

374684

**Phase II
Environmental Assessment
Of
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446**



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For Success.®*

AR000534

EMG

Prepared for:

**Progress Development, LP
595 Skippack Pike, Suite 100
Blue Bell, Pennsylvania 19422
Mr. Vince Santore**

**Phase II
Environmental Assessment
Of
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446**

EMG Project No: 64450, 65199

On-Site Dates: October 20-22, 1999; November 9, 1999

Date of Report: January 13, 2000

Prepared by:

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AR000535



January 13, 2000

Mr. Vince Santore
Progress Development, LP
595 Skippack Pike, Suite 100
Blue Bell, Pennsylvania 19422

RE: Phase II Environmental Assessment
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446
EMG Project No. 64450, 65199

Dear Mr. Santore:

EMG has performed three Phase II Environmental Assessments at the above referenced property. The objective of the first investigation (EMG Project #62882) was to address former on-site landfill operations. According to EMG's Phase I ESA (Project # 61117) of the Project in August 1999, a small portion of the Project (approximately one-quarter acre in area) west/northwest of the Project building was previously used for dumping/landfill purposes. Analysis of soil samples collected during the initial investigation for VOCs and PNAs did not reveal any concentrations above the analytical method detection limits. Analysis of the soil samples for RCRA Metals identified the presence of barium, chromium and lead. However, the compounds that were identified were also in a background sample collected during the investigation. Based on the presence of the metals in the background sample, the identified metals were considered to be naturally occurring rather than evidence of contamination resulting from the former landfilling operations. Additionally, the concentrations of the metals identified fell within the range of these compounds that naturally occur in soil. Therefore, based on the results of the chemical analysis, EMG recommended no further investigations with respect to the former landfilling operations. A copy of the Phase II Report is included in Appendix E of the attached report.

The second and third subsurface investigations (discussed in the attached report - Project #s 64450 and 65119) were conducted to performed a macro-level investigation throughout the Project grounds (second investigation) and to attempt to define the extent of contamination identified in one area of the Project during the second investigation (65119). The second investigation consisted of the advancement of 26 Geoprobe soil borings within the asphalt parking and drive, grassy, and brushy areas found on the Project. Selected soil samples collected from the soil borings were analyzed for Volatile Organic Compounds (VOCs). Results of the analysis of the samples revealed the detection of solvent in one sample. Upon the identification of solvent contamination in the one sample, five additional Geoprobe soil borings (third investigation) were advanced to confirm and attempt to delineate the extent of the identified contamination. The results of the second and third investigations are further discussed in the attached report.

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EMG

We have appreciated the opportunity to provide you with this service. If you have any questions regarding the Project, please feel free to call us at your convenience.

Surveyed by: Lee Hogg, CPG

Written by: Lee Hogg, CPG

Reviewed by:

JS
Jeffrey T. Smith
Senior Program Supervisor

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**Phase II Environmental Assessment
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446
EMG Project #64450, 65199**

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1. Introduction

EMG was contracted by Progress Development, LP to perform a Phase II Environmental Assessment at 1180 Church Road, Lansdale, Pennsylvania.

The objective of the investigation was to obtain baseline information relating to the potential for solvent contamination in the soils at the Project. The subsurface investigation performed was a macro-level investigation conducted throughout the Project grounds.

The scope of work for the Phase II Assessment is outlined below.

■ Subsurface Sampling

- EMG obtained the services of Mud Environmental Services to advance 26 Geoprobe soil borings within the asphalt parking and drive, grassy, and brushy areas found throughout the Project. The majority of the soil borings were concentrated in the most likely potential areas of concern, including the current Project building, storm water management ponds, former lagoons, etc. Upon laboratory identification of contamination in soil boring B-22, which was near the southeastern corner of the Project building, EMG re-mobilized to the Project and advanced five additional Geoprobe soil borings to confirm and attempt to delineate the extent of the identified contamination.
- EMG monitored the advancement of the Geoprobe soil borings to equipment refusal depths of 3.5 to 15 feet below the ground surface. Ground water was not encountered in any of the soil borings. Soil samples were collected at four-foot depth increments from the soil borings. No unusual odors or stains were detected in any of the soil samples collected from the soil borings. Field screening of the soil samples with a Photoionization detector (PID) did not indicate the presence of volatile organic compound (VOC) contamination in any of the soil samples collected from the soil borings.
- Two soil samples collected randomly from each of the soil borings, were analyzed for VOCs via EPA method 8260 with methanol preservation (Encore sampling procedure as required by the State of Pennsylvania).



2. Environmental Investigation

2.1. Subsurface Soil Sampling Program

On October 21 and 22, 1999, EMG monitored the advancement of 26 Geoprobe soil borings within the asphalt parking and drive, grassy areas, and brushy areas found throughout the Project. The majority of the soil borings were concentrated in areas most likely to contribute to potential solvent contamination on the Project, including the current Project building, storm water management ponds, former lagoons, etc. On November 9, 1999, following the laboratory identification of soil contamination in boring B-22, five additional Geoprobe soil borings (B-22A through B-22E) were advanced at and surrounding the original boring B-22 location. Mud Environmental Services employed an ATV mounted Geoprobe drilling rig to advance the soil borings. All down-hole drilling equipment was thoroughly cleaned prior to commencement of drilling operations and between each boring and sampling interval. Soil samples were obtained continuously at four-foot intervals from each of the soil borings. The locations of the soil borings are indicated on the Boring Location Maps included in Appendix A.

Soils encountered in the soil borings consisted of red-brown sandy SILT (ML), with varying amounts of rock fragments. The natural soils encountered in the borings were overlain by approximately 1 to 11 feet of red-brown, brown, and gray silty sand and sandy silt FILL, with varying amounts of gravel, crushed stone, rock fragments, bricks, asphalt, concrete, and organic matter. Equipment refusal on bedrock was encountered in all of the soil borings at depths of approximately 1 to 11 feet below the ground surface. Moisture content of the soil samples at the time of the investigation was moderate. Ground water was not encountered in any of the soil borings to the depths investigated. No unusual odors or stains were noted in any of the soil samples. No elevated PID readings were noted in any of the soil samples.

Upon completion, the boreholes were backfilled with excess soil cuttings and bentonite chips, and patched with concrete where necessary.

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3. Sample Collection and Analysis

3.1. Soil Sample Collection

Soil samples were placed in pre-labeled 4-ounce glass jars with teflon-lined plastic lids and Encore sampling pistons for chemical analyses. A zero headspace sampling protocol was employed. This protocol requires packing the soil into the sampling jars and Encore pistons such that the amount of free air space in the sample container is minimized. The samples selected for chemical analyses were immediately placed in a cooler for preservation. The soil samples were then delivered to an accredited laboratory for analyses. The Encore samples were delivered to the laboratory within 48 hours of collection as required. The analyses of the samples were performed within their respective holding times. The samples selected for analyses were analyzed for VOCs via EPA method 8260. The initial round of sampling was conducted using methanol preservative (higher detection limits), PADEP sampling protocol. The second round of sampling was conducted using sodium bisulfate preservative (lower detection limits). Chain-of-custody was maintained utilizing laboratory chain-of-custody tracking forms.

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4. Analytical Results

Laboratory analyses were performed on the soil samples for VOCs. The analytical results for the soil samples are illustrated in Table 1 — Soil Sample Analytical Results. A copy of the analytical results and chain-of-custody are included in Appendix D.

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS	
Sample No./Depth	VOCs (PPM)
B-1, 1-3	ND
B-1, 6-7.5	ND
B-2, 1-3	ND
B-2, 4-6	ND
B-3, 2-4	ND
B-3, 8-10	ND
B-4, 1-3	ND
B-4, 6-7.5	ND
B-5, 2-4	ND
B-5, 9-11	ND
B-6, 1-3	ND
B-6, 6-8	ND
B-7, 2-4	ND
B-7, 13-15	ND
B-8, 1-3	ND
B-8, 6-8	ND
B-9, 1-3	ND
B-9, 6-7.5	ND
B-10, 2-4	ND
B-10, 6-8	ND
B-11, 1-3	ND
B-11, 5-7	ND
B-12, 2-4	ND
B-12, 11-13	ND
B-13, 2-4	ND

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TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS

Sample No./Depth	VOCs (PPM)
B-13, 10-12	ND
B-14, 1-3	ND
B-14, 5-7	ND
B-15, 1-3	ND
B-15, 6-7.5	ND
B-16, 1-3	ND
B-16, 5-7	ND
B-17, 2-4	ND
B-17, 6-8	ND
B-18, 1-3	ND
B-18, 6-8	ND
B-19, 2-4	ND
B-19, 6-8	ND
B-20, 1-3	ND
B-20, 3-4	ND
B-21, 1-3	ND
B-22, 2-4	Trichloroethene - 0.72
B-22, 6-8	ND
B-23, 1-3	ND
B-23, 5-6.5	ND
B-24, 1-3	ND
B-24, 5-7	ND
B-25, 2-4	ND
B-25, 10-11.5	ND
B-26, 1-3	ND
B-26, 3-4	ND
B-22A, 6-8	ND
B-22B, 1-3	ND
B-22B, 5-6.5	ND
B-22C, 1-3	ND
B-22C, 5-7	ND

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS	
Sample No./Depth	VOCs (PPM)
B-22D, 1-3	cis-1,2-Dichloroethene - 0.026 Trichloroethene - 0.012
B-22D, 3-5	cis-1,2-Dichloroethene - 0.061 Trichloroethene - 0.073
B-22E, 1-3	n-Butylbenzene - 0.021 cis-1,2-Dichloroethene - 0.016 Naphthalene - 0.022 n-Propylbenzene - 0.016 Trichloroethene - 0.024 1,2,4-Trimethylbenzene - 0.028
B-22E, 7-9	ND

PPM = Parts Per Million (mg/kg)

ND = Non-detectable (below analytical method detection limit)

Methylene chloride, a laboratory artifact, was found in some samples

Initial Sampling Protocol - Methanol Preservative / Method Detection Limit of 0.5 ppm

Second Sampling Protocol - Sodium Bisulfate Preservative / Method Detection Limit of 0.005 ppm

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5. Discussion and Conclusions

Analysis of the soil samples at the Project identified only trichloroethene (TCE) in one sample (B-22/2-4 feet) at a concentration of 0.720 ppb. This sample was collected adjacent the southeast corner of the building. An additional sample collected from the same boring at a depth of six to eight feet below ground surface did not reveal TCE above the analytical method detection limit. Borings advanced to the north, northeast and southwest of boring B-22 did not reveal detectable concentrations of VOCs. Review of the "legible" aerial photographs obtained during the Phase I Assessment revealed that the area where contamination was identified appeared to be vacant and or parking area. It does not appear that this area was utilized for chemical storage purposes.

As a result of the detection of TCE in boring B-22, five additional soil borings were advanced at the Project. One of the borings was advanced at the same location as B-22, while the remaining four borings were advanced approximately 10 feet around the perimeter of boring B-22 (illustrated on the site map in Appendix A). To provide a better understanding of the contamination identified, the soil samples collected during the second investigation were preserved with sodium bisulfate. Although the methanol preservation is EPA and PADEP approved, the use of sodium bisulfate provide lower analytical method detection limits.

The results of the additional sample analysis revealed the detection of solvents in two of the three borings. The additional sample analyzed from boring B-22 (B-22A), collected at a depth of six to eight feet below ground surface, did not reveal the detection of any solvents. The same was the case for both soil samples, shallow and deep, collected from borings B-22B and B-22C (advanced north and east of boring B-22). However, analytical results for the soil samples collected from boring B-22D (advanced south of boring B-22), revealed the detection of cis-1,2-dichloroethene and TCE. Specifically, cis-1,2 dichloroethene was identified at concentrations of 0.026 ppm (1-3 feet) and 0.061 ppm (3-5 feet). Additionally, TCE was identified at concentrations of 0.012 ppm (1-3 feet) and 0.073 ppm (3-5 feet). These results indicate that the concentrations of solvents identified are increasing with depth and that the vertical extent of contamination has not been defined. It should be noted that equipment refusal was encountered at five feet in this boring. In addition, analytical results for the soil sample collected at a depth of one to three feet from boring B-22E (advanced west of boring B-22), revealed the detection of cis-1,2-dichloroethene (0.016 ppm), TCE (0.024 ppm), n-butylbenzene (0.021 ppm), naphthalene (0.022 ppm), n-propylbenzene (0.016 ppm), and 1,2,4-trimethylbenzene (0.028 ppm). No VOCs were detected in the sample collected at a depth of seven to nine feet in the same boring. It should also be noted that the additional constituents identified, other than cis-1,2-dichloroethene and TCE, are commonly related to petroleum or gasoline.

During the initial investigation, the concentration of TCE identified was below the PADEP Medium-Specific Concentrations (MSCs) for Organic Regulated Substances in Soil, Direct Contact Value for Residential Properties (0-15 feet) of 190 ppm. Additionally, the concentration of TCE identified was below the MSC, Soil to Groundwater Numerical Value for Non-Use Aquifers and Used Aquifers with total dissolved solids greater than 2,500. However, the concentration of TCE identified exceeded the Used Aquifer Standard with a TDS <2500 (0.170 ppb to 0.500 ppb).

The concentrations of all constituents identified during the second investigation were below the most stringent standards for soils (i.e. Used Aquifer Standards with a TDS <2500).

Based on the results of the initial and second investigation, EMG is of the opinion that evidence of a significant contamination issue has not been identified. Only one sample revealed a concentration of TCE above the remedial standard for a used aquifer with a TDS of <2,500. Since groundwater sampling was not performed, EMG cannot determine the TDS value for the aquifer. Regardless, since known contamination exists in the area of the Project, it is highly unlikely that the aquifer beneath the Project is a used aquifer. As a result, no remedial actions would likely be warranted as a result of the identified concentration of TCE at this time. As mentioned above, the lateral extent of contamination has not been defined to the south/southeast and the concentrations of cis-1,2-dichloroethene and TCE identified in boring B-22D increase with depth.

Although the concentrations do not exceed the most stringent MSCs for soil, the potential exists for this identified contamination (although it is very unlikely it would be significant) to have migrated further downward into the shallow water table. However, based on the low concentrations of contamination identified in the shallow soils and the apparent limited area of impact, it is unlikely that impact to the shallow groundwater table would be material (i.e. would not likely require remediation).



6. Qualifications

EMG's professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental engineering and sciences. EMG is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The investigation performed for this Project is intended as a description of available information at the time of the investigation. This report does not warrant against future operations or conditions present of a type or at a location not investigated.

This report is exclusively for the use and benefit of the addressee(s) identified on the first page of this report and is not for the use or benefit of, nor may it be relied upon by any other person or entity. The contents of this report may not be quoted in whole or in part or distributed to any person or entity other than the addressee(s) hereof without, in each case, the advance written consent of EMG.

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7. Appendices

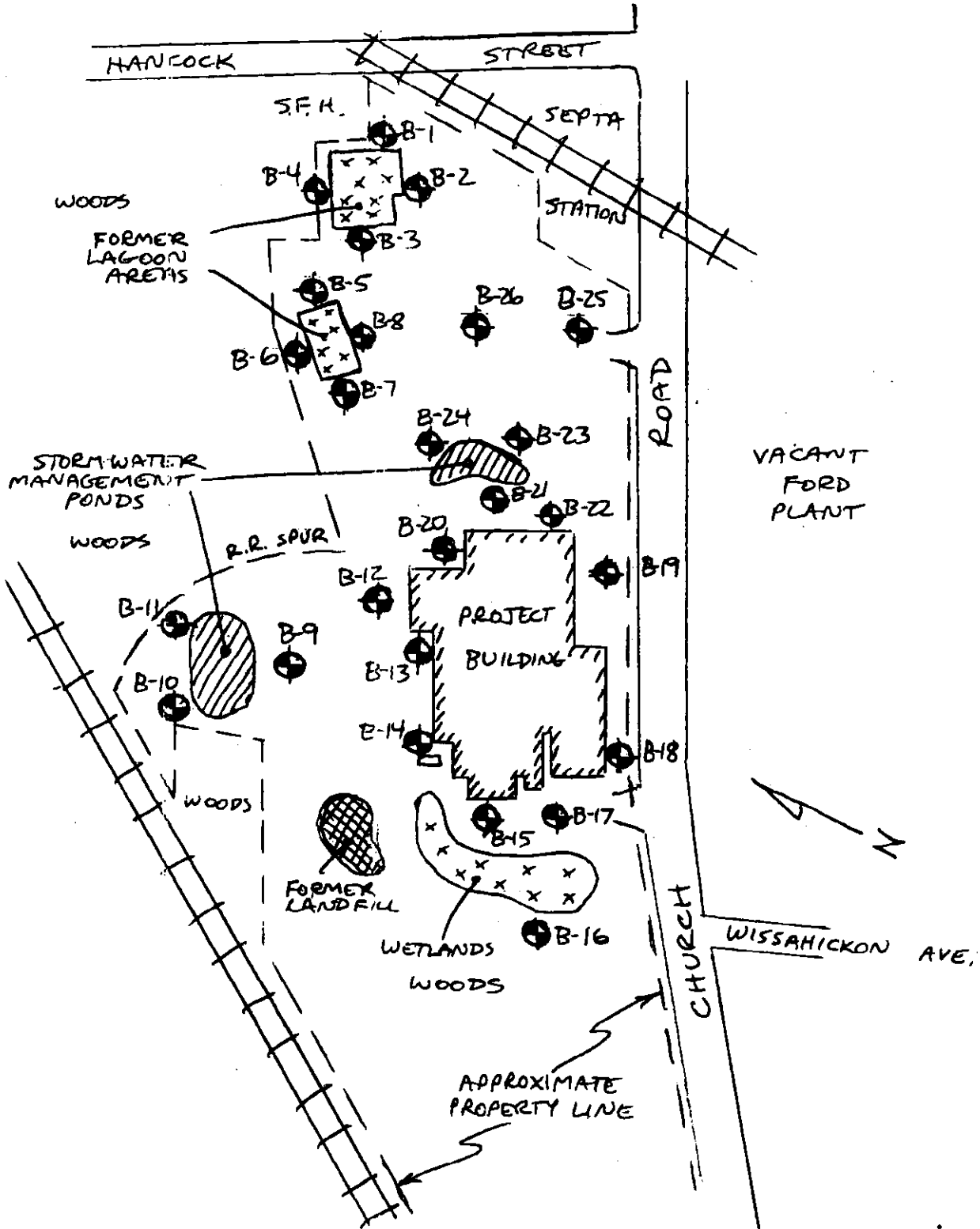
- Appendix A — Site Maps
- Appendix B — Photographic Documentation
- Appendix C — Boring Logs
- Appendix D — Laboratory Results/Chain-of-Custody Forms
- Appendix E — Initial Phase II Investigation, EMG Project #62882

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64450 (A03), 65199

Appendix A
Site Maps

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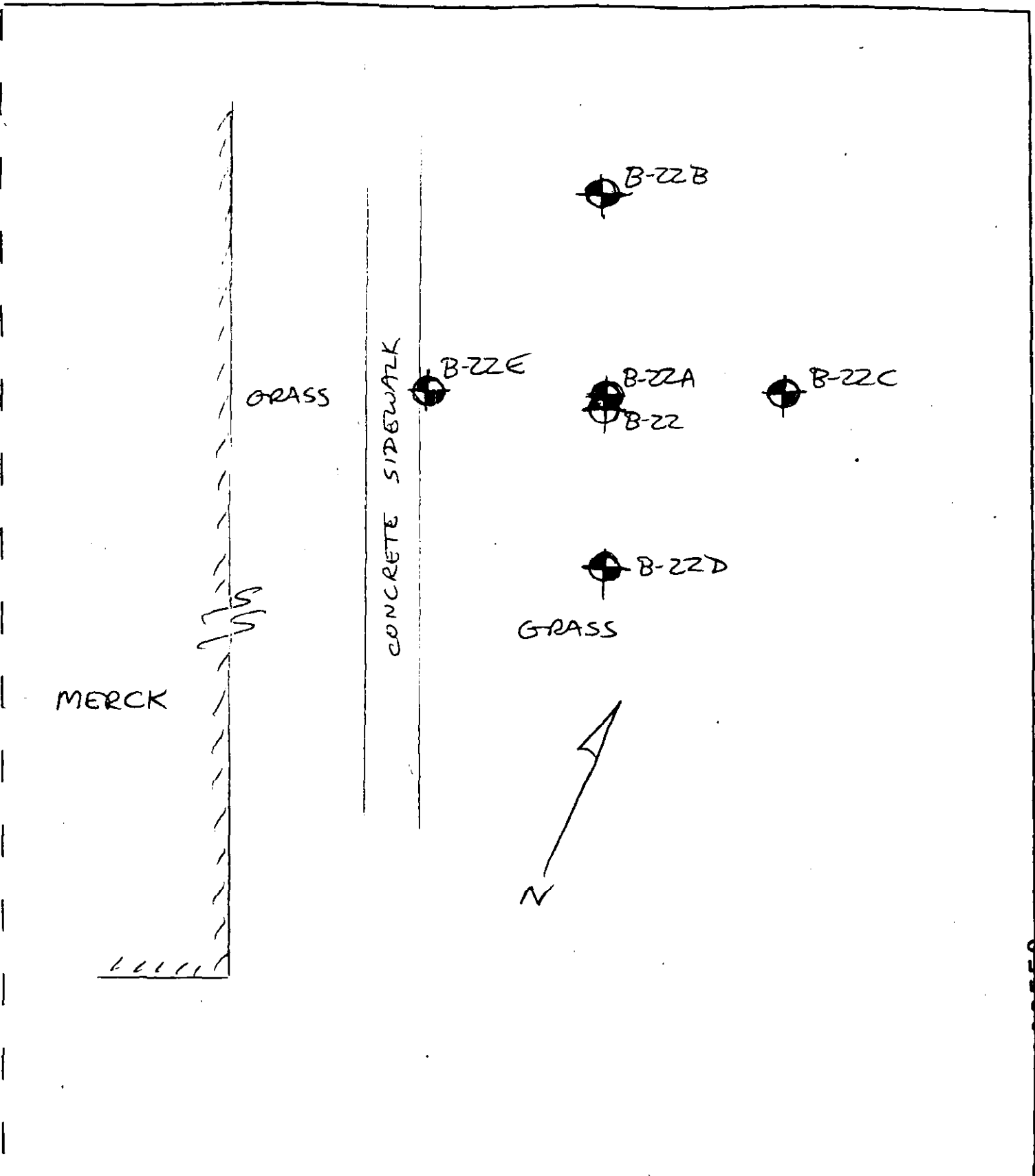
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Date: 10-22-99

Scale: NOT TO SCALE

Drawn: LAM

Job No.: 64450



AR000552



Title: NORTH PENN 7

Date: 11-9-99

Scale: 1"=10' 0 5 10 15 FT.

Drawn: LAH

Job No.:



64450 (A03), 65199

Appendix B
Photographic Documentation

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EMG PHOTOGRAPHIC RECORD

Project No.: 64450

Project Name: North Penn 7

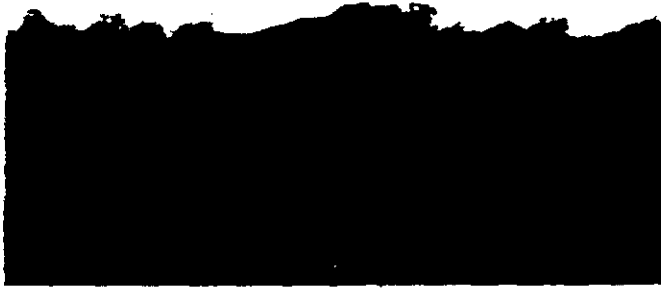


Photo #1: Soil boring — eastern former lagoon area



Photo #2: Soil boring — western former lagoon area



Photo #3: Soil boring — northern storm water management pond area

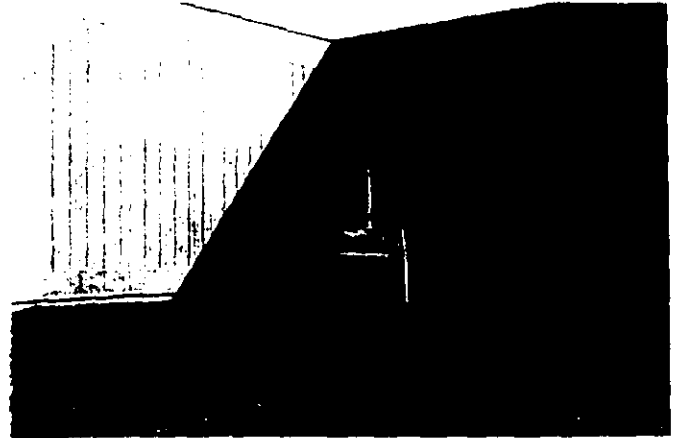


Photo #4: Soil boring — north side of Project building



Photo #5: Soil boring — UST area

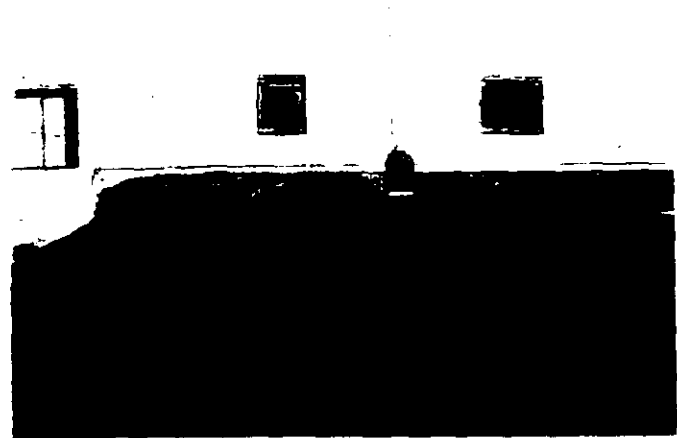


Photo #6: Soil boring — west end of Project building

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EMG PHOTOGRAPHIC RECORD

Project No.: 64450

Project Name: North Penn 7



Photo #7: Soil boring — wetlands area



Photo #8: Soil boring — south side of building



Photo #9: Soil boring — eastern storm water management pond area

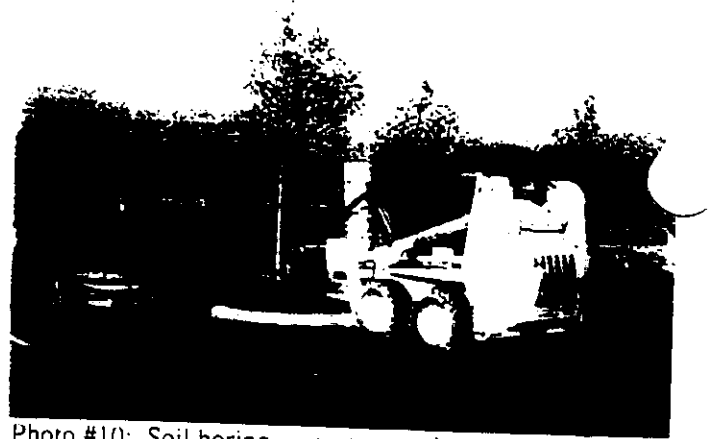


Photo #10: Soil boring — eastern parking lot

AR000555

EMG PHOTOGRAPHIC RECORD

Project No.: 65199

Project Name: North Penn 7

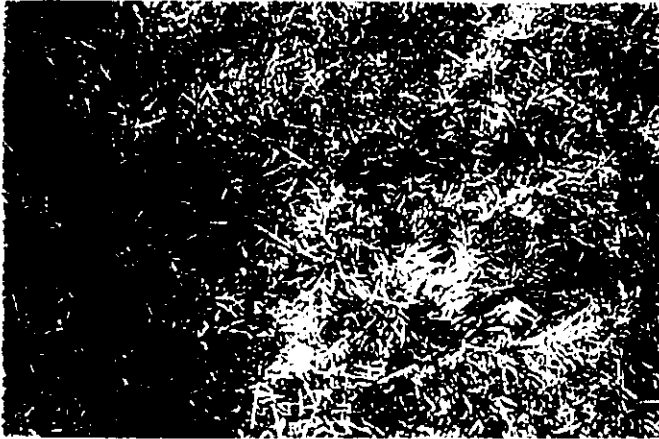


Photo #1: Boring B-22A and previous boring B-22



Photo #2: Boring B-22B

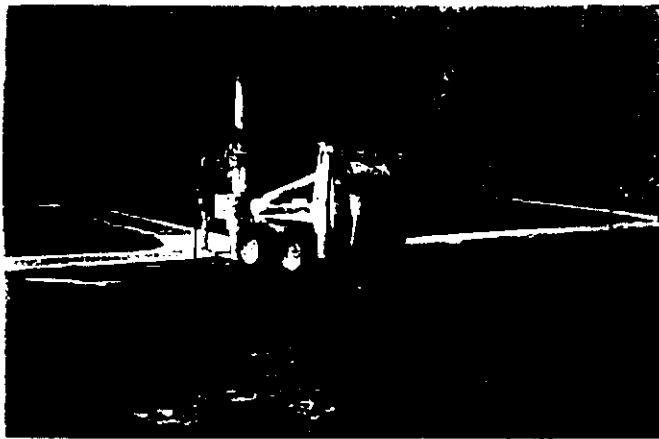


Photo #3: Boring B-22E

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Appendix C
Boring Logs

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SOIL BORING LOG - FIELD READINGS				
EMG Project #64450, 65199				
Project NAME: North Penn 7				
BORING METHOD: Geoprobe DATE: October 21 and 22, 1999; November 9, 1999				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
B-1	0-3	M	0	Silty sand and sandy silt FILL, with gravel, crushed stone, rock fragments, and concrete, brown and gray, no odor
B-1	3-7.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7.5'				
B-2	0-3	M	0	Silty sand and sandy silt FILL, with gravel, crushed stone, and rock fragments, brown and gray, no odor
B-2	3-6	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 6'				
B-3	0-5	M	0	Silty sand and sandy silt FILL, with gravel, some crushed stone and rock fragments, brown and gray, no odor
B-3	5-10	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 10'				
B-4	0-4	M	0	Silty sand and sandy silt FILL, with gravel, some crushed stone and rock fragments, red-brown, brown, and gray, no odor
B-4	4-7.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7.5'				
B-5	0-3	M	0	Silty sand and sandy silt FILL, with gravel, some crushed stone and concrete, brown and gray, no odor
B-5	3-11	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 11'				

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SOIL BORING LOG - FIELD READINGS				
EMG Project #64450, 65199				
Project NAME: <u>North Penn 7</u>				
BORING METHOD: <u>Geoprobe</u> DATE: <u>October 21 and 22, 1999; November 9, 1999</u>				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
B-6	0-2	M	0	Silty sand and sandy silt FILL, with gravel, some crushed stone and rock fragments, brown and gray, no odor
B-6	2-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-7	0-9	M	0	Silty sand and sandy silt FILL, with gravel, some crushed stone, concrete, asphalt, and organic matter, brown and gray, no odor
B-7	9-15	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 15'				
B-8	0-3	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and concrete, brown and gray, no odor
B-8	3-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-9	0-1	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, rock fragments, red-brown, brown and gray, no odor
B-9	1-7.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7.5'				
B-10	0-2	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, rock fragments, red-brown, brown and gray, no odor
B-10	2-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-11	0-1	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-11	1-7	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor

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SOIL BORING LOG - FIELD READINGS				
EMG Project #64450, 65199				
Project NAME: <u>North Penn 7</u>				
BORING METHOD: <u>Geoprobe</u> DATE: <u>October 21 and 22, 1999; November 9, 1999</u>				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
Refusal, Bottom of Boring at 7'				
B-12	0-11	M	0	Silty sand and sandy silt FILL, with gravel, crushed stone, and rock fragments, some bricks and concrete, red-brown, brown and gray, no odor
B-12	11-13	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 13'				
B-13	0-3	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-13	3-12	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 12'				
B-14	0-2	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-14	2-7	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7'				
B-15	0-2	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-15	2-7.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7.5'				
B-16	0-2	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-16	2-7	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7'				
B-17	0-2.5	M	0	Silty sand and sandy silt FILL, some gravel, rock fragments, and organic matter, red-brown, brown and gray, no odor

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SOIL BORING LOG - FIELD READINGS				
EMG Project #64450, 65199				
Project NAME: North Penn 7				
BORING METHOD: Geoprobe DATE: October 21 and 22, 1999; November 9, 1999				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
B-17	2.5-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-18	0-1	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-18	1-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-19	0-1	M	0	Silty sand and sandy silt FILL, some gravel and rock fragments, red-brown, brown and gray, no odor
B-19	1-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-20	0-2	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, rock fragments, and bricks, red-brown, brown and gray, no odor
B-20	2-4	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 4'				
B-21	0-2.5	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, rock fragments, and bricks, red-brown, brown and gray, no odor
B-21	2.5-3.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 3.5'				
B-22	0-3	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, red-brown, brown and gray, no odor
B-22	3-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor

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SOIL BORING LOG - FIELD READINGS				
EMG Project #64450, 65199				
Project NAME: North Penn 7				
BORING METHOD: Geoprobe DATE: October 21 and 22, 1999; November 9, 1999				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
Refusal, Bottom of Boring at 8'				
B-23	0-2	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, red-brown, brown and gray, no odor
B-23	2-6.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 6.5'				
B-24	0-2	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, red-brown, brown and gray, no odor
B-24	2-7	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7'				
B-25	0-6	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, rock fragments, and concrete, red-brown, brown and gray, no odor
B-25	6-11.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 11.5'				
B-26	0-1	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, red-brown, brown and gray, no odor
B-26	1-4	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 4'				
B-22A	0-3	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, red-brown, brown and gray, no odor
B-22A	3-8	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 8'				
B-22B	0-3.5	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, trace asphalt, red-brown, brown and gray, no odor

AR000562



64450 (A03), 65199

SOIL BORING LOG - FIELD READINGS				
EMG Project #64450, 65199				
Project NAME: <u>North Penn 7</u>				
BORING METHOD: <u>Geoprobe</u> DATE: <u>October 21 and 22, 1999; November 9, 1999</u>				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
B-22B	3.5-6.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 6.5'				
B-22C	0-4	M	0	Silty sand and sandy silt FILL, some gravel, crushed stone, and rock fragments, trace concrete, red-brown, brown and gray, no odor
B-22C	4-7	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7'				
B-22D	0-4	M	0	Silty sand and sandy silt FILL, some, crushed stone, rock fragments, concrete, and asphalt, red-brown, brown and gray, no odor
B-22D	4-5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 5'				
B-22E	0-4	M	0	Silty sand and sandy silt FILL, some, crushed stone, rock fragments, concrete, and asphalt, red-brown, brown and gray, no odor
B-22E	4-9	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 9'				

AR000563



64450 (A03), 65199

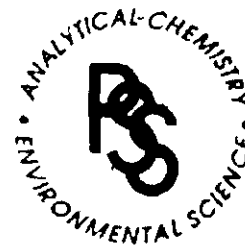
Appendix D

Laboratory Results/ Chain-of-Custody Forms

AR000564

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 6630 BALTIMORE NAT'L PIKE
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 BALTIMORE, MD 21228
 410-747-8770
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 1 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID: B-1, 1-3	Result	Unit	Sample ID: B-1, 1-3	Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

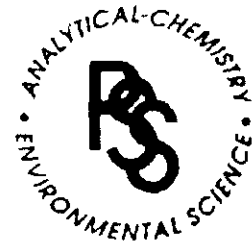
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000565

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 2 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-1, 6-7.5				
Benzene	< 0.500	mg/kg	<i>trans</i> -1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	<i>p</i> -Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl- <i>t</i> -butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	<i>n</i> -Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
<i>cis</i> -1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

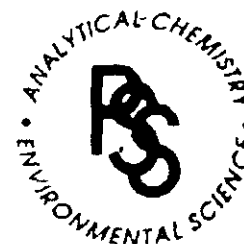
Qualifiers:

Reviewed By: Matt Cohee
Quality Assurance Chemist

AR000566

OFFICES:
 6630 BALTIMORE NAT'L PIKE
 ROUTE 40 WEST
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 4 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-2, 4-6			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

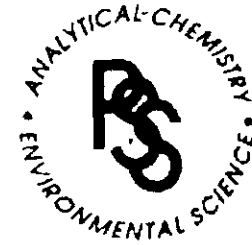
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000568

OFFICES:
 6630 BALTIMORE NAT'L PIKE
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 5 of 51
EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

	<u>Result</u>	<u>Unit</u>		<u>Result</u>	<u>Unit</u>
Sample ID: B-3, 2-4			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

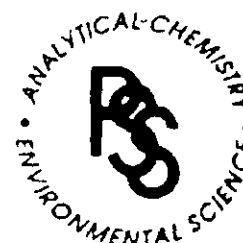
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000569

OFFICES:
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 6 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-3, 8-10			trans-1,2-Dichloroethene	< 0.500	mg/kg
benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
monobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

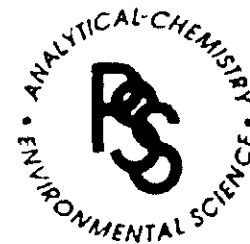
Qualifiers:

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000570

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 7 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID: B-4, 1-3	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

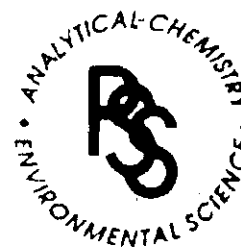
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000571

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 8 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-4, 6-7.5			trans-1,2-Dichloroethene	< 0.500	mg/kg
benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
toluene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

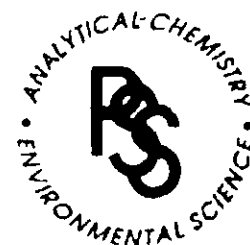
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000572

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 9 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID: B-5, 2-4	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

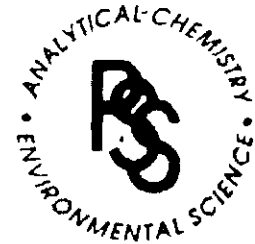
Qualifiers:

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000573

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 10 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-5, 9-11				
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

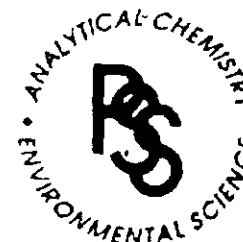
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000574

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 6630 BALTIMORE NAT'L PIKE
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 11 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-6, 1-3			trans-1,2-Dichloroethene	< 0.500	mg/kg
benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
monobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

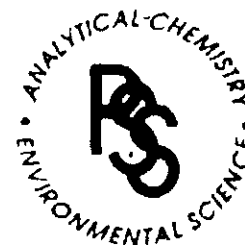
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000575

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 12 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-6, 6-8			<i>trans</i> -1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

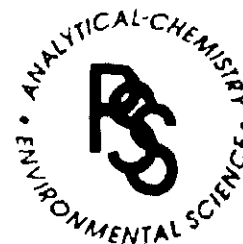
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000576

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 13 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-7, 2-4				
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
o-mobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	b 0.55 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg.

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

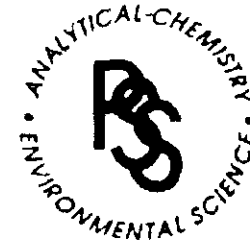
Qualifiers:

b - found in blank / suspected lab artifact

AR000577

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410-747-8770
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 14 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-7, 13-15	Result	Unit			Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg	
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg	
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg	
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg	
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg	
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg	
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg	
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg	
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg	
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	0 0.59	mg/kg	
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg	
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg	
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg	
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg	
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg	
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg	
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg	
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg	
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg	
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg	
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg	
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg	
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg	
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg	
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg	
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg	
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg	
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg	

Method(s): 5035/8260

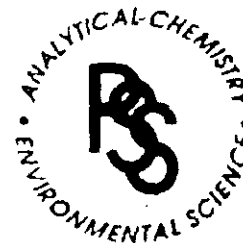
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000578

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 15 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-8, 1-3	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

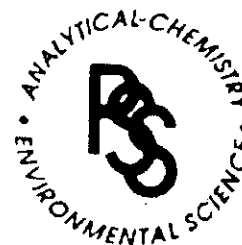
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000579

OFFICES:
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 16 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-8, 6-8

	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

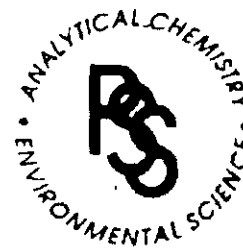
Qualifiers:

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000580

OFFICES:
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 BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 17 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-9, 1-3	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035 8260

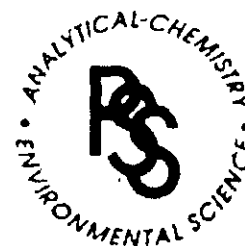
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000581

OFFICES:
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 BALTIMORE, MD 21228
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 18 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

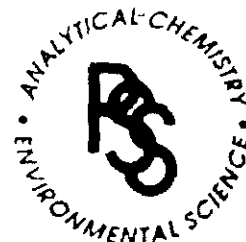
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000582

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 19 of 51
EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-10, 2-4	Result	Unit		Result	Unit
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
o-xylene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

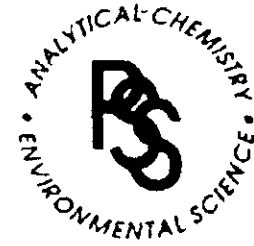
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000583

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 20 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-10, 6-8					
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

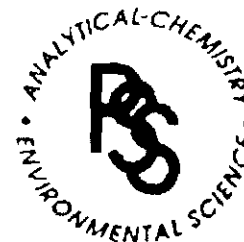
Qualifiers:

Reviewed By: Matt Cohee
Quality Assurance Chemist

AR000584

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 21 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-11, 1-3				
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

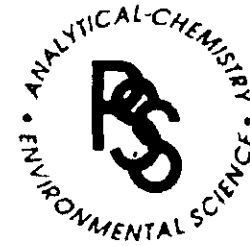
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000585

OFFICES:
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 22 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-11, 5-7				
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

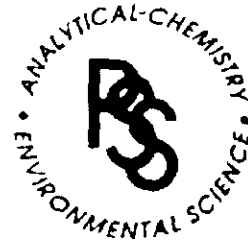
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000586

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 23 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-12, 2-4			trans-1,2-Dichloroethene	< 0.500	mg/kg
nzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
mobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

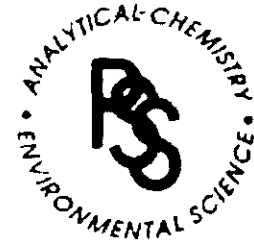
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000587

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 24 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-12, 11-13					
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

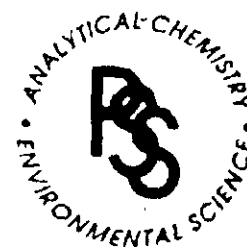
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000588

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 25 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-13, 2-4	Result	Unit		Result	Unit
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
monobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

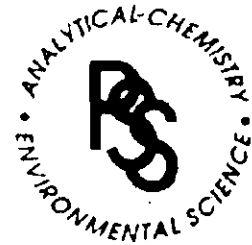
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000589

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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 26 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-13, 10-12					
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

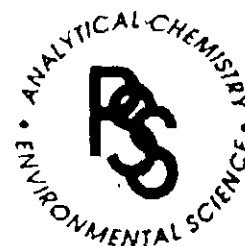
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000590

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 27 of 51
EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-14, 1-3	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

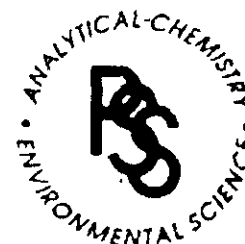
Qualifiers:

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000591

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 28 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-14, 5-7				
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

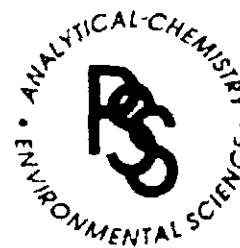
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000592

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 29 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/27/99

Volatile Organic Compounds

Sample ID: B-15, 1-3	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

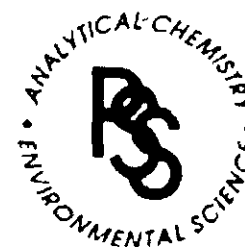
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000593

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 30 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-15, 6-7.5	Result	Unit		Result	Unit
Benzene *	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

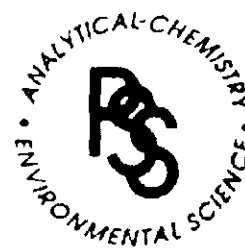
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000594

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 31 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/26/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-16, 1-3			trans-1,2-Dichloroethene	< 0.500	mg/kg
benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
monobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

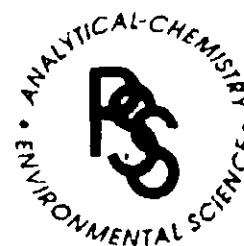
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000595

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 32 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-16, 5-7			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

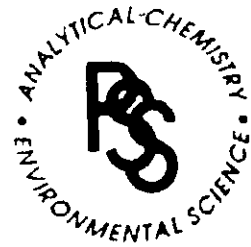
Reviewed By:
 Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000596

OFFICES:
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 33 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-17, 2-4			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

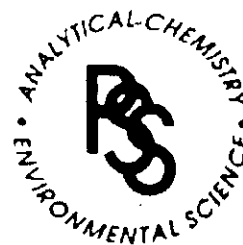
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000597

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6630 BALTIMORE NAT'L PIKE
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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 35 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-18, 1-3	Result	Unit	Result	Unit
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

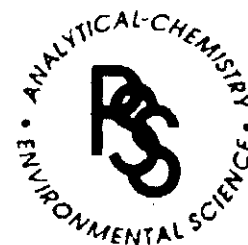
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000599

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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 36 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-18, 6-8	Result	Unit		Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	b 0.59	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

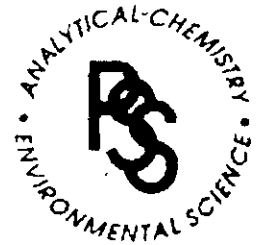
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:
b - found in blank / suspected lab artifact

AR000600

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6630 BALTIMORE NAT'L PIKE
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 37 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/21/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-19, 2-4	Result	Unit		Result	Unit
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	<i>p</i> -Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl- <i>t</i> -butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	<i>n</i> -Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

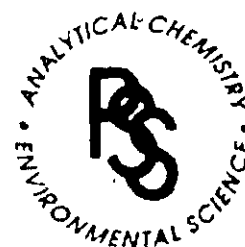
Qualifiers:

Reviewed By: Matt Cohee
Quality Assurance Chemist

AR000601

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 38 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/21/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-19, 6-8				
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

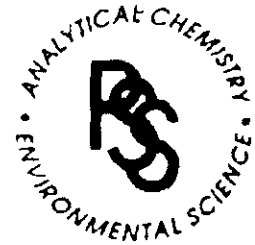
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000602

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 39 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-20, 1-3				
nzene*	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	eb 0.50 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

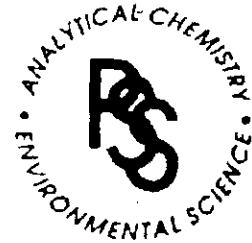
Qualifiers:

- b - found in blank / suspected lab artifact
- e - estimated value, less than reporting limit

AR000603

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 42 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-22, 6-8				
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
toluene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

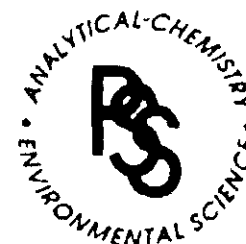
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000606

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 43 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-23, 1-3			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

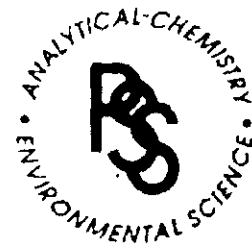
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000607

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 44 of 51
EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-23, 5-6.5	Result	Unit		Result	Unit
	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
chlorobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

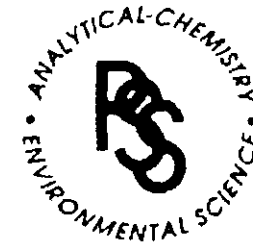
Qualifiers:

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000608

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 45 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-24, 1-3	Result	Unit	Sample ID: B-24, 1-3	Result	Unit
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

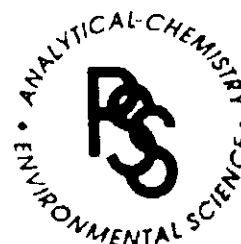
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000609

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 46 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Compound	Result	Unit
B-24, 5-7					
benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
toluene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

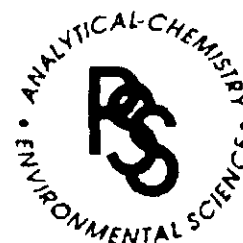
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000610

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 47 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/22/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID: B-25, 2-4	Result	Unit		Result	Unit
	<hr/>			<hr/>	
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg

Method(s): 5035/8260

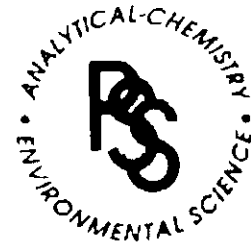
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000611

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 48 of 51
 EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-25, 10-11.5			trans-1,2-Dichloroethene	< 0.500	mg/kg
nzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
ombenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

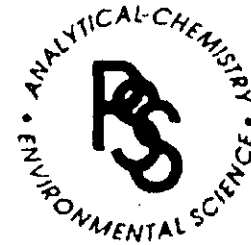
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000612

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 49 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/22/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-26, 1-3				
Benzene	< 0.500	mg/kg	trans-1,2-Dichloroethene	< 0.500 mg/kg
Bromobenzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500 mg/kg
Bromochloromethane	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500 mg/kg
Bromodichloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500 mg/kg
Bromoform	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500 mg/kg
Bromomethane	< 0.500	mg/kg	Ethylbenzene	< 0.500 mg/kg
n-Butylbenzene	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500 mg/kg
sec-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500 mg/kg
tert-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500 mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methylene chloride	< 0.500 mg/kg
Chlorobenzene	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500 mg/kg
Chloroethane	< 0.500	mg/kg	Naphthalene	< 0.500 mg/kg
Chloroform	< 0.500	mg/kg	n-Propylbenzene	< 0.500 mg/kg
Chloromethane	< 0.500	mg/kg	Styrene	< 0.500 mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500 mg/kg
4-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500 mg/kg
Dibromochloromethane	< 0.500	mg/kg	Tetrachloroethene	< 0.500 mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	Toluene	< 0.500 mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500 mg/kg
Dibromomethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500 mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500 mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500 mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500 mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500 mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500 mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500 mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Vinyl chloride	< 0.500 mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500 mg/kg

Method(s): 5035/8260

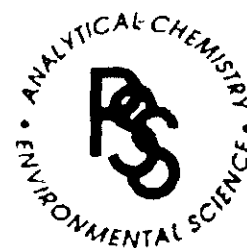
Qualifiers:

Reviewed By: Matt Cohee
Quality Assurance Chemist

AR000613

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99102225 Page 50 of 51
EMG, Inc.
 October 29, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 64450
 Matrix: Soil
 Date Sampled: 10/22/99
 Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-26, 3-4			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

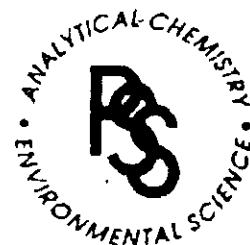
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

AR000614

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6630 BALTIMORE NAT'L PIKE
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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99102225 Page 51 of 51
EMG, Inc.
October 29, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 64450
Matrix: Soil
Date Sampled: 10/22/99
Date Received: 10/22/99

Date Analyzed: 10/28/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-21, 1-3			trans-1,2-Dichloroethene	< 0.500	mg/kg
Benzene	< 0.500	mg/kg	1,2-Dichloropropane	< 0.500	mg/kg
Bromobenzene	< 0.500	mg/kg	1,3-Dichloropropane	< 0.500	mg/kg
Bromochloromethane	< 0.500	mg/kg	2,2-Dichloropropane	< 0.500	mg/kg
Bromodichloromethane	< 0.500	mg/kg	1,1-Dichloropropene	< 0.500	mg/kg
Bromoform	< 0.500	mg/kg	Ethylbenzene	< 0.500	mg/kg
Bromomethane	< 0.500	mg/kg	Hexachlorobutadiene	< 0.500	mg/kg
n-Butylbenzene	< 0.500	mg/kg	Isopropylbenzene	< 0.500	mg/kg
sec-Butylbenzene	< 0.500	mg/kg	p-Isopropyltoluene	< 0.500	mg/kg
tert-Butylbenzene	< 0.500	mg/kg	Methylene chloride	< 0.500	mg/kg
Carbon tetrachloride	< 0.500	mg/kg	Methyl-t-butyl ether	< 0.500	mg/kg
Chlorobenzene	< 0.500	mg/kg	Naphthalene	< 0.500	mg/kg
Chloroethane	< 0.500	mg/kg	n-Propylbenzene	< 0.500	mg/kg
Chloroform	< 0.500	mg/kg	Styrene	< 0.500	mg/kg
Chloromethane	< 0.500	mg/kg	1,1,1,2-Tetrachloroethane	< 0.500	mg/kg
2-Chlorotoluene	< 0.500	mg/kg	1,1,2,2-Tetrachloroethane	< 0.500	mg/kg
4-Chlorotoluene	< 0.500	mg/kg	Tetrachloroethene	< 0.500	mg/kg
Dibromochloromethane	< 0.500	mg/kg	Toluene	< 0.500	mg/kg
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg	1,2,3-Trichlorobenzene	< 0.500	mg/kg
1,2-Dibromoethane	< 0.500	mg/kg	1,2,4-Trichlorobenzene	< 0.500	mg/kg
Dibromomethane	< 0.500	mg/kg	1,1,1-Trichloroethane	< 0.500	mg/kg
1,2-Dichlorobenzene	< 0.500	mg/kg	1,1,2-Trichloroethane	< 0.500	mg/kg
1,3-Dichlorobenzene	< 0.500	mg/kg	Trichloroethene	< 0.500	mg/kg
1,4-Dichlorobenzene	< 0.500	mg/kg	1,2,3-Trichloropropane	< 0.500	mg/kg
Dichlorodifluoromethane	< 0.500	mg/kg	1,2,4-Trimethylbenzene	< 0.500	mg/kg
1,1-Dichloroethane	< 0.500	mg/kg	1,3,5-Trimethylbenzene	< 0.500	mg/kg
1,2-Dichloroethane	< 0.500	mg/kg	Vinyl chloride	< 0.500	mg/kg
1,1-Dichloroethene	< 0.500	mg/kg	Xylenes, total	< 1.500	mg/kg
cis-1,2-Dichloroethene	< 0.500	mg/kg			

Method(s): 5035/8260

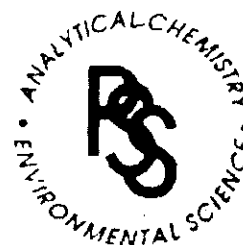
Reviewed By: Matt Cohee
Quality Assurance Chemist

Qualifiers:

AR000615

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 1 of 9
 EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-22A, 6-8			trans-1,2-Dichloroethene	< 5	ug/kg
Benzene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
Bromobenzene	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromoform	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	Methylene chloride	b 14	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chlorobenzene	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroethane	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloroform	< 5	ug/kg	Styrene	< 5	ug/kg
Chloromethane	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	Trichloroethene	< 5	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg
cis-1,2-Dichloroethene	< 5	ug/kg			

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

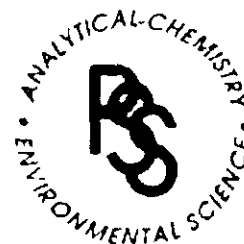
Qualifiers:

b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000616

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 2 of 9
 EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-22B, 1-3				
Benzene -	< 5	ug/kg	trans-1,2-Dichloroethene	< 5 ug/kg
Bromobenzene	< 5	ug/kg	1,2-Dichloropropane	< 5 ug/kg
Bromochloromethane	< 5	ug/kg	1,3-Dichloropropane	< 5 ug/kg
Bromodichloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5 ug/kg
Bromoform	< 5	ug/kg	1,1-Dichloropropene	< 5 ug/kg
Bromomethane	< 5	ug/kg	Ethylbenzene	< 5 ug/kg
n-Butylbenzene	< 5	ug/kg	Hexachlorobutadiene	< 5 ug/kg
sec-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5 ug/kg
tert-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5 ug/kg
Carbon tetrachloride	< 5	ug/kg	Methylene chloride	b 14 ug/kg
Chlorobenzene	< 5	ug/kg	Methyl-t-butyl ether	< 5 ug/kg
Chloroethane	< 5	ug/kg	Naphthalene	< 5 ug/kg
Chloroform	< 5	ug/kg	n-Propylbenzene	< 5 ug/kg
Chloromethane	< 5	ug/kg	Styrene	< 5 ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5 ug/kg
4-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5 ug/kg
Dibromochloromethane	< 5	ug/kg	Tetrachloroethene	< 5 ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	Toluene	< 5 ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5 ug/kg
Dibromomethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5 ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,1-Trichloroethane	< 5 ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5 ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	Trichloroethene	< 5 ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,3-Trichloropropane	< 5 ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5 ug/kg
1,2-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5 ug/kg
1,1-Dichloroethene	< 5	ug/kg	Vinyl chloride	< 5 ug/kg
cis-1,2-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15 ug/kg

Method(s): 5035/8260

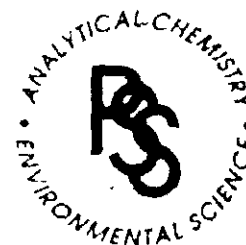
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:
 b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000617

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 3 of 9
 EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-22B, 5-6.5			trans-1,2-Dichloroethene	< 5	ug/kg
benzene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
toluene	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromoform	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	p-isopropyltoluene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	Methylene chloride	b 11	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chlorobenzene	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroethane	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloroform	< 5	ug/kg	Styrene	< 5	ug/kg
Chloromethane	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	Trichloroethene	< 5	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg
cis-1,2-Dichloroethene	< 5	ug/kg			

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

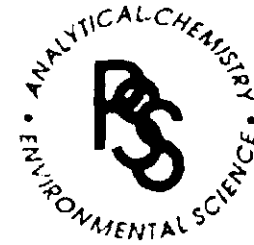
Qualifiers:

b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000618

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 4 of 9
EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

	Result	Unit		Result	Unit
Sample ID: B-22C, 1-3			trans-1,2-Dichloroethene	< 5	ug/kg
Benzene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
Bromobenzene	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromoform	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	Methylene chloride	b 18	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chlorobenzene	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroethane	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloroform	< 5	ug/kg	Styrene	< 5	ug/kg
Chloromethane	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	Trichloroethene	< 5	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg
cis-1,2-Dichloroethene	< 5	ug/kg			

Method(s): 5035/8260

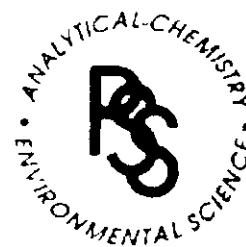
Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:
 b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000619

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 5 of 9
 EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

	Result	Unit		Result	Unit
Sample ID: B-22C, 5-7					
benzene	< 5	ug/kg	trans-1,2-Dichloroethene	< 5	ug/kg
toluene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromoform	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	isopropylbenzene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methylene chloride	b 10	ug/kg
Chlorobenzene	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chloroethane	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroform	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloromethane	< 5	ug/kg	Styrene	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	1,1,1,2,2-Tetrachloroethane	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	Trichloroethene	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
cis-1,2-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

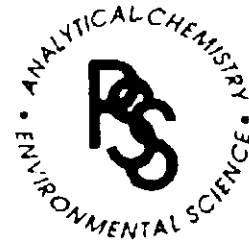
Qualifiers:

b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000620

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99110925 Page 6 of 9
EMG, Inc.
November 11, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 199938981
Matrix: Soil
Date Sampled: 11/09/99
Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

	Result	Unit		Result	Unit
Sample ID: B-22D, 1-3			trans-1,2-Dichloroethene	< 5	ug/kg
Benzene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
Bromobenzene	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromoform	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	Methylene chloride	b 11	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chlorobenzene	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroethane	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloroform	< 5	ug/kg	Styrene	< 5	ug/kg
Chloromethane	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	Trichloroethene	12	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,3,5-Trmethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg
cis-1,2-Dichloroethene	26	ug/kg			

Method(s): 5035/8260

Reviewed By: Matt Cohee
Quality Assurance Chemist

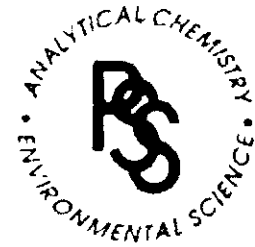
Qualifiers:

b - found in blank / suspected lab artifact
Sample reported on a dry weight basis.

AR000621

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 7 of 9
EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

Sample ID:	Result	Unit		Result	Unit
B-22D, 3-5			trans-1,2-Dichloroethene	< 5	ug/kg
Benzene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
Bromobenzene	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromoform	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	Methylene chloride	b 11	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chlorobenzene	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroethane	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloroform	< 5	ug/kg	Styrene	< 5	ug/kg
Chloromethane	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	Trichloroethene	73	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg
trans-1,2-Dichloroethene	61	ug/kg			

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

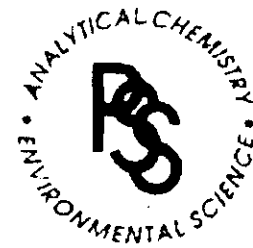
Qualifiers:

b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000622

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
No. 99110925 Page 8 of 9
EMG, Inc.
November 11, 1999

Project: North Penn 7
Site Location: Lansdale, PA
Project Number: 199938981
Matrix: Soil
Date Sampled: 11/09/99
Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

Sample ID:	Result	Unit	Result	Unit
B-22E, 1-3				
Benzene	< 5	ug/kg	trans-1,2-Dichloroethene	< 5 ug/kg
Bromobenzene	< 5	ug/kg	1,2-Dichloropropane	< 5 ug/kg
Bromochloromethane	< 5	ug/kg	1,3-Dichloropropane	< 5 ug/kg
Bromodichloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5 ug/kg
Bromoform	< 5	ug/kg	1,1-Dichloropropene	< 5 ug/kg
Bromomethane	< 5	ug/kg	Ethylbenzene	< 5 ug/kg
n-Butylbenzene	21	ug/kg	Hexachlorobutadiene	< 5 ug/kg
sec-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5 ug/kg
tert-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5 ug/kg
Carbon tetrachloride	< 5	ug/kg	Methylene chloride	b 9 ug/kg
Chlorobenzene	< 5	ug/kg	Methyl-t-butyl ether	< 5 ug/kg
Chloroethane	< 5	ug/kg	Naphthalene	22 ug/kg
Chloroform	< 5	ug/kg	n-Propylbenzene	16 ug/kg
Chloromethane	< 5	ug/kg	Styrene	< 5 ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5 ug/kg
4-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5 ug/kg
Dibromochloromethane	< 5	ug/kg	Tetrachloroethene	< 5 ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	Toluene	< 5 ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5 ug/kg
Dibromomethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5 ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,1-Trichloroethane	< 5 ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5 ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	Trichloroethene	24 ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,3-Trichloropropane	< 5 ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,2,4-Trimethylbenzene	28 ug/kg
1,2-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5 ug/kg
1,1-Dichloroethene	< 5	ug/kg	Vinyl chloride	< 5 ug/kg
cis-1,2-Dichloroethene	16	ug/kg	Xylenes, total	< 15 ug/kg

Method(s): 5035/8260

Reviewed By: Matt Cohee
Quality Assurance Chemist

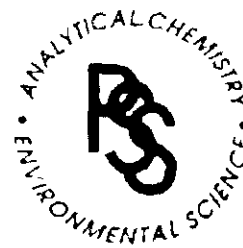
Qualifiers:

b - found in blank / suspected lab artifact
Sample reported on a dry weight basis.

AR000623

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99110925 Page 9 of 9
EMG, Inc.
 November 11, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 199938981
 Matrix: Soil
 Date Sampled: 11/09/99
 Date Received: 11/09/99

Date Analyzed: 11/10/99

Volatile Organic Compounds

Sample ID: B-22E, 7-9	Result	Unit		Result	Unit
benzene	< 5	ug/kg	trans-1,2-Dichloroethene	< 5	ug/kg
toluene	< 5	ug/kg	1,2-Dichloropropane	< 5	ug/kg
Bromochloromethane	< 5	ug/kg	1,3-Dichloropropane	< 5	ug/kg
Bromodichloromethane	< 5	ug/kg	2,2-Dichloropropane	< 5	ug/kg
Bromoform	< 5	ug/kg	1,1-Dichloropropene	< 5	ug/kg
Bromomethane	< 5	ug/kg	Ethylbenzene	< 5	ug/kg
n-Butylbenzene	< 5	ug/kg	Hexachlorobutadiene	< 5	ug/kg
sec-Butylbenzene	< 5	ug/kg	Isopropylbenzene	< 5	ug/kg
tert-Butylbenzene	< 5	ug/kg	p-Isopropyltoluene	< 5	ug/kg
Carbon tetrachloride	< 5	ug/kg	Methylene chloride	b 12	ug/kg
Chlorobenzene	< 5	ug/kg	Methyl-t-butyl ether	< 5	ug/kg
Chloroethane	< 5	ug/kg	Naphthalene	< 5	ug/kg
Chloroform	< 5	ug/kg	n-Propylbenzene	< 5	ug/kg
Chloromethane	< 5	ug/kg	Styrene	< 5	ug/kg
2-Chlorotoluene	< 5	ug/kg	1,1,1,2-Tetrachloroethane	< 5	ug/kg
4-Chlorotoluene	< 5	ug/kg	1,1,2,2-Tetrachloroethane	< 5	ug/kg
Dibromochloromethane	< 5	ug/kg	Tetrachloroethene	< 5	ug/kg
1,2-Dibromo-3-chloropropane	< 5	ug/kg	Toluene	< 5	ug/kg
1,2-Dibromoethane	< 5	ug/kg	1,2,3-Trichlorobenzene	< 5	ug/kg
Dibromomethane	< 5	ug/kg	1,2,4-Trichlorobenzene	< 5	ug/kg
1,2-Dichlorobenzene	< 5	ug/kg	1,1,1-Trichloroethane	< 5	ug/kg
1,3-Dichlorobenzene	< 5	ug/kg	1,1,2-Trichloroethane	< 5	ug/kg
1,4-Dichlorobenzene	< 5	ug/kg	Trichloroethene	< 5	ug/kg
Dichlorodifluoromethane	< 5	ug/kg	1,2,3-Trichloropropane	< 5	ug/kg
1,1-Dichloroethane	< 5	ug/kg	1,2,4-Trimethylbenzene	< 5	ug/kg
1,2-Dichloroethane	< 5	ug/kg	1,3,5-Trimethylbenzene	< 5	ug/kg
1,1-Dichloroethene	< 5	ug/kg	Vinyl chloride	< 5	ug/kg
cis-1,2-Dichloroethene	< 5	ug/kg	Xylenes, total	< 15	ug/kg

Method(s): 5035/8260

Reviewed By: Matt Cohee
 Quality Assurance Chemist

Qualifiers:

b - found in blank / suspected lab artifact
 Sample reported on a dry weight basis.

AR000624



SAMPLE CHAIN OF CUSTODY/ANALYSIS REPORT FORM
PHASE SEPARATION SCIENCE, INC.

1 CLIENT: **EMG** PHONE NO: **(800) 733 0660** PAGE **1** OF **6**

PROJECT MGR: **L. HOGG** FAX NO: **(410) 785 6220**

PROJECT NAME: **NORTH PENN 7**

SITE LOCATION: **LANSDALE, PA**

PROJECT NUMBER: **64450**

P.O. NUMBER: **↑**

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used Analysis Required 3	REMARKS	Shipping Carrier	Samples Received Cold? (Circle) YES NO
✓	B-1, 1-3	10-21-99		SOIL	3	G	✓	*All Encores -high level-	PERSON	ON ice
✓	B-1, 6-7.5						✓			
✓	B-2, 1-3						✓			
✓	B-2, 4-6						✓			
✓	B-3, 2-14						✓			
✓	B-3, 8-10						✓			
✓	B-4, 1-3						✓			
✓	B-4, 6-7.5						✓			
✓	B-5, 2-4						✓			
✓	B-5, 9-11						✓			

4 Shipping Carrier: **PERSON**

Shipping Ticket No: **PERSON**

Data Deliverables Required: **Level I Level II Level III**

Temperature °C: **ON ice**

Chain of Custody Seal: (Circle) **HAND CARRIED**
BROKEN ABSENT

Requested Turnaround Time and Special Instructions: **STANDARD TAT**

5 Collected / Relinquished By: (1) **LEE HOGG** Date: **10-22-99** Received By: _____

Relinquished By: (2) **[Signature]** Date: **10-22-99** Received By: _____

Relinquished By: (3) _____ Date: _____ Received By: _____

Relinquished By: (4) _____ Date: **10/22/99 5:45pm** Received For Laboratory By: **Matt Cough**



SAMPLE Chain of Custody - WYANDOTMLL CRT.
PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EMG PHONE NO: (800) 733 0660
 PROJECT MGR: L. HOGG FAX NO: (410) 785 6220
 PROJECT NAME: NOBETH PENN 7
 SITE LOCATION: LANSDALE, PA
 PROJECT NUMBER: 64450
 P.O. NUMBER: 71

PSS Project: _____ PAGE 2 OF 6

No.	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
CONTAINERS	C= COMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	G= GRAB			
✓	B-6, 1-3			SOIL 3
✓	B-6, 6-8			
✓	B-7, 2-4			
✓	B-7, 13-15			
✓	B-8, 1-3			
✓	B-8, 6-8			
✓	B-9, 1-3			
✓	B-9, 6-7.5			
✓	B-10, 2-4			
✓	B-10, 6-8			

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
✓	B-6, 1-3	10-2-99		SOIL 3
✓	B-6, 6-8			
✓	B-7, 2-4			
✓	B-7, 13-15			
✓	B-8, 1-3			
✓	B-8, 6-8			
✓	B-9, 1-3			
✓	B-9, 6-7.5			
✓	B-10, 2-4			
✓	B-10, 6-8			

3 Collected / Relinquished By: (1) LEE HOGG Date 10-2-99 Received By: _____
 Relinquished By: (2) See Top Date _____ Received By: _____
 Relinquished By: (3) _____ Date _____ Received By: _____
 Relinquished By: (4) _____ Date 10/22/99 5:45P Received For Laboratory By: Math (Blue)

4 Shipping Carrier: _____ Samples Received Cold? (Circle) YES NO
 Shipping Ticket No: See Top Temperature to: 6.0
 Data Deliverables Required: _____ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
 Level I Level II Level III
 Requested Turnaround Time and Special Instructions: STAND AREA TMT

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: **EMG** PHONE NO: **800 737 0660**
 PROJECT MGR: **L. HOGG** FAX NO: **(410) 785 6220**
 PROJECT NAME: **NORTH PENN 7**
 SITE LOCATION: **LANSDALE PA**
 PROJECT NUMBER: **64450**
 P.O. NUMBER: **7**

PSS Project: _____
 PAGE **3** OF **6**

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
✓ B-11, 1-3		10-21-99		501C
✓ B-11, 5-7				
✓ B-12, 2-4				
✓ B-12, 11-13				
✓ B-13, 2-4				
✓ B-13, 10-12				
✓ B-14, 1-3				
✓ B-14, 5-7				
✓ B-15, 1-3				
✓ B-15, 6-7.5				

No.	SAMPLE TYPE	CONTAINERS	Preservatives Used	Analysis Required	REMARKS
3	G		100	3 VOCs 8266	

5 Collected / Relinquished By: (1) **L. HOGG** Date **10-21-99** Received By: _____
 Relinquished By: (2) **L. HOGG** Date _____ Received By: _____
 Relinquished By: (3) _____ Date _____ Received By: _____
 Relinquished By: (4) _____ Date **10/22/99 5:45pm** Received For Laboratory By: **Mark Cole**

4 Shipping Carrier: **see pg 1 of file** Samples Received Cold? (Circle) YES NO
 Shipping Ticket No: _____ Temperature C: _____
 Data Deliveries Required: _____ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
 Level I Level II Level III
 Requested Turnaround Time and Special Instructions: **STANDARD TAT**



SAMPLE Chain of Custody ANALYTICAL CHEMISTRY
PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EMG PHONE NO: (800) 733 0660
 PROJECT MGR: L. HOAG FAX NO: (410) 785 6220
 PROJECT NAME: NORTH PENN 7
 SITE LOCATION: LANSDALE, PA
 PROJECT NUMBER: 64450
 P.O. NUMBER: →

PSS Project: _____ PAGE 4 OF 6

No.	SAMPLE TYPE	C= COMP	G= GRAB	PRESERVATIVES USED	ANALYSIS REQUIRED	REMARKS
✓	B-16	1-3				SOIL 3
✓	B-16	5-7				
✓	B-17	2-4				
✓	B-17	6-8				
✓	B-18	1-3				
✓	B-18	6-8				
✓	B-19	2-4				
✓	B-19	6-8				
✓	B-20	1-3				
✓	B-20	3-4				

2 Shipping Carrier: _____ Samples Received Cold? (Circle) YES NO
 Shipping Ticket No: See Page 1 of 6 Temperature °C: 6
 Data Deliveries Required: _____ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
 Level I Level II Level III
 Requested Turnaround Time and Special Instructions: STANDARD T.A.T.

3 Collected / Relinquished By: (1) L. HOAG Date 10-22-99 Time _____ Received By: _____
 Relinquished By: (2) [Signature] Date 10-22-99 Time _____ Received By: _____

4 Relinquished By: (3) _____ Date _____ Time _____ Received By: _____
 Relinquished By: (4) _____ Date 10/22/99 Time 5:45 pm Received For Laboratory By: Math Chue



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

1 CLIENT: **ENG** PHONE NO: **800 733 0660** FAX NO: **(910) 785 6220** PROJECT MGR: **L. HOGAN** PROJECT NAME: **NORTH PEOW 7** SITE LOCATION: **LANSDALE, PA** PROJECT NUMBER: **64450** P.O. NUMBER: **7**

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
✓	B-22, 2-4	10-22-99		SOIL	3	G	✓	✓	
✓	B-22, 6-8						✓	✓	
✓	B-23, 1-3						✓	✓	
✓	B-23, 5-6.5						✓	✓	
✓	B-24, 1-3						✓	✓	
✓	B-24, 5-7						✓	✓	
✓	B-25, 2-4						✓	✓	
✓	B-25, 10-14.5						✓	✓	
✓	B-26, 1-3						✓	✓	
✓	B-26, 3-4						✓	✓	

3

4 Shipping Carrier: **See Pg. 1 of 6** Sample Condition Upon Receipt: **COOLER** CONTAINER
 Shipping Ticket No: **See Pg. 1 of 6** Chain of Custody Seal:
 Data Deliverables Required: **STANDARD DAT** Level I Level II Level III
 Requested Turnaround Time and Special Instructions: **STANDARD DAT**

5

Collected / Relinquished By: (1) **LEE HOGAN** Date: **10-22-99** Received By: **Keith Olee**
 Relinquished By: (2) **Lee Hogan** Date: **10-22-99** Received By: **Keith Olee**
 Relinquished By: (3) Received By:
 Relinquished By: (4) Received For Laboratory By: **Keith Olee**



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

1 CLIENT: EMC PHONE NO: (800) 733 0660
 PROJECT MGR: L HOGG FAX NO: (40) 785 6220
 PROJECT NAME: NORTH PENN 7
 SITE LOCATION: UNSDALE, PA
 PROJECT NUMBER: 64450
 P.O. NUMBER: 1

PSS Project #: _____
 PAGE 6 OF 6

No.	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
1	C	ICE	3	VOCs B160
2	CONTAINERS			
3	G			
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

5 Collected / Relinquished By: (1) LEE HOGG Date 10/22/99 Time 5:45 Received By: _____
 Relinquished By: (2) Lee Hogg Date _____ Time _____ Received By: _____
 Relinquished By: (3) _____ Date _____ Time _____ Received By: _____
 Relinquished By: (4) _____ Date 10/22/99 Time 5:45 pm Received For Laboratory By: Math Choe

Shipping Carrier: _____ Sample Condition Upon Receipt: _____
 Shipping Ticket No: See Pgs 1 of 6
 Data Deliverables Required: _____ Chain of Custody Seat: _____
 Level I Level II Level III COOLER CONTAINER
 Requested Turnaround Time and Special Instructions: STANDARD T.A.T.



PHASE SEPARATION SCIENCE, INC.

1

CLIENT: **EMG** PHONE NO: **(800) 733-0660** FAX NO: **(410) 755-6322** PSS Project #: **99109-25** PAGE **1** OF **1**

PROJECT MGR: **L. HOGG** PROJECT NAME: **NORTH PENN 7**

SITE LOCATION: **LANSDALE, PA**

PROJECT NUMBER: **199938981**

P.O. NUMBER: **→**

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No.	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	B-22A, 1-3	11-9-99		SOIL	3	G	ICE	3	HOLD
	B-22A, 6-8								
	B-22B, 1-3								
	B-22B, 5-6.5								
	B-22C, 1-3								
	B-22C, 5-7								
	B-22D, 1-3								
	B-22D, 3-5								
	B-22E, 1-3								
	B-22E, 7-9								

2

3

4

5

Collected / Relinquished By: (1) **LEE HOGG** Received By: **Lee Hogg**

Relinquished By: (2) **Lee Hogg** Date: **11-9-99** Time: **4:35**

Relinquished By: (3)

Relinquished By: (4) **Lee Hogg** Date: **11/9/99** Time: **4:35**

Shipping Carrier: **24 HR T.F.T. - NEEDS DUE THU. 11-11-99**

Shipping Ticket No:

Data Deliverables Required: **SODIUM BISULFATE & METHANOL. PRESERVATION: RUN SODIUM BISULFATE FIRST. 2 ENCORES PER SAMPLE**

Level I Level II Level III

Requested Turnaround Time and Special Instructions: **COOLER CONTAINER**

Chain of Custody Seal: **Spoke to Jeffs. DUE THU. 11-11-99**



64450 (A03), 65199

Appendix - E
Initial Phase II Investigation, EMG Project #62882

AR000632

EMG

Prepared for: **Progress Development, L.P.
595 Skippack Pike, Suite 100
Blue Bell, Pennsylvania 19422
Mr. Vince Santore**

**Phase II
Environmental Assessment
Of
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446**

EMG Project No: 62882

Date: September 14, 1999

Prepared by: **EMG
EMG Corporate Center
11011 McCormick Road
Baltimore, Maryland 21031
(410) 785-6200
(410) 785-6220 (fax)**

AR000633



September 14, 1999

Mr. Vince Santore
Progress Development, L.P.
595 Skippack Pike, Suite 100
Blue Bell, Pennsylvania 19422

RE: Phase II Environmental Assessment
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446
EMG Project No. 62882

Dear Mr. Santore:

EMG has performed a Phase II Environmental Assessment at the above referenced property, which consisted of a subsurface investigation. The investigation was performed to address former on-site landfill operations. According to EMG's Phase I ESA (Project # 61117) of the Project in August 1999, a small portion of the Project (approximately one-quarter acre in area) west/northwest of the Project building was previously used for dumping/landfill purposes.

The subsurface investigation consisted of the advancement of four Geoprobe soil borings within the brushy area to the northwest of the Project building and the advancement of one soil boring within the asphalt parking area to the north of the Project building (east of the estimated landfill area). Selected soil samples collected from the soil borings were analyzed for various analytical parameters. The results of the assessment are further discussed in the attached report.

We have appreciated the opportunity to provide you with this service. If you have any questions regarding the Project, please feel free to call us at your convenience.

Surveyed by: Lee Hogg, CPG

Written by: Lee Hogg, CPG

Reviewed by:

Jeffrey T. Smith
Senior Program Supervisor

AR000634

EMG

**Phase II Environmental Assessment
North Penn 7
1180 Church Road
Lansdale, Pennsylvania 19446
EMG Project #62882**

AR000635



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- 1. Introduction 1
- 2. Environmental Investigation 2
 - 2.1. Subsurface Soil Sampling Program..... 2
- 3. Sample Collection and Analysis 3
 - 3.1. Soil Sample Collection..... 3
- 4. Analytical Results 4
- 5. Discussion and Conclusions..... 5
- 6. Qualifications 6
- 7. Appendices..... 7

AR000636

1. Introduction

EMG was contracted by Progress Management, L.P. to perform a Phase II Environmental Assessment at North Penn 7, Lansdale, Pennsylvania.

The investigation was performed to address former on-site landfill operations. According to EMG's Phase I ESA (Project # 61117) of the Project in August 1999, a small portion of the Project (approximately one-quarter acre in area) west/northwest of the Project building was previously used for dumping/landfill purposes. The scope of work for the Phase II Assessment is outlined below.

■ Subsurface Sampling

- EMG obtained the services of Mud Environmental Services to advance five Geoprobe soil borings on the Project. Soil borings B-1 through B-4 were advanced within the brushy area covering the suspected landfill, while soil boring B-5 (background boring) was advanced within the asphalt parking area to the east and outside of the suspected landfill area.
- EMG monitored the advancement of the Geoprobe soil borings to equipment refusal depths of 7 to 11 feet below the ground surface. Ground water was not encountered in any of the soil borings. Soil samples were collected at four-foot depth increments from the soil borings. No unusual odors or stains were detected in any of the soil samples collected from the soil borings. Field screening of the soil samples with a Photoionization detector (PID) did not indicate the presence of volatile organic compound (VOC) contamination in any of the soil samples collected from the soil borings.
- Selected soil samples collected at various depths from the soil borings, were analyzed for Volatile Organic Compounds (VOCs) via EPA method 8260, Polynuclear Aromatic Hydrocarbons (PNAs) via EPA method 8270, and RCRA Metals.



2. Environmental Investigation

2.1. Subsurface Soil Sampling Program

August 30, 1999, EMG monitored the advancement of five Geoprobe soil borings on the Project. Four of the soil borings, B-1 through B-4, were advanced within the brushy area covering the estimated area of the suspect landfill, located to the northwest of the Project building. Background soil boring B-5 was advanced within the asphalt parking area to the east (outside the estimated boundaries) of the suspected landfill. All down-hole drilling equipment was thoroughly cleaned prior to commencement of drilling operations and between each boring and sampling interval. Soil samples were obtained continuously at four-foot intervals from each of the soil borings. The locations of the soil borings are indicated on the Boring Location Map included in Appendix A.

Soils encountered in the soil borings consisted of red-brown sandy SILT (ML), with varying amounts of rock fragments. The natural soils encountered in the borings advanced within the suspect landfill area were overlain by approximately 4 to 9 feet of brown and gray silty sand and sandy silt FILL, with varying amounts of rock fragments, gravel, crushed stone, wood, bricks, concrete, and metal. The natural soils encountered in background boring B-5 were overlain by approximately 1 foot of asphalt surface and crushed stone. Equipment refusal was encountered on rock in all of the soil borings at depths of approximately 7 to 11 feet below the ground surface. Moisture content of the soil samples at the time of the investigation was moderate. Ground water was not encountered in any of the soil borings to the depths investigated. No unusual odors or stains were noted in any of the soil samples. No elevated PID readings were noted in any of the soil samples.

Upon completion, the boreholes were backfilled with excess soil cuttings and bentonite chips, and patched with concrete where necessary.

AR000638

3. Sample Collection and Analysis

3.1. Soil Sample Collection

Soil samples were placed in pre-labeled glass jars with teflon-lined plastic lids for chemical analyses. A zero headspace sampling protocol was employed. This protocol requires packing the soil into the sampling jars such that the amount of free air space in the sample container is minimized. The samples selected for chemical analyses were immediately placed in a cooler for preservation. The soil samples were then delivered to an accredited laboratory for analyses. The analyses of the samples were performed within their respective holding times. The samples selected for analyses were analyzed for VOCs via EPA method 8260, PNAs via EPA method 8270, and RCRA Metals. Chain-of-custody was maintained utilizing laboratory chain-of-custody tracking forms.

AR000639



4. Analytical Results

Laboratory analyses were performed on the soil samples for VOCs, PNAs, and RCRA Metals. The analytical results for the soil samples are illustrated in Table 1 — Soil Sample Analytical Results. A copy of the analytical results and chain-of-custody are included in Appendix D.

TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS			
Sample No./Depth	VOCs (PPB)	PNAs (PPB)	RCRA Metals (PPM)
B-1, 9-11	ND	ND	Barium 140 Chromium 2.9 Lead 3.7
B-2, 2-4	ND	ND	Barium 160 Chromium 4.7 Lead 4.7
B-3, 8-9.5	ND	ND	Barium 110 Chromium 9.0 Lead 5.7
B-4, 2-4	ND	ND	Barium 150 Chromium 6.6 Lead 10
B-5, 5-7	ND	ND	Barium 110 Chromium 8.4 Lead 5.4

PPM = Parts Per Million (mg/kg)
 PPB = Parts Per Billion (ug/kg)
 ND = Non-detectable (below analytical method detection limit)
 Ranges of Metal Concentrations Naturally Occurring In Soils (USEPA)

Barium = 100 to 3000 ppm
 Chromium = 1 to 1000 ppm
 Lead = 2 to 200 ppm

AR000640

5. Discussion and Conclusions

Analysis of the soil samples for VOCs and PNAs did not reveal any concentrations above the analytical method detection limits. Analysis of the soil samples for RCRA Metals identified the presence of barium, chromium and lead. However, since these compounds were identified in the background sample, the presence of these compounds are considered to be naturally occurring rather than evidence of contamination resulting from the former landfilling operations. Additionally, the concentrations of metals identified fall within the range of these compounds that naturally occur in soil. Therefore, based on the results of the chemical analysis, EMG recommends no further investigations to address the former landfilling operations.

AR000641



6. Qualifications

EMG's professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental engineering and sciences. EMG is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The investigation performed for this Project is intended as a description of available information at the time of the investigation. This report does not warrant against future operations or conditions present of a type or at a location not investigated.

This report is exclusively for the use and benefit of the addressee(s) identified on the first page of this report and is not for the use or benefit of, nor may it be relied upon by any other person or entity. The contents of this report may not be quoted in whole or in part or distributed to any person or entity other than the addressee(s) hereof without, in each case, the advance written consent of EMG.

AR000642

7. Appendices

- Appendix A — Site Map
- Appendix B — Photographic Documentation
- Appendix C — Boring Logs
- Appendix D — Laboratory Results/Chain-of-Custody Forms

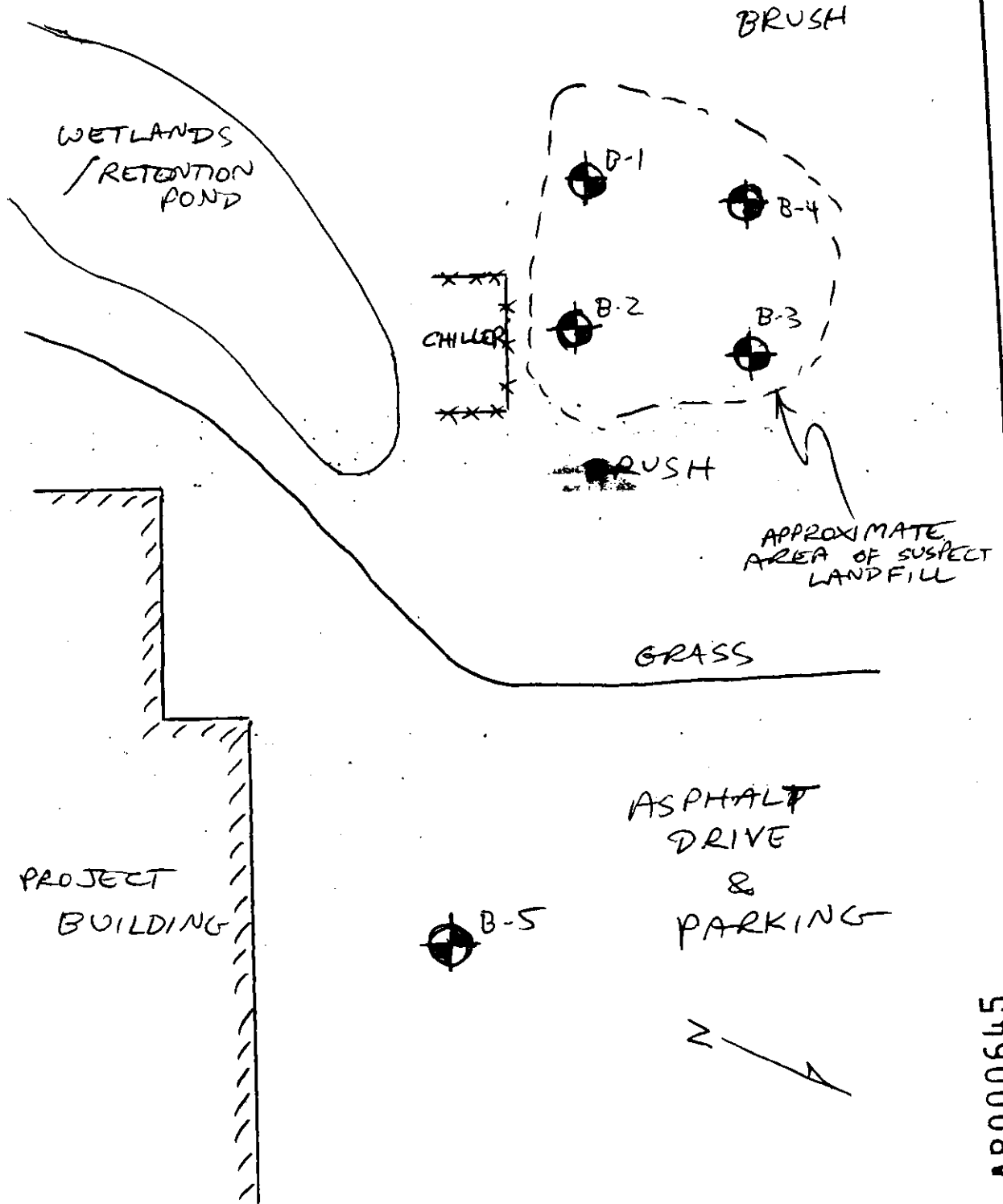
AR000643



62882

Appendix A
Site Map

AR000644



AR000645



Title: NORTH PENN 7

Date: 8-30-99

Scale: 1"=100'

Drawn: LAH

Job No.: 62882



62882

Appendix B
Photographic Documentation

AR000646



EMG PHOTOGRAPHIC RECORD

Project No.: 62882

Project Name: North Penn 7

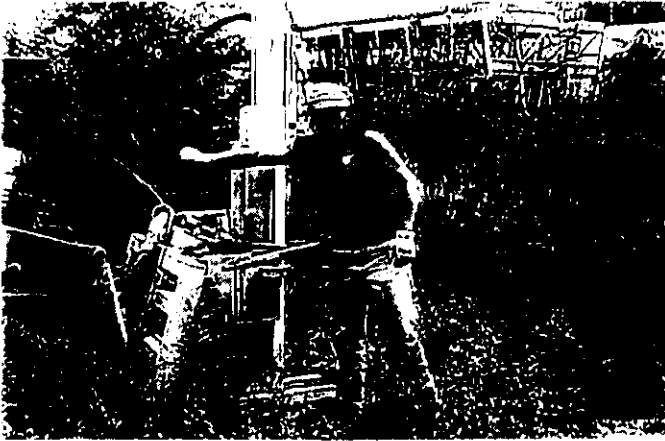


Photo #1: Soil boring — suspect landfill area

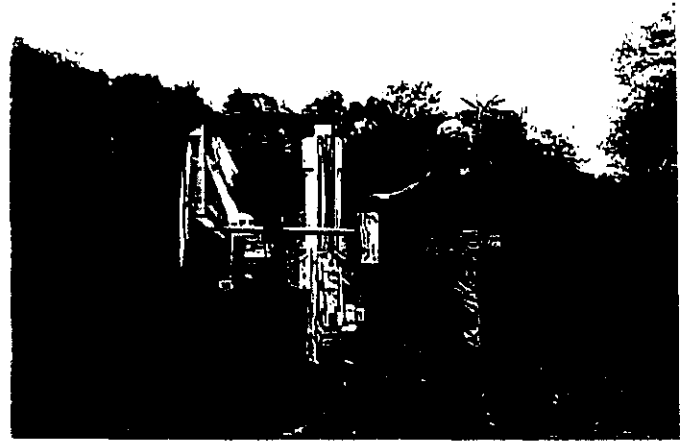


Photo #2: Soil boring — suspect landfill area



Photo #3: Background soil boring

AR000647



62882

Appendix C
Boring Logs

AR000648

SOIL BORING LOG - FIELD READINGS				
EMG Project # 62882				
Project NAME: <u>North Penn 7</u>				
BORING METHOD: <u>Geoprobe</u> DATE: <u>August 30, 1999</u>				
Sample #	Depth (FT)	Moisture (H-M-L)	PID Reading	Soil Description
B-1	0-4	M	0	Silty sand and sandy silt FILL, some rock fragments, gravel, crushed stone, and concrete, brown and gray, no odor
B-1	4-11	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 11'				
B-2	0-9	M	0	Silty sand and sandy silt FILL, some rock fragments, gravel, crushed stone, bricks, metal, and concrete, brown and gray, no odor
B-2	9-11	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 11'				
B-3	0-5	M	0	Silty sand and sandy silt FILL, some rock fragments, gravel, crushed stone, bricks, and concrete, brown and gray, no odor
B-3	5-9.5	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 9.5'				
B-4	0-4	M	0	Silty sand and sandy silt FILL, some rock fragments, gravel, crushed stone, bricks, and concrete, trace metal, brown and gray, no odor
B-4	4-9	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 9'				
B-5	0-1	M	0	Asphalt and crushed stone
B-5	1-7	M	0	Sandy SILT (ML), with rock fragments, red-brown, no odor
Refusal, Bottom of Boring at 7'				

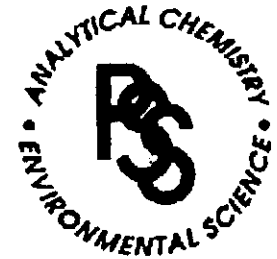
AR000649

Appendix D
Laboratory Results/ Chain-of-Custody Forms

AR000650

OFFICES:
 6630 BALTIMORE NAT'L PIKE
 ROUTE 40 WEST
 BALTIMORE, MD 21228
 410-747-8770
 300-932-9047
 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 1 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

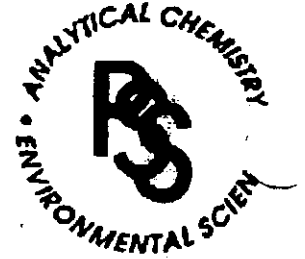
Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-19-11			Date Sampled: 8/30/99			
Polynuclear Aromatic Hydrocarbons						
Acenaphthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Acenaphthylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (b) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (g,h,i) perylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (k) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Chrysene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Dibenzo (a,h) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluorene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Indeno (1,2,3-cd) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
2-Methylnaphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Naphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Phenanthrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
RCRA Metals						
Arsenic	< 10	mg/kg	EPA 200.8	0.5	9/2/99	9/9/99
Barium	140	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Cadmium	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Chromium	2.9	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Lead	3.7	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Mercury	< 0.1	mg/kg	EPA 200.8	0.1	9/2/99	9/3/99
Selenium	< 5	mg/kg	EPA 200.9	5	9/11/99	9/13/99
Silver	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Volatile Organic Compounds						
Benzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromodichloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromoforn	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
sec-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
tert-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000651

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 2 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

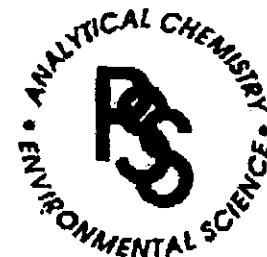
Date Received: 9/1/99

Sample ID: B-1-9-11	Result	Unit	Method	PQL	Prepared	Analyzed
Volatile Organic Compounds						
Carbon tetrachloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
4-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromoethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,4-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dichlorodifluoromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
cis-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
trans-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloropropene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Ethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Hexachlorobutadiene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Isopropylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
p-Isopropyltoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methylene chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methyl-t-butyl ether	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Naphthalene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Propylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Styrene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Tetrachloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000652

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 3 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-1,9-11			Date Sampled: 8/30/99			
Volatile Organic Compounds						
Toluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Trichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3,5-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Vinyl chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Xylenes, total	< 1.500	mg/kg dry	5035/8260	1.500		9/1/99

Notes/Comments:

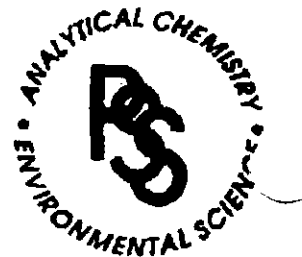
PQL - Practical Quantitation Limit

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000653

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 4 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

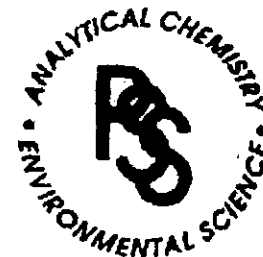
Date Received: 9/1/99

Sample ID:	Result	Unit	Method	PQL	Prepared	Analyzed
B-2, 2-4						
Date Sampled:						8/30/99
Polynuclear Aromatic Hydrocarbons						
Acenaphthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Acenaphthylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (b) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (g,h,i) perylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (k) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Chrysene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Dibenzo (a,h) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluorene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Indeno (1,2,3-cd) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
2-Methylnaphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Naphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Phenanthrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
RCRA Metals						
Arsenic	< 5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Barium	160	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Cadmium	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Chromium	4.7	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Lead	4.7	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Mercury	< 0.1	mg/kg	EPA 200.8	0.1	9/2/99	9/3/99
Selenium	< 5	mg/kg	EPA 200.9	5	9/11/99	9/13/99
Silver	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Volatile Organic Compounds						
Benzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromodichloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromoform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
sec-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
tert-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000654

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 5 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

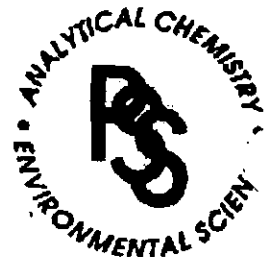
Date Received: 9/1/99

Sample ID:	Result	Unit	Method	PQL	Prepared	Analyzed
B-2-2-1						
Volatile Organic Compounds						
Carbon tetrachloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
4-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromoethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,4-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dichlorodifluoromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
cis-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
trans-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloropropene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Ethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Hexachlorobutadiene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Isopropylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
p-Isopropyltoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methylene chloride	b 0.73	mg/kg dry	5035/8260	0.500		9/1/99
Methyl-t-butyl ether	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Naphthalene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Propylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Styrene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Tetrachloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000655

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 6 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-2-2			Date Sampled			
Volatile Organic Compounds						
Toluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Trichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3,5-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Vinyl chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Xylenes, total	< 1.500	mg/kg dry	5035/8260	1.500		9/1/99

Notes/Comments:

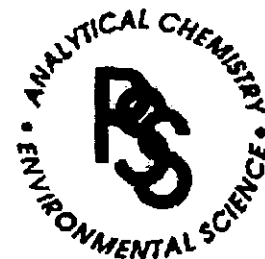
PQL - Practical Quantitation Limit
 b - found in blank / suspected lab artifact

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000656

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 7 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

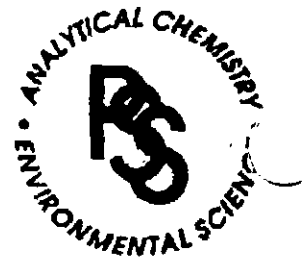
Date Received: 9/1/99

Sample ID:	Result	Unit	Method	PQL	Prepared	Analyzed
B-3,8-9.5						
Date Sampled:						
						8/30/99
Polynuclear Aromatic Hydrocarbons						
Acenaphthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Acenaphthylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (b) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (g,h,i) perylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (k) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Chrysene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Dibenzo (a,h) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluorene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Indeno (1,2,3-cd) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
2-Methylnaphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Naphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Phenanthrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
RCRA Metals						
Arsenic	< 10	mg/kg	EPA 200.8	0.5	9/2/99	9/9/99
Barium	110	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Cadmium	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Chromium	9.0	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Lead	5.7	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Mercury	< 0.1	mg/kg	EPA 200.8	0.1	9/2/99	9/3/99
Selenium	< 5	mg/kg	EPA 200.9	5	9/11/99	9/13/99
Silver	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Volatile Organic Compounds						
Benzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromodichloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromoform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
sec-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
tert-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000657

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 ROUTE 40 WEST
 BALTIMORE, MD 21228
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 FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 8 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

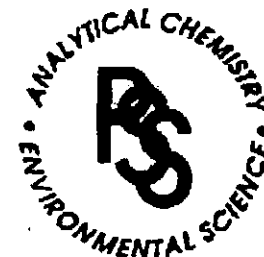
Date Received: 9/1/99

Sample ID:	Result	Unit	Method	PQL	Prepared	Analyzed
B-378-9-57						
Volatile Organic Compounds						
Carbon tetrachloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
4-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromoethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,4-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dichlorodifluoromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
cis-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
trans-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloropropene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Ethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Hexachlorobutadiene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Isopropylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
p-Isopropyltoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methylene chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methyl-t-butyl ether	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Naphthalene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Propylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Styrene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Tetrachloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000658

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 9 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-3, 8-9:5			Date Sampled	8/30/99		
Volatile Organic Compounds						
Toluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Trichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3,5-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Vinyl chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Xylenes, total	< 1.500	mg/kg dry	5035/8260	1.500		9/1/99

Notes/Comments:

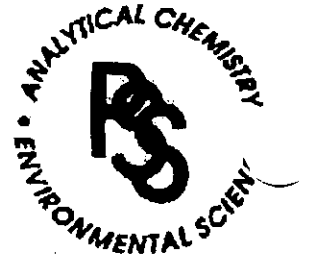
PQL - Practical Quantitation Limit

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000659

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 10 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

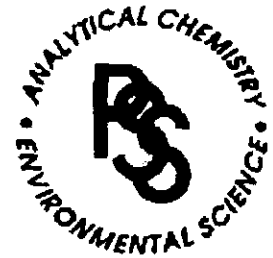
Date Received: 9/1/99

Sample ID:	Result	Unit	Method	PQL	Prepared	Analyzed
B-1-2-1						
Date Sampled:						
Polynuclear Aromatic Hydrocarbons						
Acenaphthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Acenaphthylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (b) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (g,h,i) perylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (k) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Chrysene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Dibenzo (a,h) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluorene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Indeno (1,2,3-cd) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
2-Methylnaphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Naphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Phenanthrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
RCRA Metals						
Arsenic	< 10	mg/kg	EPA 200.8	0.5	9/2/99	9/9/99
Barium	150	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Cadmium	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Chromium	6.6	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Lead	10	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Mercury	< 0.1	mg/kg	EPA 200.8	0.1	9/2/99	9/3/99
Selenium	< 5	mg/kg	EPA 200.9	5	9/11/99	9/13/99
Silver	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Volatile Organic Compounds						
Benzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromodichloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromoform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
sec-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
tert-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000660

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 11 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-4-2-4						
Date Sampled: 8/30/99						
Volatile Organic Compounds						
Carbon tetrachloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
4-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromoethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,4-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dichlorodifluoromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
cis-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
trans-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloropropene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Ethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Hexachlorobutadiene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Isopropylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
p-Isopropyltoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methylene chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methyl-t-butyl ether	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Naphthalene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Propylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Styrene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Tetrachloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000661

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 12 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-4-2-4			Date Sampled: 8/30/99			
Volatile Organic Compounds						
Toluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Trichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3,5-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Vinyl chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Xylenes, total	< 1.500	mg/kg dry	5035/8260	1.500		9/1/99

Notes/Comments:

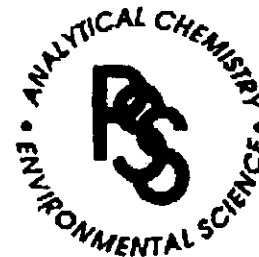
PQL - Practical Quantitation Limit

Reviewed By: Matt Cohee
 Quality Assurance Chemist

AR000662

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 13 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-5-5-7						
Date Sampled: 8/30/99						
Polynuclear Aromatic Hydrocarbons						
Acenaphthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Acenaphthylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (a) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (b) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (g,h,i) perylene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Benzo (k) fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Chrysene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Dibenzo (a,h) anthracene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluoranthene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Fluorene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Indeno (1,2,3-cd) pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
2-Methylnaphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Naphthalene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Phenanthrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
Pyrene	< 330	ug/kg	EPA 8270	330	9/3/99	9/3/99
RCRA Metals						
Arsenic	< 10	mg/kg	EPA 200.8	0.5	9/2/99	9/9/99
Barium	110	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Cadmium	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Chromium	8.4	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Lead	5.4	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Mercury	< 0.1	mg/kg	EPA 200.8	0.1	9/2/99	9/3/99
Selenium	< 5	mg/kg	EPA 200.9	5	9/11/99	9/13/99
Silver	< 0.5	mg/kg	EPA 200.8	0.5	9/2/99	9/3/99
Volatile Organic Compounds						
Benzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromodichloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromoform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Bromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
sec-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
tert-Butylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000663

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 14 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

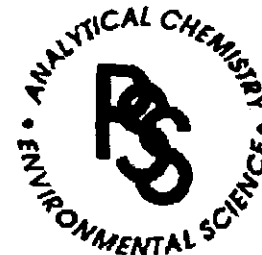
Date Received: 9/1/99

Sample ID:	Result	Unit	Method	PQL	Prepared	Analyzed
Volatile Organic Compounds						
B-5, 6-7	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Carbon tetrachloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloroform	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Chloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
4-Chlorotoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromochloromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromo-3-chloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dibromoethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dibromomethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,4-Dichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Dichlorodifluoromethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
cis-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
trans-1,2-Dichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
2,2-Dichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1-Dichloropropene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Ethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Hexachlorobutadiene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Isopropylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
p-Isopropyltoluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methylene chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Methyl-t-butyl ether	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Naphthalene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
n-Propylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Styrene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2,2-Tetrachloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Tetrachloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99

AR000664

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS
 No. 99090106 Page 15 of 15
 EMG, Inc.
 September 13, 1999

Project: North Penn 7
 Site Location: Lansdale, PA
 Project Number: 62882
 Matrix: Soil

Date Received: 9/1/99

	Result	Unit	Method	PQL	Prepared	Analyzed
Sample ID: B-5, 5-7						
			Date Sampled: 8/30/99			
Volatile Organic Compounds						
Toluene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trichlorobenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,1-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,1,2-Trichloroethane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Trichloroethene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,3-Trichloropropane	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,2,4-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
1,3,5-Trimethylbenzene	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Vinyl chloride	< 0.500	mg/kg dry	5035/8260	0.500		9/1/99
Xylenes, total	< 1.500	mg/kg dry	5035/8260	1.500		9/1/99

Notes/Comments:

PQL - Practical Quantitation Limit

Reviewed By:

Matt Cohee
 Quality Assurance Chemist

AR000665



*An Environment
For Success.™*