49
Indeno[1,2,3-cd]pyrene	49	U	4.9	49
1-Methylnaphthalene	5.0	J	3.3	49
2-Methylnaphthalene	49	U	3.8	49
Naphthalene	49	U	3.4	49
Phenanthrene	49	U	3.7	49
Pyrene	49	U	3.1	49

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14	11		10 - 121
2-Fluorobiphenyl	46	X	50 - 113
Nitrobenzene-d5	64		45 - 112

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWC-GWC-7-12-W**

Lab Sample ID: 680-58954-15  
Client Matrix: Water

Date Sampled: 06/28/2010 1610  
Date Received: 06/29/2010 1126

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method:	8270C	Analysis Batch: 680-173489	Instrument ID:	MST
Preparation:	3520C	Prep Batch: 680-173237	Lab File ID:	t4624.d
Dilution:	10		Initial Weight/Volume:	1050 mL
Date Analyzed:	07/07/2010 1843		Final Weight/Volume:	1 mL
Date Prepared:	07/02/2010 1354		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	95	U	7.2	95
Acenaphthylene	95	U	8.1	95
Anthracene	95	U	6.6	95
Benzo[a]anthracene	95	U	5.2	95
Benzo[a]pyrene	95	U	6.8	95
Benzo[b]fluoranthene	95	U	25	95
Benzo[g,h,i]perylene	95	U	8.3	95
Benzo[k]fluoranthene	95	U	11	95
Chrysene	95	U	4.9	95
Dibenz(a,h)anthracene	95	U	9.5	95
Fluoranthene	95	U	7.0	95
Fluorene	95	U	9.1	95
Indeno[1,2,3-cd]pyrene	95	U	9.5	95
1-Methylnaphthalene	47	J	6.4	95
2-Methylnaphthalene	14	J	7.4	95
Naphthalene	95	U	6.7	95
Phenanthrene	95	U	7.3	95
Pyrene	95	U	6.0	95
Surrogate	%Rec	Qualifier	Acceptance Limits	
Terphenyl-d14	0	D	10 - 121	
2-Fluorobiphenyl	0	D	50 - 113	
Nitrobenzene-d5	0	D	45 - 112	

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Client Sample ID: WGK-GWD-GWD-7-12-W**

Lab Sample ID: 680-58954-16  
Client Matrix: Water

Date Sampled: 06/28/2010 1650  
Date Received: 06/29/2010 1126

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method:	8270C	Analysis Batch: 680-173489	Instrument ID:	MST
Preparation:	3520C	Prep Batch: 680-173237	Lab File ID:	t4625.d
Dilution:	10		Initial Weight/Volume:	1050 mL
Date Analyzed:	07/07/2010 1907		Final Weight/Volume:	1 mL
Date Prepared:	07/02/2010 1354		Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	95	U	7.2	95
Acenaphthylene	95	U	8.1	95
Anthracene	95	U	6.6	95
Benzo[a]anthracene	95	U	5.2	95
Benzo[a]pyrene	95	U	6.8	95
Benzo[b]fluoranthene	95	U	25	95
Benzo[g,h,i]perylene	95	U	8.3	95
Benzo[k]fluoranthene	95	U	11	95
Chrysene	95	U	4.9	95
Dibenz(a,h)anthracene	95	U	9.5	95
Fluoranthene	95	U	7.0	95
Fluorene	95	U	9.1	95
Indeno[1,2,3-cd]pyrene	95	U	9.5	95
1-Methylnaphthalene	160		6.4	95
2-Methylnaphthalene	160		7.4	95
Naphthalene	140		6.7	95
Phenanthrene	95	U	7.3	95
Pyrene	95	U	6.0	95

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14	0	D	10 - 121
2-Fluorobiphenyl	0	D	50 - 113
Nitrobenzene-d5	0	D	45 - 112

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## DATA REPORTING QUALIFIERS

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

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# **QUALITY CONTROL RESULTS**

Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS VOA</b>					
<b>Prep Batch: 680-172905</b>					
680-58954-7	WGK-BIGMO-ISA-03S-7.5-8.5	T	Solid	5035	
680-58954-8	WGK-BIGMO-ISA-08S-7.5-8.5	T	Solid	5035	
680-58954-9	WGK-BIGMO-ISA-102S-7.5-8.5	T	Solid	5035	
680-58954-10	WGK-BIGMO-ISA-118S-7.5-8.5	T	Solid	5035	
680-58954-11	WGK-BIGMO-ISA-101S-7.5-8.5	T	Solid	5035	
<b>Analysis Batch:680-173165</b>					
LCS 680-173165/4	Lab Control Sample	T	Water	8260B	
LCSD 680-173165/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-173165/14	Method Blank	T	Water	8260B	
680-58954-6TB	Trip Blank	T	Water	8260B	
680-58954-12TB	Trip Blank	T	Water	8260B	
<b>Analysis Batch:680-173277</b>					
LCSD 680-173277/6	Lab Control Sample Duplicate	T	Waste	8260B	
LCS 680-173277/5	Lab Control Sample	T	Water	8260B	
MB 680-173277/8	Method Blank	T	Water	8260B	
680-58954-1	WGK-GWA-GWA-7-12-W	T	Waste	8260B	680-173283
680-58954-2	WGK-GWA-GWB-7-12-W	T	Water	8260B	
680-58954-3	WGK-GWB-GWB-7-12-W	T	Water	8260B	
680-58954-3MS	Matrix Spike	T	Water	8260B	
680-58954-4	WGK-GWC-GWC-7-12-W	T	Waste	8260B	680-173283
680-58954-5	WGK-GWD-GWD-7-12-W	T	Waste	8260B	680-173283
<b>Prep Batch: 680-173283</b>					
680-58954-1	WGK-GWA-GWA-7-12-W	T	Waste	5030B	
680-58954-4	WGK-GWC-GWC-7-12-W	T	Waste	5030B	
680-58954-5	WGK-GWD-GWD-7-12-W	T	Waste	5030B	
<b>Analysis Batch:680-173362</b>					
LCS 680-173362/19	Lab Control Sample	T	Water	8260B	
LCSD 680-173362/20	Lab Control Sample Duplicate	T	Water	8260B	
MB 680-173362/22	Method Blank	T	Water	8260B	
680-58954-3MSD	Matrix Spike Duplicate	T	Water	8260B	
<b>Analysis Batch:680-173601</b>					
LCS 680-173601/6	Lab Control Sample	T	Solid	8260B	
LCSD 680-173601/7	Lab Control Sample Duplicate	T	Solid	8260B	
MB 680-173601/8	Method Blank	T	Solid	8260B	
680-58954-7	WGK-BIGMO-ISA-03S-7.5-8.5	T	Solid	8260B	680-172905

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Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>GC/MS VOA</b>					
<b>Analysis Batch:680-173764</b>					
LCS 680-173764/4	Lab Control Sample	T	Solid	8260B	
LCSD 680-173764/5	Lab Control Sample Duplicate	T	Solid	8260B	
MB 680-173764/6	Method Blank	T	Solid	8260B	
680-58954-8	WGK-BIGMO-ISA-08S-7.5-8.5	T	Solid	8260B	680-172905
680-58954-9	WGK-BIGMO-ISA-102S-7.5-8.5	T	Solid	8260B	680-172905
680-58954-10	WGK-BIGMO-ISA-118S-7.5-8.5	T	Solid	8260B	680-172905
680-58954-11	WGK-BIGMO-ISA-101S-7.5-8.5	T	Solid	8260B	680-172905
<b>Report Basis</b>					
T = Total					
<b>GC/MS Semi VOA</b>					
<b>Prep Batch: 680-173237</b>					
LCS 680-173237/7-A	Lab Control Sample	T	Water	3520C	
MB 680-173237/6-A	Method Blank	T	Water	3520C	
680-58954-2	WGK-GWA-GWB-7-12-W	T	Water	3520C	
680-58954-3	WGK-GWB-GWB-7-12-W	T	Water	3520C	
680-58954-3MS	Matrix Spike	T	Water	3520C	
680-58954-3MSD	Matrix Spike Duplicate	T	Water	3520C	
680-58954-14	WGK-GWA-GWA-7-12-W	T	Water	3520C	
680-58954-15	WGK-GWC-GWC-7-12-W	T	Water	3520C	
680-58954-16	WGK-GWD-GWD-7-12-W	T	Water	3520C	
<b>Analysis Batch:680-173489</b>					
LCS 680-173237/7-A	Lab Control Sample	T	Water	8270C	680-173237
680-58954-2	WGK-GWA-GWB-7-12-W	T	Water	8270C	680-173237
680-58954-3	WGK-GWB-GWB-7-12-W	T	Water	8270C	680-173237
680-58954-3MS	Matrix Spike	T	Water	8270C	680-173237
680-58954-3MSD	Matrix Spike Duplicate	T	Water	8270C	680-173237
680-58954-14	WGK-GWA-GWA-7-12-W	T	Water	8270C	680-173237
680-58954-15	WGK-GWC-GWC-7-12-W	T	Water	8270C	680-173237
680-58954-16	WGK-GWD-GWD-7-12-W	T	Water	8270C	680-173237
<b>Analysis Batch:680-173492</b>					
MB 680-173237/6-A	Method Blank	T	Water	8270C	680-173237

Report Basis

T = Total



Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

Surrogate Recovery Report

**8260B Volatile Organic Compounds (GC/MS)**

**Client Matrix: Solid**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58954-7	WGK-BIGMO-ISA-03 S-7.5-8.5	0D	0D	0D
680-58954-8	WGK-BIGMO-ISA-08 S-7.5-8.5	0D	0D	0D
680-58954-9	WGK-BIGMO-ISA-10 2S-7.5-8.5	96	116	100
680-58954-10	WGK-BIGMO-ISA-11 8S-7.5-8.5	96	123	102
680-58954-11	WGK-BIGMO-ISA-10 1S-7.5-8.5	0D	0D	0D
MB 680-173601/8		91	82	116
MB 680-173764/6		101	106	104
LCS 680-173601/6		78	86	99
LCS 680-173764/4		94	105	95
LCSD 680-173601/7		83	86	107
LCSD 680-173764/5		99	122	101

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	65-124
DBFM = Dibromofluoromethane	65-124
TOL = Toluene-d8 (Surr)	65-132

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Surrogate Recovery Report**

**8260B Volatile Organic Compounds (GC/MS)**

**Client Matrix: Waste**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58954-1	WGK-GWA-GWA-7-1 2-W	99	106	102
680-58954-4	WGK-GWC-GWC-7- 12-W	96	108	103
680-58954-5	WGK-GWD-GWD-7- 12-W	95	110	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	50-150
DBFM = Dibromofluoromethane	50-150
TOL = Toluene-d8 (Surr)	50-150

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

### Surrogate Recovery Report

#### 8260B Volatile Organic Compounds (GC/MS)

##### Client Matrix: Waste

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
LCSD 680-173277/6		103	108	104

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Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Surrogate Recovery Report**

**8260B Volatile Organic Compounds (GC/MS)**

**Client Matrix: Water**

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
680-58954-2	WGK-GWA-GWB-7-1 2-W	96	109	101
680-58954-3	WGK-GWB-GWB-7-1 2-W	97	105	102
680-58954-6	Trip Blank	96	111	102
680-58954-12	Trip Blank	97	112	101
MB 680-173165/14		97	112	102
MB 680-173277/8		96	110	102
MB 680-173362/22		104	115	103
LCS 680-173165/4		102	111	104
LCS 680-173277/5		102	112	102
LCS 680-173362/19		93	107	109
LCSD 680-173165/5		101	110	103
LCSD 680-173362/20		94	108	109
680-58954-3 MS	WGK-GWB-GWB-7-1 2-W MS	100	105	104
680-58954-3 MSD	WGK-GWB-GWB-7-1 2-W MSD	95	108	113

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	75-120
DBFM = Dibromofluoromethane	75-121
TOL = Toluene-d8 (Surr)	75-120

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Surrogate Recovery Report**

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

**Client Matrix: Water**

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec	TBP %Rec
680-58954-2	WGK-GWA-GWB-7-1 2-W	49X	55	61	63	12	70
680-58954-3	WGK-GWB-GWB-7-1 2-W	22X	57	60	68	10	55
MB 680-173237/6-A		88	67	81	72	91	90
LCS 680-173237/7-A		91	66	74	75	93	95
680-58954-3 MS	WGK-GWB-GWB-7-1 2-W MS	44X	57	67	64	9X	81
680-58954-3 MSD	WGK-GWB-GWB-7-1 2-W MSD	23X	53	67	71	5X	71

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Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	50-113
2FP = 2-Fluorophenol	36-110
NBZ = Nitrobenzene-d5	45-112
PHL = Phenol-d5	38-116
TPH = Terphenyl-d14	10-121
TBP = 2,4,6-Tribromophenol	40-139

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TPH %Rec	FBP %Rec	NBZ %Rec
680-58954-14	WGK-GWA-GWA-7-1 2-W	11	46X	64
680-58954-15	WGK-GWC-GWC-7- 12-W	0D	0D	0D
680-58954-16	WGK-GWD-GWD-7- 12-W	0D	0D	0D

Surrogate	Acceptance Limits
TPH = Terphenyl-d14	10-121
FBP = 2-Fluorobiphenyl	50-113
NBZ = Nitrobenzene-d5	45-112

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Method Blank - Batch: 680-173165**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: MB 680-173165/14

Analysis Batch: 680-173165

Instrument ID: MSO

Client Matrix: Water

Prep Batch: N/A

Lab File ID: oq253.d

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 07/01/2010 1153

Final Weight/Volume: 5 mL

Date Prepared: 07/01/2010 1153

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
1,3-Dichlorobenzene	1.0	U	0.25	1.0
1,4-Dichlorobenzene	1.0	U	0.28	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Method Blank - Batch: 680-173165**

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: MB 680-173165/14  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2010 1153  
Date Prepared: 07/01/2010 1153

Analysis Batch: 680-173165  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq253.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	75 - 120
Dibromofluoromethane	112	75 - 121
Toluene-d8 (Surr)	102	75 - 120

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173165**

**Method: 8260B  
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-173165/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2010 0950  
Date Prepared: 07/01/2010 0950

Analysis Batch: 680-173165  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq245.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173165/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2010 1019  
Date Prepared: 07/01/2010 1019

Analysis Batch: 680-173165  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq247.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acetone	106	100	17 - 175	5	50		
Benzene	101	101	77 - 119	0	30		
Bromoform	101	101	62 - 133	0	30		
Bromomethane	62	68	12 - 184	8	50		
2-Butanone (MEK)	95	92	33 - 157	3	30		
Carbon disulfide	115	116	55 - 131	0	30		
Carbon tetrachloride	106	105	71 - 135	1	30		
Chlorobenzene	101	99	85 - 116	2	30		
Chloroethane	157	158	40 - 165	1	50		
Chloroform	107	106	82 - 120	1	30		
Chloromethane	85	83	48 - 142	2	50		
Chlorodibromomethane	105	101	75 - 133	3	30		
1,2-Dibromo-3-Chloropropane	91	91	49 - 140	0	30		
Dibromomethane	98	98	78 - 119	1	30		
1,2-Dichlorobenzene	97	96	79 - 124	1	30		
1,3-Dichlorobenzene	100	99	78 - 125	1	30		
1,4-Dichlorobenzene	99	98	81 - 122	1	30		
Dichlorobromomethane	101	101	78 - 127	0	30		
Dichlorodifluoromethane	115	116	34 - 154	1	30		
1,1-Dichloroethane	111	110	74 - 127	1	30		
1,2-Dichloroethane	92	93	66 - 132	1	30		
1,1-Dichloroethene	111	113	62 - 141	2	30		
1,2-Dichloropropane	102	102	73 - 124	0	30		
cis-1,3-Dichloropropene	104	104	76 - 126	0	30		
Ethylene Dibromide	100	100	80 - 121	0	30		
Ethylbenzene	102	100	86 - 116	2	30		
2-Hexanone	86	85	34 - 161	1	30		
Methylene Chloride	124	123	70 - 125	0	30		
4-Methyl-2-pentanone (MIBK)	85	86	40 - 151	1	30		
Styrene	98	98	82 - 122	0	30		
1,1,1,2-Tetrachloroethane	104	102	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	91	90	69 - 129	1	30		
Tetrachloroethene	99	98	76 - 126	0	30		

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**Quality Control Results**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173165**

**Method: 8260B  
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-173165/4  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2010 0950  
Date Prepared: 07/01/2010 0950

Analysis Batch: 680-173165  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq245.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173165/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2010 1019  
Date Prepared: 07/01/2010 1019

Analysis Batch: 680-173165  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq247.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Toluene	102	102	81 - 117	0	30		
trans-1,2-Dichloroethene	111	112	72 - 131	0	30		
trans-1,3-Dichloropropene	102	101	73 - 128	1	30		
1,1,1-Trichloroethane	102	103	76 - 127	0	30		
1,1,2-Trichloroethane	97	95	75 - 121	2	30		
Trichloroethene	99	100	84 - 115	1	30		
Trichlorofluoromethane	93	92	58 - 149	1	50		
1,2,3-Trichloropropane	91	90	70 - 130	2	30		
Vinyl acetate	109	108	10 - 217	1	30		
Vinyl chloride	86	85	59 - 144	1	50		
Xylenes, Total	99	98	84 - 118	1	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	102		101		75 - 120		
Dibromofluoromethane	111		110		75 - 121		
Toluene-d8 (Surr)	104		103		75 - 120		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Method Blank - Batch: 680-173277**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: MB 680-173277/8

Analysis Batch: 680-173277

Instrument ID: MSO

Client Matrix: Water

Prep Batch: N/A

Lab File ID: oq270.d

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 07/02/2010 1154

Final Weight/Volume: 5 mL

Date Prepared: 07/02/2010 1154

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
1,3-Dichlorobenzene	1.0	U	0.25	1.0
1,4-Dichlorobenzene	1.0	U	0.28	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	5.0	U	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0

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**Quality Control Results**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Method Blank - Batch: 680-173277**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: MB 680-173277/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 1154  
Date Prepared: 07/02/2010 1154

Analysis Batch: 680-173277  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq270.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	96	75 - 120
Dibromofluoromethane	110	75 - 121
Toluene-d8 (Surr)	102	75 - 120

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173277**

**Method: 8260B  
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-173277/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 1002  
Date Prepared: 07/02/2010 1002

Analysis Batch: 680-173277  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq266.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173277/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 1052  
Date Prepared: N/A

Analysis Batch: 680-173277  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq267.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acetone	99	110	17 - 175	11	50		
Benzene	101	102	77 - 119	0	30		
Bromoform	100	105	62 - 133	4	30		
Bromomethane	80	75	12 - 184	7	50		
2-Butanone (MEK)	94	98	33 - 157	4	30		
Carbon disulfide	114	112	55 - 131	2	30		
Carbon tetrachloride	104	106	71 - 135	2	30		
Chlorobenzene	101	103	85 - 116	2	30		
Chloroethane	101	159	40 - 165	45	50		
Chloroform	107	105	82 - 120	2	30		
Chloromethane	88	80	48 - 142	9	50		
Chlorodibromomethane	103	106	75 - 133	3	30		
1,2-Dibromo-3-Chloropropane	92	96	49 - 140	4	30		
Dibromomethane	96	98	78 - 119	2	30		
1,2-Dichlorobenzene	96	100	79 - 124	4	30		
1,3-Dichlorobenzene	99	102	78 - 125	3	30		
1,4-Dichlorobenzene	98	101	81 - 122	2	30		
Dichlorobromomethane	100	103	78 - 127	2	30		
Dichlorodifluoromethane	115	111	34 - 154	3	30		
1,1-Dichloroethane	112	108	74 - 127	4	30		
1,2-Dichloroethane	91	94	66 - 132	3	30		
1,1-Dichloroethene	108	108	62 - 141	0	30		
1,2-Dichloropropane	101	101	73 - 124	0	30		
cis-1,3-Dichloropropene	101	109	76 - 126	7	30		
Ethylene Dibromide	98	101	80 - 121	3	30		
Ethylbenzene	102	104	86 - 116	1	30		
2-Hexanone	85	89	34 - 161	4	30		
Methylene Chloride	123	121	70 - 125	2	30		
4-Methyl-2-pentanone (MIBK)	85	90	40 - 151	6	30		
Styrene	100	101	82 - 122	1	30		
1,1,1,2-Tetrachloroethane	104	105	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	88	95	69 - 129	8	30		
Tetrachloroethene	100	98	76 - 126	2	30		

**Quality Control Results**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173277**

**Method: 8260B  
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-173277/5  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 1002  
Date Prepared: 07/02/2010 1002

Analysis Batch: 680-173277  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq266.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173277/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 1052  
Date Prepared: N/A

Analysis Batch: 680-173277  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSO  
Lab File ID: oq267.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Toluene	101	102	81 - 117	2	30		
trans-1,2-Dichloroethene	111	106	72 - 131	5	30		
trans-1,3-Dichloropropene	98	103	73 - 128	5	30		
1,1,1-Trichloroethane	102	102	76 - 127	0	30		
1,1,2-Trichloroethane	94	98	75 - 121	4	30		
Trichloroethene	98	98	84 - 115	0	30		
Trichlorofluoromethane	91	93	58 - 149	2	50		
1,2,3-Trichloropropane	91	98	70 - 130	8	30		
Vinyl acetate	109	114	10 - 217	5	30		
Vinyl chloride	84	83	59 - 144	2	50		
Xylenes, Total	100	100	84 - 118	0	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	102		103		75 - 120		
Dibromofluoromethane	112		108		75 - 121		
Toluene-d8 (Surr)	102		104		75 - 120		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Method Blank - Batch: 680-173362**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: MB 680-173362/22

Analysis Batch: 680-173362

Instrument ID: MSA2

Client Matrix: Water

Prep Batch: N/A

Lab File ID: aq351.d

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 07/02/2010 2133

Final Weight/Volume: 5 mL

Date Prepared: 07/02/2010 2133

Analyte	Result	Qual	MDL	RL
Acetone	25	U	5.0	25
Acetonitrile	40	U	10	40
Acrolein	20	U	7.4	20
Acrylonitrile	20	U	7.2	20
Benzene	1.0	U	0.25	1.0
Bromoform	1.0	U	0.50	1.0
Bromomethane	1.0	U	0.80	1.0
2-Butanone (MEK)	10	U	1.0	10
Carbon disulfide	2.0	U	0.60	2.0
Carbon tetrachloride	1.0	U	0.50	1.0
Chlorobenzene	1.0	U	0.25	1.0
2-Chloro-1,3-butadiene	1.0	U	0.30	1.0
Chloroethane	1.0	U	1.0	1.0
Chloroform	1.0	U	0.14	1.0
Chloromethane	1.0	U	0.33	1.0
3-Chloro-1-propene	1.0	U	0.20	1.0
Chlorodibromomethane	1.0	U	0.10	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.44	1.0
Dibromomethane	1.0	U	0.20	1.0
1,2-Dichlorobenzene	1.0	U	0.21	1.0
1,3-Dichlorobenzene	1.0	U	0.25	1.0
1,4-Dichlorobenzene	1.0	U	0.28	1.0
Dichlorobromomethane	1.0	U	0.25	1.0
Dichlorodifluoromethane	1.0	U	0.25	1.0
1,1-Dichloroethane	1.0	U	0.25	1.0
1,2-Dichloroethane	1.0	U	0.10	1.0
1,1-Dichloroethene	1.0	U	0.11	1.0
1,2-Dichloropropane	1.0	U	0.13	1.0
cis-1,3-Dichloropropene	1.0	U	0.11	1.0
Ethylene Dibromide	1.0	U	0.25	1.0
Ethylbenzene	1.0	U	0.11	1.0
Ethyl methacrylate	1.0	U	0.25	1.0
2-Hexanone	10	U	1.0	10
Iodomethane	2.33	J	1.0	5.0
Isobutyl alcohol	40	U	11	40
Methacrylonitrile	20	U	3.3	20
Methylene Chloride	5.0	U	1.0	5.0
Methyl methacrylate	1.0	U	0.48	1.0
4-Methyl-2-pentanone (MIBK)	10	U	1.0	10
Pentachloroethane	5.0	U	1.2	5.0
Propionitrile	20	U	4.6	20
Styrene	1.0	U	0.11	1.0
1,1,1,2-Tetrachloroethane	1.0	U	0.33	1.0

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KXS026

**Method Blank - Batch: 680-173362**

**Method: 8260B**

**Preparation: 5030B**

Lab Sample ID: MB 680-173362/22

Analysis Batch: 680-173362

Instrument ID: MSA2

Client Matrix: Water

Prep Batch: N/A

Lab File ID: aq351.d

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 07/02/2010 2133

Final Weight/Volume: 5 mL

Date Prepared: 07/02/2010 2133

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	1.0	U	0.18	1.0
Tetrachloroethene	1.0	U	0.15	1.0
Toluene	1.0	U	0.33	1.0
trans-1,4-Dichloro-2-butene	2.0	U	0.50	2.0
trans-1,2-Dichloroethene	1.0	U	0.20	1.0
trans-1,3-Dichloropropene	1.0	U	0.21	1.0
1,1,1-Trichloroethane	1.0	U	0.50	1.0
1,1,2-Trichloroethane	1.0	U	0.13	1.0
Trichloroethene	1.0	U	0.13	1.0
Trichlorofluoromethane	1.0	U	0.25	1.0
1,2,3-Trichloropropane	1.0	U	0.41	1.0
Vinyl acetate	2.0	U	0.28	2.0
Vinyl chloride	1.0	U	0.18	1.0
Xylenes, Total	2.0	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	104	75 - 120
Dibromofluoromethane	115	75 - 121
Toluene-d8 (Surr)	103	75 - 120

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173362**

**Method: 8260B  
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-173362/19  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 2005  
Date Prepared: 07/02/2010 2005

Analysis Batch: 680-173362  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSA2  
Lab File ID: aq347.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173362/20  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 2027  
Date Prepared: 07/02/2010 2027

Analysis Batch: 680-173362  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSA2  
Lab File ID: aq348.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acetone	95	93	17 - 175	1	50		
Benzene	100	102	77 - 119	2	30		
Bromoform	98	101	62 - 133	3	30		
Bromomethane	105	123	12 - 184	15	50		
2-Butanone (MEK)	114	110	33 - 157	4	30		
Carbon disulfide	123	101	55 - 131	19	30		
Carbon tetrachloride	90	90	71 - 135	0	30		
Chlorobenzene	96	97	85 - 116	2	30		
Chloroethane	145	131	40 - 165	10	50		
Chloroform	109	107	82 - 120	2	30		
Chloromethane	131	124	48 - 142	6	50		
Chlorodibromomethane	85	90	75 - 133	5	30		
1,2-Dibromo-3-Chloropropane	81	83	49 - 140	3	30		
Dibromomethane	97	101	78 - 119	4	30		
1,2-Dichlorobenzene	88	91	79 - 124	4	30		
1,3-Dichlorobenzene	89	91	78 - 125	2	30		
1,4-Dichlorobenzene	89	91	81 - 122	3	30		
Dichlorobromomethane	92	95	78 - 127	3	30		
Dichlorodifluoromethane	113	103	34 - 154	9	30		
1,1-Dichloroethane	111	104	74 - 127	7	30		
1,2-Dichloroethane	94	95	66 - 132	1	30		
1,1-Dichloroethene	106	100	62 - 141	6	30		
1,2-Dichloropropane	98	98	73 - 124	0	30		
cis-1,3-Dichloropropene	93	92	76 - 126	1	30		
Ethylene Dibromide	97	98	80 - 121	1	30		
Ethylbenzene	90	93	86 - 116	3	30		
2-Hexanone	92	96	34 - 161	4	30		
Methylene Chloride	125	123	70 - 125	1	30		
4-Methyl-2-pentanone (MIBK)	108	105	40 - 151	2	30		
Styrene	96	98	82 - 122	2	30		
1,1,1,2-Tetrachloroethane	87	88	81 - 128	1	30		
1,1,2,2-Tetrachloroethane	102	103	69 - 129	1	30		
Tetrachloroethene	99	101	76 - 126	2	30		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173362**

**Method: 8260B  
Preparation: 5030B**

LCS Lab Sample ID: LCS 680-173362/19  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 2005  
Date Prepared: 07/02/2010 2005

Analysis Batch: 680-173362  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSA2  
Lab File ID: aq347.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173362/20  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2010 2027  
Date Prepared: 07/02/2010 2027

Analysis Batch: 680-173362  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MSA2  
Lab File ID: aq348.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Toluene	103	103	81 - 117	1	30		
trans-1,2-Dichloroethene	109	107	72 - 131	2	30		
trans-1,3-Dichloropropene	101	103	73 - 128	2	30		
1,1,1-Trichloroethane	99	99	76 - 127	0	30		
1,1,2-Trichloroethane	100	104	75 - 121	4	30		
Trichloroethene	96	97	84 - 115	1	30		
Trichlorofluoromethane	110	104	58 - 149	5	50		
1,2,3-Trichloropropane	97	98	70 - 130	0	30		
Vinyl acetate	129	127	10 - 217	2	30		
Vinyl chloride	113	111	59 - 144	2	50		
Xylenes, Total	95	97	84 - 118	2	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	93		94		75 - 120		
Dibromofluoromethane	107		108		75 - 121		
Toluene-d8 (Surr)	109		109		75 - 120		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 680-173362**

**Method: 8260B  
Preparation: 5030B**

MS Lab Sample ID: 680-58954-3  
Client Matrix: Water  
Dilution: 5000  
Date Analyzed: 07/02/2010 2013  
Date Prepared: 07/02/2010 2013

Analysis Batch: 680-173277  
Prep Batch: N/A

Instrument ID: MSO  
Lab File ID: o0560.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 680-58954-3  
Client Matrix: Water  
Dilution: 5000  
Date Analyzed: 07/03/2010 0254  
Date Prepared: 07/03/2010 0254

Analysis Batch: 680-173362  
Prep Batch: N/A

Instrument ID: MSA2  
Lab File ID: a094.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Acetone	141	102	17 - 175	32	50		
Benzene	122	12	77 - 119	25	30	E F	
Bromoform	99	100	62 - 133	1	30		
Bromomethane	99	133	12 - 184	29	50		
2-Butanone (MEK)	92	110	33 - 157	18	30		
Carbon disulfide	164	117	55 - 131	34	30	F	
Carbon tetrachloride	103	95	71 - 135	9	30		
Chlorobenzene	99	86	85 - 116	9	30		
Chlorodibromomethane	102	91	75 - 133	11	30		
Chloroethane	147	131	40 - 165	11	50		
Chloroform	101	108	82 - 120	6	30		
Chloromethane	87	120	48 - 142	32	50		
cis-1,3-Dichloropropene	101	97	76 - 126	3	30		
1,2-Dibromo-3-Chloropropane	97	77	49 - 140	22	30		
Dibromomethane	97	105	78 - 119	8	30		
1,2-Dichlorobenzene	96	91	79 - 124	5	30		
1,3-Dichlorobenzene	99	91	78 - 125	8	30		
1,4-Dichlorobenzene	97	92	81 - 122	5	30		
Dichlorobromomethane	100	98	78 - 127	3	30		
Dichlorodifluoromethane	113	104	34 - 154	8	30		
1,1-Dichloroethane	100	105	74 - 127	5	30		
1,2-Dichloroethane	102	100	66 - 132	2	30		
1,1-Dichloroethene	194	101	62 - 141	63	30	F	
1,2-Dichloropropane	102	102	73 - 124	0	30		
Ethylbenzene	102	93	86 - 116	9	30		
Ethylene Dibromide	101	101	80 - 121	0	30		
2-Hexanone	88	92	34 - 161	5	30		
Methylene Chloride	174	125	70 - 125	33	30	F	
4-Methyl-2-pentanone (MIBK)	90	107	40 - 151	18	30		
Styrene	97	99	82 - 122	2	30		

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**Quality Control Results**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 680-173362**

**Method: 8260B  
Preparation: 5030B**

MS Lab Sample ID: 680-58954-3  
Client Matrix: Water  
Dilution: 5000  
Date Analyzed: 07/02/2010 2013  
Date Prepared: 07/02/2010 2013

Analysis Batch: 680-173277  
Prep Batch: N/A

Instrument ID: MSO  
Lab File ID: o0560.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 680-58954-3  
Client Matrix: Water  
Dilution: 5000  
Date Analyzed: 07/03/2010 0254  
Date Prepared: 07/03/2010 0254

Analysis Batch: 680-173362  
Prep Batch: N/A

Instrument ID: MSA2  
Lab File ID: a094.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1,2-Tetrachloroethane	101	88	81 - 128	14	30		
1,1,2,2-Tetrachloroethane	90	104	69 - 129	14	30		
Tetrachloroethene	96	102	76 - 126	6	30		
Toluene	104	105	81 - 117	1	30		
trans-1,2-Dichloroethene	94	105	72 - 131	11	30		
trans-1,3-Dichloropropene	96	104	73 - 128	8	30		
1,1,1-Trichloroethane	102	103	76 - 127	1	30		
1,1,2-Trichloroethane	98	108	75 - 121	10	30		
Trichloroethene	100	99	84 - 115	1	30		
Trichlorofluoromethane	94	108	58 - 149	14	50		
1,2,3-Trichloropropane	95	96	70 - 130	2	30		
Vinyl acetate	87	119	10 - 217	31	30		
Vinyl chloride	88	108	59 - 144	20	50		
Xylenes, Total	98	98	84 - 118	1	30		
Surrogate		MS % Rec	MSD % Rec		Acceptance Limits		
4-Bromofluorobenzene		100	95		75 - 120		
Dibromofluoromethane		105	108		75 - 121		
Toluene-d8 (Surr)		104	113		75 - 120		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Method Blank - Batch: 680-173601**

**Method: 8260B**

**Preparation: N/A**

Lab Sample ID: MB 680-173601/8

Analysis Batch: 680-173601

Instrument ID: MSM

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: mq166.d

Dilution: 40

Units: ug/Kg

Initial Weight/Volume: 5 g

Date Analyzed: 07/08/2010 1140

Final Weight/Volume: 5 mL

Date Prepared: N/A

Analyte	Result	Qual	MDL	RL
Acetone	2000	U	440	2000
Acetonitrile	8000	U	1600	8000
Acrolein	4000	U	960	4000
Acrylonitrile	4000	U	1400	4000
Benzene	200	U	29	200
Bromoform	200	U	60	200
Bromomethane	200	U	60	200
2-Butanone (MEK)	1000	U	96	1000
Carbon disulfide	200	U	44	200
Carbon tetrachloride	200	U	33	200
Chlorobenzene	200	U	38	200
2-Chloro-1,3-butadiene	200	U	84	200
Chloroethane	200	U	110	200
Chloroform	200	U	44	200
Chloromethane	200	U	40	200
3-Chloro-1-propene	200	U	88	200
Chlorodibromomethane	200	U	68	200
1,2-Dibromo-3-Chloropropane	400	U	180	400
Dibromomethane	200	U	68	200
1,2-Dichlorobenzene	200	U	52	200
1,3-Dichlorobenzene	200	U	64	200
1,4-Dichlorobenzene	200	U	30	200
Dichlorobromomethane	200	U	39	200
Dichlorodifluoromethane	200	U	38	200
1,1-Dichloroethane	200	U	44	200
1,2-Dichloroethane	200	U	44	200
1,1-Dichloroethene	200	U	60	200
1,2-Dichloropropane	200	U	34	200
cis-1,3-Dichloropropene	200	U	33	200
Ethylene Dibromide	200	U	60	200
Ethylbenzene	200	U	52	200
Ethyl methacrylate	200	U	140	200
2-Hexanone	1000	U	130	1000
Iodomethane	200	U	72	200
Isobutyl alcohol	8000	U	2100	8000
Methacrylonitrile	4000	U	920	4000
Methylene Chloride	200	U	39	200
Methyl methacrylate	400	U	180	400
4-Methyl-2-pentanone (MIBK)	1000	U	170	1000
Pentachloroethane	1000	U	250	1000
Propionitrile	4000	U	1000	4000
Styrene	200	U	37	200
1,1,1,2-Tetrachloroethane	200	U	96	200

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**Quality Control Results**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Method Blank - Batch: 680-173601**

**Method: 8260B**  
**Preparation: N/A**

Lab Sample ID: MB 680-173601/8  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/08/2010 1140  
Date Prepared: N/A

Analysis Batch: 680-173601  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq166.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	200	U	64	200
Tetrachloroethene	200	U	76	200
Toluene	200	U	34	200
trans-1,4-Dichloro-2-butene	400	U	120	400
trans-1,2-Dichloroethene	200	U	25	200
trans-1,3-Dichloropropene	200	U	35	200
1,1,1-Trichloroethane	200	U	24	200
1,1,2-Trichloroethane	200	U	52	200
Trichloroethene	200	U	52	200
Trichlorofluoromethane	200	U	48	200
1,2,3-Trichloropropane	200	U	96	200
Vinyl acetate	400	U	100	400
Vinyl chloride	200	U	60	200
Xylenes, Total	400	U	44	400

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	91	65 - 124
Dibromofluoromethane	82	65 - 124
Toluene-d8 (Surr)	116	65 - 132

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173601**

**Method: 8260B  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-173601/6  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/08/2010 1015  
Date Prepared: N/A

Analysis Batch: 680-173601  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq163.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173601/7  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/08/2010 1036  
Date Prepared: N/A

Analysis Batch: 680-173601  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq164.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acetone	61	69	16 - 202	11	50		
Benzene	109	108	63 - 130	1	50		
Bromoform	78	80	66 - 127	3	50		
Bromomethane	66	75	54 - 146	12	50		
2-Butanone (MEK)	73	82	19 - 192	11	50		
Carbon disulfide	77	84	46 - 134	8	50		
Carbon tetrachloride	89	86	60 - 136	4	50		
Chlorobenzene	85	87	77 - 120	2	50		
Chloroethane	37	42	26 - 166	12	50		
Chloroform	79	90	68 - 127	13	50		
Chloromethane	84	92	46 - 137	9	50		
Chlorodibromomethane	90	93	70 - 126	3	50		
1,2-Dibromo-3-Chloropropane	69	76	62 - 140	9	50		
Dibromomethane	90	97	61 - 138	7	50		
1,2-Dichlorobenzene	71	77	75 - 123	8	50	*	
1,3-Dichlorobenzene	85	89	74 - 123	4	50		
1,4-Dichlorobenzene	73	78	75 - 122	8	50	*	
Dichlorobromomethane	99	105	64 - 137	6	50		
Dichlorodifluoromethane	96	107	17 - 163	10	50		
1,1-Dichloroethane	76	84	65 - 130	9	50		
1,2-Dichloroethane	93	92	62 - 140	1	50		
1,1-Dichloroethene	69	79	59 - 137	13	50		
1,2-Dichloropropane	99	98	66 - 135	1	50		
cis-1,3-Dichloropropene	90	101	66 - 137	11	50		
Ethylene Dibromide	111	109	61 - 138	1	50		
Ethylbenzene	81	88	77 - 121	8	50		
2-Hexanone	77	82	47 - 151	6	50		
Methylene Chloride	77	81	65 - 126	5	50		
4-Methyl-2-pentanone (MIBK)	96	110	50 - 148	14	50		
Styrene	82	79	75 - 123	4	50		
1,1,1,2-Tetrachloroethane	82	90	72 - 124	9	50		
1,1,2,2-Tetrachloroethane	84	87	65 - 130	4	50		
Tetrachloroethene	81	86	76 - 120	6	50		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173601**

**Method: 8260B  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-173601/6  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/08/2010 1015  
Date Prepared: N/A

Analysis Batch: 680-173601  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq163.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173601/7  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/08/2010 1036  
Date Prepared: N/A

Analysis Batch: 680-173601  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq164.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Toluene	102	107	67 - 132	5	50		
trans-1,2-Dichloroethene	76	82	66 - 127	8	50		
trans-1,3-Dichloropropene	95	104	64 - 138	9	50		
1,1,1-Trichloroethane	103	100	56 - 140	3	50		
1,1,2-Trichloroethane	108	114	62 - 138	6	50		
Trichloroethene	90	92	68 - 133	3	50		
Trichlorofluoromethane	75	86	33 - 152	13	50		
1,2,3-Trichloropropane	88	96	65 - 132	8	50		
Vinyl acetate	71	78	10 - 254	9	50		
Vinyl chloride	80	90	56 - 139	11	50		
Xylenes, Total	83	82	76 - 122	0	50		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	78		83		65 - 124		
Dibromofluoromethane	86		86		65 - 124		
Toluene-d8 (Surr)	99		107		65 - 132		

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Method Blank - Batch: 680-173764**

**Method: 8260B**

**Preparation: N/A**

Lab Sample ID: MB 680-173764/6

Analysis Batch: 680-173764

Instrument ID: MSM

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: mq185.d

Dilution: 40

Units: ug/Kg

Initial Weight/Volume: 5 g

Date Analyzed: 07/09/2010 1829

Final Weight/Volume: 5 mL

Date Prepared: N/A

Analyte	Result	Qual	MDL	RL
Acetone	2000	U	440	2000
Acetonitrile	8000	U	1600	8000
Acrolein	4000	U	960	4000
Acrylonitrile	4000	U	1400	4000
Benzene	200	U	29	200
Bromoform	200	U	60	200
Bromomethane	200	U	60	200
2-Butanone (MEK)	1000	U	96	1000
Carbon disulfide	200	U	44	200
Carbon tetrachloride	200	U	33	200
Chlorobenzene	200	U	38	200
2-Chloro-1,3-butadiene	200	U	84	200
Chloroethane	200	U	110	200
Chloroform	200	U	44	200
Chloromethane	200	U	40	200
3-Chloro-1-propene	200	U	88	200
Chlorodibromomethane	200	U	68	200
1,2-Dibromo-3-Chloropropane	400	U	180	400
Dibromomethane	200	U	68	200
1,2-Dichlorobenzene	200	U	52	200
1,3-Dichlorobenzene	200	U	64	200
1,4-Dichlorobenzene	200	U	30	200
Dichlorobromomethane	200	U	39	200
Dichlorodifluoromethane	200	U	38	200
1,1-Dichloroethane	200	U	44	200
1,2-Dichloroethane	200	U	44	200
1,1-Dichloroethene	200	U	60	200
1,2-Dichloropropane	200	U	34	200
cis-1,3-Dichloropropene	200	U	33	200
Ethylene Dibromide	200	U	60	200
Ethylbenzene	200	U	52	200
Ethyl methacrylate	200	U	140	200
2-Hexanone	1000	U	130	1000
Iodomethane	200	U	72	200
Isobutyl alcohol	8000	U	2100	8000
Methacrylonitrile	4000	U	920	4000
Methylene Chloride	200	U	39	200
Methyl methacrylate	400	U	180	400
4-Methyl-2-pentanone (MIBK)	1000	U	170	1000
Pentachloroethane	1000	U	250	1000
Propionitrile	4000	U	1000	4000
Styrene	200	U	37	200
1,1,1,2-Tetrachloroethane	200	U	96	200

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**Quality Control Results**

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Method Blank - Batch: 680-173764**

**Method: 8260B  
Preparation: N/A**

Lab Sample ID: MB 680-173764/6  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/09/2010 1829  
Date Prepared: N/A

Analysis Batch: 680-173764  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq185.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,2,2-Tetrachloroethane	200	U	64	200
Tetrachloroethene	200	U	76	200
Toluene	200	U	34	200
trans-1,4-Dichloro-2-butene	400	U	120	400
trans-1,2-Dichloroethene	200	U	25	200
trans-1,3-Dichloropropene	200	U	35	200
1,1,1-Trichloroethane	200	U	24	200
1,1,2-Trichloroethane	200	U	52	200
Trichloroethene	200	U	52	200
Trichlorofluoromethane	200	U	48	200
1,2,3-Trichloropropane	200	U	96	200
Vinyl acetate	400	U	100	400
Vinyl chloride	200	U	60	200
Xylenes, Total	400	U	44	400

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	65 - 124
Dibromofluoromethane	106	65 - 124
Toluene-d8 (Surr)	104	65 - 132

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## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173764**

**Method: 8260B  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-173764/4  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/09/2010 1726  
Date Prepared: N/A

Analysis Batch: 680-173764  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq183.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173764/5  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/09/2010 1747  
Date Prepared: N/A

Analysis Batch: 680-173764  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq184.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Acetone	109	122	16 - 202	11	50		
Benzene	118	117	63 - 130	1	50		
Bromoform	105	105	66 - 127	0	50		
Bromomethane	91	105	54 - 146	14	50		
2-Butanone (MEK)	123	131	19 - 192	7	50		
Carbon disulfide	110	121	46 - 134	10	50		
Carbon tetrachloride	88	98	60 - 136	11	50		
Chlorobenzene	103	107	77 - 120	4	50		
Chloroethane	53	56	26 - 166	4	50		
Chloroform	96	109	68 - 127	13	50		
Chloromethane	100	114	46 - 137	13	50		
Chlorodibromomethane	105	107	70 - 126	2	50		
1,2-Dibromo-3-Chloropropane	120	123	62 - 140	2	50		
Dibromomethane	93	100	61 - 138	7	50		
1,2-Dichlorobenzene	108	113	75 - 123	5	50		
1,3-Dichlorobenzene	99	102	74 - 123	4	50		
1,4-Dichlorobenzene	105	109	75 - 122	4	50		
Dichlorobromomethane	94	98	64 - 137	4	50		
Dichlorodifluoromethane	81	93	17 - 163	14	50		
1,1-Dichloroethane	104	118	65 - 130	12	50		
1,2-Dichloroethane	85	87	62 - 140	3	50		
1,1-Dichloroethene	114	125	59 - 137	9	50		
1,2-Dichloropropane	99	105	66 - 135	6	50		
cis-1,3-Dichloropropene	98	102	66 - 137	4	50		
Ethylene Dibromide	93	98	61 - 138	6	50		
Ethylbenzene	100	103	77 - 121	2	50		
2-Hexanone	123	117	47 - 151	6	50		
Methylene Chloride	102	113	65 - 126	10	50		
4-Methyl-2-pentanone (MIBK)	95	100	50 - 148	5	50		
Styrene	109	114	75 - 123	4	50		
1,1,1,2-Tetrachloroethane	103	114	72 - 124	11	50		
1,1,2,2-Tetrachloroethane	104	105	65 - 130	1	50		
Tetrachloroethene	114	111	76 - 120	3	50		

## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 680-173764**

**Method: 8260B  
Preparation: N/A**

LCS Lab Sample ID: LCS 680-173764/4  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/09/2010 1726  
Date Prepared: N/A

Analysis Batch: 680-173764  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq183.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-173764/5  
Client Matrix: Solid  
Dilution: 40  
Date Analyzed: 07/09/2010 1747  
Date Prepared: N/A

Analysis Batch: 680-173764  
Prep Batch: N/A  
Units: ug/Kg

Instrument ID: MSM  
Lab File ID: mq184.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Toluene	103	115	67 - 132	11	50		
trans-1,2-Dichloroethene	103	113	66 - 127	9	50		
trans-1,3-Dichloropropene	92	97	64 - 138	5	50		
1,1,1-Trichloroethane	88	99	56 - 140	12	50		
1,1,2-Trichloroethane	96	105	62 - 138	10	50		
Trichloroethene	100	104	68 - 133	4	50		
Trichlorofluoromethane	59	62	33 - 152	5	50		
1,2,3-Trichloropropane	113	117	65 - 132	3	50		
Vinyl acetate	97	107	10 - 254	9	50		
Vinyl chloride	115	124	56 - 139	8	50		
Xylenes, Total	102	105	76 - 122	3	50		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	94		99		65 - 124		
Dibromofluoromethane	105		122		65 - 124		
Toluene-d8 (Surr)	95		101		65 - 132		

US EPA ARCHIVE DOCUMENT

## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1

Sdg Number: KSX026

**Method Blank - Batch: 680-173237**

**Method: 8270C**

**Preparation: 3520C**

Lab Sample ID: MB 680-173237/6-A

Analysis Batch: 680-173492

Instrument ID: MST

Client Matrix: Water

Prep Batch: 680-173237

Lab File ID: t4602.d

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 1000 mL

Date Analyzed: 07/07/2010 0344

Final Weight/Volume: 1 mL

Date Prepared: 07/02/2010 1354

Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	0.76	10
Acenaphthylene	10	U	0.85	10
Anthracene	10	U	0.69	10
Benzo[a]anthracene	10	U	0.55	10
Benzo[a]pyrene	10	U	0.71	10
Benzo[b]fluoranthene	10	U	2.6	10
Benzo[g,h,i]perylene	10	U	0.87	10
Benzo[k]fluoranthene	10	U	1.2	10
Chrysene	10	U	0.51	10
Dibenz(a,h)anthracene	10	U	1.0	10
1,2-Dichlorobenzene	10	U	0.53	10
Fluoranthene	10	U	0.74	10
Fluorene	10	U	0.96	10
Indeno[1,2,3-cd]pyrene	10	U	1.0	10
2-Methylnaphthalene	10	U	0.78	10
1-Methylnaphthalene	10	U	0.67	10
Naphthalene	10	U	0.70	10
Phenanthrene	10	U	0.77	10
Pyrene	10	U	0.63	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	88	50 - 113
2-Fluorophenol	67	36 - 110
Nitrobenzene-d5	81	45 - 112
Phenol-d5	72	38 - 116
Terphenyl-d14	91	10 - 121
2,4,6-Tribromophenol	90	40 - 139

US EPA ARCHIVE DOCUMENT

## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Lab Control Sample - Batch: 680-173237**

**Method: 8270C**  
**Preparation: 3520C**

Lab Sample ID: LCS 680-173237/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2010 1707  
Date Prepared: 07/02/2010 1354

Analysis Batch: 680-173489  
Prep Batch: 680-173237  
Units: ug/L

Instrument ID: MST  
Lab File ID: t4620.d  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	100	83.2	83	45 - 117	
Acenaphthylene	100	94.1	94	51 - 112	
Anthracene	100	105	105	52 - 116	
Benzo[a]anthracene	100	97.8	98	49 - 124	
Benzo[a]pyrene	100	93.4	93	48 - 120	
Benzo[b]fluoranthene	100	87.3	87	46 - 126	
Benzo[g,h,i]perylene	100	81.4	81	51 - 117	
Benzo[k]fluoranthene	100	93.9	94	47 - 126	
Chrysene	100	106	106	51 - 123	
Dibenz(a,h)anthracene	100	92.5	92	46 - 124	
1,2-Dichlorobenzene	100	48.1	48	39 - 110	
Fluoranthene	100	102	102	50 - 120	
Fluorene	100	100	100	50 - 115	
Indeno[1,2,3-cd]pyrene	100	87.5	88	40 - 126	
2-Methylnaphthalene	100	75.6	76	46 - 110	
1-Methylnaphthalene	100	71.9	72	41 - 110	
Naphthalene	100	69.5	69	41 - 110	
Phenanthrene	100	102	102	52 - 117	
Pyrene	100	97.2	97	52 - 125	
Surrogate			% Rec	Acceptance Limits	
2-Fluorobiphenyl			91	50 - 113	
2-Fluorophenol			66	36 - 110	
Nitrobenzene-d5			74	45 - 112	
Phenol-d5			75	38 - 116	
Terphenyl-d14			93	10 - 121	
2,4,6-Tribromophenol			95	40 - 139	

US EPA ARCHIVE DOCUMENT

## Quality Control Results

Client: Solutia Inc.

Job Number: 680-58954-1  
Sdg Number: KSX026

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 680-173237**

**Method: 8270C  
Preparation: 3520C**

MS Lab Sample ID: 680-58954-3  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 07/07/2010 1931  
Date Prepared: 07/02/2010 1354

Analysis Batch: 680-173489  
Prep Batch: 680-173237

Instrument ID: MST  
Lab File ID: t4626.d  
Initial Weight/Volume: 1060 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

MSD Lab Sample ID: 680-58954-3  
Client Matrix: Water  
Dilution: 5.0  
Date Analyzed: 07/07/2010 1955  
Date Prepared: 07/02/2010 1354

Analysis Batch: 680-173489  
Prep Batch: 680-173237

Instrument ID: MST  
Lab File ID: t4627.d  
Initial Weight/Volume: 1060 mL  
Final Weight/Volume: 1 mL  
Injection Volume: 1 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Acenaphthene	33	19	45 - 117	54	40	J F	J F
Acenaphthylene	44	26	51 - 112	52	40	J F	J F
Anthracene	26	15	52 - 116	53	40	J F	J F
Benzo[a]anthracene	21	14	49 - 124	41	40	J F	J F
Benzo[a]pyrene	25	15	48 - 120	50	40	J F	J F
Benzo[b]fluoranthene	23	13	46 - 126	55	40	J F	J F
Benzo[g,h,i]perylene	22	14	51 - 117	43	40	J F	J F
Benzo[k]fluoranthene	27	17	47 - 126	44	40	J F	J F
Chrysene	25	15	51 - 123	52	40	J F	J F
Dibenz(a,h)anthracene	22	14	46 - 124	45	40	J F	J F
1,2-Dichlorobenzene	54	43	39 - 110	20	40		J
Fluoranthene	25	14	50 - 120	53	40	J F	J F
Fluorene	32	19	50 - 115	49	40	J F	J F
Indeno[1,2,3-cd]pyrene	23	14	40 - 126	50	40	J F	J F
2-Methylnaphthalene	32	20	46 - 110	48	40	J F	J F
1-Methylnaphthalene	24	13	41 - 110	34	40	J F	J F
Naphthalene	72	58	41 - 110	21	40		
Phenanthrene	29	17	52 - 117	55	40	J F	J F
Pyrene	21	12	52 - 125	55	40	J F	J F

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits	
2-Fluorobiphenyl	44	X	23	X	50 - 113	
2-Fluorophenol	57		53		36 - 110	
Nitrobenzene-d5	67		67		45 - 112	
Phenol-d5	64		71		38 - 116	
Terphenyl-d14	9	X	5	X	10 - 121	
2,4,6-Tribromophenol	81		71		40 - 139	

US EPA ARCHIVE DOCUMENT

030327

## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah  
5102 LaRoche Avenue  
Savannah, GA 31404

Website: www.testamericainc.com  
Phone: (912) 354-7858  
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:  
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS		PAGE	OF
				STANDARD REPORT DELIVERY	DATE DUE		
Solutia - xDD						1	2
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.					
Lidya Gwili Zia							
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX					
Scott Crawford	603-778-1100	603-778-2121					
CLIENT NAME	CLIENT E-MAIL	CLIENT FAX					
Solutia, Inc.	stanislawski@xdd-llc.com						
CLIENT ADDRESS							
575 Maryville Center Drive, Shiloh, MO							
COMPANY CONTRACTING THIS WORK (if applicable)							
SAMPLE IDENTIFICATION							
DATE	TIME	SAMPLE IDENTIFICATION		DATE	TIME	DATE	TIME
6/28/10	1455	WGK-GWA	GWA	3	2		
6/28/10	1510	WGK-GWA-GWB	GWA - 7-12-W	3	2		
6/28/10	1535	WGK-GWB	GWB - 7-12-W	9	6		
6/28/10	1610	WGK-GWC	GWC - 7-12-W	3	2		
6/28/10	1650	WGK-GWD	GWD - 7-12-W	3	2		
6/28/10		TRIP	Blank				
REMARKS							
MS/MSD							
PRESERVATIVE							
NONAQUEOUS LIQUID (OIL SOLVENT)							
AIR							
SOLID OR SEMISOLID							
AQUEOUS (WATER)							
COMPOSITE (OR GRAB (G) INDICATE)							
Appendix 9 List							
VOC 8260 B							
MS/MSD							
PAH 8270							
NUMBER OF CONTAINERS SUBMITTED							
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2							
RECEIVED BY: (SIGNATURE)							
DATE							
TIME							
RELINQUISHED BY: (SIGNATURE)							
DATE							
TIME							
RECEIVED BY: (SIGNATURE)							
DATE							
TIME							

LABORATORY USE ONLY			
RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>
George Koman	6/29/10	0930	
LABORATORY REMARKS			
4.6/5.0/4.4			
SAVANNAH LOG NO.		CUSTODY SEAL NO.	
680-5854			



## ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Website: www.testamericainc.com  
 Phone: (912) 354-7858  
 Fax: (912) 352-0165

TestAmerica Savannah  
 5102 LaRoche Avenue  
 Savannah, GA 31404

Alternate Laboratory Name/Location

Phone:  
 Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE) I/L	MATRIX TYPE	REQUIRED ANALYSIS	PAGE	OF
Solutia - XDD		IL			2	2
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	AQUEOUS (WATER)	STANDARD REPORT DELIVERY	DATE DUE	
Lidya Gulizic			SOLID OR SEMISOLID	EXPEDITED REPORT DELIVERY (SURCHARGE)	DATE DUE	
CLIENT(SITE) PM	CLIENT PHONE	CLIENT FAX	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF COOLERS SUBMITTED PER SHIPMENT	DATE DUE	
Softwater Scott Crawford	603-778-1100	603-778-2121	AIR			
CLIENT NAME	CLIENT E-MAIL	CLIENT FAX	COMPOSITE (C) OR GRAB (G) INDICATE			
Solutia, Inc	staniscowski@xdd-llc.com					
CLIENT ADDRESS						
575 Maryville Center Drive						
St. Louis, Mo						
COMPANY CONTRACTING THIS WORK (if applicable)						
SAMPLE IDENTIFICATION			REMARKS			
DATE	TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED			
6/28/10	1010	WGL-BIGMO-ISA-035-7.5-8-5	4			
6/28/10	1040	WGL-BIGMO-ISA-035-7.5-8-5	4			
6/28/10	1025	WGL-BIGMO-ISA-1025-7.5-8-5	4			
6/28/10	1035	WGL-BIGMO-ISA-1105-7.5-8-5	4			
6/28/10	1055	WGL-BIGMO-ISA-1015-7.5-8-5	4			
6/28/10		TRIP Blank				
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE
[Signature]			6/28/10	1800		
RECEIVED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE
[Signature]						

8250 B Appendix 9  
 List of Compounds  
 level 4 data validation

15 PRESERVATIVE

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[Signature]	6/28/10	0430	YES		630-58154	

## Login Sample Receipt Check List

Client: Solutia Inc.

Job Number: 680-58954-1

SDG Number: KSX026

**Login Number: 58954**

**List Source: TestAmerica Savannah**

**Creator: Conner, Keaton**

**List Number: 1**

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6, 5.0, 4.4 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	1 vial -1 and 2 vials each -4,-5 rec broken
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	N/A	
Sample Preservation Verified	True	