

# Analytical Report for

**EA Engineering**

**Certificate of Analysis No.: 10080325**

**Project Manager: Pete Lekas**

**Project Name : Gude Landfill**

**Project Location: Rockville, MD**

**Project ID : 6219608**



**August 12, 2010**

**Phase Separation Science, Inc.**

**6630 Baltimore National Pike**

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# PHASE SEPARATION SCIENCE, INC.



August 12, 2010

**Pete Lekas**  
**EA Engineering**  
15 Loveton Circle  
Sparks, MD 21152

Reference: PSS Work Order No: **10080325**  
Project Name : Gude Landfill  
Project Location: Rockville, MD  
Project ID.: 6219608

Dear Pete Lekas :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10080325**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 2, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or [info@phaseonline.com](mailto:info@phaseonline.com).

**Dan Prucnal**  
Laboratory Manager



# Case Narrative Summary

Client Name: EA Engineering

Project Name: Gude Landfill

Project ID: 6219608

Work Order Number: 10080325

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/03/2010 at 04:35 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10080325-001	Gude-ST015-SW	SURFACE WATER	08/03/2010 08:55
10080325-002	TB-41	WATER	08/03/2010 08:55
10080325-003	Gude-ST80-SW	SURFACE WATER	08/03/2010 09:20
10080325-004	TB-42	WATER	08/03/2010 09:20
10080325-005	Gude-SW4-SW	SURFACE WATER	08/03/2010 09:50
10080325-006	TB-40	WATER	08/03/2010 09:50
10080325-007	Gude-DUP5-SW	SURFACE WATER	08/03/2010 00:00
10080325-008	TB-49	WATER	08/03/2010 00:00
10080325-009	Gude-ST70-SW	SURFACE WATER	08/03/2010 11:15
10080325-010	TB-43	WATER	08/03/2010 11:15
10080325-011	Gude-SW5-SW	SURFACE WATER	08/03/2010 10:45
10080325-012	TB-46	WATER	08/03/2010 10:45
10080325-013	Gude-ST120-SW	SURFACE WATER	08/03/2010 12:00
10080325-014	TB-50	WATER	08/03/2010 12:00
10080325-015	Gude-SW1-SW	SURFACE WATER	08/03/2010 12:15
10080325-016	TB-47	WATER	08/03/2010 12:15
10080325-017	Gude-SW2-SW	SURFACE WATER	08/03/2010 12:30
10080325-018	TB-48	WATER	08/03/2010 12:30
10080325-019	Gude-SW3-SW	SURFACE WATER	08/03/2010 13:45
10080325-020	TB-44	WATER	08/03/2010 13:45
10080325-021	Gude-ST065-SW	SURFACE WATER	08/03/2010 14:00
10080325-022	TB-45	WATER	08/03/2010 14:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

#### Narrative Comments:

SW8260-No matrix spike/ matrix spike duplicate analyzed for volatile batch 83993 due to instrument error.

The laboratory control sample and laboratory control sample duplicate were analyzed acceptably.

Metals:

PB exceeds acceptance criteria for: Cu = 1.0ppb, limit 0.5ppb

Opening and Closing CCV have a Hg recovery of 78% and 87%. Limits are 90-110%.

#### Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].



**Case Narrative Summary**  
**Client Name: EA Engineering**  
**Project Name: Gude Landfill**

**Project ID: 6219608**

**Work Order Number: 10080325**

**Standard Flags/Abbreviations:**

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST015-SW**      **Date/Time Sampled: 08/03/2010 08:55**      **PSS Sample ID: 10080325-001**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Arsenic	<b>0.8</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 18:56	1033
Barium	<b>60</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Chromium	<b>0.7</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 18:56	1033
Cobalt	<b>0.8</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 18:56	1033
Copper	<b>2.3</b>	ug/L	1.0	B	1	0.5	08/09/10	08/09/10 18:56	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 18:56	1033
Nickel	<b>6.5</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 18:56	1033
Thallium	<b>0.5</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 18:56	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 18:56	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 18:56	1033
Zinc	<b>23</b>	ug/L	10		1	10	08/09/10	08/09/10 18:56	1033

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**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 12:37	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 12:37	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 12:37	1029

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**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls      Analytical Method: SW846 8082A      Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:11	1029

Chlorinated Herbicides      Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 23:07	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 23:07	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 23:07	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 23:07	1029



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**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/07/10 04:25	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/07/10 04:25	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/07/10 04:25	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/07/10 04:25	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/07/10 04:25	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/07/10 04:25	1014



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No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST015-SW**      **Date/Time Sampled: 08/03/2010 08:55**      **PSS Sample ID: 10080325-001**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 04:25	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 04:25	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 04:25	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 04:25	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 04:25	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 04:25	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 04:25	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 04:25	1014

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**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 15:22	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST015-SW**      **Date/Time Sampled: 08/03/2010 08:55**      **PSS Sample ID: 10080325-001**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 15:22	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 15:22	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 15:22	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 15:22	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST015-SW**      **Date/Time Sampled: 08/03/2010 08:55**      **PSS Sample ID: 10080325-001**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:22	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

<b>Sample ID: TB-41</b>	<b>Date/Time Sampled: 08/03/2010 08:55</b>	<b>PSS Sample ID: 10080325-002</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 08/03/2010 16:35</b>	

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/06/10 22:54	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/06/10 22:54	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Methylene chloride	<b>3</b>	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/06/10 22:54	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/06/10 22:54	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/06/10 22:54	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 22:54	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/06/10 22:54	1014





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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Arsenic	<b>1.2</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Barium	<b>40</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Cobalt	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Copper	<b>1.0</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 19:28	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 19:28	1033
Nickel	<b>2.5</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:28	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 19:28	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 19:28	1033
Zinc	<b>12</b>	ug/L	10		1	10	08/09/10	08/09/10 19:28	1033



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## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:05	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 13:05	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 13:05	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls      Analytical Method: SW846 8082A      Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 14:40	1029

Chlorinated Herbicides      Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 17:43	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 17:43	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 17:43	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 17:43	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 13:01	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 13:01	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 13:01	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 13:01	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 13:01	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:01	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 13:01	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 13:01	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:01	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:01	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 13:01	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 13:01	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:01	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 13:01	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 21:30	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 21:30	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 21:30	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 21:30	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 21:30	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST80-SW**      **Date/Time Sampled: 08/03/2010 09:20**      **PSS Sample ID: 10080325-003**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014
2,6,10,14,18,22-Tetracosahexaene, (TIC)	5	ug/L	5		1	2.5	08/05/10	08/05/10 21:30	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

<b>Sample ID: TB-42</b>	<b>Date/Time Sampled: 08/03/2010 09:20</b>	<b>PSS Sample ID: 10080325-004</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 08/03/2010 16:35</b>	

Volatile Organic Compounds Analytical Method: SW846 8260B Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/06/10 23:14	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/06/10 23:14	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/06/10 23:14	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/06/10 23:14	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/06/10 23:14	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/06/10 23:14	1014

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## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
Project Location: Rockville, MD  
Project ID: 6219608

**Sample ID: TB-42** **Date/Time Sampled: 08/03/2010 09:20** **PSS Sample ID: 10080325-004**  
**Matrix: WATER** **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/06/10 23:14	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/06/10 23:14	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/06/10 23:14	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/06/10 23:14	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/06/10 23:14	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/06/10 23:14	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 23:14	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/06/10 23:14	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Arsenic	<b>0.7</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 19:35	1033
Barium	<b>56</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Cobalt	<b>0.8</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 19:35	1033
Copper	<b>1.5</b>	ug/L	1.0	B	1	0.5	08/09/10	08/09/10 19:35	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 19:35	1033
Nickel	<b>6.6</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:35	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 19:35	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 19:35	1033
Zinc	<b>14</b>	ug/L	10		1	10	08/09/10	08/09/10 19:35	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 13:33	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 13:33	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 13:33	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:09	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 22:35	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 22:35	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 22:35	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 22:35	1029

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## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 13:58	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 13:58	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 13:58	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 13:58	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 13:58	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:58	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 13:58	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 13:58	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:58	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:58	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 13:58	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 13:58	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:58	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 13:58	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 15:49	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 15:49	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 15:49	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 15:49	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 15:49	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW4-SW**      **Date/Time Sampled: 08/03/2010 09:50**      **PSS Sample ID: 10080325-005**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014
1,5,9-Undecatriene, 2,6,10-trimeth (TIC)	5	ug/L	5		1	2.5	08/05/10	08/05/10 15:49	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022





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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals      Analytical Method: SW846 6020      Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Arsenic	<b>0.6</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 19:41	1033
Barium	<b>58</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Cobalt	<b>0.5</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 19:41	1033
Copper	<b>1.6</b>	ug/L	1.0	B	1	0.5	08/09/10	08/09/10 19:41	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 19:41	1033
Nickel	<b>8.2</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 19:41	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 19:41	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 19:41	1033
Zinc	<b>17</b>	ug/L	10		1	10	08/09/10	08/09/10 19:41	1033



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:01	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 14:01	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 14:01	1029



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 11:45	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 18:15	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 18:15	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 18:15	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 18:15	1029

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No: 10080325

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Project Name: Gude Landfill  
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**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/06/10 15:41	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/06/10 15:41	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/06/10 15:41	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/06/10 15:41	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/06/10 15:41	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/06/10 15:41	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/06/10 15:41	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/06/10 15:41	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/06/10 15:41	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/06/10 15:41	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/06/10 15:41	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/06/10 15:41	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 15:41	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/06/10 15:41	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 16:15	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 16:15	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 16:15	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 16:15	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 16:15	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-DUP5-SW**      **Date/Time Sampled: 08/03/2010 00:00**      **PSS Sample ID: 10080325-007**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:15	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022





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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

<b>Sample ID: TB-49</b>	<b>Date/Time Sampled: 08/03/2010 00:00</b>	<b>PSS Sample ID: 10080325-008</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 08/03/2010 16:35</b>	

Volatile Organic Compounds	Analytical Method: SW846 8260B	Preparation Method: SW846 5030B							
<i>Library search was performed and TICs (if any) are listed below, values of TICs are estimated</i>									
	<b>Result</b>	<b>Units</b>	<b>RL</b>	<b>Flag</b>	<b>Dil</b>	<b>LOD</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Analyst</b>
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 23:53	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 23:53	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 23:53	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 23:53	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 23:53	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 23:53	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 23:53	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 23:53	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Arsenic	<b>0.7</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:07	1033
Barium	<b>59</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Cobalt	<b>0.5</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:07	1033
Copper	<b>2.0</b>	ug/L	1.0	B	1	0.5	08/09/10	08/09/10 20:07	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:07	1033
Nickel	<b>8.1</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:07	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:07	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:07	1033
Zinc	<b>16</b>	ug/L	10		1	10	08/09/10	08/09/10 20:07	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:28	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 14:28	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 14:28	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 15:39	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 22:03	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 22:03	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 22:03	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 22:03	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/06/10 16:09	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/06/10 16:09	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/06/10 16:09	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/06/10 16:09	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/06/10 16:09	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/06/10 16:09	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/06/10 16:09	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/06/10 16:09	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/06/10 16:09	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/06/10 16:09	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/06/10 16:09	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/06/10 16:09	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:09	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/06/10 16:09	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 18:52	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 18:52	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 18:52	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 18:52	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 18:52	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST70-SW**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-009**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:52	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

<b>Sample ID: TB-43</b>	<b>Date/Time Sampled: 08/03/2010 11:15</b>	<b>PSS Sample ID: 10080325-010</b>
<b>Matrix: WATER</b>	<b>Date/Time Received: 08/03/2010 16:35</b>	

Volatile Organic Compounds                      Analytical Method: SW846 8260B                      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/07/10 00:21	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/07/10 00:21	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/07/10 00:21	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/07/10 00:21	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/07/10 00:21	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/07/10 00:21	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
Project Location: Rockville, MD  
Project ID: 6219608

**Sample ID: TB-43**      **Date/Time Sampled: 08/03/2010 11:15**      **PSS Sample ID: 10080325-010**  
**Matrix: WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 00:21	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 00:21	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 00:21	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 00:21	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 00:21	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 00:21	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 00:21	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 00:21	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Arsenic	<b>0.6</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:14	1033
Barium	<b>37</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Chromium	<b>0.6</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:14	1033
Cobalt	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Copper	<b>1.4</b>	ug/L	1.0	B	1	0.5	08/09/10	08/09/10 20:14	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:14	1033
Nickel	<b>2.6</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:14	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:14	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:14	1033
Zinc	<b>13</b>	ug/L	10		1	10	08/09/10	08/09/10 20:14	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 14:57	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 14:57	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 14:57	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:15	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 18:48	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 18:48	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 18:48	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 18:48	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/06/10 16:38	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/06/10 16:38	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/06/10 16:38	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/06/10 16:38	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/06/10 16:38	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/06/10 16:38	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/06/10 16:38	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/06/10 16:38	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/06/10 16:38	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/06/10 16:38	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/06/10 16:38	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/06/10 16:38	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/06/10 16:38	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/06/10 16:38	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 18:26	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 18:26	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 18:26	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 18:26	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 18:26	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW5-SW**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-011**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 18:26	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: TB-46**      **Date/Time Sampled: 08/03/2010 10:45**      **PSS Sample ID: 10080325-012**  
**Matrix: WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/07/10 01:11	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/07/10 01:11	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Methylene chloride	<b>0.9</b>	ug/L	1	J	1	0.5	08/06/10	08/07/10 01:11	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/07/10 01:11	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/07/10 01:11	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/07/10 01:11	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/07/10 01:11	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: TB-46** **Date/Time Sampled: 08/03/2010 10:45** **PSS Sample ID: 10080325-012**  
**Matrix: WATER** **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 01:11	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 01:11	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 01:11	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 01:11	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 01:11	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 01:11	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 01:11	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 01:11	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Arsenic	<b>0.7</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:20	1033
Barium	<b>41</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Cobalt	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Copper	<b>0.7</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:20	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:20	1033
Nickel	<b>5.0</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:20	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:20	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:20	1033
Zinc	<b>11</b>	ug/L	10		1	10	08/09/10	08/09/10 20:20	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:25	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 15:25	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 15:25	1029



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:08	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 21:31	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 21:31	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 21:31	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 21:31	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 13:29	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 13:29	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 13:29	1014
cis-1,2-Dichloroethene	1	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 13:29	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 13:29	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:29	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 13:29	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 13:29	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:29	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 13:29	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 13:29	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 13:29	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 13:29	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 13:29	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 17:34	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 17:34	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 17:34	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 17:34	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 17:34	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST120-SW**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-013**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:34	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: TB-50**      **Date/Time Sampled: 08/03/2010 12:00**      **PSS Sample ID: 10080325-014**  
**Matrix: WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/07/10 02:00	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/07/10 02:00	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Methylene chloride	2	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/07/10 02:00	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/07/10 02:00	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/07/10 02:00	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/07/10 02:00	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
Project Location: Rockville, MD  
Project ID: 6219608

Sample ID: TB-50

Date/Time Sampled: 08/03/2010 12:00 PSS Sample ID: 10080325-014

Matrix: WATER

Date/Time Received: 08/03/2010 16:35

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 02:00	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 02:00	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 02:00	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 02:00	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 02:00	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 02:00	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:00	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 02:00	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Arsenic	<b>0.7</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:27	1033
Barium	<b>39</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Cobalt	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Copper	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:27	1033
Nickel	<b>4.7</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:27	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:27	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:27	1033
Zinc	<b>11</b>	ug/L	10		1	10	08/09/10	08/09/10 20:27	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 15:53	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 15:53	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 15:53	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 12:44	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 19:20	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 19:20	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 19:20	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 19:20	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 11:07	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 11:07	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 11:07	1014
cis-1,2-Dichloroethene	1	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 11:07	1014
Trichloroethene	0.5	ug/L	1	J	1	0.5	08/09/10	08/09/10 11:07	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 11:07	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 11:07	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 11:07	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 11:07	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 11:07	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 11:07	1014
Tetrachloroethene	<b>0.6</b>	ug/L	1	J	1	0.5	08/09/10	08/09/10 11:07	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 11:07	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 11:07	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 11:07	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 11:07	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 20:37	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 20:37	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 20:37	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 20:37	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 20:37	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW1-SW**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-015**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014
Dibenzylidene 4,4'-biphenylenediam (TIC)	7	ug/L	5		1	2.5	08/05/10	08/05/10 20:37	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022





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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
Project Location: Rockville, MD  
Project ID: 6219608

**Sample ID: TB-47**      **Date/Time Sampled: 08/03/2010 12:15**      **PSS Sample ID: 10080325-016**  
**Matrix: WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 02:32	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 02:32	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 02:32	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 02:32	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 02:32	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 02:32	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 02:32	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 02:32	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Arsenic	<b>0.8</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:33	1033
Barium	<b>41</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Chromium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Cobalt	<b>0.5</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:33	1033
Copper	<b>0.8</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:33	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:33	1033
Nickel	<b>5.2</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:33	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:33	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:33	1033
Zinc	<b>12</b>	ug/L	10		1	10	08/09/10	08/09/10 20:33	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 16:20	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 16:20	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 16:20	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls      Analytical Method: SW846 8082A      Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 16:37	1029

Chlorinated Herbicides      Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 20:58	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 20:58	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 20:58	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 20:58	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 12:04	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 12:04	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 12:04	1014
cis-1,2-Dichloroethene	1	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 12:04	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 12:04	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 12:04	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 12:04	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 12:04	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 12:04	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 12:04	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 12:04	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 12:04	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:04	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 12:04	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 17:08	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 17:08	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 17:08	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 17:08	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 17:08	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW2-SW**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-017**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 17:08	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
Project Location: Rockville, MD  
Project ID: 6219608

Sample ID: TB-48

Date/Time Sampled: 08/03/2010 12:30

PSS Sample ID: 10080325-018

Matrix: WATER

Date/Time Received: 08/03/2010 16:35

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/07/10 03:00	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/07/10 03:00	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Methylene chloride	4	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/07/10 03:00	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/07/10 03:00	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/07/10 03:00	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/07/10 03:00	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
**EA Engineering, Sparks, MD**  
August 12, 2010

Project Name: Gude Landfill  
Project Location: Rockville, MD  
Project ID: 6219608

**Sample ID: TB-48**      **Date/Time Sampled: 08/03/2010 12:30**      **PSS Sample ID: 10080325-018**  
**Matrix: WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 03:00	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 03:00	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 03:00	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 03:00	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 03:00	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 03:00	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:00	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 03:00	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals      Analytical Method: SW846 6020      Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Arsenic	1.5	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Barium	230	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Chromium	2.6	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Cobalt	39	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Copper	9.0	ug/L	1.0	B	1	0.5	08/09/10	08/09/10 20:39	1033
Lead	1.3	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:39	1033
Nickel	56	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:39	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:39	1033
Vanadium	2.6	ug/L	5.0	J	1	2.5	08/09/10	08/09/10 20:39	1033
Zinc	15	ug/L	10		1	10	08/09/10	08/09/10 20:39	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
gamma-BHC (Lindane)	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
beta-BHC	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
delta-BHC	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Heptachlor	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Aldrin	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Heptachlor epoxide	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
gamma-Chlordane	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
alpha-Chlordane	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
4,4-DDE	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Endosulfan I	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Dieldrin	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Endrin	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
4,4-DDD	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Endosulfan II	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
4,4-DDT	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Endrin aldehyde	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Methoxychlor	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Endosulfan sulfate	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Endrin ketone	ND	ug/L	0.40		5	0.2	08/05/10	08/11/10 16:49	1029
Toxaphene	ND	ug/L	10		5	5	08/05/10	08/11/10 16:49	1029
Chlordane	ND	ug/L	10		5	5	08/05/10	08/11/10 16:49	1029



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 13:13	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 19:53	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 19:53	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 19:53	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 19:53	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 12:33	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 12:33	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 12:33	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 12:33	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 12:33	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 12:33	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 12:33	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 12:33	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 12:33	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 12:33	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 12:33	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 12:33	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 12:33	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 12:33	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 16:41	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 16:41	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 16:41	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 16:41	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 16:41	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-SW3-SW**      **Date/Time Sampled: 08/03/2010 13:45**      **PSS Sample ID: 10080325-019**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 16:41	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022







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## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Total Metals

Analytical Method: SW846 6020

Preparation Method: SW846 3010A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Arsenic	<b>0.6</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:46	1033
Barium	<b>35</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Beryllium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Cadmium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Chromium	<b>2.6</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Cobalt	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Copper	<b>0.8</b>	ug/L	1.0	J	1	0.5	08/09/10	08/09/10 20:46	1033
Lead	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Mercury	ND	ug/L	0.20		1	0.1	08/09/10	08/09/10 20:46	1033
Nickel	<b>2.9</b>	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Selenium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Silver	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Thallium	ND	ug/L	1.0		1	0.5	08/09/10	08/09/10 20:46	1033
Tin	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:46	1033
Vanadium	ND	ug/L	5.0		1	2.5	08/09/10	08/09/10 20:46	1033
Zinc	<b>11</b>	ug/L	10		1	10	08/09/10	08/09/10 20:46	1033

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
alpha-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
gamma-BHC (Lindane)	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
beta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
delta-BHC	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Heptachlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Aldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Heptachlor epoxide	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
gamma-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
alpha-Chlordane	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
4,4-DDE	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Endosulfan I	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Dieldrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Endrin	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
4,4-DDD	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Endosulfan II	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
4,4-DDT	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Endrin aldehyde	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Methoxychlor	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Endosulfan sulfate	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Endrin ketone	ND	ug/L	0.08		1	0.04	08/05/10	08/11/10 17:16	1029
Toxaphene	ND	ug/L	2		1	1	08/05/10	08/11/10 17:16	1029
Chlordane	ND	ug/L	2		1	1	08/05/10	08/11/10 17:16	1029

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3510C

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029
PCB-1221	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029
PCB-1232	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029
PCB-1242	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029
PCB-1248	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029
PCB-1254	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029
PCB-1260	ND	ug/L	1.0		1	0.5	08/05/10	08/06/10 17:06	1029

Chlorinated Herbicides

Analytical Method: SW846 8151A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-D	ND	ug/L	2		1	1	08/07/10	08/09/10 20:26	1029
2,4,5-TP (Silvex)	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 20:26	1029
2,4,5-T	ND	ug/L	0.2		1	0.1	08/07/10	08/09/10 20:26	1029
Dinoseb	ND	ug/L	1		1	0.5	08/07/10	08/09/10 20:26	1029

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## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
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**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Chloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Bromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Chloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Acetone	ND	ug/L	5		1	5	08/09/10	08/09/10 14:26	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/09/10	08/09/10 14:26	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/09/10	08/09/10 14:26	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Chloroform	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Benzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Acrylonitrile	ND	ug/L	10		1	5	08/09/10	08/09/10 14:26	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/09/10	08/09/10 14:26	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/09/10	08/09/10 14:26	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325  
 EA Engineering, Sparks, MD  
 August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds      Analytical Method: SW846 8260B      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Toluene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/09/10	08/09/10 14:26	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Acrolein	ND	ug/L	20		1	10	08/09/10	08/09/10 14:26	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Bromoform	ND	ug/L	5		1	2.5	08/09/10	08/09/10 14:26	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/09/10	08/09/10 14:26	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/09/10	08/09/10 14:26	1014
Styrene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
o-Xylene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/09/10	08/09/10 14:26	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Naphthalene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/09/10	08/09/10 14:26	1014
Iodomethane	ND	ug/L	20		1	10	08/09/10	08/09/10 14:26	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Acenaphthylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Acetophenone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Benzo(a)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Benzo(a)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Benzo(b)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Benzo(g,h,i)perylene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Benzo(k)fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Benzyl butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
bis(2-chloroethoxy) methane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
bis(2-chloroethyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
bis(2-chloroisopropyl) ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
bis(2-ethylhexyl) phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4-Bromophenylphenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Di-n-butyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4-Chloro-3-methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4-Chloroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 21:03	1014
2-Chloronaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2-Chlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4-Chlorophenyl phenyl ether	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Chrysene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Dibenz(a,h)anthracene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Dibenzofuran	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
3,3-Dichlorobenzidine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2,4-Dichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Diethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Dimethyl phthalate	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2,4-Dimethylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4,6-Dinitro-2-methyl phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 21:03	1014
2,4-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2,6-Dinitrotoluene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Fluoranthene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Fluorene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Hexachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Hexachlorobutadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Hexachlorocyclopentadiene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Hexachloroethane	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Indeno(1,2,3-c,d)pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Isophorone	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2-Methylnaphthalene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
3&4-Methylphenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4-Nitroaniline	ND	ug/L	10		1	5	08/05/10	08/05/10 21:03	1014
3-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2-Nitroaniline	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Nitrobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
4-Nitrophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
N-Nitrosodimethylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
N-Nitrosodi-n-propylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
N-Nitrosodiphenylamine	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Di-n-octyl phthalate	ND	ug/L	10		1	5	08/05/10	08/05/10 21:03	1014
Pentachlorophenol	ND	ug/L	10		1	5	08/05/10	08/05/10 21:03	1014
Phenanthrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Phenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
Pyrene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
1,2,4,5-Tetrachlorobenzene	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2,3,4,6-Tetrachlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: Gude-ST065-SW**      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-021**  
**Matrix: SURFACE WATER**      **Date/Time Received: 08/03/2010 16:35**

Semivolatile Organic Compounds      Analytical Method: SW846 8270C      Preparation Method: SW846 3510C

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
2,4,6-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014
2,4,5-Trichlorophenol	ND	ug/L	5		1	2.5	08/05/10	08/05/10 21:03	1014

Cyanide      Analytical Method: SW846 9014

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Cyanide, Total	ND	mg/L	0.05		1	0.025	08/09/10	08/09/10 15:40	1022

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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

**EA Engineering, Sparks, MD**

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: TB-45**                                      **Date/Time Sampled: 08/03/2010 14:00**      **PSS Sample ID: 10080325-022**  
**Matrix: WATER**                                      **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds                      Analytical Method: SW846 8260B                      Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Dichlorodifluoromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Chloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Vinyl Chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Bromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Chloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Acetone	ND	ug/L	5		1	5	08/06/10	08/07/10 03:57	1014
Trichlorofluoromethane	ND	ug/L	1		1	1	08/06/10	08/07/10 03:57	1014
1,1-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Methylene chloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
trans-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,1-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Vinyl acetate	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
2-Butanone (MEK)	ND	ug/L	10		1	5	08/06/10	08/07/10 03:57	1014
cis-1,2-Dichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Bromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Chloroform	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
2,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,1,1-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,2-Dichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,1-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Carbon tetrachloride	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Benzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Dibromomethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,2-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Acrylonitrile	ND	ug/L	10		1	5	08/06/10	08/07/10 03:57	1014
Trichloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Carbon Disulfide	ND	ug/L	1		1	1	08/06/10	08/07/10 03:57	1014
Bromodichloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
cis-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5		1	2.5	08/06/10	08/07/10 03:57	1014



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# PHASE SEPARATION SCIENCE, INC.



## CERTIFICATE OF ANALYSIS

No: 10080325

EA Engineering, Sparks, MD

August 12, 2010

Project Name: Gude Landfill  
 Project Location: Rockville, MD  
 Project ID: 6219608

**Sample ID: TB-45** **Date/Time Sampled: 08/03/2010 14:00** **PSS Sample ID: 10080325-022**  
**Matrix: WATER** **Date/Time Received: 08/03/2010 16:35**

Volatile Organic Compounds

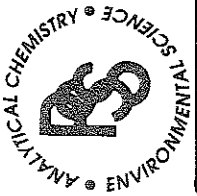
Analytical Method: SW846 8260B

Preparation Method: SW846 5030B

*Library search was performed and TICs (if any) are listed below, values of TICs are estimated*

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
trans-1,3-Dichloropropene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,1,2-Trichloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Toluene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,3-Dichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
2-Hexanone (MBK)	ND	ug/L	5		1	5	08/06/10	08/07/10 03:57	1014
1,2-Dibromoethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Dibromochloromethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Acrolein	ND	ug/L	20		1	10	08/06/10	08/07/10 03:57	1014
1,1,1,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Bromoform	ND	ug/L	5		1	2.5	08/06/10	08/07/10 03:57	1014
trans-1,4-dichloro-2-butene	ND	ug/L	5		1	2.5	08/06/10	08/07/10 03:57	1014
Tetrachloroethene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Chlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Ethylbenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
m,p-Xylenes	ND	ug/L	2		1	1	08/06/10	08/07/10 03:57	1014
Styrene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
o-Xylene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,2,3-Trichloropropane	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,3-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,4-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,2-Dichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,2-Dibromo-3-chloropropane	ND	ug/L	10		1	5	08/06/10	08/07/10 03:57	1014
1,2,4-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Naphthalene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
1,2,3-Trichlorobenzene	ND	ug/L	1		1	0.5	08/06/10	08/07/10 03:57	1014
Iodomethane	ND	ug/L	20		1	10	08/06/10	08/07/10 03:57	1014





# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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## PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EA Engineering OFFICE LOC. Sparks, MD  
 PROJECT MGR: Peter Leka PHONE NO.: (410) 771-4950  
 EMAIL: plekas@east.com FAX NO.: (410) 771-4204  
 PROJECT NAME: Guide Landfill PROJECT NO.: 6219603  
 SITE LOCATION: Rockville, MD P.O. NO.:  
 SAMPLERS: Joseph Sawicki

Matrix Codes:  
 SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	PRESERVATIVES USED		ANALYSIS METHOD REQUIRED	REMARKS
					HCl	HNO3		
1	Guide-5T015-SW	8/3/10	0855	SW	X		VOC 8260	VOC 8270
2	TB-41		0855		X		Metals 6020	Herbicide 8151
3	Guide-5T80-SW		0920		X		Organophosphate	PCB 8082
4	TB-42		0920		X		Organophosphate	Candle 9010
5	Guide-5W4-SW		0950		X		Organophosphate	Sulfide 9030
6	TB-40		0950		X			
7	Guide-DUP5-SW				X			
8	TB-49				X			
9	Guide-5T70-SW		1115		X			
10	TB-43		1115		X			

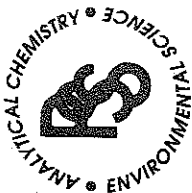
2 CONTAINERS

No.	SAMPLE TYPE	C = COMP	G = GRAB	Requested Turnaround Time	# of Coolers	Custody Seal	Ice Present	Temp	Shipping Carrier
11				<input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> Next Day	11	ABS	YES	5°C	CLIENT
2				<input type="checkbox"/> 2-Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other					
11				<input type="checkbox"/> 3-Day					
2									
11									
2									
11									
2									
11									
2									

5 Relinquished By: (1) [Signature] Received By: [Signature]  
 Date: 8/3/10 Time: 1635  
 Relinquished By: (2) \_\_\_\_\_ Received By: \_\_\_\_\_  
 Relinquished By: (3) \_\_\_\_\_ Received By: \_\_\_\_\_  
 Relinquished By: (4) \_\_\_\_\_ Received By: \_\_\_\_\_

Requested Turnaround Time:  5-Day,  Next Day,  2-Day,  3-Day,  Emergency,  Other  
 Data Deliverables Required: E00  
 Special Instructions: \_\_\_\_\_

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com  
email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

**1** CLIENT: EA Engineering OFFICE LOC. Sparks, MD  
 PROJECT MGR: Peter Lekas PHONE NO.: (410) 771-4950  
 EMAIL: plkas@east.com FAX NO.: (410) 771-4204  
 PROJECT NAME: Gude Landfill PROJECT NO.: 6217608  
 SITE LOCATION: Rockville, MD P.O. NO.:  
 SAMPLERS: Joseph Sawicki

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINERS	SAMPLE TYPE	REMARKS
11	Gude-SW5-SW	8/3/10	1045	SW	11	G	IR 8260 SVOC 8270 Metals 6620 Herbicide 8151 Chlorinated Pesticide 8081 Organophosphate Pesticide 8141 PCB 828 Gude 9010 Sulfide 9030
12	TB-46		1045		2		
13	Gude-ST120-SW		1200		11		
14	TB-50		1200		2		
15	Gude-SW1-SW		1215		11		
16	TB-47		1215		2		
17	Gude-SW2-SW		1230		11		
18	TB-48		1230		2		
19	Gude-SW3-SW		1345		11		
20	TB-44		1345		2		

**5** Relinquished By: (1) John Suid. Date: 8/3/10/1035 Time: 1035 Received By: [Signature] Time: 1035

Relinquished By: (2) [Signature] Date: 8/3/10/1035 Time: 1035 Received By: [Signature] Time: 1035

Relinquished By: (3) [Signature] Date: [ ] Time: [ ] Received By: [Signature] Time: [ ]

Relinquished By: (4) [Signature] Date: [ ] Time: [ ] Received By: [Signature] Time: [ ]

Requested Turnaround Time:  5-Day  3-Day  2-Day  Next Day  Emergency  Other

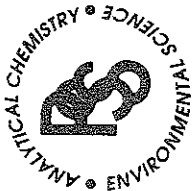
Data Deliverables Required: EDD

Ice Present: YES Temp: 5°C

Shipping Carrier: CLIENT

Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723  
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorneys' or other reasonable fees if collection becomes necessary.



# SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com

email: info@phaseonline.com

## PHASE SEPARATION SCIENCE, INC.

**1** CLIENT: EA Engineering OFFICE LOC. Sparks, MD
PSS Work Order # 10080325
PAGE 3 OF 3

**Matrix Codes:**  
 SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe

PROJECT MGR: Peter Lekas PHONE NO: (410) 771-4950

EMAIL: plekas@east.com FAX NO: (410) 771-4204

PROJECT NAME: Gude Landfill PROJECT NO: 6119608

SITE LOCATION: Rockville, MD P.O. NO.:

SAMPLERS: Joseph Sawicki

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
21	Gude-Stops-SW	8/31/0	1400	SW
22	TB-45	8/31/0	1400	SW

**2** CONTAINERS

No.	SAMPLE TYPE	Preservatives Used	HCl	HNO <sub>3</sub>	Method Required	Analysis/ Method Required	REMARKS
100	SW				3		
200	SW				3		
300	SW				3		
400	SW				3		
500	SW				3		
600	SW				3		
700	SW				3		
800	SW				3		
900	SW				3		
1000	SW				3		

**3** Relinquished By: (1) *[Signature]* Date: 8/31/0 Time: 1635 Received By: *[Signature]*

Relinquished By: (2) Received By:

Relinquished By: (3) Received By:

Relinquished By: (4) Received By:

**4** Requested Turnaround Time:  5-Day  3-Day  2-Day  Other

Data Deliverables Required: EDD

# of Coolers: 11

Custody Seal: PAS

Ice Present: PAS temp: 5°C

Shipping Carrier: CLIENT

Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



# Phase Separation Science, Inc

## Sample Receipt Checklist

<b>Wo Number</b>	10080325	<b>Received By</b>	Rachel Davis
<b>Client Name</b>	EA Engineering	<b>Date Received</b>	08/03/2010 04:35:00 PM
<b>Project Name</b>	Gude Landfill	<b>Delivered By</b>	Client
<b>Project Number</b>	6219608	<b>Tracking No</b>	Not Applicable
<b>Disposal Date:</b>	10/02/2010	<b>Logged In By</b>	Rachel Davis

### Shipping Container(s)

No. of Coolers	11	Ice	Present
Custody Seals	Not Applicable	Temp (deg C)	5
Seal Condition	Not Applicable	Temp Blank Present	No

### Documentation

COC agrees with sample labels?  Yes or  No      Sampler Name: Not Provided  
 Chain of Custody (COC)  Yes or  No

### Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	22	Total No. of Containers Received	143

### Preservation

		Yes	No	N/A
Metals	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides	(pH>12)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sulfide	(pH>9)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TOC, COD, Phenols	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos	(pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do VOA vials have zero headspace?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: *R. Davis* Date: 8/4/10  
 PM Review and Approval: *[Signature]* Date: 8/4/10

## ANALYTICAL REPORT

PROJECT NO. 6219608/10080325

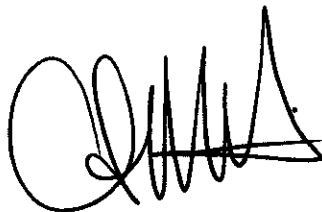
Phase Sep Science East Station

Lot #: COH050504

Betsy Orr

Phase Separation Sciences  
6630 Baltimore National Pike  
Route 40 West  
Baltimore, MD 21228

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch  
Project Manager

August 12, 2010



**NELAC REPORTING:**

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
DoD ELAP	ADE-1442	WW HW	X
US Dept of Agriculture	(#P330-10-00139)	Foreign Soil Import Permit	X
Arkansas	(#88-0690)	WW HW	X X
California – NELAC	04224CA	WW HW	X X
Connecticut	(#PH-0688)	WW HW	X X
Florida – NELAC	(#E871008)	WW HW	X X
Illinois – NELAC	(#002319)	WW HW	X X
Kansas – NELAC	(#E-10350)	WW HW	X X
Louisiana – NELAC	(#04041)	WW HW	X X
New Hampshire – NELAC	(#203010)	WW -	X -
New Jersey – NELAC	(PA-005)	WW HW	X X
New York – NELAC	(#11182)	WW HW	X X
North Carolina	(#434)	WW HW	X X
Pennsylvania - NELAC	(#02-00416)	WW HW	X X
South Carolina	(#89014002)	WW HW	X X
Utah – NELAC	(STLP)	WW HW	X X
West Virginia	(#142)	WW HW	X X
Wisconsin	998027800	WW HW	X X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 05/19/10 N:\Reporting\NELAC NARRATIVE Pittsburgh\_Updated 051910.doc



## CASE NARRATIVE

### Phase Separation Sciences

Lot # COH050504

#### **Sample Receiving:**

TestAmerica Pittsburgh received samples on August 5, 2010. The coolers were received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

#### **OPP's:**

There were no problems associated with the analysis.

#### **General Chemistry:**

There were no problems associated with the analysis.

# Chain of Custody Form for Subcontracted Analyses

Phase Separation Science, Inc  
 6630 Baltimore National Pike  
 Baltimore, MD 21228  
 Phone: (410) 747-8770  
 Fax: (410) 788-8723

W.O. No.: 10080325  
 P.O. No.:  
 Project Name: Guide Landfill  
 Project Number: 6219408

Samples Transferred To:  
 Test America  
 5710 Executive Drive, Suite 106  
 Catonsville, MD 21228

Contact: Ken Ives  
 Phone: 410-869-0085

For Questions or issues please contact: John Slowikowski

Report Due On: ~~08/10/10-05:00P~~

TEST AMERICA STANDARD

8-3013

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
10080325-001	Guide-ST015-SW	08/03/10	08:55	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-001	Guide-ST015-SW	08/03/10	08:55	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-003	Guide-ST80-SW	08/03/10	09:20	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-003	Guide-ST80-SW	08/03/10	09:20	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-005	Guide-SW4-SW	08/03/10	09:50	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-005	Guide-SW4-SW	08/03/10	09:50	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-007	Guide-DUP5-SW	08/03/10	00:00	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-007	Guide-DUP5-SW	08/03/10	00:00	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-009	Guide-ST70-SW	08/03/10	11:15	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-009	Guide-ST70-SW	08/03/10	11:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-011	Guide-SW5-SW	08/03/10	10:45	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-011	Guide-SW5-SW	08/03/10	10:45	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-013	Guide-ST120-SW	08/03/10	12:00	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-013	Guide-ST120-SW	08/03/10	12:00	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-015	Guide-SW1-SW	08/03/10	12:15	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-015	Guide-SW1-SW	08/03/10	12:15	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-017	Guide-SW2-SW	08/03/10	12:30	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-017	Guide-SW2-SW	08/03/10	12:30	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-019	Guide-SW3-SW	08/03/10	13:45	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-019	Guide-SW3-SW	08/03/10	13:45	Water	Sulfides	SW9030B	250 ml HDPE	PH9C
10080325-021	Guide-ST065-SW	08/03/10	14:00	Water	Organophosphorus Compounds	SW8141A	32 OZ N/M G.A.	COOL
10080325-021	Guide-ST065-SW	08/03/10	14:00	Water	Sulfides	SW9030B	250 ml HDPE	PH9C

Data Deliverables Required: QC SUMM

Send Report Attn: BETSY ORR

Perform Q.C. on Sample:

### Chain of Custody Form for Subcontracted Analyses

Airbill No.: \_\_\_\_\_ Carrier: TEST AMERICA COURIER

Condition Upon Receipt: \_\_\_\_\_

Comments: \_\_\_\_\_

Samples Relinquished By: [Signature] Date: 9/4/10

Samples Relinquished By: [Signature] Date: 9/4/10

Samples Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_

Time: 8:46

Time: \_\_\_\_\_

Time: \_\_\_\_\_

Samples Received By: [Signature]

Samples Received By: [Signature] Date: 8-5-10 Time: 10:15

Samples Received By: \_\_\_\_\_

Sub-Contractor  
Test America

Method  
SW8141A

Matrix  
Water

Analyte Name  
Parathion, Ethyl  
Zinophos  
Phorate  
Parathion, Methyl  
Famphur  
Disulfoton  
Dimethoate

# METHODS SUMMARY

C0H050504

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Organophosphorous Compounds by GC	SW846 8141A	SW846 3510
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

## References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

C0H050504

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
L4531	001	GUDE-ST015-SW	08/03/10	08:55
L455E	002	GUDE-ST80-SW	08/03/10	09:20
L455H	003	GUDE-SW4-SW	08/03/10	09:50
L455M	004	GUDE-DUP5-SW	08/03/10	
L455Q	005	GUDE-ST70-SW	08/03/10	11:15
L4551	006	GUDE-SW5-SW	08/03/10	10:45
L4552	007	GUDE-ST120-SW	08/03/10	12:00
L4553	008	GUDE-SW1-SW	08/03/10	12:15
L4554	009	GUDE-SW2-SW	08/03/10	12:30
L4555	010	GUDE-SW3-SW	08/03/10	13:45
L4556	011	GUDE-ST065-SW	08/03/10	14:00

## **NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Phase Separation Sciences

Client Sample ID: GUDE-ST015-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-001    Work Order #...: L45311AC    Matrix.....: WATER  
 Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
 Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
 Prep Batch #...: 0218356    Analysis Time..: 04:56  
 Dilution Factor: 0.99  
 Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.99	ug/L
Dimethoate	ND	0.99	ug/L
Disulfoton	ND	0.99	ug/L
Famphur	ND	0.99	ug/L
Methyl parathion	ND	0.99	ug/L
Ethyl parathion	ND	0.99	ug/L
Phorate	ND	0.99	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	103	(45 - 145)	
Tributyl phosphate	105	(49 - 122)	



Phase Separation Sciences

Client Sample ID: GUDE-ST80-SW

GC Semivolatiles

**Lot-Sample #...**: C0H050504-002    **Work Order #...**: L455E1AC    **Matrix.....**: WATER  
**Date Sampled...**: 08/03/10    **Date Received..**: 08/05/10    **MS Run #.....**:  
**Prep Date.....**: 08/06/10    **Analysis Date..**: 08/09/10  
**Prep Batch #...**: 0218356    **Analysis Time..**: 05:23  
**Dilution Factor**: 0.98  
  
**Method.....**: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	104	(45 - 145)	
Tributyl phosphate	108	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-SW4-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-003    Work Order #...: L455H1AC    Matrix.....: WATER  
Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
Prep Batch #...: 0218356    Analysis Time..: 12:57  
Dilution Factor: 0.99  
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.99	ug/L
Dimethoate	ND	0.99	ug/L
Disulfoton	ND	0.99	ug/L
Famphur	ND	0.99	ug/L
Methyl parathion	ND	0.99	ug/L
Ethyl parathion	ND	0.99	ug/L
Phorate	ND	0.99	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	102	(45 - 145)
Tributyl phosphate	104	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-DUP5-SW

GC Semivolatiles

**Lot-Sample #...**: C0H050504-004    **Work Order #...**: L455M1AC    **Matrix.....**: WATER  
**Date Sampled...**: 08/03/10    **Date Received..**: 08/05/10    **MS Run #.....**:  
**Prep Date.....**: 08/06/10    **Analysis Date..**: 08/09/10  
**Prep Batch #...**: 0218356    **Analysis Time..**: 13:24  
**Dilution Factor**: 0.97  
  
**Method.....**: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	102	(45 - 145)	
Tributyl phosphate	104	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-ST70-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-005    Work Order #...: L455Q1AC    Matrix.....: WATER  
Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
Prep Batch #...: 0218356    Analysis Time..: 13:51  
Dilution Factor: 0.97  
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	101	(45 - 145)
Tributyl phosphate	102	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-SW5-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-006    Work Order #...: L45511AC    Matrix.....: WATER  
Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
Prep Batch #...: 0218356    Analysis Time..: 14:17  
Dilution Factor: 0.97  
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.97	ug/L
Dimethoate	ND	0.97	ug/L
Disulfoton	ND	0.97	ug/L
Famphur	ND	0.97	ug/L
Methyl parathion	ND	0.97	ug/L
Ethyl parathion	ND	0.97	ug/L
Phorate	ND	0.97	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	102	(45 - 145)
Tributyl phosphate	103	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-ST120-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-007    Work Order #...: L45521AC    Matrix.....: WATER  
Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
Prep Batch #...: 0218356    Analysis Time..: 14:44  
Dilution Factor: 1.02  
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	1.0	ug/L
Dimethoate	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Famphur	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Ethyl parathion	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	101	(45 - 145)	
Tributyl phosphate	103	(49 - 122)	



Phase Separation Sciences

Client Sample ID: GUDE-SW1-SW

GC Semivolatiles

**Lot-Sample #...**: C0H050504-008    **Work Order #...**: L45531AC    **Matrix.....**: WATER  
**Date Sampled...**: 08/03/10    **Date Received..**: 08/05/10    **MS Run #.....**:  
**Prep Date.....**: 08/06/10    **Analysis Date..**: 08/09/10  
**Prep Batch #...**: 0218356    **Analysis Time..**: 15:11  
**Dilution Factor**: 0.98  
  
**Method.....**: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	
Triphenyl phosphate	107	(45 - 145)	
Tributyl phosphate	109	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-SW2-SW

GC Semivolatiles

**Lot-Sample #...**: C0H050504-009    **Work Order #...**: L45541AC    **Matrix.....**: WATER  
**Date Sampled...**: 08/03/10    **Date Received..**: 08/05/10    **MS Run #.....**:  
**Prep Date.....**: 08/06/10    **Analysis Date..**: 08/09/10  
**Prep Batch #...**: 0218356    **Analysis Time..**: 15:38  
**Dilution Factor**: 0.98  
**Method.....**: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
Triphenyl phosphate	105	(45 - 145)	
Tributyl phosphate	109	(49 - 122)	

Phase Separation Sciences

Client Sample ID: GUDE-SW3-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-010    Work Order #...: L45551AC    Matrix.....: WATER  
Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
Prep Batch #...: 0218356    Analysis Time..: 16:04  
Dilution Factor: 0.98  
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	0.98	ug/L
Dimethoate	ND	0.98	ug/L
Disulfoton	ND	0.98	ug/L
Famphur	ND	0.98	ug/L
Methyl parathion	ND	0.98	ug/L
Ethyl parathion	ND	0.98	ug/L
Phorate	ND	0.98	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	104	(45 - 145)
Tributyl phosphate	109	(49 - 122)

Phase Separation Sciences

Client Sample ID: GUDE-ST065-SW

GC Semivolatiles

Lot-Sample #...: C0H050504-011    Work Order #...: L45561AC    Matrix.....: WATER  
Date Sampled...: 08/03/10    Date Received..: 08/05/10    MS Run #.....:  
Prep Date.....: 08/06/10    Analysis Date..: 08/09/10  
Prep Batch #...: 0218356    Analysis Time..: 16:31  
Dilution Factor: 1  
Method.....: SW846 8141A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Thionazin	ND	1.0	ug/L
Dimethoate	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Famphur	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Ethyl parathion	ND	1.0	ug/L
Phorate	ND	1.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Triphenyl phosphate	104	(45 - 145)
Tributyl phosphate	107	(49 - 122)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C0H050504  
MB Lot-Sample #: C0H060000-356  
Analysis Date...: 08/09/10  
Dilution Factor: 1

Work Order #...: L480M1AA  
Prep Date.....: 08/06/10  
Prep Batch #...: 0218356

Matrix.....: WATER  
Analysis Time...: 11:10

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Thionazin	ND	1.0	ug/L	SW846 8141A
Ethyl parathion	ND	1.0	ug/L	SW846 8141A
Dimethoate	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Famphur	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Triphenyl phosphate	100	(45 - 145)		
Tributyl phosphate	102	(49 - 122)		

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: C0H050504      Work Order #...: L480M1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: C0H060000-356      L480M1AD-LCSD  
 Prep Date.....: 08/06/10      Analysis Date...: 08/09/10  
 Prep Batch #...: 0218356      Analysis Time...: 11:37  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Thionazin	99	(44 - 128)			SW846 8141A
	98	(44 - 128)	1.8	(0-21)	SW846 8141A
Tetraethyldithiopyro-phosphate	102	(56 - 128)			SW846 8141A
	101	(56 - 128)	1.2	(0-23)	SW846 8141A
Phorate	107	(41 - 135)			SW846 8141A
	106	(41 - 135)	0.75	(0-24)	SW846 8141A
Disulfoton	100	(45 - 124)			SW846 8141A
	99	(45 - 124)	0.89	(0-30)	SW846 8141A
Methyl parathion	94	(41 - 148)			SW846 8141A
	93	(41 - 148)	0.66	(0-30)	SW846 8141A
Ethyl parathion	102	(56 - 125)			SW846 8141A
	102	(56 - 125)	0.090	(0-21)	SW846 8141A
Famphur	105	(52 - 131)			SW846 8141A
	104	(52 - 131)	0.66	(0-24)	SW846 8141A
Dimethoate	125	(26 - 136)			SW846 8141A
	124	(26 - 136)	0.56	(0-22)	SW846 8141A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Triphenyl phosphate	100	(45 - 145)
	99	(45 - 145)
Tributyl phosphate	105	(49 - 122)
	103	(49 - 122)

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters



Phase Separation Sciences

Client Sample ID: GUDE-ST015-SW

General Chemistry

Lot-Sample #...: C0H050504-001      Work Order #...: L4531      Matrix.....: WATER  
Date Sampled...: 08/03/10      Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-ST80-SW

General Chemistry

Lot-Sample #...: C0H050504-002  
Date Sampled...: 08/03/10

Work Order #...: L455E  
Date Received...: 08/05/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time.: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-SW4-SW

General Chemistry

Lot-Sample #...: C0H050504-003

Work Order #...: L455H

Matrix.....: WATER

Date Sampled...: 08/03/10

Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-DUP5-SW

General Chemistry

Lot-Sample #...: C0H050504-004  
Date Sampled...: 08/03/10

Work Order #...: L455M  
Date Received...: 08/05/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-ST70-SW

General Chemistry

Lot-Sample #...: C0H050504-005

Work Order #...: L455Q

Matrix.....: WATER

Date Sampled...: 08/03/10

Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-SW5-SW

General Chemistry

Lot-Sample #...: C0H050504-006  
Date Sampled...: 08/03/10

Work Order #...: L4551  
Date Received...: 08/05/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time.: 11:55	MS Run #.....: 0218023	



Phase Separation Sciences

Client Sample ID: GUDE-ST120-SW

General Chemistry

Lot-Sample #...: C0H050504-007  
Date Sampled...: 08/03/10

Work Order #...: L4552  
Date Received...: 08/05/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time.: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-SW1-SW

General Chemistry

Lot-Sample #...: C0H050504-008

Work Order #...: L4553

Matrix.....: WATER

Date Sampled...: 08/03/10

Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time.: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-SW2-SW

General Chemistry

Lot-Sample #...: C0H050504-009

Work Order #...: L4554

Matrix.....: WATER

Date Sampled...: 08/03/10

Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-SW3-SW

General Chemistry

Lot-Sample #...: C0H050504-010      Work Order #...: L4555      Matrix.....: WATER  
Date Sampled...: 08/03/10      Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

Phase Separation Sciences

Client Sample ID: GUDE-ST065-SW

General Chemistry

Lot-Sample #...: C0H050504-011      Work Order #...: L4556      Matrix.....: WATER  
Date Sampled...: 08/03/10      Date Received..: 08/05/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Total Sulfide	ND	3.0	mg/L	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	MS Run #.....: 0218023	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0H050504

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Sulfide	ND	Work Order #: L469E1AA 3.0	mg/L	MB Lot-Sample #: SW846 9030B/9034	C0H060000-042 08/06/10	0218042
		Dilution Factor: 1				
		Analysis Time..: 11:55				

**NOTE(S):**

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Calculations are performed before rounding to avoid round-off errors in calculated results.



LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H050504

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide	98	(85 - 115)	SW846 9030B/9034	08/06/10	0218042
		Dilution Factor: 1		Analysis Time..: 11:55	

**NOTE(S):**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0H050504

Matrix.....: WATER

Date Sampled...: 08/03/10

Date Received...: 08/05/10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Sulfide			WO#: L46RV1AX-MS/L46RV1A0-MSD		MS Lot-Sample #: C0H050595-001		
	101	(75 - 125)			SW846 9030B/9034	08/06/10	0218042
	100	(75 - 125)	1.2	(0-20)	SW846 9030B/9034	08/06/10	0218042
			Dilution Factor: 1				
			Analysis Time...: 11:55				
			MS Run #.....: 0218023				

**NOTE(S):**

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Calculations are performed before rounding to avoid round-off errors in calculated results.