BOWSER-MORNER, INC.

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1008988

LABORATORY REPORT

Report To: URS - Diamond
Attn: Mr. Larry Reitz
4417 Lancaster Pk.
Barley Mill Plaza, Bldg. 27
Wilmington, DE 19805

Date January 15, 2003
Report No. 011561
W.O. No. 127211
No. of Pages: 60

Report On: Laboratory Analysis of Soil Samples
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

On December 17, 2002, fourteen (14) undisturbed soil samples were submitted for laboratory analysis from the above-referenced project.

Testing was performed as specified by the client and in accordance with the following procedures:

ASTM D 422, "Particle-Size Analysis of Soils".

ASTM D 2216, "Laboratory Determination of Water (Moisture) Content of Soil and Rock".

ASTM D 5084, "Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter".

Results are summarized in Table I and detailed on the attached data sheets.

Should you have any questions, or if we may be of further service, please contact me at (937) 236-8805 extension 235.

Respectfully submitted,
BOWSER-MORNER, INC.

James W. Fletcher, Vice President
Director of Laboratory Services
Construction Services Division

JWF/slv/cmb
011561
2-Client
1-File

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URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

TABLE I
Summary of Results

Sample I.D.: Depth, ft:	ST1-1C 5.0-7.0	ST1-2C 23.0-25.0	ST1-3C 33.0-35.0	ST2-1C 20.0-22.0	ST2-2C 25.0-27.0
Sieve Size	Percent Passing				
1 1/2"					
1"					
3/4"					
1/2"					
3/8"				**100.0**	
#4				**99.3**	
#10				**98.6**	
#20				**98.0**	**100.0**
#40		**100.0**	**100.0**	**97.2**	**99.9**
#60	**100.0**	**99.9**	**99.9**	**95.6**	**99.8**
#100	**98.1**	**99.8**	**99.8**	**93.3**	**99.5**
#200	**32.0**	**99.1**	**99.5**	**85.6**	**96.8**
Gravel, %:	**0**	**0**	**0**	**1**	**0**
Sand, %:	**68**	**1**	**1**	**13**	**3**
Silt, %:	**29**	**76**	**80**	**72**	**79**
Clay, %:	**3**	**23**	**19**	**14**	**18**
USDA Description:	**sand**	**silt loam**	**silt loam**	**loam**	**silt loam**
Permeability (k), cm/sec:	**2.3×10^{-4}**	**7.8×10^{-8}**	**8.2×10^{-8}**	**8.6×10^{-7}**	**2.6×10^{-6}**

URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

TABLE I (continued)
Summary of Results

Sample I.D.: Depth, ft:	ST3-1C 6.0-8.0	ST3-2C 10.0-12.0	ST3-3C 30.0-32.0	ST4-1C 4.0-6.0	ST4-2C 15.0-17.0
Sieve Size	Percent Passing				
1 1/2"					
1"					
3/4"			**100.0**		
1/2"			**97.8**	**100.0**	
3/8"			**96.9**	**97.3**	
#4			**94.9**	**95.9**	
#10	**100.0**	**100.0**	**91.8**	**94.3**	
#20	**99.8**	**99.9**	**88.0**	**92.9**	**100.0**
#40	**95.3**	**97.9**	**84.5**	**90.4**	**99.9**
#60	**74.1**	**90.2**	**81.0**	**76.6**	**99.7**
#100	**45.8**	**82.7**	**76.5**	**57.9**	**99.4**
#200	**27.9**	**78.0**	**70.1**	**45.9**	**98.5**
Gravel, %:	**0**	**0**	**8**	**6**	**0**
Sand, %:	**72**	**22**	**22**	**48**	**2**
Silt, %:	**21**	**56**	**46**	**36**	**79**
Clay, %:	**7**	**22**	**24**	**10**	**19**
USDA Description:	**loamy sand**	**silt loam**	**loam**	**loam**	**silt loam**
Permeability (k), cm/sec:	**2.6×10^{-6}**	**1.4×10^{-7}**	**1.2×10^{-8}**	**3.7×10^{-7}**	**6.1×10^{-8}**

URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

TABLE I (continued)
Summary of Results

Sample I.D.: Depth, ft:	ST4-3C 25.0-27.0	ST5-1C 6.0-8.0	ST5-2C 15.0-17.0	ST5-3C 30.0-32.0
Sieve Size	Percent Passing			
1 1/2"			**100.0**	
1"			**90.5**	
3/4"			**90.5**	
1/2"			**87.4**	
3/8"			**85.5**	
#4			**84.0**	
#10		**100.0**	**83.2**	
#20	**100.0**	**99.9**	**82.5**	
#40	**99.9**	**99.8**	**81.7**	**100.0**
#60	**99.8**	**99.1**	**80.7**	**99.7**
#100	**99.5**	**91.5**	**77.6**	**99.4**
#200	**98.7**	**19.5**	**55.0**	**98.6**
Gravel, %:	**0**	**0**	**17**	**0**
Sand, %:	**1**	**80**	**28**	**1**
Silt, %:	**79**	**18**	**49**	**75**
Clay, %:	**20**	**2**	**6**	**24**
USDA Description:	**silt loam**	**sand**	**loam**	**silt loam**
Permeability (k), cm/sec:	**7.5×10^{-8}**	**3.2×10^{-6}**	**1.2×10^{-5}**	**6.6×10^{-8}**

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 18, 2002
Sample Identification:	ST-1, 1C
Depth, ft:	5.0-7.0
Test Specimen Depth, ft:	6.2-6.5
USDA Description:	brown sand

SPECIMEN DATA:

Dimension, inches	
Height:	2.693
Diameter:	2.763
Mass, lbs:	1.157
Moisture Content,%	
Initial:	22.9
Final:	22.7
Wet Unit Weight, pcf	
Initial:	123.8
Final:	123.6
Initial Dry Unit Weight, pcf:	100.7
Back Pressure Saturation, psi	
Back Pressure, Exit:	80
Back Pressure, Enter:	82
Lateral Pressure:	87
Permeability (k), cm/sec:	**2.3×10^{-4}**

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FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS -Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 19, 2002
Sample Identification:	ST-1, 2C
Depth, ft:	23.0-25.0
Test Specimen Depth, ft:	24.0-24.3
USDA Description:	gray silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.515
Diameter:	2.935
Mass, lbs:	1.619
Moisture Content,%	
Initial:	28.4
Final:	23.3
Wet Unit Weight, pcf	
Initial:	117.6
Final:	112.9
Initial Dry Unit Weight, pcf:	91.6
Back Pressure Saturation, psi	
Back Pressure, Exit:	80
Back Pressure, Enter:	84
Lateral Pressure:	89
Permeability (k), cm/sec:	**7.8×10^{-8}**

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FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 19, 2002
Sample Identification:	ST1,-3C
Depth, ft:	33.0-35.0
Test Specimen Depth, ft:	34.1-34.4
USDA Description:	gray silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.211
Diameter:	2.934
Mass, lbs:	1.564
Moisture Content,%	
Initial:	25.4
Final:	21.4
Wet Unit Weight, pcf	
Initial:	124.5
Final:	120.6
Initial Dry Unit Weight, pcf:	99.3
Back Pressure Saturation, psi	
Back Pressure, Exit:	90
Back Pressure, Enter:	94
Lateral Pressure:	99

Permeability (k), cm/sec: **8.2×10^{-8}**

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FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 20, 2002
Sample Identification:	ST-2, 1C
Depth, ft:	20.0-22.0
Test Specimen Depth, ft:	21.3-21.6
USCS Description:	gray/brown loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.334
Diameter:	2.829
Mass, lbs:	1.558
Moisture Content,%	
Initial:	23.8
Final:	20.5
Wet Unit Weight, pcf	
Initial:	128.5
Final:	125.1
Initial Dry Unit Weight, pcf:	103.8
Back Pressure Saturation, psi	
Back Pressure, Exit:	70
Back Pressure, Enter:	74
Lateral Pressure:	79

Permeability (k), cm/sec: **8.6×10^{-7}**

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FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 27, 2002
Sample Identification:	ST-2, 2C
Depth, ft:	25.0-27.0
Test Specimen Depth, ft:	26.2-26.5
USDA Description:	gray/brown silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.515
Diameter:	2.935
Mass, lbs:	1.797
Moisture Content,%	
Initial:	26.2
Final:	21.0
Wet Unit Weight, pcf	
Initial:	130.6
Final:	125.2
Initial Dry Unit Weight, pcf:	103.5
Back Pressure Saturation, psi	
Back Pressure, Exit:	60
Back Pressure, Enter:	64
Lateral Pressure:	69

Permeability (k), cm/sec: **2.6×10^{-6}**

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FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 23, 2002
Sample Identification:	ST-3, 1C
Depth, ft:	6.0-8.0
Test Specimen Depth, ft:	7.1-7.4
USDA Description:	gray loamy sand

SPECIMEN DATA:

Dimension, inches	
Height:	3.515
Diameter:	2.935
Mass, lbs:	1.330
Moisture Content,%	
Initial:	22.1
Final:	20.2
Wet Unit Weight, pcf	
Initial:	96.6
Final:	95.1
Initial Dry Unit Weight, pcf:	79.1
Back Pressure Saturation, psi	
Back Pressure, Exit:	60
Back Pressure, Enter:	62
Lateral Pressure:	67
Permeability (k), cm/sec:	**2.6×10^{-6}**

BOWSER MORNER

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 30, 2002
Sample Identification:	ST-3, 2C
Depth, ft:	10.0-12.0
Test Specimen Depth, ft:	10.8-11.1
USDA Description:	brown/gray silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.362
Diameter:	2.794
Mass, lbs:	1.487
Moisture Content,%	
Initial:	27.3
Final:	24.0
Wet Unit Weight, pcf	
Initial:	124.7
Final:	121.5
Initial Dry Unit Weight, pcf:	98.0
Back Pressure Saturation, psi	
Back Pressure, Exit:	70
Back Pressure, Enter:	74
Lateral Pressure:	79
Permeability (k), cm/sec:	**1.4×10^{-7}**

BOWSER MORNER

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	December 30, 2002
Sample Identification:	ST-3, 3C
Depth, ft:	30.0-32.0
Test Specimen Depth, ft:	30.8-31.1
USDA Description:	gray loam

SPECIMEN DATA:

Dimension, inches	
Height:	2.999
Diameter:	2.796
Mass, lbs:	1.402
Moisture Content,%	
Initial:	20.0
Final:	17.5
Wet Unit Weight, pcf	
Initial:	131.6
Final:	128.9
Initial Dry Unit Weight, pcf:	109.7
Back Pressure Saturation, psi	
Back Pressure, Exit:	80
Back Pressure, Enter:	83
Lateral Pressure:	88
Permeability (k), cm/sec:	**1.2×10^{-8}**

BOWSER MORNER

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	January 2, 2003
Sample Identification:	ST-4, 1C
Depth, ft:	4.0-6.0
Test Specimen Depth, ft:	4.7-5.0
USDA Description:	brown/gray loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.100
Diameter:	2.762
Mass, lbs:	1.450
Moisture Content,%	
Initial:	13.3
Final:	14.7
Wet Unit Weight, pcf	
Initial:	134.9
Final:	136.6
Initial Dry Unit Weight, pcf:	119.1
Back Pressure Saturation, psi	
Back Pressure, Exit:	60
Back Pressure, Enter:	63
Lateral Pressure:	68
Permeability (k), cm/sec:	**3.7×10^{-7}**

BOWSER MORNER

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	January 2, 2003
Sample Identification:	ST-4, 2C
Depth, ft:	15.0-17.0
Test Specimen Depth, ft:	16.2-16.5
USDA Description:	gray silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.435
Diameter:	2.814
Mass, lbs:	1.543
Moisture Content,%	
Initial:	27.2
Final:	24.0
Wet Unit Weight, pcf	
Initial:	124.8
Final:	121.6
Initial Dry Unit Weight, pcf:	98.1
Back Pressure Saturation, psi	
Back Pressure, Exit:	60
Back Pressure, Enter:	64
Lateral Pressure:	69

Permeability (k), cm/sec: **6.1×10^{-8}**

BOWSER MORNER.

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	January 2, 2003
Sample Identification:	ST-4, 3C
Depth, ft:	25.0-27.0
Test Specimen Depth, ft:	26.2-26.5
USDA Description:	gray silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.208
Diameter:	2.899
Mass, lbs:	1.507
Moisture Content,%	
Initial:	27.2
Final:	21.7
Wet Unit Weight, pcf	
Initial:	123.0
Final:	117.7
Initial Dry Unit Weight, pcf:	96.7
Back Pressure Saturation, psi	
Back Pressure, Exit:	60
Back Pressure, Enter:	64
Lateral Pressure:	69

Permeability (k), cm/sec: **7.5×10^{-8}**

BOWSER MORNER

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	January 2, 2003
Sample Identification:	ST-5, 1C
Depth, ft:	6.0-8.0
Test Specimen Depth, ft:	7.1-7.4
USDA Description:	brown sand

SPECIMEN DATA:

Dimension, inches	
Height:	3.271
Diameter:	2.724
Mass, lbs:	1.368
Moisture Content,%	
Initial:	24.8
Final:	24.4
Wet Unit Weight, pcf	
Initial:	124.0
Final:	123.7
Initial Dry Unit Weight, pcf:	99.4
Back Pressure Saturation, psi	
Back Pressure, Exit:	60
Back Pressure, Enter:	62
Lateral Pressure:	67
Permeability (k), cm/sec:	**3.2×10^{-6}**

BOWSER MORNER.

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

Client:	**URS - Diamond**
Project:	**Dupont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	January 2, 2003
Sample Identification:	ST-5, 2C
Depth, ft:	15.0-17.0
Test Specimen Depth, ft:	15.6-15.9
USDA Description:	brown/gray loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.127
Diameter:	2.756
Mass, lbs:	1.373
Moisture Content,%	
Initial:	22.5
Final:	22.0
Wet Unit Weight, pcf	
Initial:	127.2
Final:	126.6
Initial Dry Unit Weight, pcf:	103.8
Back Pressure Saturation, psi	
Back Pressure, Exit:	70
Back Pressure, Enter:	72
Lateral Pressure:	77
Permeability (k), cm/sec:	**1.2×10^{-5}**

BOWSER MORNER

FALLING HEAD PERMEABILITY TEST

ASTM D 5084, Measurement of Hydraulic Conductivity

UNDISTURBED

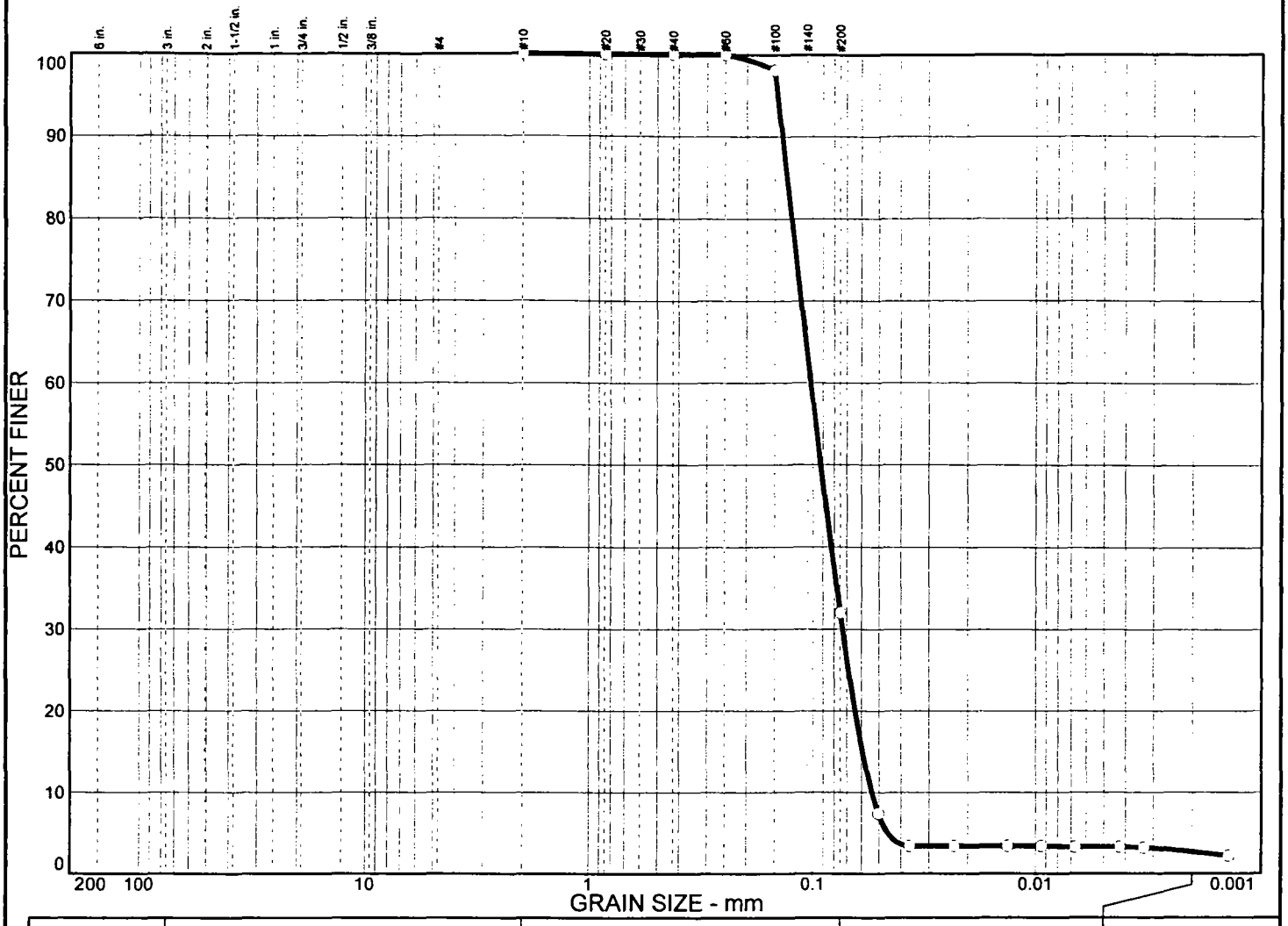
Client:	**URS - Diamond**
Project:	**DuPont Automotive Products, Toledo, OH Site Investigation - 2002**
BMI Work Order Number:	127211
Date:	January 2, 2003
Sample Identification:	ST-5, 3C
Depth, ft:	30.0-32.0
Test Specimen Depth, ft:	31.0-31.3
USDA Description:	gray silt loam

SPECIMEN DATA:

Dimension, inches	
Height:	3.342
Diameter:	2.885
Mass, lbs:	1.620
Moisture Content,%	
Initial:	27.5
Final:	22.8
Wet Unit Weight, pcf	
Initial:	128.1
Final:	123.4
Initial Dry Unit Weight, pcf:	100.5
Back Pressure Saturation, psi	
Back Pressure, Exit:	90
Back Pressure, Enter:	94
Lateral Pressure:	99
Permeability (k), cm/sec:	**6.6×10^{-8}**

BOWSER MORNER

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	68.0	29.3	2.7

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.132	0.102	0.0921	0.0732	0.0593	0.0539	0.97	1.90

MATERIAL DESCRIPTION	USCS	AASHTO
brown sand		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST1-1C, 5'-7'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST1-1C
Elev. or Depth: 5'-7' **Sample Length (in./cm.):**
Location: ST1-1C, 5'-7'
Description: brown sand
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	547.83
Tare =	123.39
Dry sample weight =	424.44

Sample split on number 10 sieve
Split sample data:
Sample and tare = 100.26 Tare = .00 Sample weight = 100.26
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.00	100.0
# 40	0.01	100.0
# 60	0.04	100.0
# 100	1.87	98.1
# 200	68.16	32.0

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 100.26
Hygroscopic moisture correction:
Moist weight & tare = 49.78
Dry weight & tare = 49.72
Tare = 28.74
Hygroscopic moisture= 0.3 %
Calculated biased weight= 99.97
Automatic temperature correction
Composite correction at 20 deg C = -5.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
ırometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

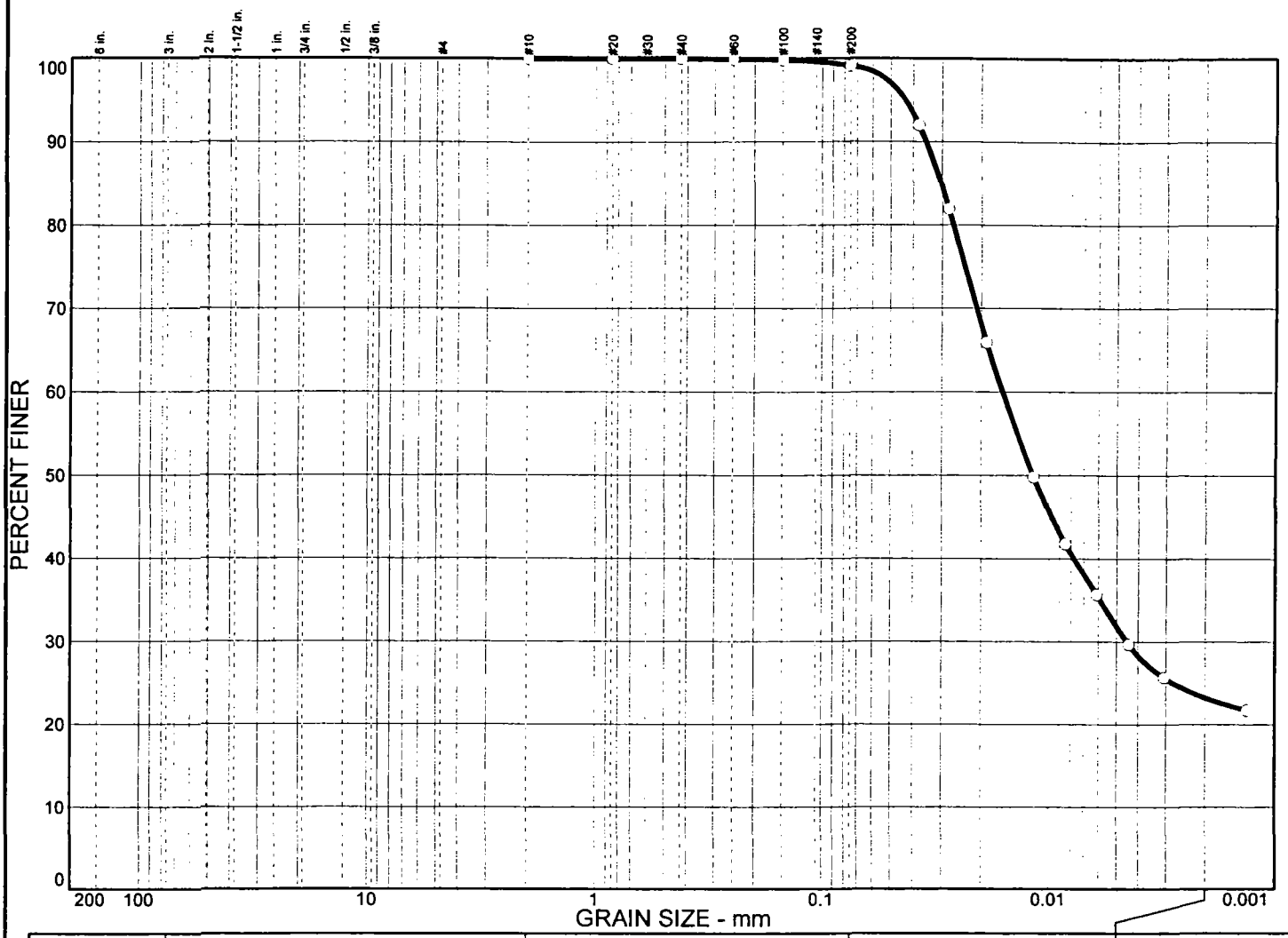
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	22.0	12.0	7.4	0.0133	12.0	14.3	0.0504	7.4
2.00	22.0	8.0	3.4	0.0133	8.0	15.0	0.0364	3.4
5.00	22.0	8.0	3.4	0.0133	8.0	15.0	0.0230	3.4
15.00	22.0	8.0	3.4	0.0133	8.0	15.0	0.0133	3.4
30.00	22.0	8.0	3.4	0.0133	8.0	15.0	0.0094	3.4
60.00	21.5	8.0	3.3	0.0134	8.0	15.0	0.0067	3.3
150.00	21.5	8.0	3.3	0.0134	8.0	15.0	0.0042	3.3
250.00	21.0	8.0	3.2	0.0135	8.0	15.0	0.0033	3.2
1440.00	21.0	7.0	2.2	0.0135	7.0	15.1	0.0014	2.2

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 68.0
% SILT = 29.3 **% CLAY =** 2.7

D_{85}= 0.13 D_{60}= 0.10 D_{50}= 0.09
D_{30}= 0.07 D_{15}= 0.06 D_{10}= 0.05
C_c= 0.9715 C_u= 1.9002

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	0.9	75.9	23.2

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.0304	0.0162	0.0117	0.0045				

MATERIAL DESCRIPTION	USCS	AASHTO
gray silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST1-2C, 23'-25'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST1-2C
Elev. or Depth: 23'-25'
Sample Length (in./cm.):
Location: ST1-2C, 23'-25'
Description: gray silt loam
Liquid Limit:
Plastic Limit:
USCS Classification:
AASHTO Classification:
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	472.51
Tare =	229.41
Dry sample weight =	243.10

Sample split on number 10 sieve
Split sample data:
Sample and tare = 50.32 Tare = .00 Sample weight = 50.32
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.00	100.0
# 40	0.00	100.0
# 60	0.04	99.9
# 100	0.11	99.8
# 200	0.43	99.1

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.32
Hygroscopic moisture correction:
Moist weight & tare = 52.19
Dry weight & tare = 51.96
Tare = 30.41
Hygroscopic moisture= 1.1 %
Calculated biased weight= 49.79
Automatic temperature correction
Composite correction at 20 deg C = -5.5

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
irometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

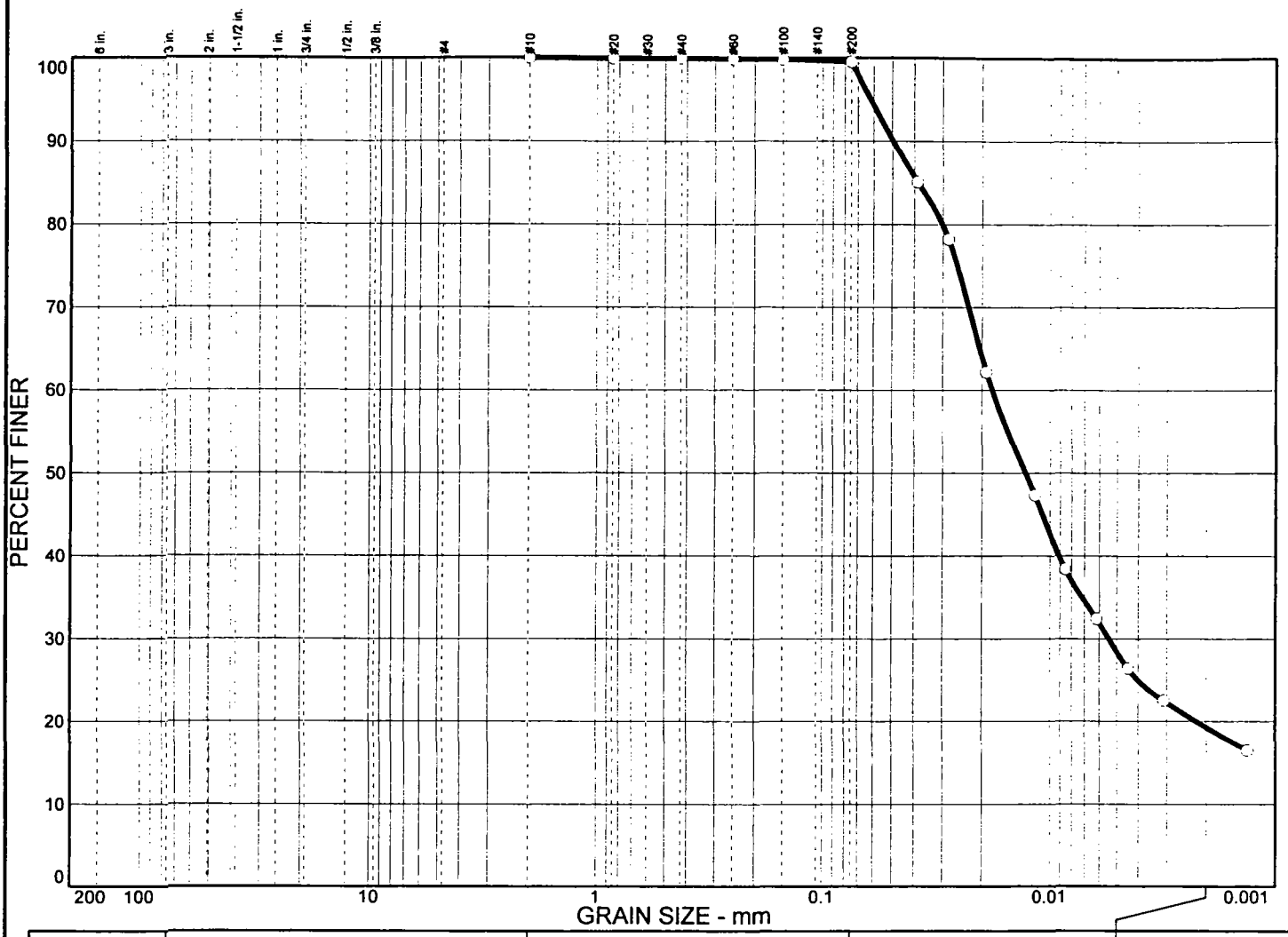
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.5	51.0	45.8	0.0134	51.0	7.9	0.0377	92.0
2.00	21.5	46.0	40.8	0.0134	46.0	8.8	0.0280	81.9
5.00	21.5	38.0	32.8	0.0134	38.0	10.1	0.0190	65.9
15.00	21.5	30.0	24.8	0.0134	30.0	11.4	0.0117	49.8
30.00	21.5	26.0	20.8	0.0134	26.0	12.0	0.0085	41.8
60.00	21.5	23.0	17.8	0.0134	23.0	12.5	0.0061	35.7
120.00	21.5	20.0	14.8	0.0134	20.0	13.0	0.0044	29.7
256.00	21.5	18.0	12.8	0.0134	18.0	13.3	0.0031	25.7
1440.00	21.5	16.0	10.8	0.0134	16.0	13.7	0.0013	21.7

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND** = 0.9
% SILT = 75.9 **% CLAY** = 23.2

D_{85}= 0.03 D_{60}= 0.02 D_{50}= 0.01
D_{30}= 0.00

GRAIN SIZE DISTRIBUTION REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.0	0.5	80.2	19.3

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.0385	0.0181	0.0129	0.0054				

MATERIAL DESCRIPTION	USCS	AASHTO
○ gray silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

○ **Location:** ST1-3C, 33'-35'

Remarks:

○

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST1-3C
Elev. or Depth: 33'-35'
Sample Length (in./cm.):
Location: ST1-3C, 33'-35'
Description: gray silt loam
Liquid Limit:
Plastic Limit:
USCS Classification:
AASHTO Classification:
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	459.04
Tare =	231.29
Dry sample weight =	227.75

Sample split on number 10 sieve
Split sample data:
Sample and tare = 50.67 Tare = .00 Sample weight = 50.67
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.00	100.0
# 40	0.02	100.0
# 60	0.04	99.9
# 100	0.08	99.8
# 200	0.23	99.5

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.67
Hygroscopic moisture correction:
Moist weight & tare = 48.40
Dry weight & tare = 48.24
Tare = 28.23
Hygroscopic moisture= 0.8 %
Calculated biased weight= 50.27
Automatic temperature correction
Composite correction at 20 deg C = -6.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

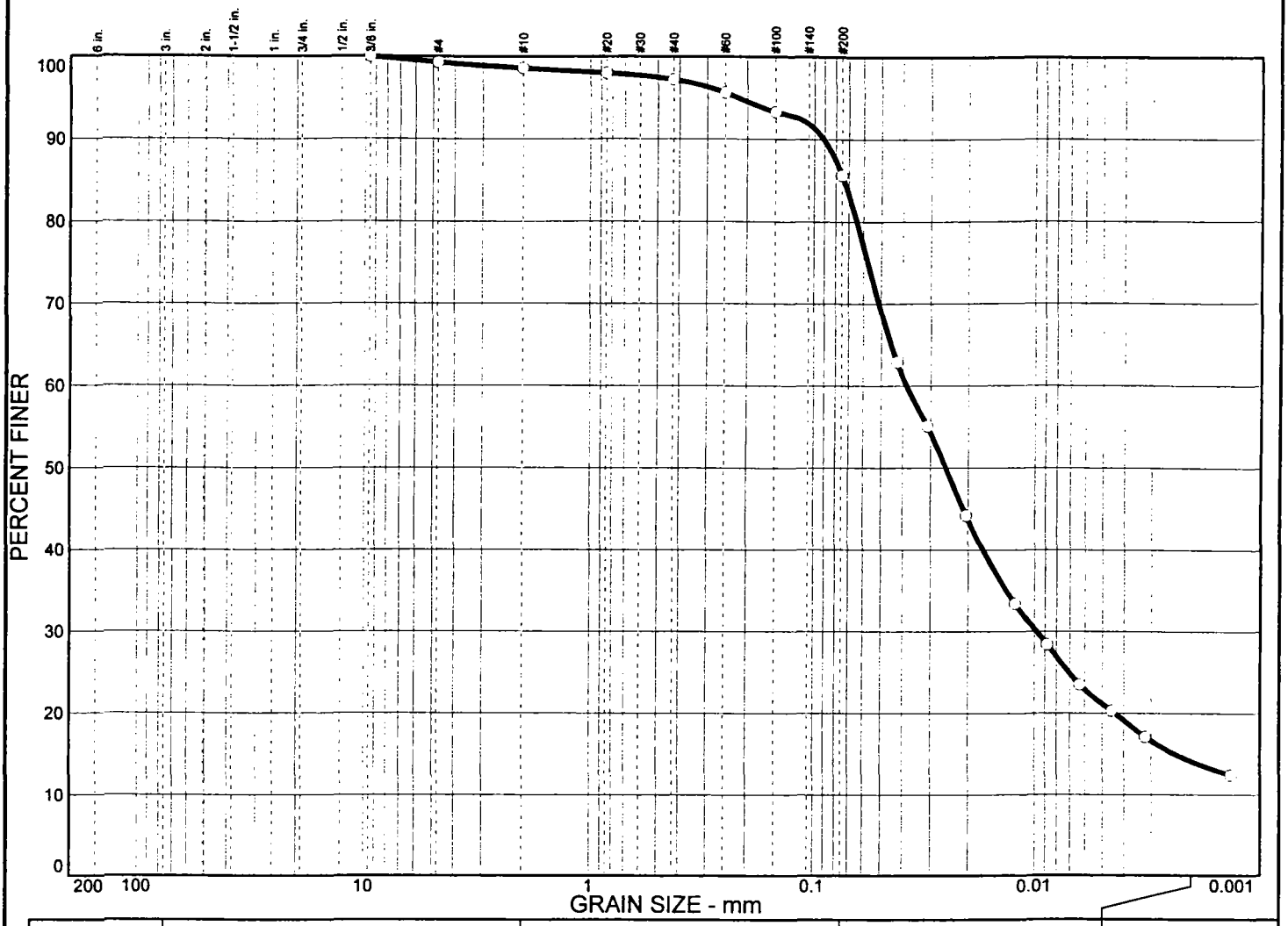
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.5	48.5	42.8	0.0134	48.5	8.3	0.0387	85.1
2.00	21.5	45.0	39.3	0.0134	45.0	8.9	0.0283	78.2
5.00	21.5	37.0	31.3	0.0134	37.0	10.2	0.0192	62.2
15.00	21.5	29.5	23.8	0.0134	29.5	11.5	0.0117	47.3
30.00	21.5	25.0	19.3	0.0134	25.0	12.2	0.0085	38.4
60.00	21.5	22.0	16.3	0.0134	22.0	12.7	0.0062	32.4
120.00	21.5	19.0	13.3	0.0134	19.0	13.2	0.0044	26.4
254.00	21.5	17.0	11.3	0.0134	17.0	13.5	0.0031	22.5
1440.00	21.5	14.0	8.3	0.0134	14.0	14.0	0.0013	16.5

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 0.5
% SILT = 80.2 **% CLAY =** 19.3

D_{85}= 0.04 D_{60}= 0.02 D_{50}= 0.01
D_{30}= 0.01

GRAIN SIZE DISTRIBUTION REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	1.4	13.0	71.5	14.1

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.0736	0.0385	0.0254	0.0098	0.0024			

MATERIAL DESCRIPTION	USCS	AASHTO
○ gray/brown loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

○ **Location:** ST2-1C, 20'-22'

Remarks:

○

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST2-1C
Elev. or Depth: 20'-22' **Sample Length (in./cm.):**
Location: ST2-1C, 20'-22'
Description: gray/brown loam
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	544.82
Tare =	228.15
Dry sample weight =	316.67

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.25 **Tare =** .00 **Sample weight =** 50.25
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	2.16	99.3
# 10	4.41	98.6
# 20	0.33	98.0
# 40	0.69	97.2
# 60	1.52	95.6
# 100	2.71	93.3
# 200	6.64	85.6

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 98.6
Weight of hydrometer sample: 50.25
Hygroscopic moisture correction:
Moist weight & tare = 49.20
Dry weight & tare = 49.09
Tare = 28.81
Hygroscopic moisture= 0.5 %
Calculated biased weight= 50.69
Automatic temperature correction
Composite correction at 20 deg C = -5.5

Meniscus correction only= 0
ecific gravity of solids= 2.65
ecific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

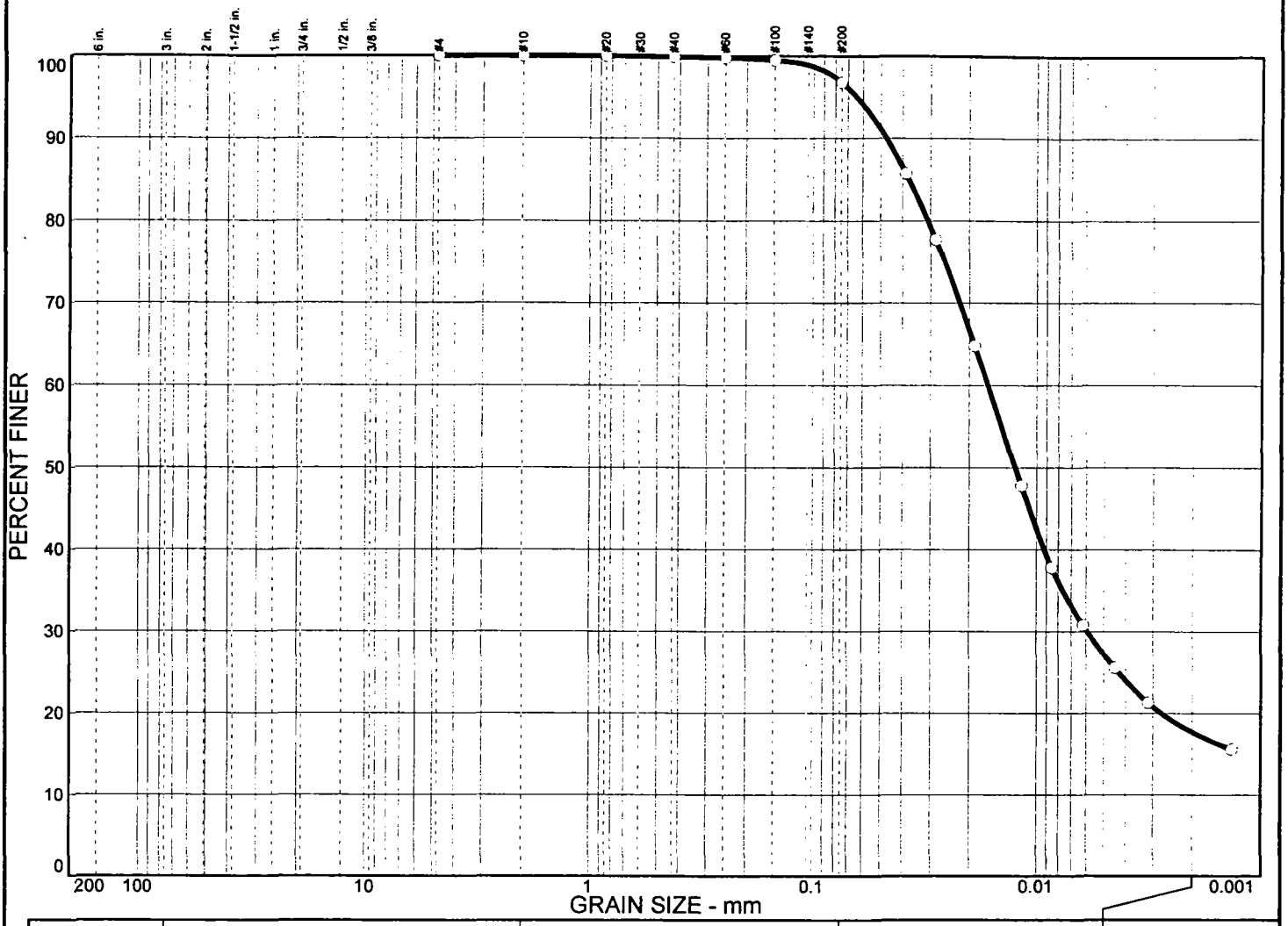
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	22.0	37.0	31.9	0.0133	37.0	10.2	0.0426	62.9
2.00	22.0	33.0	27.9	0.0133	33.0	10.9	0.0311	55.1
5.00	22.0	27.5	22.4	0.0133	27.5	11.8	0.0204	44.2
15.00	22.0	22.0	16.9	0.0133	22.0	12.7	0.0122	33.4
30.00	22.0	19.5	14.4	0.0133	19.5	13.1	0.0088	28.4
60.00	22.0	17.0	11.9	0.0133	17.0	13.5	0.0063	23.5
120.00	21.5	15.5	10.3	0.0134	15.5	13.8	0.0045	20.3
250.00	21.0	14.0	8.7	0.0135	14.0	14.0	0.0032	17.1
1440.00	21.5	11.5	6.3	0.0134	11.5	14.4	0.0013	12.4

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** 1.4 **% SAND =** 13.0
% SILT = 71.5 **% CLAY =** 14.1

D_{85}= 0.07 D_{60}= 0.04 D_{50}= 0.03
D_{30}= 0.01 D_{15}= 0.00

GRAIN SIZE DISTRIBUTION REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.0	3.2	79.1	17.7

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.0375	0.0165	0.0124	0.0059				

MATERIAL DESCRIPTION	USCS	AASHTO
○ gray/brown silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

○ **Location:** ST2-2C, 25'-27'

Remarks:

○

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST2-2C
Elev. or Depth: 25'-27' **Sample Length (in./cm.):**
Location: ST2-2C, 25'-27'
Description: gray/brown silt loam
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	702.50
Tare =	227.98
Dry sample weight =	474.52

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.34 **Tare =** .00 **Sample weight =** 50.34
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.14	100.0
# 20	0.02	100.0
# 40	0.05	99.9
# 60	0.11	99.8
# 100	0.23	99.5
# 200	1.63	96.8

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.34
Hygroscopic moisture correction:
Moist weight & tare = 49.23
Dry weight & tare = 49.11
Tare = 28.47
Hygroscopic moisture= 0.6 %
Calculated biased weight= 50.05
Automatic temperature correction
Composite correction at 20 deg C = -5.5

Meniscus correction only= 0
Specific gravity of solids= 2.65
ecific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

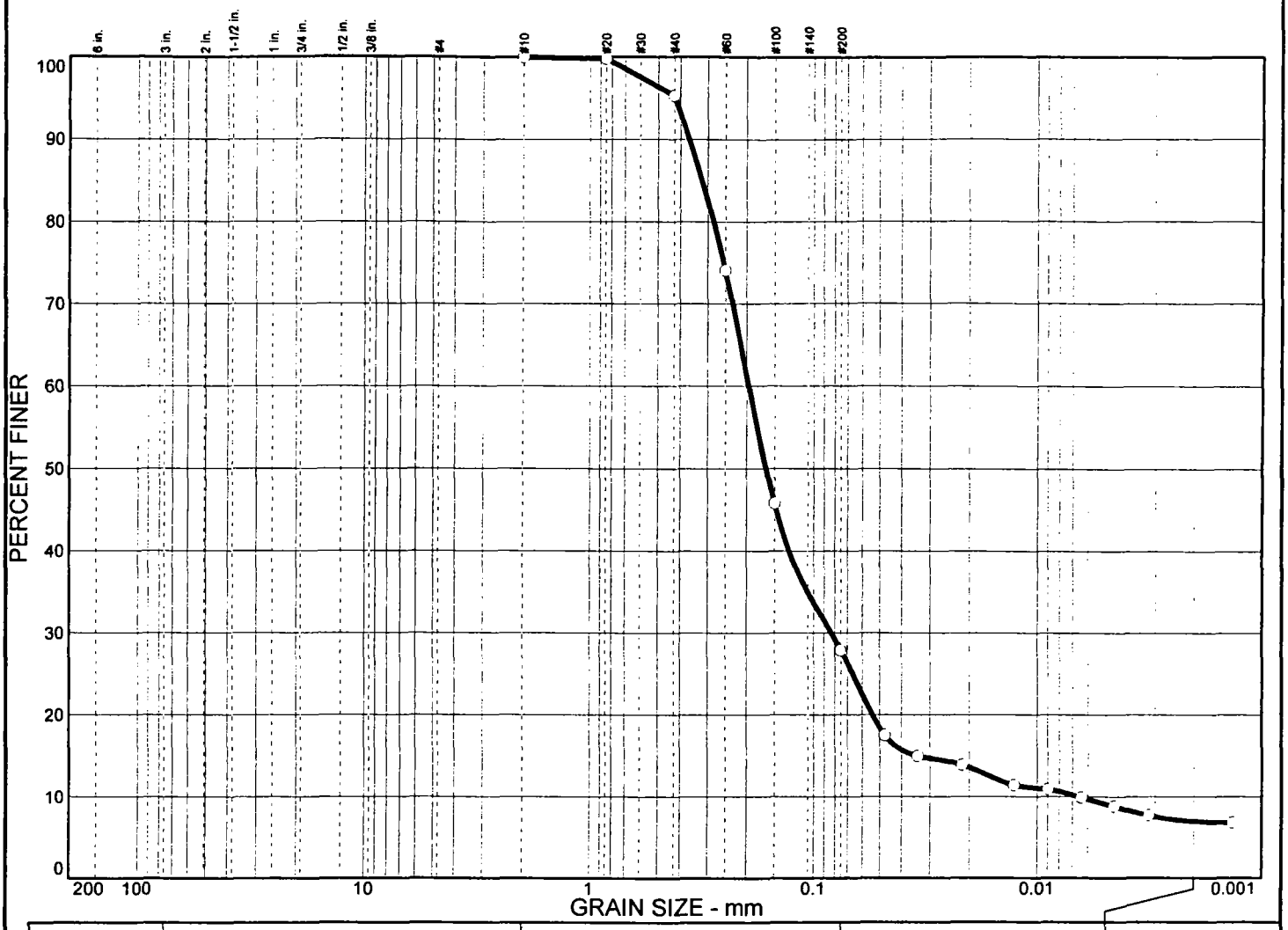
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	22.0	48.0	42.9	0.0133	48.0	8.4	0.0386	85.7
2.00	22.0	44.0	38.9	0.0133	44.0	9.1	0.0284	77.7
5.00	22.0	37.5	32.4	0.0133	37.5	10.1	0.0190	64.8
15.00	22.0	29.0	23.9	0.0133	29.0	11.5	0.0117	47.8
30.00	22.0	24.0	18.9	0.0133	24.0	12.4	0.0085	37.8
60.00	22.0	20.5	15.4	0.0133	20.5	12.9	0.0062	30.8
120.00	21.5	18.0	12.8	0.0134	18.0	13.3	0.0045	25.6
250.00	21.0	16.0	10.7	0.0135	16.0	13.7	0.0032	21.3
1440.00	21.5	13.0	7.8	0.0134	13.0	14.2	0.0013	15.6

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 3.2
% SILT = 79.1 **% CLAY =** 17.7

D_{85}= 0.04 D_{60}= 0.02 D_{50}= 0.01
D_{30}= 0.01

GRAIN SIZE DISTRIBUTION REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.0	72.1	20.9	7.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.318	0.195	0.164	0.0829	0.0340	0.0066	5.35	29.68

MATERIAL DESCRIPTION	USCS	AASHTO
○ gray loamy sand		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

○ **Location:** ST3-1C, 6'-8'

Remarks:

○

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST3-1C
Elev. or Depth: 6'-8'
Sample Length (in./cm.):
Location: ST3-1C, 6'-8'
Description: gray loamy sand
Liquid Limit:
Plastic Limit:
USCS Classification:
AASHTO Classification:
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	533.88
Tare =	229.74
Dry sample weight =	304.14

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 100.30 **Tare =** .00 **Sample weight =** 100.30
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.19	99.8
# 40	4.70	95.3
# 60	25.97	74.1
# 100	54.32	45.8
# 200	72.34	27.9

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 100.30
Hygroscopic moisture correction:
Moist weight & tare = 48.49
Dry weight & tare = 48.37
Tare = 28.21
Hygroscopic moisture= 0.6 %
Calculated biased weight= 99.71
Automatic temperature correction
Composite correction at 20 deg C = -5.5

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

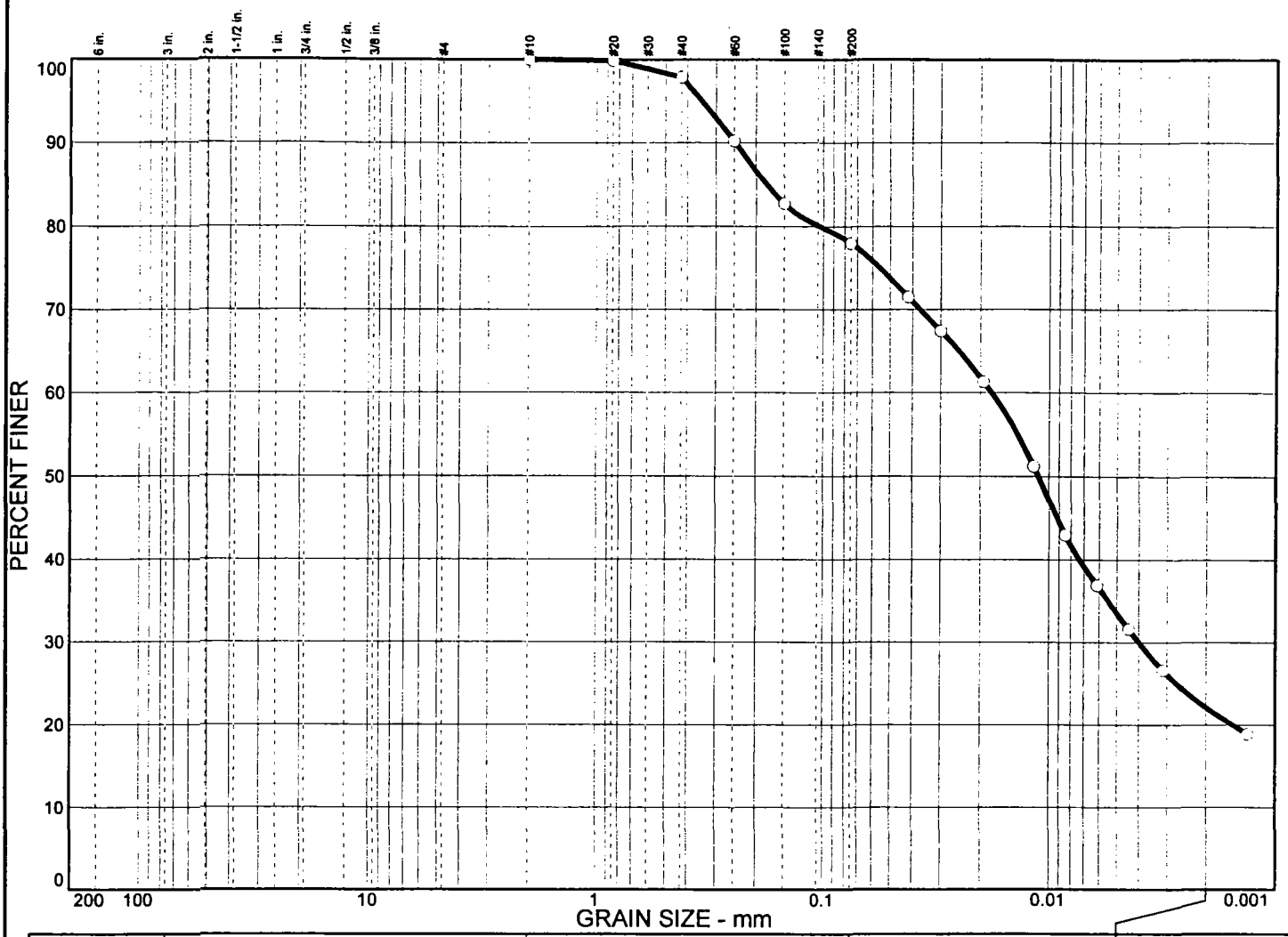
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	22.0	22.5	17.4	0.0133	22.5	12.6	0.0473	17.5
2.00	22.0	20.0	14.9	0.0133	20.0	13.0	0.0340	15.0
5.00	22.0	19.0	13.9	0.0133	19.0	13.2	0.0216	13.9
15.00	22.0	16.5	11.4	0.0133	16.5	13.6	0.0127	11.4
30.00	22.0	16.0	10.9	0.0133	16.0	13.7	0.0090	10.9
60.00	22.0	15.0	9.9	0.0133	15.0	13.8	0.0064	9.9
120.00	21.5	14.0	8.8	0.0134	14.0	14.0	0.0046	8.8
250.00	21.0	13.0	7.7	0.0135	13.0	14.2	0.0032	7.7
1440.00	21.5	12.0	6.8	0.0134	12.0	14.3	0.0013	6.8

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 72.1
% SILT = 20.9 **% CLAY =** 7.0

D_{85}= 0.32 D_{60}= 0.20 D_{50}= 0.16
D_{30}= 0.08 D_{15}= 0.03 D_{10}= 0.01
C_c= 5.3455 C_u= 29.6838

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	22.0	55.9	22.1

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.179	0.0179	0.0111	0.0040				

MATERIAL DESCRIPTION	USCS	AASHTO
brown/gray silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST3-2C, 10'-12'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST3-2C
Elev. or Depth: 10'-12' **Sample Length (in./cm.):**
Location: ST3-2C, 10'-12'
Description: brown/gray silt loam
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	487.74
Tare =	227.96
Dry sample weight =	259.78

Sample split on number 10 sieve
Split sample data:
Sample and tare = 50.11 Tare = .00 Sample weight = 50.11
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.04	99.9
# 40	1.07	97.9
# 60	4.89	90.2
# 100	8.67	82.7
# 200	11.02	78.0

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.11
Hygroscopic moisture correction:
Moist weight & tare = 48.51
Dry weight & tare = 48.14
Tare = 28.22
Hygroscopic moisture= 1.9 %
Calculated biased weight= 49.20
Automatic temperature correction
Composite correction at 20 deg C = -6.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

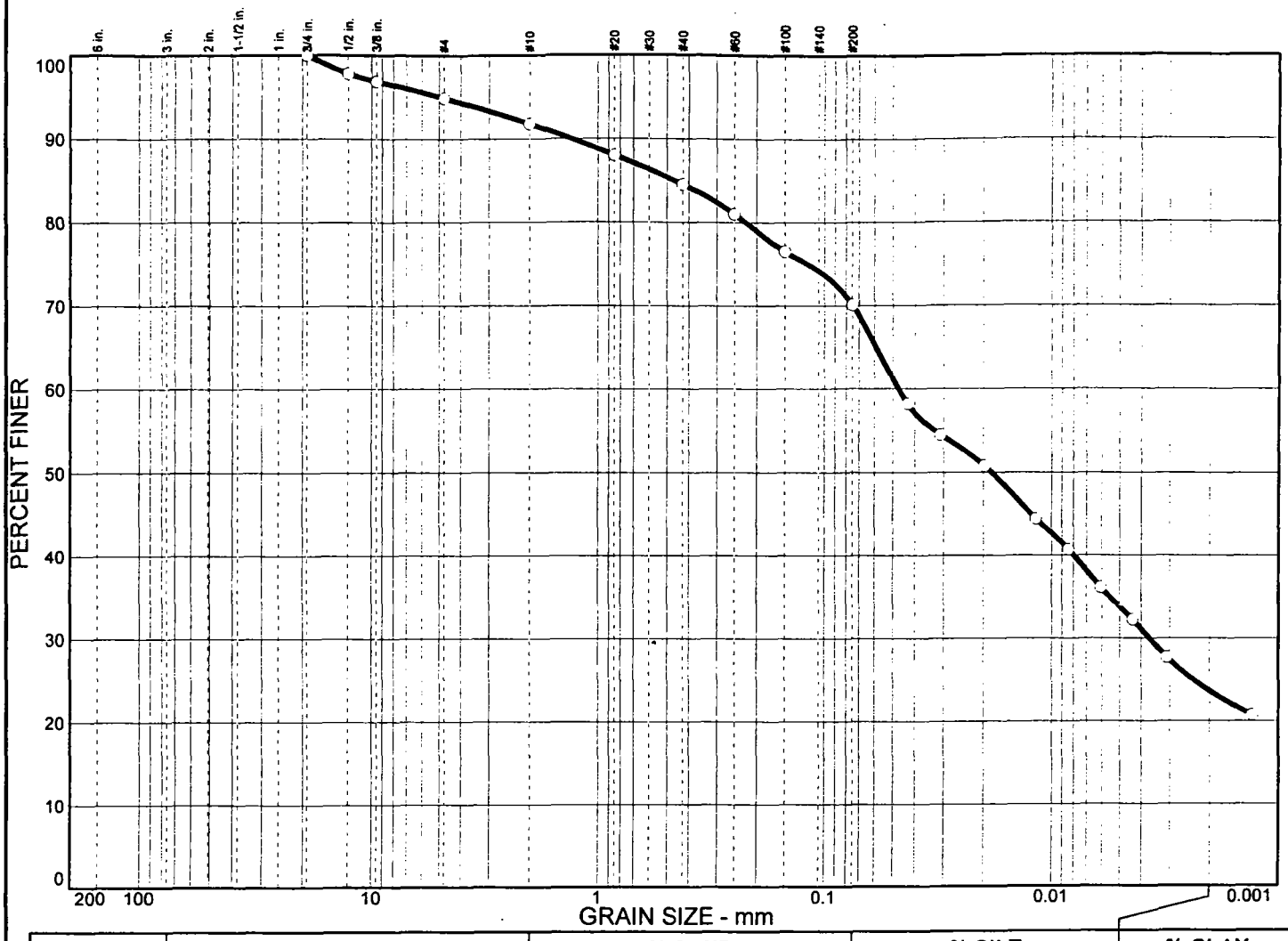
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	41.0	35.2	0.0135	41.0	9.6	0.0417	71.5
2.00	21.0	39.0	33.2	0.0135	39.0	9.9	0.0300	67.4
5.00	21.0	36.0	30.2	0.0135	36.0	10.4	0.0194	61.3
15.00	21.0	31.0	25.2	0.0135	31.0	11.2	0.0117	51.2
30.00	21.0	27.0	21.2	0.0135	27.0	11.9	0.0085	43.0
60.00	21.0	24.0	18.2	0.0135	24.0	12.4	0.0061	36.9
120.00	20.5	21.5	15.6	0.0136	21.5	12.8	0.0044	31.6
250.00	20.5	19.0	13.1	0.0136	19.0	13.2	0.0031	26.6
1440.00	21.5	15.0	9.3	0.0134	15.0	13.8	0.0013	18.9

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 22.0
% SILT = 55.9 **% CLAY =** 22.1

D_{85}= 0.18 D_{60}= 0.02 D_{50}= 0.01
D_{30}= 0.00

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	8.2	21.7	46.5	23.6

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.466	0.0473	0.0184	0.0037				

MATERIAL DESCRIPTION	USCS	AASHTO
gray loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST3-3C, 30'-32'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST3-3C
Elev. or Depth: 30'-32'
Sample Length (in./cm.):
Location: ST3-3C, 30'-32'
Description: gray loam
Liquid Limit:
Plastic Limit:
USCS Classification:
AASHTO Classification:
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	749.60
Tare =	228.10
Dry sample weight =	521.50

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.37 **Tare =** .00 **Sample weight =** 50.37
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.75 inch	0.00	100.0
.50 inch	11.51	97.8
.375 inch	16.27	96.9
# 4	26.65	94.9
# 10	42.94	91.8
# 20	2.11	88.0
# 40	4.00	84.5
# 60	5.95	81.0
# 100	8.40	76.5
# 200	11.92	70.1

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 91.8
Weight of hydrometer sample: 50.37
Hygroscopic moisture correction:
Moist weight & tare = 48.76
Dry weight & tare = 48.61
Tare = 28.35
Hygroscopic moisture= 0.7 %
Calculated biased weight= 54.47
Automatic temperature correction
Composite correction at 20 deg C = -6.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000

Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

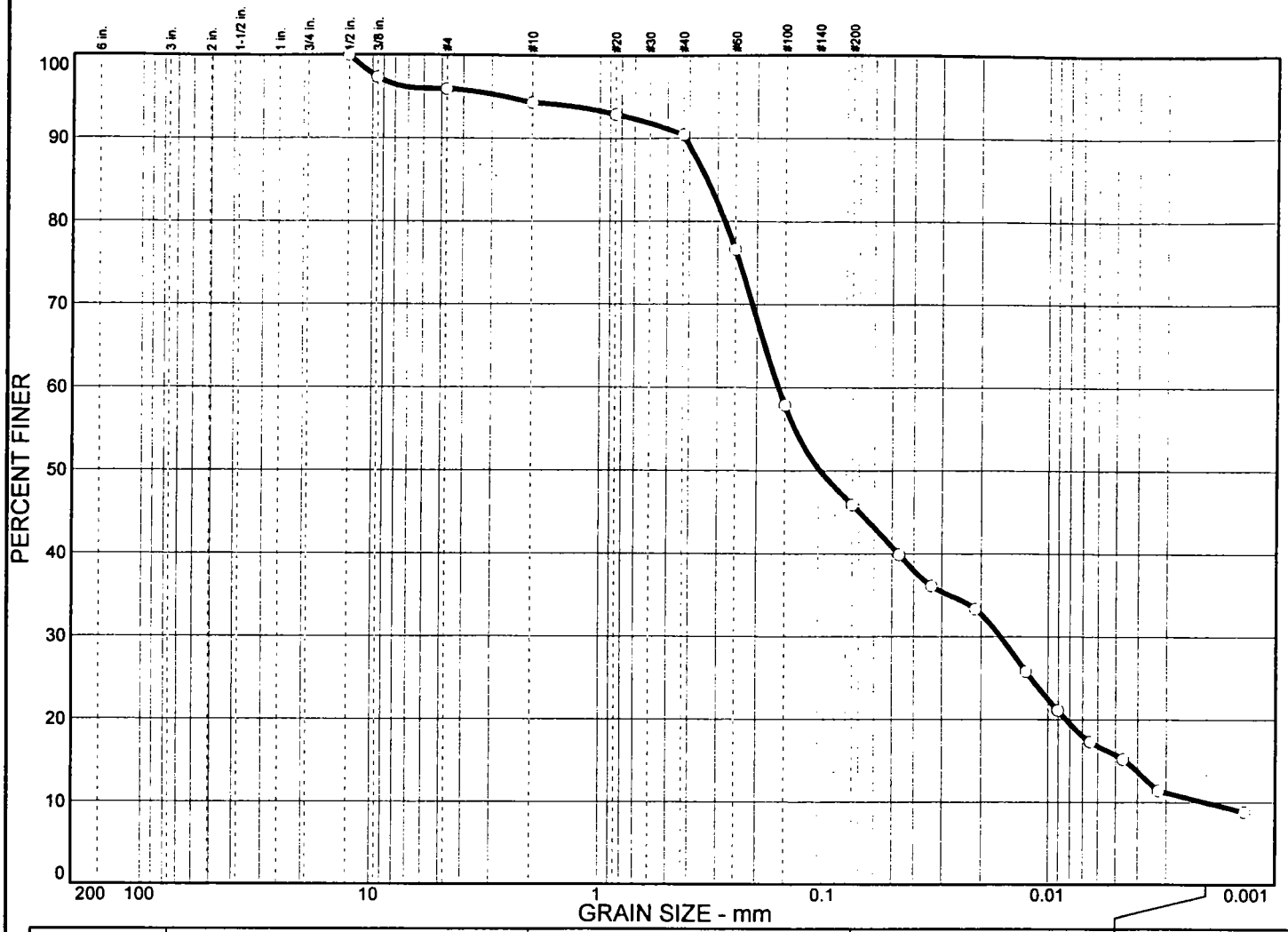
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	37.5	31.7	0.0135	37.5	10.1	0.0429	58.2
2.00	21.0	35.5	29.7	0.0135	35.5	10.5	0.0308	54.5
5.00	21.0	33.5	27.7	0.0135	33.5	10.8	0.0198	50.8
15.00	21.0	30.0	24.2	0.0135	30.0	11.4	0.0117	44.4
30.00	21.0	28.0	22.2	0.0135	28.0	11.7	0.0084	40.7
60.00	21.0	25.5	19.7	0.0135	25.5	12.1	0.0061	36.1
120.00	20.5	23.5	17.6	0.0136	23.5	12.4	0.0044	32.2
250.00	20.5	21.0	15.1	0.0136	21.0	12.9	0.0031	27.7
1440.00	21.5	17.0	11.3	0.0134	17.0	13.5	0.0013	20.7

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** 8.2 **% SAND =** 21.7
% SILT = 46.5 **% CLAY =** 23.6

D_{85}= 0.47 D_{60}= 0.05 D_{50}= 0.02
D_{30}= 0.00

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	5.7	48.4	35.9	10.0

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.335	0.160	0.104	0.0164	0.0045	0.0020	0.83	78.93

MATERIAL DESCRIPTION	USCS	AASHTO
brown/gray loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST4-1C, 4.0'-6.0'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST4-1C
Elev. or Depth: 4'-6' **Sample Length (in./cm.):**
Location: ST4-1C, 4.0'-6.0'
Description: brown/gray loam
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	481.60
Tare =	239.69
Dry sample weight =	241.91

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.30 **Tare =** .00 **Sample weight =** 50.30
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
.50 inch	0.00	100.0
.375 inch	6.51	97.3
# 4	9.84	95.9
# 10	13.90	94.3
# 20	0.74	92.9
# 40	2.06	90.4
# 60	9.42	76.6
# 100	19.43	57.9
# 200	25.82	45.9

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 94.3
Weight of hydrometer sample: 50.30
Hygroscopic moisture correction:
Moist weight & tare = 49.92
Dry weight & tare = 49.82
Tare = 28.53
Hygroscopic moisture= 0.5 %
Calculated biased weight= 53.09
Automatic temperature correction
Composite correction at 20 deg C = -6.0

niscus correction only= 0
ecific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H

Effective depth L= 16.294964 - 0.164 x Rm

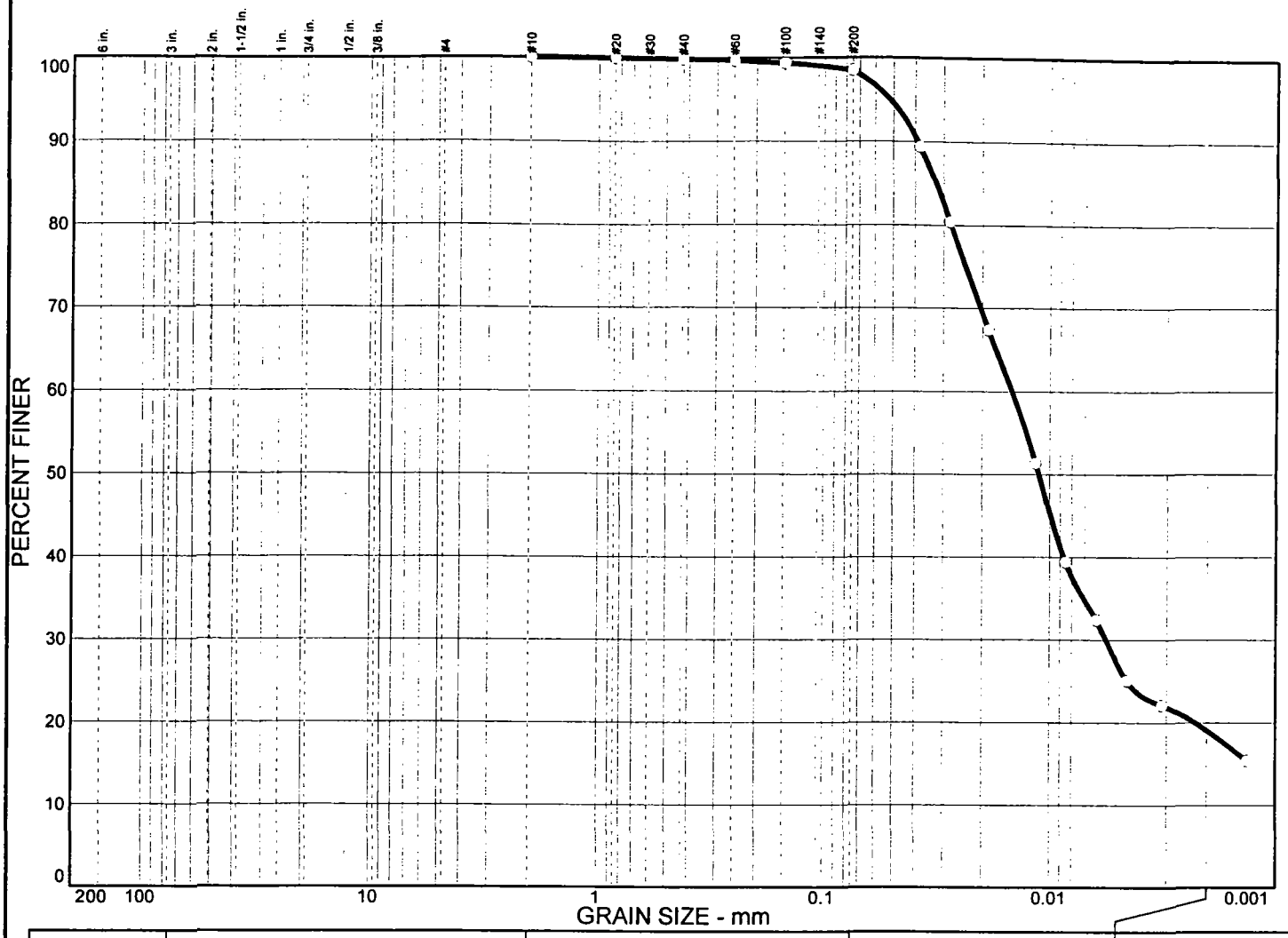
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	27.0	21.2	0.0135	27.0	11.9	0.0464	39.9
2.00	21.0	25.0	19.2	0.0135	25.0	12.2	0.0333	36.1
5.00	21.0	23.5	17.7	0.0135	23.5	12.4	0.0213	33.3
15.00	21.0	19.5	13.7	0.0135	19.5	13.1	0.0126	25.8
30.00	21.0	17.0	11.2	0.0135	17.0	13.5	0.0090	21.1
60.00	21.0	15.0	9.2	0.0135	15.0	13.8	0.0065	17.3
120.00	20.5	14.0	8.1	0.0136	14.0	14.0	0.0046	15.2
250.00	20.5	12.0	6.1	0.0136	12.0	14.3	0.0032	11.4
1440.00	21.0	10.5	4.7	0.0135	10.5	14.6	0.0014	8.8

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** 5.7 **% SAND =** 48.4
% SILT = 35.9 **% CLAY =** 10.0

D_{85}= 0.33 D_{60}= 0.16 D_{50}= 0.10
D_{30}= 0.02 D_{15}= 0.00 D_{10}= 0.00
C_c= 0.8282 C_u= 78.9344

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	1.5	79.5	19.0

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.0324	0.0148	0.0112	0.0056				

MATERIAL DESCRIPTION	USCS	AASHTO
gray silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST4-2C, 15.0'-17.0'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST4-2C
Elev. or Depth: 15'-17'
Sample Length (in./cm.):
Location: ST4-2C, 15.0'-17.0'
Description: gray silt loam
Liquid Limit:
Plastic Limit:
USCS Classification:
AASHTO Classification:
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	495.05
Tare =	227.96
Dry sample weight =	267.09

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.20 **Tare =** .00 **Sample weight =** 50.20
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.02	100.0
# 40	0.03	99.9
# 60	0.14	99.7
# 100	0.32	99.4
# 200	0.76	98.5

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.20
Hygroscopic moisture correction:
Moist weight & tare = 49.34
Dry weight & tare = 49.25
Tare = 28.61
Hygroscopic moisture= 0.4 %
Calculated biased weight= 49.98
Automatic temperature correction
Composite correction at 20 deg C = -6.5

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

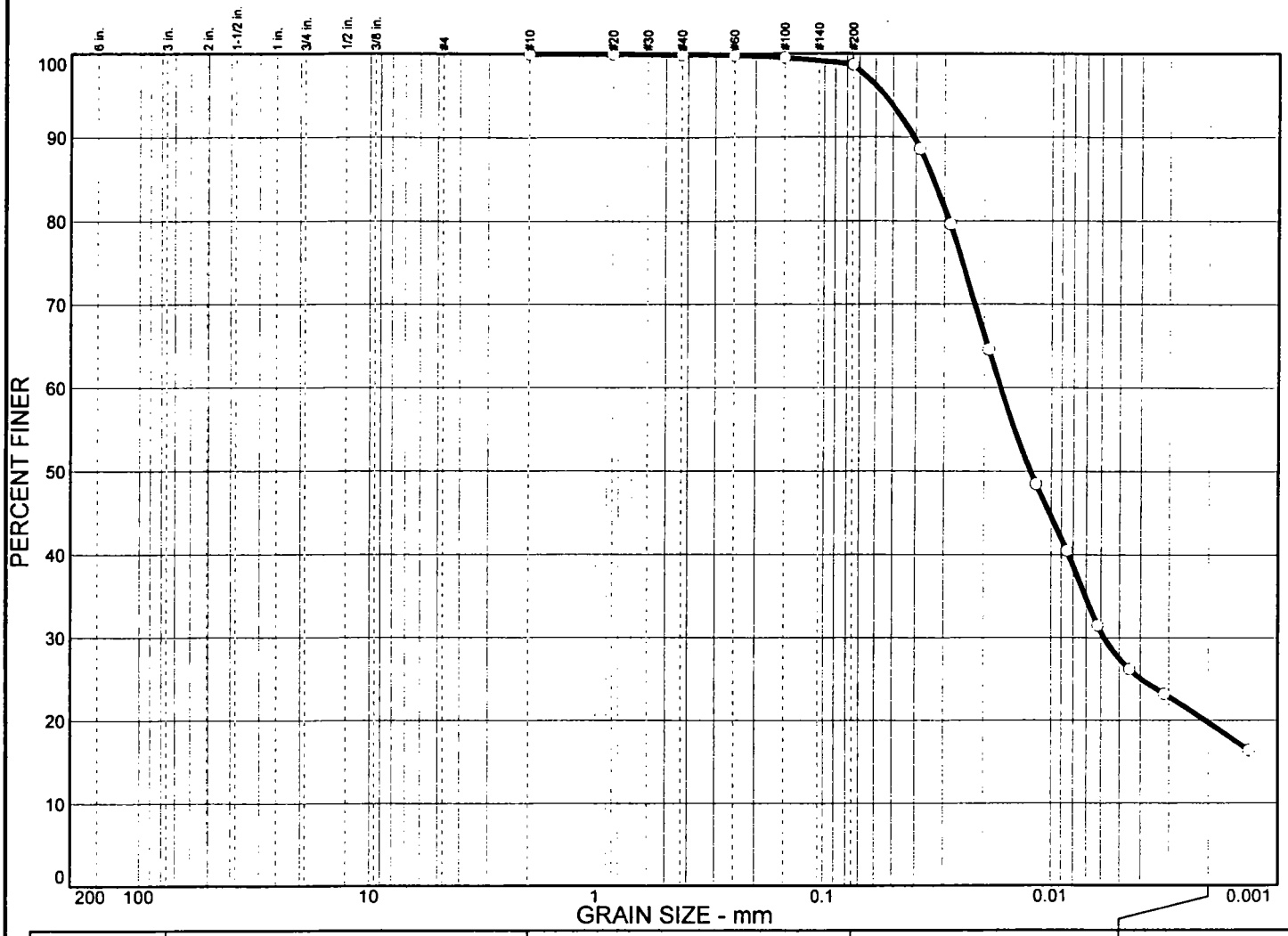
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	51.0	44.7	0.0135	51.0	7.9	0.0380	89.4
2.00	21.0	46.5	40.2	0.0135	46.5	8.7	0.0281	80.4
5.00	21.0	40.0	33.7	0.0135	40.0	9.7	0.0188	67.4
15.00	21.0	32.0	25.7	0.0135	32.0	11.0	0.0116	51.4
30.00	21.0	26.0	19.7	0.0135	26.0	12.0	0.0085	39.4
60.00	21.0	22.5	16.2	0.0135	22.5	12.6	0.0062	32.4
120.00	20.5	19.0	12.6	0.0136	19.0	13.2	0.0045	25.1
250.00	20.5	17.5	11.1	0.0136	17.5	13.4	0.0031	22.1
1440.00	21.0	14.0	7.7	0.0135	14.0	14.0	0.0013	15.4

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 1.5
% SILT = 79.5 **% CLAY =** 19.0

D_{85}= 0.03 D_{60}= 0.01 D_{50}= 0.01
D_{30}= 0.01

GRAIN SIZE DISTRIBUTION REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.0	1.3	79.0	19.7

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.0335	0.0169	0.0124	0.0058				

MATERIAL DESCRIPTION	USCS	AASHTO
○ gray silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

○ **Location:** ST4-3C, 25'-27'

Remarks:

○

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST4-3C
Elev. or Depth: 25'-27' **Sample Length (in./cm.):**
Location: ST4-3C, 25'-27'
Description: gray silt loam
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	559.39
Tare =	227.98
Dry sample weight =	331.41

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.11 **Tare =** .00 **Sample weight =** 50.11
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.02	100.0
# 40	0.03	99.9
# 60	0.11	99.8
# 100	0.25	99.5
# 200	0.66	98.7

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.11
Hygroscopic moisture correction:
Moist weight & tare = 48.61
Dry weight & tare = 48.50
Tare = 28.33
Hygroscopic moisture= 0.5 %
Calculated biased weight= 49.84
Automatic temperature correction
Composite correction at 20 deg C = -6.0

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

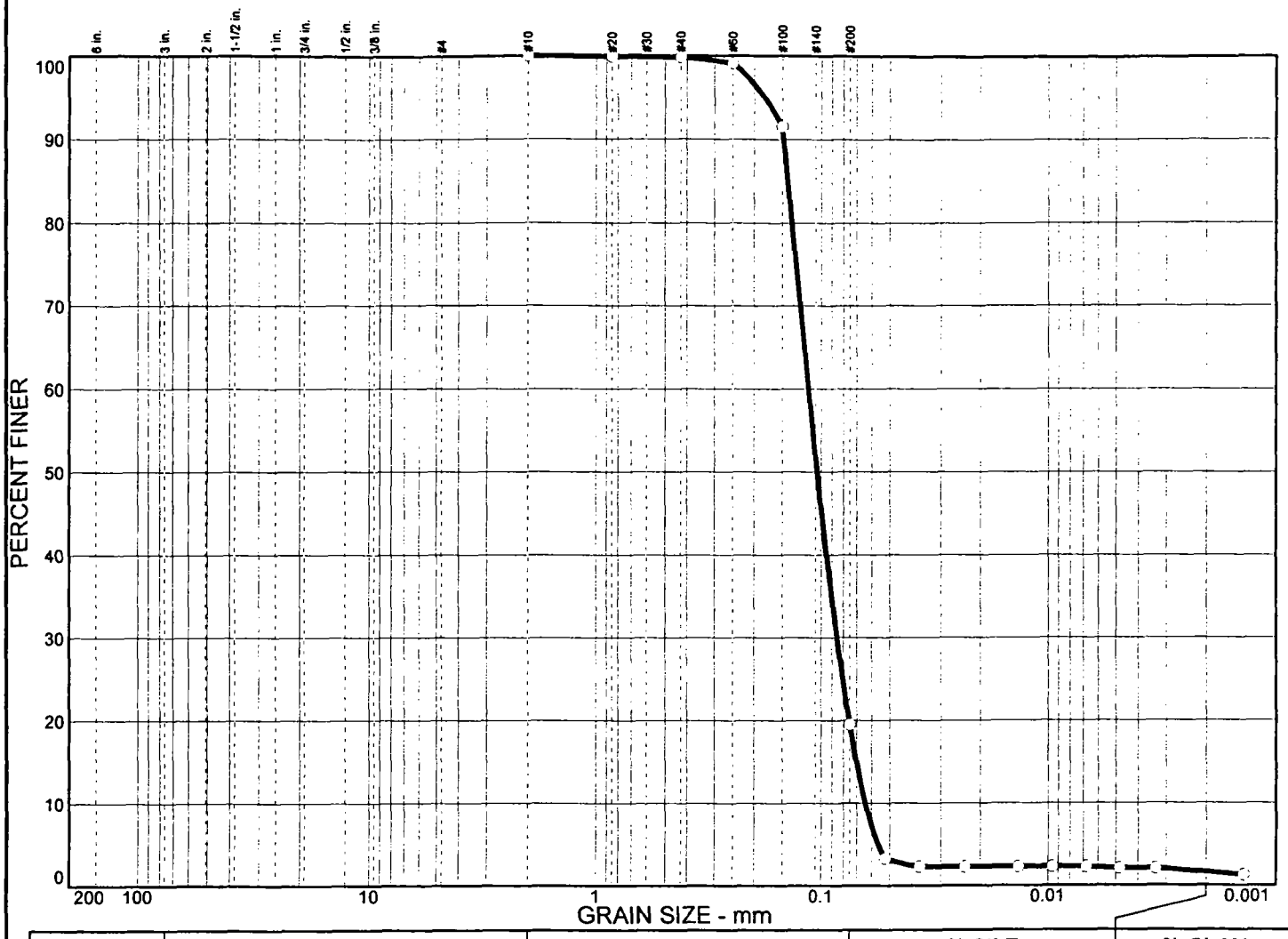
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	50.0	44.2	0.0135	50.0	8.1	0.0383	88.6
2.00	21.0	45.5	39.7	0.0135	45.5	8.8	0.0283	79.6
5.00	21.0	38.0	32.2	0.0135	38.0	10.1	0.0191	64.6
15.00	21.0	30.0	24.2	0.0135	30.0	11.4	0.0117	48.5
30.00	21.0	26.0	20.2	0.0135	26.0	12.0	0.0085	40.5
60.00	21.0	21.5	15.7	0.0135	21.5	12.8	0.0062	31.5
120.00	20.5	19.0	13.1	0.0136	19.0	13.2	0.0045	26.2
250.00	20.5	17.5	11.6	0.0136	17.5	13.4	0.0031	23.2
1440.00	21.0	14.0	8.2	0.0135	14.0	14.0	0.0013	16.4

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 1.3
% SILT = 79.0 **% CLAY =** 19.7

D_{85}= 0.03 D_{60}= 0.02 D_{50}= 0.01
D_{30}= 0.01

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	80.5	17.9	1.6

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		0.142	0.114	0.104	0.0854	0.0701	0.0640	1.00	1.79

MATERIAL DESCRIPTION	USCS	AASHTO
brown sand		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST5-1C, 6'-8'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST5-1C
Elev. or Depth: 6'-8' **Sample Length (in./cm.):**
Location: ST5-1C, 6'-8'
Description: brown sand
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	422.96
Tare =	228.82
Dry sample weight =	194.14

Sample split on number 10 sieve
Split sample data:
Sample and tare = 50.65 Tare = .00 Sample weight = 50.65
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.04	99.9
# 40	0.10	99.8
# 60	0.45	99.1
# 100	4.30	91.5
# 200	40.78	19.5

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.65
Hygroscopic moisture correction:
Moist weight & tare = 52.49
Dry weight & tare = 52.46
Tare = 31.67
Hygroscopic moisture= 0.1 %
Calculated biased weight= 50.58
Automatic temperature correction
Composite correction at 20 deg C = -6.5

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

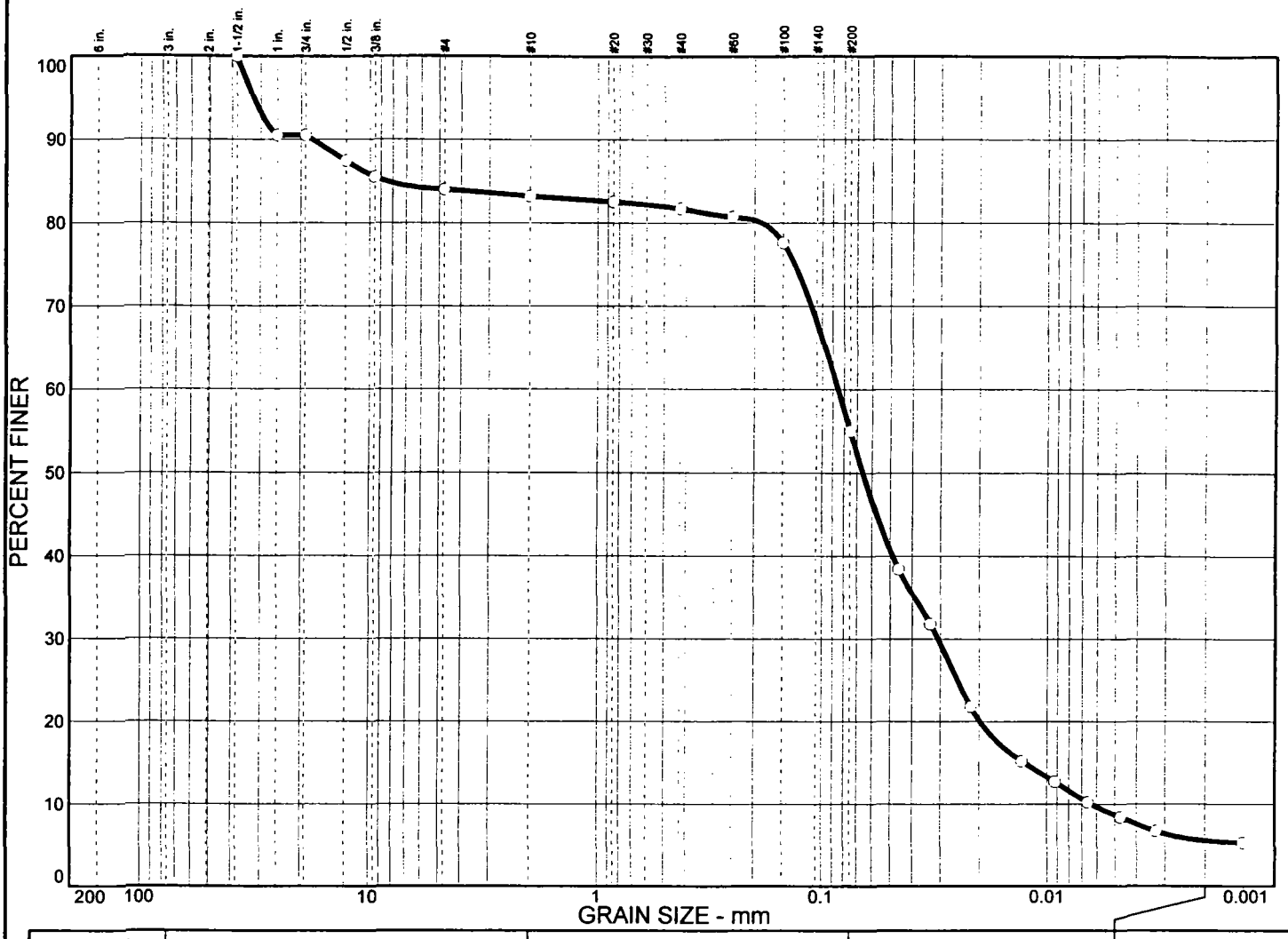
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	8.0	1.7	0.0135	8.0	15.0	0.0522	3.3
2.00	21.0	7.5	1.2	0.0135	7.5	15.1	0.0370	2.3
5.00	21.0	7.5	1.2	0.0135	7.5	15.1	0.0234	2.3
15.00	21.0	7.5	1.2	0.0135	7.5	15.1	0.0135	2.3
30.00	21.0	7.5	1.2	0.0135	7.5	15.1	0.0096	2.3
60.00	21.0	7.5	1.2	0.0135	7.5	15.1	0.0068	2.3
120.00	20.5	7.5	1.1	0.0136	7.5	15.1	0.0048	2.1
250.00	20.5	7.5	1.1	0.0136	7.5	15.1	0.0033	2.1
1440.00	21.0	7.0	0.7	0.0135	7.0	15.1	0.0014	1.3

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 80.5
% SILT = 17.9 **% CLAY =** 1.6

D_{85}= 0.14 D_{60}= 0.11 D_{50}= 0.10
D_{30}= 0.09 D_{15}= 0.07 D_{10}= 0.06
C_c= 0.9976 C_u= 1.7866

GRAIN SIZE DISTRIBUTION REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	16.8	28.2	49.4	5.6

LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
		8.53	0.0852	0.0658	0.0308	0.0126	0.0064	1.74	13.36

MATERIAL DESCRIPTION	USCS	AASHTO
brown/gray loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

Location: ST5-2C, 15'-17'

Remarks:

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST5-2C
Elev. or Depth: 15'-17'
Sample Length (in./cm.):
Location: ST5-2C, 15'-17'
Description: brown/gray loam
Liquid Limit:
Plastic Limit:
USCS Classification:
AASHTO Classification:
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	564.38
Tare =	228.02
Dry sample weight =	336.36

Sample split on number 10 **sieve**
Split sample data:
Sample and tare = 50.37 **Tare =** .00 **Sample weight =** 50.37
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
1.50 inch	0.00	100.0
1.0 inch	32.04	90.5
.75 inch	32.04	90.5
.50 inch	42.27	87.4
.375 inch	48.93	85.5
# 4	53.78	84.0
# 10	56.67	83.2
# 20	0.41	82.5
# 40	0.89	81.7
# 60	1.54	80.7
# 100	3.37	77.6
# 200	17.09	55.0

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 83.2
Weight of hydrometer sample: 50.37
Hygroscopic moisture correction:
Moist weight & tare = 48.71
Dry weight & tare = 48.65
Tare = 28.46
Hygroscopic moisture= 0.3 %
Calculated biased weight= 60.36
tomatic temperature correction
Composite correction at 20 deg C = -6.0

Meniscus correction only= 0

Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
Hydrometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

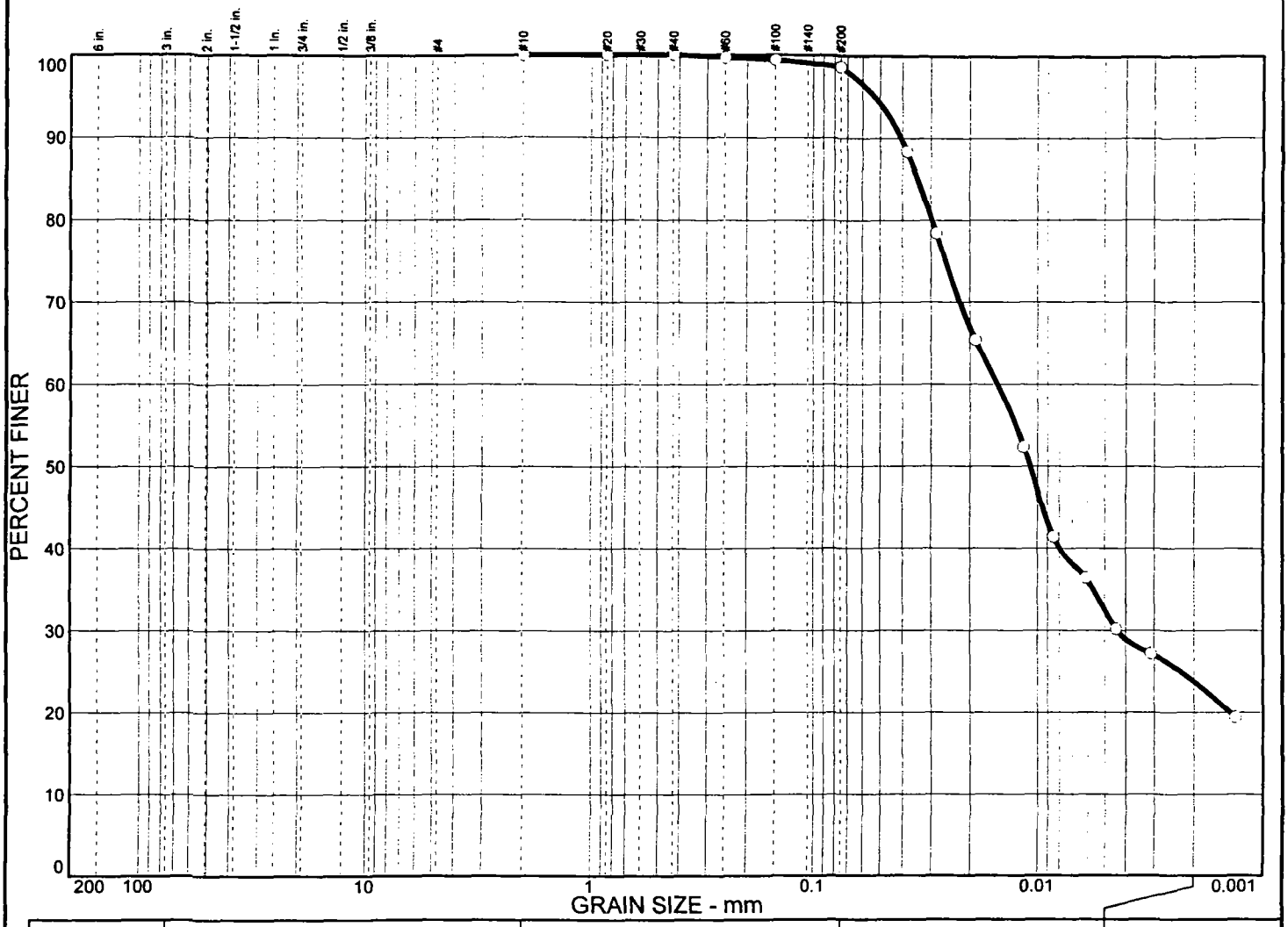
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	29.0	23.2	0.0135	29.0	11.5	0.0458	38.4
2.00	21.0	25.0	19.2	0.0135	25.0	12.2	0.0333	31.8
5.00	21.0	19.0	13.2	0.0135	19.0	13.2	0.0219	21.8
15.00	21.0	15.0	9.2	0.0135	15.0	13.8	0.0129	15.2
30.00	21.0	13.5	7.7	0.0135	13.5	14.1	0.0092	12.7
60.00	21.0	12.0	6.2	0.0135	12.0	14.3	0.0066	10.2
120.00	20.5	11.0	5.1	0.0136	11.0	14.5	0.0047	8.4
250.00	20.5	10.0	4.1	0.0136	10.0	14.7	0.0033	6.7
1440.00	21.0	9.0	3.2	0.0135	9.0	14.8	0.0014	5.3

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL** = 16.8 **% SAND** = 28.2
% SILT = 49.4 **% CLAY** = 5.6

D_{85}= 8.53 D_{60}= 0.09 D_{50}= 0.07
D_{30}= 0.03 D_{15}= 0.01 D_{10}= 0.01
C_c= 1.7418 C_u= 13.3555

GRAIN SIZE DISTRIBUTION REPORT



	% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
○	0.0	0.0	1.4	74.8	23.8

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.0342	0.0151	0.0108	0.0044				

MATERIAL DESCRIPTION	USCS	AASHTO
○ gray silt loam		

Project No. 127211 **Client:** URS - Diamond

Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002

○ **Location:** ST5-3C, 30'-32'

Remarks:

○

GRAIN SIZE DISTRIBUTION REPORT

BOWSER-MORNER, INC.

GRAIN SIZE DISTRIBUTION TEST DATA

Client: URS - Diamond
Project: DuPont Automotive Products, Toledo, OH - Site Investigation - 2002
Project Number: 127211

Sample Data

Source: 127211 E.I. DuPont de Nemours, Inc.
Sample No.: ST5-3C
Elev. or Depth: 30'-32' **Sample Length (in./cm.):**
Location: ST5-3C, 30'-32'
Description: gray silt loam
Liquid Limit: **Plastic Limit:**
USCS Classification: **AASHTO Classification:**
Testing Remarks:

Mechanical Analysis Data

	Initial
Dry sample and tare=	575.77
Tare =	227.34
Dry sample weight =	348.43

Sample split on number 10 sieve
Split sample data:
Sample and tare = 50.22 Tare = .00 Sample weight = 50.22
Cumulative weight retained tare= .00
Tare for cumulative weight retained= .00

Sieve	Cumul. Wt. retained	Percent finer
# 10	0.00	100.0
# 20	0.00	100.0
# 40	0.01	100.0
# 60	0.15	99.7
# 100	0.32	99.4
# 200	0.68	98.6

Hydrometer Analysis Data

Separation sieve is #10
Percent -#10 based upon complete sample= 100.0
Weight of hydrometer sample: 50.22
Hygroscopic moisture correction:
Moist weight & tare = 49.04
Dry weight & tare = 48.93
Tare = 28.81
Hygroscopic moisture= 0.5 %
Calculated biased weight= 49.95
Automatic temperature correction
Composite correction at 20 deg C = -6.5

Meniscus correction only= 0
Specific gravity of solids= 2.65
Specific gravity correction factor= 1.000
drometer type: 152H
Effective depth L= 16.294964 - 0.164 x Rm

Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.00	21.0	50.5	44.2	0.0135	50.5	8.0	0.0382	88.4
2.00	21.0	45.5	39.2	0.0135	45.5	8.8	0.0283	78.4
5.00	21.0	39.0	32.7	0.0135	39.0	9.9	0.0190	65.4
15.00	21.0	32.5	26.2	0.0135	32.5	11.0	0.0115	52.4
30.00	21.0	27.0	20.7	0.0135	27.0	11.9	0.0085	41.4
60.00	21.0	24.5	18.2	0.0135	24.5	12.3	0.0061	36.4
120.00	20.5	21.5	15.1	0.0136	21.5	12.8	0.0044	30.2
250.00	20.5	20.0	13.6	0.0136	20.0	13.0	0.0031	27.2
1440.00	21.0	16.0	9.7	0.0135	16.0	13.7	0.0013	19.4

Fractional Components

Gravel/Sand based on #10
Sand/Fines based on #200
% + 3" = **% GRAVEL =** **% SAND =** 1.4
% SILT = 74.8 **% CLAY =** 23.8

D_{85}= 0.03 D_{60}= 0.02 D_{50}= 0.01
D_{30}= 0.00

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805
302-992-0595

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 863146. Samples arrived at the laboratory on Wednesday, August 13, 2003. The PO# for this group is LBIO-64808 and the release number is LE2667.

Client Description	Lancaster Labs Number
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample	4101132
TOL-S-AOC01-01(0-0.5)-MS Matrix Spike Soil Sample	4101133
TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil	4101134
TOL-S-AOC01-01(0-0.5) Duplicate Soil Sample	4101135
TOL-S-AOC01-02(0-0.5) Soil Sample	4101136
TOL-S-AOC01-03(0-0.5) Soil Sample	4101137
TOL-S-AOC01-04(0-0.5) Soil Sample	4101138
TOL-S-AOC01-05(0-0.5) Soil Sample	4101139
TOL-S-AOC01-06(0-0.5) Soil Sample	4101140
TOL-S-AOC01-07(0-0.5) Soil Sample	4101141
TOL-S-AOC01-08(0-0.5) Soil Sample	4101142
TOL-S-AOC01-09(0-0.5) Soil Sample	4101143
TOL-S-AOC01-10(0-0.5) Soil Sample	4101144
TOL-S-AOC01-01(0-0.5)-DUP Soil Sample	4101145
TOL-K-AOC01-EQBLK-01 Water Sample	4101146
TOL-E-TC-01 Sediment Sample	4101147
TOL-E-TC-02 Unspiked Sediment Sample	4101148
TOL-E-TC-02-MS Matrix Spike Sediment Sample	4101149
TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample	4101150
TOL-E-TC-02 Duplicate Sediment Sample	4101151
TOL-E-TC-03 Sediment Sample	4101152
TOL-E-TC-02-DUP Sediment Sample	4101153
TOL-W-TC-01 Water Sample	4101154
TOL-W-TC-02 Unspiked Water Sample	4101155
TOL-W-TC-02-MS Matrix Spike Water Sample	4101156
TOL-W-TC-02-MSD Matrix Spike Dup Water Sample	4101157
TOL-W-TC-02 Duplicate Water Sample	4101158
TOL-W-TC-03 Water Sample	4101159
TOL-W-TC-02-DUP Water Sample	4101160

Analysis Report

Lancaster Laboratories

TOL-K-TC-EQBLK-01 Water Sample	4101161
TOL-K-TBLK Water Sample	4101162

1 COPY TO URS Diamonds Attn: ADQM AP Services

Questions? Contact your Client Services Representative
Nancy J Bornholm at (717) 656-2300.

Respectfully Submitted,

Michele A. Jarosick
Michele A Jarosick
Senior Chemist

MEMBER ACIL
Lancaster Laboratories, Inc.
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717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101132

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:34
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0796	J	0.0030	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.02	mg/kg	1
06935	Arsenic	7440-38-2	7.46		0.549	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.516	mg/kg	1
06944	Antimony	7440-36-0	1.22	J	0.725	mg/kg	1
06946	Barium	7440-39-3	229.		0.0352	mg/kg	1
06947	Beryllium	7440-41-7	0.390	J	0.0648	mg/kg	1
06949	Cadmium	7440-43-9	0.567		0.0593	mg/kg	1
06951	Chromium	7440-47-3	18.2		0.220	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	5.13		0.154	mg/kg	1
06953	Copper	7440-50-8	15.2		0.209	mg/kg	1
06955	Lead	7439-92-1	182.		0.868	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	13.3		0.220	mg/kg	1
06966	Silver	7440-22-4	0.341	J	0.165	mg/kg	1
06969	Tin	7440-31-5	2.76	J	0.451	mg/kg	1
06971	Vanadium	7440-62-2	21.6		0.176	mg/kg	1
06972	Zinc	7440-66-6	152.		0.198	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	9.9		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101132

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:34
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	37.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	37.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	74.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	74.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	37.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	37.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	74.	ug/kg	1
04622	Aniline	62-53-3	N.D.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	180.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	74.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	74.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	74.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	74.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	74.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	74.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	74.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	74.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	74.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	74.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	37.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101132

Collected:08/12/2003 09:30 by AD

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Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		740.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		37.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.		37.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		74.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		180.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		74.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		74.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		74.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		74.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		920.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		74.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,800.	ug/kg	1
04669	Safrole	94-59-7	N.D.		74.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		74.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		74.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	47.	J	37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		180.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		74.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		180.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		37.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		74.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		37.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101132

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		37.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		37.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		180.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		180.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		180.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		74.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		74.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		74.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		74.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		180.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		74.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		74.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		180.	ug/kg	1
01195	Pyrene	129-00-0	140.	J	37.	ug/kg	1
03775	Phenanthrene	85-01-8	82.	J	37.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		74.	ug/kg	1
03778	Fluoranthene	206-44-0	170.	J	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		74.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	86.	J	37.	ug/kg	1
03782	Chrysene	218-01-9	120.	J	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		74.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	100.	J	74.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		74.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101132

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	150.	J	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	66.	J	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	110.	J	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	89.	J	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	100.	J	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		74.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		180.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		74.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		180.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		37.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		74.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		74.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		74.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		37.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		74.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.85
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.85
05445	Vinyl Chloride	75-01-4	N.D.		0.9	ug/kg	0.85
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.85
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.85
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.85
05449	1,1-Dichloroethene	75-35-4	N.D.		0.9	ug/kg	0.85
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.85
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		0.9	ug/kg	0.85
05452	1,1-Dichloroethane	75-34-3	N.D.		0.9	ug/kg	0.85
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		0.9	ug/kg	0.85
05455	Chloroform	67-66-3	N.D.		0.9	ug/kg	0.85
05457	1,1,1-Trichloroethane	71-55-6	N.D.		0.9	ug/kg	0.85
05458	Carbon Tetrachloride	56-23-5	N.D.		0.9	ug/kg	0.85
05460	Benzene	71-43-2	3.	J	0.9	ug/kg	0.85

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101132

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Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Unspiked Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		0.9	ug/kg	0.85
05462	Trichloroethene	79-01-6	N.D.		0.9	ug/kg	0.85
06293	Acetone	67-64-1	31.		7.	ug/kg	0.85
06294	Carbon Disulfide	75-15-0	3.	J	0.9	ug/kg	0.85
06296	2-Butanone	78-93-3	N.D.		4.	ug/kg	0.85
07586	Acrolein	107-02-8	N.D.		19.	ug/kg	0.85
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.85
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.85
07705	Acetonitrile	75-05-8	N.D.		24.	ug/kg	0.85
07706	Allyl Chloride	107-05-1	N.D.		0.9	ug/kg	0.85
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.85
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		0.9	ug/kg	0.85
07709	Propionitrile	107-12-0	N.D.		28.	ug/kg	0.85
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.85
07711	Isobutyl Alcohol	78-83-1	N.D.		94.	ug/kg	0.85
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		0.9	ug/kg	0.85
05464	Dibromomethane	74-95-3	N.D.		0.9	ug/kg	0.85
05465	Bromodichloromethane	75-27-4	N.D.		0.9	ug/kg	0.85
05466	Toluene	108-88-3	7.		0.9	ug/kg	0.85
05467	1,1,2-Trichloroethane	79-00-5	N.D.		0.9	ug/kg	0.85
05468	Tetrachloroethene	127-18-4	N.D.		0.9	ug/kg	0.85
05470	Dibromochloromethane	124-48-1	N.D.		0.9	ug/kg	0.85
05471	1,2-Dibromoethane	106-93-4	N.D.		0.9	ug/kg	0.85
05472	Chlorobenzene	108-90-7	N.D.		0.9	ug/kg	0.85
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.9	ug/kg	0.85
05474	Ethylbenzene	100-41-4	2.	J	0.9	ug/kg	0.85
05477	Styrene	100-42-5	N.D.		0.9	ug/kg	0.85
05478	Bromoform	75-25-2	N.D.		0.9	ug/kg	0.85
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.9	ug/kg	0.85
05482	1,2,3-Trichloropropane	96-18-4	N.D.		0.9	ug/kg	0.85
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.85
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.9	ug/kg	0.85
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.9	ug/kg	0.85
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.85

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.	3.	ug/kg	0.85
06301	Xylene (Total)	1330-20-7	5.	0.9	ug/kg	0.85
07712	Methyl Methacrylate	80-62-6	N.D.	0.9	ug/kg	0.85
07714	Ethyl Methacrylate	97-63-2	N.D.	0.9	ug/kg	0.85
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	9.	ug/kg	0.85
07716	Pentachloroethane	76-01-7	N.D.	0.9	ug/kg	0.85

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:02	Deborah A Krady	1
06925	Thallium	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06936	Selenium	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06944	Antimony	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06946	Barium	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 21:35	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06951	Chromium	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06953	Copper	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06955	Lead	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06961	Nickel	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06966	Silver	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06969	Tin	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 21:35	Donna R Sackett	1
06972	Zinc	SW-846 6010B	2	08/17/2003 20:24	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/17/2003 20:47	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/17/2003 20:47	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 20:47	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 20:47	Ian D Spotts	1

Lancaster Laboratories

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AOC10 SDG#: XXX01-01BKG

04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 20:47	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 17:56	Roy R Mellott Jr	0.85
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/15/2003 17:56	Roy R Mellott Jr	0.85
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 18:26	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 18:27	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 18:28	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 18:29	Medina A Long	n.a.

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TOL-S-AOC01-01(0-0.5)-MS Matrix Spike Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.248		0.0031	mg/kg	1
06925	Thallium	7440-28-0	218.		1.03	mg/kg	1
06935	Arsenic	7440-38-2	224.		0.555	mg/kg	1
06936	Selenium	7782-49-2	226.		0.522	mg/kg	1
06944	Antimony	7440-36-0	53.4		0.733	mg/kg	1
06946	Barium	7440-39-3	457.		0.0355	mg/kg	1
06947	Beryllium	7440-41-7	6.16		0.0655	mg/kg	1
06949	Cadmium	7440-43-9	5.94		0.0599	mg/kg	1
06951	Chromium	7440-47-3	43.2		0.222	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	57.9		0.155	mg/kg	1
06953	Copper	7440-50-8	42.4		0.211	mg/kg	1
06955	Lead	7439-92-1	267.		0.877	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	65.1		0.222	mg/kg	1
06966	Silver	7440-22-4	6.05		0.166	mg/kg	1
06969	Tin	7440-31-5	446.		0.455	mg/kg	1
06971	Vanadium	7440-62-2	81.0		0.178	mg/kg	1
06972	Zinc	7440-66-6	209.		0.200	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00118	Moisture	n.a.	9.9		0.50	%	1
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	3,100.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	1,300.	J	37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						
01185	Phenol	108-95-2	3,600.		37.	ug/kg	1
01186	2-Chlorophenol	95-57-8	3,300.		37.	ug/kg	1

Lancaster Laboratories

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TOL-S-AOC01-01(0-0.5)-MS Matrix Spike Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01187	1,4-Dichlorobenzene	106-46-7	3,000.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	3,400.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	3,700.	74.	ug/kg	1
03746	2-Nitrophenol	88-75-5	3,300.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	3,400.	74.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	3,300.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	3,000.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	3,100.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	4,000.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	3,100.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	3,500.	37.	ug/kg	1
03759	Isophorone	78-59-1	3,300.	37.	ug/kg	1
04619	Acetophenone	98-86-2	3,400.	74.	ug/kg	1
04622	Aniline	62-53-3	3,000.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	3,500.	180.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	3,400.	74.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	3,000.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	3,200.	74.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	3,300.	74.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	3,400.	74.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	3,500.	74.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	3,700.	74.	ug/kg	1
04666	2-Picoline	109-06-8	3,100.	74.	ug/kg	1
04668	Pyridine	110-86-1	2,500.	74.	ug/kg	1
04674	o-Toluidine	95-53-4	2,500.	74.	ug/kg	1
04690	2-Methylphenol	95-48-7	3,300.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	3,200.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	3,900.	74.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	3,400.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	3,500.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	3,400.	37.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	2,600.	740.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	3,800.	37.	ug/kg	1
03761	Naphthalene	91-20-3	3,300.	37.	ug/kg	1

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Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03762	Hexachlorobutadiene	87-68-3	3,500.		74.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		180.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	3,100.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	3,200.		74.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	3,300.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	3,500.		74.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	3,400.		74.	ug/kg	1
04640	Hexachloropropene	1888-71-7	2,000.		110.	ug/kg	1
04642	Isosafrole	120-58-1	3,100.		74.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	19,000.		920.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	3,400.		74.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	4,700.	J	2,800.	ug/kg	1
04669	Safrole	94-59-7	3,400.		74.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	3,400.		74.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	3,600.		74.	ug/kg	1
04693	4-Chloroaniline	106-47-8	3,000.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	3,300.		37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	3,400.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	3,500.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	3,400.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	3,600.		180.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	3,600.		74.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	3,000.		180.	ug/kg	1
03765	Acenaphthylene	208-96-8	3,300.		37.	ug/kg	1
03768	Fluorene	86-73-7	3,200.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	3,200.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	3,300.		74.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	3,100.		37.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	3,300.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	3,400.		37.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	3,400.		37.	ug/kg	1

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AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
04632	Dimethoate	60-51-5	3,900.	37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	1,900.	180.	ug/kg	1
04649	2-Naphthylamine	91-59-8	1,100.	180.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	2,000.	180.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	3,600.	74.	ug/kg	1
04664	Phenacetin	62-44-2	3,600.	74.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	3,200.	74.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	3,700.	74.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	1,400.	180.	ug/kg	1
04697	3-Nitroaniline	99-09-2	2,900.	74.	ug/kg	1
04698	Dibenzofuran	132-64-9	3,200.	37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	2,800.	74.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	2,000.	110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	2,000.	180.	ug/kg	1
01195	Pyrene	129-00-0	3,200.	37.	ug/kg	1
03775	Phenanthrene	85-01-8	3,300.	37.	ug/kg	1
03776	Anthracene	120-12-7	3,400.	37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	3,400.	74.	ug/kg	1
03778	Fluoranthene	206-44-0	3,300.	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	3,200.	74.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	3,400.	37.	ug/kg	1
03782	Chrysene	218-01-9	3,500.	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	2,900.	74.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	3,400.	74.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	3,200.	74.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	3,600.	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	3,400.	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	3,500.	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	3,400.	37.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101133

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:35
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-MS Matrix Spike Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	3,700.	37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	3,400.	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	3,200.	74.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	1,500.	180.	ug/kg	1
04626	Chlorobenzilate	510-15-6	3,500.	37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	2,800.	74.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	3,300.	37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	1,300.	180.	ug/kg	1
04641	Isodrin	465-73-6	3,700.	37.	ug/kg	1
04643	Methapyrilene	91-80-5	480.	74.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	3,600.	74.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	10,000.	370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	3,400.	74.	ug/kg	1
04667	Pronamide	23950-58-5	3,600.	37.	ug/kg	1
04673	Thionazin	297-97-2	3,500.	74.	ug/kg	1
07720	Appendix IX Volatiles					
05443	Dichlorodifluoromethane	75-71-8	15.	2.	ug/kg	0.86
05444	Chloromethane	74-87-3	16.	2.	ug/kg	0.86
05445	Vinyl Chloride	75-01-4	13.	1.	ug/kg	0.86
05446	Bromomethane	74-83-9	12.	2.	ug/kg	0.86
05447	Chloroethane	75-00-3	12.	2.	ug/kg	0.86
05448	Trichlorofluoromethane	75-69-4	12.	2.	ug/kg	0.86
05449	1,1-Dichloroethene	75-35-4	12.	1.	ug/kg	0.86
05450	Methylene Chloride	75-09-2	14.	2.	ug/kg	0.86
05451	trans-1,2-Dichloroethene	156-60-5	12.	1.	ug/kg	0.86
05452	1,1-Dichloroethane	75-34-3	13.	1.	ug/kg	0.86
05454	cis-1,2-Dichloroethene	156-59-2	12.	1.	ug/kg	0.86
05455	Chloroform	67-66-3	13.	1.	ug/kg	0.86
05457	1,1,1-Trichloroethane	71-55-6	12.	1.	ug/kg	0.86
05458	Carbon Tetrachloride	56-23-5	12.	1.	ug/kg	0.86
05460	Benzene	71-43-2	15.	1.	ug/kg	0.86
05461	1,2-Dichloroethane	107-06-2	15.	1.	ug/kg	0.86
05462	Trichloroethene	79-01-6	11.	1.	ug/kg	0.86
06293	Acetone	67-64-1	160.	7.	ug/kg	0.86
06294	Carbon Disulfide	75-15-0	14.	1.	ug/kg	0.86

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06296	2-Butanone	78-93-3	130.	4.	ug/kg	0.86
07586	Acrolein	107-02-8	130.	19.	ug/kg	0.86
07587	Acrylonitrile	107-13-1	86.	4.	ug/kg	0.86
07704	Methyl Iodide	74-88-4	13.	3.	ug/kg	0.86
07705	Acetonitrile	75-05-8	160.	24.	ug/kg	0.85
07706	Allyl Chloride	107-05-1	12.	1.	ug/kg	0.86
07707	Vinyl Acetate	108-05-4	110.	2.	ug/kg	0.85
07708	2-Chloro-1,3-butadiene	126-99-8	12.	1.	ug/kg	0.86
07709	Propionitrile	107-12-0	160.	29.	ug/kg	0.86
07710	Methacrylonitrile	126-98-7	120.	5.	ug/kg	0.86
07711	Isobutyl Alcohol	78-83-1	600.	95.	ug/kg	0.86
07721	Appendix IX Volatiles cont'd					
05463	1,2-Dichloropropane	78-87-5	13.	1.	ug/kg	0.86
05464	Dibromomethane	74-95-3	14.	1.	ug/kg	0.86
05465	Bromodichloromethane	75-27-4	13.	1.	ug/kg	0.86
05466	Toluene	108-88-3	19.	1.	ug/kg	0.86
05467	1,1,2-Trichloroethane	79-00-5	14.	1.	ug/kg	0.86
05468	Tetrachloroethene	127-18-4	12.	1.	ug/kg	0.86
05470	Dibromochloromethane	124-48-1	14.	1.	ug/kg	0.86
05471	1,2-Dibromoethane	106-93-4	13.	1.	ug/kg	0.86
05472	Chlorobenzene	108-90-7	12.	1.	ug/kg	0.86
05473	1,1,1,2-Tetrachloroethane	630-20-6	13.	1.	ug/kg	0.86
05474	Ethylbenzene	100-41-4	13.	1.	ug/kg	0.86
05477	Styrene	100-42-5	11.	1.	ug/kg	0.86
05478	Bromoform	75-25-2	12.	1.	ug/kg	0.86
05480	1,1,2,2-Tetrachloroethane	79-34-5	14.	1.	ug/kg	0.86
05482	1,2,3-Trichloropropane	96-18-4	16.	1.	ug/kg	0.86
05495	1,2-Dibromo-3-chloropropane	96-12-8	10.	2.	ug/kg	0.86
06297	trans-1,3-Dichloropropene	10061-02-6	13.	1.	ug/kg	0.86
06298	cis-1,3-Dichloropropene	10061-01-5	13.	1.	ug/kg	0.86
06299	4-Methyl-2-pentanone	108-10-1	73.	3.	ug/kg	0.86
06300	2-Hexanone	591-78-6	75.	3.	ug/kg	0.86
06301	Xylene (Total)	1330-20-7	38.	1.	ug/kg	0.86
07712	Methyl Methacrylate	80-62-6	14.	1.	ug/kg	0.86
07714	Ethyl Methacrylate	97-63-2	14.	1.	ug/kg	0.86

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07715	trans-1,4-Dichloro-2-butene	110-57-6	62.	10.	ug/kg	0.86
07716	Pentachloroethane	76-01-7	13.	1.	ug/kg	0.86

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:09	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 21:54	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 20:43	Donna R Sackett	1
00118	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/17/2003 21:36	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/17/2003 21:36	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 21:36	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 21:36	Ian D Spotts	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 21:36	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 18:22	Roy R Mellott Jr	0.86
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 19:14	Roy R Mellott Jr	0.85

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101133

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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-MS Matrix Spike Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MS

07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/15/2003 18:22	Roy R Mellott Jr	0.86
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:48	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:49	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:50	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:51	Medina A Long	n.a.

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101134

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:36
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.259		0.0031	mg/kg	1
06925	Thallium	7440-28-0	218.		1.03	mg/kg	1
06935	Arsenic	7440-38-2	223.		0.555	mg/kg	1
06936	Selenium	7782-49-2	225.		0.522	mg/kg	1
06944	Antimony	7440-36-0	53.4		0.733	mg/kg	1
06946	Barium	7440-39-3	496.		0.0355	mg/kg	1
06947	Beryllium	7440-41-7	6.11		0.0655	mg/kg	1
06949	Cadmium	7440-43-9	5.96		0.0599	mg/kg	1
06951	Chromium	7440-47-3	46.3		0.222	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	57.7		0.155	mg/kg	1
06953	Copper	7440-50-8	43.2		0.211	mg/kg	1
06955	Lead	7439-92-1	306.		0.877	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	65.3		0.222	mg/kg	1
06966	Silver	7440-22-4	6.02		0.166	mg/kg	1
06969	Tin	7440-31-5	445.		0.455	mg/kg	1
06971	Vanadium	7440-62-2	80.7		0.178	mg/kg	1
06972	Zinc	7440-66-6	224.		0.200	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00118	Moisture	n.a.	9.9		0.50	%	1
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	3,500.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	1,400.	J	37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						
01185	Phenol	108-95-2	3,500.		37.	ug/kg	1
01186	2-Chlorophenol	95-57-8	3,300.		37.	ug/kg	1

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01187	1,4-Dichlorobenzene	106-46-7	2,500.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	3,400.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	3,800.	74.	ug/kg	1
03746	2-Nitrophenol	88-75-5	3,400.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	3,100.	74.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	3,100.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	2,500.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	2,600.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	3,700.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	2,600.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	3,300.	37.	ug/kg	1
03759	Isophorone	78-59-1	3,200.	37.	ug/kg	1
04619	Acetophenone	98-86-2	3,300.	74.	ug/kg	1
04622	Aniline	62-53-3	3,000.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	3,500.	180.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	3,400.	74.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	3,000.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	3,300.	74.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	3,300.	74.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	3,400.	74.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	3,600.	74.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	3,700.	74.	ug/kg	1
04666	2-Picoline	109-06-8	2,700.	74.	ug/kg	1
04668	Pyridine	110-86-1	2,100.	74.	ug/kg	1
04674	o-Toluidine	95-53-4	2,700.	74.	ug/kg	1
04690	2-Methylphenol	95-48-7	3,300.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	3,100.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	3,700.	74.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	3,400.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	3,400.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	3,500.	37.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	2,600.	740.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	3,800.	37.	ug/kg	1
03761	Naphthalene	91-20-3	3,200.	37.	ug/kg	1

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03762	Hexachlorobutadiene	87-68-3	3,000.		74.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	440.	J	180.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	3,200.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	3,300.		74.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	3,400.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	3,400.		74.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	3,500.		74.	ug/kg	1
04640	Hexachloropropene	1888-71-7	2,500.		110.	ug/kg	1
04642	Isosafrole	120-58-1	3,100.		74.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	15,000.		920.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	3,400.		74.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	10,000.		2,800.	ug/kg	1
04669	Safrole	94-59-7	3,400.		74.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	3,300.		74.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	3,700.		74.	ug/kg	1
04693	4-Chloroaniline	106-47-8	3,500.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	3,200.		37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	3,500.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	3,600.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	3,500.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	3,600.		180.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	3,800.		74.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	3,100.		180.	ug/kg	1
03765	Acenaphthylene	208-96-8	3,400.		37.	ug/kg	1
03768	Fluorene	86-73-7	3,300.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	3,300.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	3,400.		74.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	3,100.		37.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	3,300.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	3,400.		37.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	3,400.		37.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101134

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:36
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
04632	Dimethoate	60-51-5	4,300.	37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	1,800.	180.	ug/kg	1
04649	2-Naphthylamine	91-59-8	1,300.	180.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	2,200.	180.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	3,700.	74.	ug/kg	1
04664	Phenacetin	62-44-2	3,700.	74.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	3,400.	74.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	3,700.	74.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	1,300.	180.	ug/kg	1
04697	3-Nitroaniline	99-09-2	3,100.	74.	ug/kg	1
04698	Dibenzofuran	132-64-9	3,400.	37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	3,100.	74.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	1,500.	110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	1,900.	180.	ug/kg	1
01195	Pyrene	129-00-0	4,400.	37.	ug/kg	1
03775	Phenanthrene	85-01-8	4,500.	37.	ug/kg	1
03776	Anthracene	120-12-7	3,600.	37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	3,400.	74.	ug/kg	1
03778	Fluoranthene	206-44-0	5,000.	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	3,400.	74.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	4,000.	37.	ug/kg	1
03782	Chrysene	218-01-9	4,300.	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	2,900.	74.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	3,500.	74.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	3,100.	74.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	4,400.	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	3,700.	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	3,900.	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	3,700.	37.	ug/kg	1

Lancaster Laboratories

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TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03790	Dibenz(a,h)anthracene	53-70-3	3,900.	37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	3,600.	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	3,300.	74.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	1,700.	180.	ug/kg	1
04626	Chlorobenzilate	510-15-6	3,600.	37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	3,200.	74.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	3,200.	37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	1,100.	180.	ug/kg	1
04641	Isodrin	465-73-6	3,600.	37.	ug/kg	1
04643	Methapyrilene	91-80-5	450.	74.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	3,600.	74.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	8,600.	370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	3,500.	74.	ug/kg	1
04667	Pronamide	23950-58-5	3,600.	37.	ug/kg	1
04673	Thionazin	297-97-2	3,600.	74.	ug/kg	1
07720	Appendix IX Volatiles					
05443	Dichlorodifluoromethane	75-71-8	13.	2.	ug/kg	0.9
05444	Chloromethane	74-87-3	16.	2.	ug/kg	0.9
05445	Vinyl Chloride	75-01-4	13.	1.	ug/kg	0.9
05446	Bromomethane	74-83-9	13.	2.	ug/kg	0.9
05447	Chloroethane	75-00-3	13.	2.	ug/kg	0.9
05448	Trichlorofluoromethane	75-69-4	11.	2.	ug/kg	0.9
05449	1,1-Dichloroethene	75-35-4	11.	1.	ug/kg	0.9
05450	Methylene Chloride	75-09-2	15.	2.	ug/kg	0.9
05451	trans-1,2-Dichloroethene	156-60-5	11.	1.	ug/kg	0.9
05452	1,1-Dichloroethane	75-34-3	12.	1.	ug/kg	0.9
05454	cis-1,2-Dichloroethene	156-59-2	12.	1.	ug/kg	0.9
05455	Chloroform	67-66-3	13.	1.	ug/kg	0.9
05457	1,1,1-Trichloroethane	71-55-6	11.	1.	ug/kg	0.9
05458	Carbon Tetrachloride	56-23-5	11.	1.	ug/kg	0.9
05460	Benzene	71-43-2	17.	1.	ug/kg	0.9
05461	1,2-Dichloroethane	107-06-2	16.	1.	ug/kg	0.9
05462	Trichloroethene	79-01-6	11.	1.	ug/kg	0.9
06293	Acetone	67-64-1	210.	7.	ug/kg	0.9
06294	Carbon Disulfide	75-15-0	14.	1.	ug/kg	0.9

Lancaster Laboratories

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TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06296	2-Butanone	78-93-3	170.	4.	ug/kg	0.9
07586	Acrolein	107-02-8	160.	20.	ug/kg	0.9
07587	Acrylonitrile	107-13-1	110.	4.	ug/kg	0.9
07704	Methyl Iodide	74-88-4	12.	3.	ug/kg	0.9
07705	Acetonitrile	75-05-8	170.	24.	ug/kg	0.85
07706	Allyl Chloride	107-05-1	11.	1.	ug/kg	0.9
07707	Vinyl Acetate	108-05-4	99.	2.	ug/kg	0.85
07708	2-Chloro-1,3-butadiene	126-99-8	11.	1.	ug/kg	0.9
07709	Propionitrile	107-12-0	190.	30.	ug/kg	0.9
07710	Methacrylonitrile	126-98-7	150.	5.	ug/kg	0.9
07711	Isobutyl Alcohol	78-83-1	660.	100.	ug/kg	0.9
07721	Appendix IX Volatiles cont'd					
05463	1,2-Dichloropropane	78-87-5	13.	1.	ug/kg	0.9
05464	Dibromomethane	74-95-3	15.	1.	ug/kg	0.9
05465	Bromodichloromethane	75-27-4	13.	1.	ug/kg	0.9
05466	Toluene	108-88-3	20.	1.	ug/kg	0.9
05467	1,1,2-Trichloroethane	79-00-5	16.	1.	ug/kg	0.9
05468	Tetrachloroethene	127-18-4	11.	1.	ug/kg	0.9
05470	Dibromochloromethane	124-48-1	15.	1.	ug/kg	0.9
05471	1,2-Dibromoethane	106-93-4	15.	1.	ug/kg	0.9
05472	Chlorobenzene	108-90-7	12.	1.	ug/kg	0.9
05473	1,1,1,2-Tetrachloroethane	630-20-6	14.	1.	ug/kg	0.9
05474	Ethylbenzene	100-41-4	13.	1.	ug/kg	0.9
05477	Styrene	100-42-5	10.	1.	ug/kg	0.9
05478	Bromoform	75-25-2	14.	1.	ug/kg	0.9
05480	1,1,2,2-Tetrachloroethane	79-34-5	19.	1.	ug/kg	0.9
05482	1,2,3-Trichloropropane	96-18-4	20.	1.	ug/kg	0.9
05495	1,2-Dibromo-3-chloropropane	96-12-8	13.	2.	ug/kg	0.9
06297	trans-1,3-Dichloropropene	10061-02-6	14.	1.	ug/kg	0.9
06298	cis-1,3-Dichloropropene	10061-01-5	13.	1.	ug/kg	0.9
06299	4-Methyl-2-pentanone	108-10-1	96.	3.	ug/kg	0.9
06300	2-Hexanone	591-78-6	93.	3.	ug/kg	0.9
06301	Xylene (Total)	1330-20-7	39.	1.	ug/kg	0.9
07712	Methyl Methacrylate	80-62-6	16.	1.	ug/kg	0.9
07714	Ethyl Methacrylate	97-63-2	16.	1.	ug/kg	0.9

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101134

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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07715	trans-1,4-Dichloro-2-butene	110-57-6	80.	10.	ug/kg	0.9
07716	Pentachloroethane	76-01-7	16.	1.	ug/kg	0.9

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:10	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 22:01	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 20:50	Donna R Sackett	1
00118	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/17/2003 22:26	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/17/2003 22:26	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 22:26	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 22:26	Ian D Spotts	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 22:26	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 18:48	Roy R Mellott Jr	0.9
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 19:41	Roy R Mellott Jr	0.85

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101134

Collected:08/12/2003 09:30 by AD

Account Number: 07032

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Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-MSD Matrix Spike Dup Soil
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01MSD

07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/15/2003 18:48	Roy R Mellott Jr	0.9
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:44	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:45	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:46	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:47	Medina A Long	n.a.

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101135

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:37
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Duplicate Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0808	J	0.0031	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.02	mg/kg	1
06935	Arsenic	7440-38-2	6.44		0.549	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.516	mg/kg	1
06944	Antimony	7440-36-0	1.36	J	0.725	mg/kg	1
06946	Barium	7440-39-3	244.		0.0352	mg/kg	1
06947	Beryllium	7440-41-7	0.443	J	0.0648	mg/kg	1
06949	Cadmium	7440-43-9	0.568		0.0593	mg/kg	1
06951	Chromium	7440-47-3	17.9		0.220	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	5.14		0.154	mg/kg	1
06953	Copper	7440-50-8	14.7		0.209	mg/kg	1
06955	Lead	7439-92-1	219.		0.868	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	12.6		0.220	mg/kg	1
06966	Silver	7440-22-4	0.203	J	0.165	mg/kg	1
06969	Tin	7440-31-5	3.08	J	0.451	mg/kg	1
06971	Vanadium	7440-62-2	20.6		0.176	mg/kg	1
06972	Zinc	7440-66-6	170.		0.198	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00118	Moisture	n.a.	9.9		0.50	%	1
00121	Moisture Duplicate	n.a.	10.6		0.50	%	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

MEMBER ACIL

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101135

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:37
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5) Duplicate Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC10 SDG#: XXX01-01DUP

00159	Mercury	SW-846 7471A	1	08/15/2003 10:08	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 21:48	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 21:48	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 20:37	Donna R Sackett	1
00118	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
00121	Moisture Duplicate	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101136

Collected:08/12/2003 09:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:37
Discard: 10/03/2003
TOL-S-AOC01-02(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.123		0.0030	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.03	mg/kg	1
06935	Arsenic	7440-38-2	7.43		0.552	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.519	mg/kg	1
06944	Antimony	7440-36-0	5.82		0.728	mg/kg	1
06946	Barium	7440-39-3	709.		0.177	mg/kg	5
06947	Beryllium	7440-41-7	0.365	J	0.0651	mg/kg	1
06949	Cadmium	7440-43-9	1.51		0.0596	mg/kg	1
06951	Chromium	7440-47-3	39.9		0.221	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	7.97		0.155	mg/kg	1
06953	Copper	7440-50-8	21.0		0.210	mg/kg	1
06955	Lead	7439-92-1	890.		0.872	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	13.3		0.221	mg/kg	1
06966	Silver	7440-22-4	N.D.		0.166	mg/kg	1
06969	Tin	7440-31-5	5.02	J	0.453	mg/kg	1
06971	Vanadium	7440-62-2	22.5		0.177	mg/kg	1
06972	Zinc	7440-66-6	504.		0.199	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	9.4		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

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Wilmington DE 19805

AOC12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	37.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	37.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	74.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	74.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	37.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	37.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	74.	ug/kg	1
04622	Aniline	62-53-3	N.D.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	180.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	74.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	74.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	74.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	74.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	74.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	74.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	74.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	74.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	74.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	74.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	37.	ug/kg	1

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AOC12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.	740.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	37.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.	37.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.	74.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.	180.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.	37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.	74.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.	37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.	74.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.	74.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.	110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.	74.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.	920.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.	74.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.	2,800.	ug/kg	1
04669	Safrole	94-59-7	N.D.	74.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	74.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	74.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.	37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.	37.	ug/kg	1
04617	App. IX Semivolatiles con't					
01191	Acenaphthene	83-32-9	N.D.	37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.	180.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.	74.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.	37.	ug/kg	1
03768	Fluorene	86-73-7	N.D.	37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.	37.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.	74.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.	37.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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AOC12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		37.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		37.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		180.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		180.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		180.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		74.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		74.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		74.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		74.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		180.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		74.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	120.	J	74.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		180.	ug/kg	1
01195	Pyrene	129-00-0	94.	J	37.	ug/kg	1
03775	Phenanthrene	85-01-8	45.	J	37.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		74.	ug/kg	1
03778	Fluoranthene	206-44-0	94.	J	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		74.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	57.	J	37.	ug/kg	1
03782	Chrysene	218-01-9	89.	J	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		74.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	87.	J	74.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		74.	ug/kg	1

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AOC12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	100.	J	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	40.	J	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	74.	J	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	67.	J	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	86.	J	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		74.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		180.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		74.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		180.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		37.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		74.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		74.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		74.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		37.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		74.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.84
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.84
05445	Vinyl Chloride	75-01-4	N.D.		0.9	ug/kg	0.84
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.84
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.84
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.84
05449	1,1-Dichloroethene	75-35-4	N.D.		0.9	ug/kg	0.84
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.84
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		0.9	ug/kg	0.84
05452	1,1-Dichloroethane	75-34-3	N.D.		0.9	ug/kg	0.84
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		0.9	ug/kg	0.84
05455	Chloroform	67-66-3	N.D.		0.9	ug/kg	0.84
05457	1,1,1-Trichloroethane	71-55-6	N.D.		0.9	ug/kg	0.84
05458	Carbon Tetrachloride	56-23-5	N.D.		0.9	ug/kg	0.84
05460	Benzene	71-43-2	3.	J	0.9	ug/kg	0.84

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AOC12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		0.9	ug/kg	0.84
05462	Trichloroethene	79-01-6	N.D.		0.9	ug/kg	0.84
06293	Acetone	67-64-1	43.		6.	ug/kg	0.84
06294	Carbon Disulfide	75-15-0	4.	J	0.9	ug/kg	0.84
06296	2-Butanone	78-93-3	N.D.		4.	ug/kg	0.84
07586	Acrolein	107-02-8	N.D.		19.	ug/kg	0.84
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.84
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.84
07705	Acetonitrile	75-05-8	N.D.		23.	ug/kg	0.84
07706	Allyl Chloride	107-05-1	N.D.		0.9	ug/kg	0.84
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.84
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		0.9	ug/kg	0.84
07709	Propionitrile	107-12-0	N.D.		28.	ug/kg	0.84
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.84
07711	Isobutyl Alcohol	78-83-1	N.D.		93.	ug/kg	0.84
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		0.9	ug/kg	0.84
05464	Dibromomethane	74-95-3	N.D.		0.9	ug/kg	0.84
05465	Bromodichloromethane	75-27-4	N.D.		0.9	ug/kg	0.84
05466	Toluene	108-88-3	5.		0.9	ug/kg	0.84
05467	1,1,2-Trichloroethane	79-00-5	N.D.		0.9	ug/kg	0.84
05468	Tetrachloroethene	127-18-4	N.D.		0.9	ug/kg	0.84
05470	Dibromochloromethane	124-48-1	N.D.		0.9	ug/kg	0.84
05471	1,2-Dibromoethane	106-93-4	N.D.		0.9	ug/kg	0.84
05472	Chlorobenzene	108-90-7	N.D.		0.9	ug/kg	0.84
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.9	ug/kg	0.84
05474	Ethylbenzene	100-41-4	1.	J	0.9	ug/kg	0.84
05477	Styrene	100-42-5	N.D.		0.9	ug/kg	0.84
05478	Bromoform	75-25-2	N.D.		0.9	ug/kg	0.84
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.9	ug/kg	0.84
05482	1,2,3-Trichloropropane	96-18-4	N.D.		0.9	ug/kg	0.84
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.84
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.9	ug/kg	0.84
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.9	ug/kg	0.84
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.84

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AOC12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.84
06301	Xylene (Total)	1330-20-7	2.	J	0.9	ug/kg	0.84
07712	Methyl Methacrylate	80-62-6	N.D.		0.9	ug/kg	0.84
07714	Ethyl Methacrylate	97-63-2	N.D.		0.9	ug/kg	0.84
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.		9.	ug/kg	0.84
07716	Pentachloroethane	76-01-7	N.D.		0.9	ug/kg	0.84

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:12	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/20/2003 22:20	Donna R Sackett	5
06947	Beryllium	SW-846 6010B	1	08/20/2003 22:14	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 22:14	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 21:03	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/17/2003 23:15	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/17/2003 23:15	Ian D Spotts	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101136

Collected:08/12/2003 09:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:37
Discard: 10/03/2003
TOL-S-AOC01-02(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC12

04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 23:15	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 23:15	Ian D Spotts	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/17/2003 23:15	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 18:02	Susan McMahon-Luu	0.84
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 18:02	Susan McMahon-Luu	0.84
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 18:21	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 18:22	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 18:23	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 18:24	Medina A Long	n.a.

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101137

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AOC13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0975	J	0.0032	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.04	mg/kg	1
06935	Arsenic	7440-38-2	7.92		0.558	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.524	mg/kg	1
06944	Antimony	7440-36-0	2.42		0.737	mg/kg	1
06946	Barium	7440-39-3	411.		0.0357	mg/kg	1
06947	Beryllium	7440-41-7	0.410	J	0.0658	mg/kg	1
06949	Cadmium	7440-43-9	0.739		0.0603	mg/kg	1
06951	Chromium	7440-47-3	33.4		0.223	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	6.86		0.156	mg/kg	1
06953	Copper	7440-50-8	19.9		0.212	mg/kg	1
06955	Lead	7439-92-1	470.		0.882	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	15.0		0.223	mg/kg	1
06966	Silver	7440-22-4	0.189	J	0.167	mg/kg	1
06969	Tin	7440-31-5	3.50	J	0.458	mg/kg	1
06971	Vanadium	7440-62-2	24.9		0.179	mg/kg	1
06972	Zinc	7440-66-6	283.		0.201	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	13.0		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		38.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		38.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	38.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	38.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	38.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	38.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	77.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	38.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	77.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	38.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	38.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	38.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	38.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	38.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	38.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	77.	ug/kg	1
04622	Aniline	62-53-3	N.D.	38.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	77.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	38.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	77.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	77.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	77.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	77.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	77.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	77.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	77.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	77.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	38.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	38.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	77.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	38.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	38.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	38.	ug/kg	1

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AOC13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		770.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		38.	ug/kg	1
03761	Naphthalene	91-20-3	150.	J	38.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		77.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		38.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		77.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		38.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		77.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		77.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		77.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		960.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		77.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,900.	ug/kg	1
04669	Safrole	94-59-7	N.D.		77.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		77.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		77.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	220.	J	38.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		38.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		38.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	40.	J	38.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		77.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	44.	J	38.	ug/kg	1
03768	Fluorene	86-73-7	94.	J	38.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		38.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		77.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		38.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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AOC13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		38.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		38.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		38.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		38.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		77.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		77.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		77.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		77.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		77.	ug/kg	1
04698	Dibenzofuran	132-64-9	55.	J	38.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		77.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.	110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.	190.	ug/kg	1
01195	Pyrene	129-00-0	3,400.	38.	ug/kg	1
03775	Phenanthrene	85-01-8	1,600.	38.	ug/kg	1
03776	Anthracene	120-12-7	420.	38.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.	77.	ug/kg	1
03778	Fluoranthene	206-44-0	470.	38.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.	77.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,700.	38.	ug/kg	1
03782	Chrysene	218-01-9	2,400.	38.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.	77.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	77.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.	77.	ug/kg	1

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AOC13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	700.		38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	160.	J	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,300.		38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	210.	J	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	160.	J	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	560.		38.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		77.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		38.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		77.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		38.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		38.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		77.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		77.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		380.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		77.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		38.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		77.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.9
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.9
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.9
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.9
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.9
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.9
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.9
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.9
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.9
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.9
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.9
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.9
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.9
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.9
05460	Benzene	71-43-2	3.	J	1.	ug/kg	0.9

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AOC13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.9
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.9
06293	Acetone	67-64-1	61.		7.	ug/kg	0.9
06294	Carbon Disulfide	75-15-0	4.	J	1.	ug/kg	0.9
06296	2-Butanone	78-93-3	6.	J	4.	ug/kg	0.9
07586	Acrolein	107-02-8	N.D.		21.	ug/kg	0.9
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.9
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.9
07705	Acetonitrile	75-05-8	N.D.		26.	ug/kg	0.9
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.9
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.9
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.9
07709	Propionitrile	107-12-0	N.D.		31.	ug/kg	0.9
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.9
07711	Isobutyl Alcohol	78-83-1	N.D.		100.	ug/kg	0.9
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.9
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.9
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.9
05466	Toluene	108-88-3	6.		1.	ug/kg	0.9
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.9
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.9
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.9
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.9
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.9
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.9
05474	Ethylbenzene	100-41-4	2.	J	1.	ug/kg	0.9
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.9
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.9
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.9
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.9
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.9
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.9
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.9
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.9

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Lancaster Laboratories Sample No. SW 4101137

Collected:08/12/2003 09:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:38
Discard: 10/03/2003
TOL-S-AOC01-03(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.9
06301	Xylene (Total)	1330-20-7	4.	J	1.	ug/kg	0.9
07712	Methyl Methacrylate	80-62-6	N.D.		1.	ug/kg	0.9
07714	Ethyl Methacrylate	97-63-2	N.D.		1.	ug/kg	0.9
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.		10.	ug/kg	0.9
07716	Pentachloroethane	76-01-7	N.D.		1.	ug/kg	0.9

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:13	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 22:39	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 22:39	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 21:09	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 00:04	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 00:04	Ian D Spotts	1

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Lancaster Pike & Route 141
Wilmington DE 19805

AOC13

04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 00:04	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 00:04	Ian D Spotts	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 00:04	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 21:05	Susan McMahon-Luu	0.9
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 21:05	Susan McMahon-Luu	0.9
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 18:16	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 18:17	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 18:18	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 18:19	Medina A Long	n.a.

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TOL-S-AOC01-04(0-0.5) Soil Sample
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AOC14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.171	0.0030	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.04	mg/kg	1
06935	Arsenic	7440-38-2	8.79	0.559	mg/kg	1
06936	Selenium	7782-49-2	N.D.	0.526	mg/kg	1
06944	Antimony	7440-36-0	9.34	0.738	mg/kg	1
06946	Barium	7440-39-3	1,520.	0.179	mg/kg	5
06947	Beryllium	7440-41-7	0.422 J	0.0660	mg/kg	1
06949	Cadmium	7440-43-9	2.29	0.0604	mg/kg	1
06951	Chromium	7440-47-3	74.3	0.224	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.					
06952	Cobalt	7440-48-4	8.67	0.157	mg/kg	1
06953	Copper	7440-50-8	32.5	0.213	mg/kg	1
06955	Lead	7439-92-1	2,220.	0.884	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.					
06961	Nickel	7440-02-0	16.0	0.224	mg/kg	1
06966	Silver	7440-22-4	N.D.	0.168	mg/kg	1
06969	Tin	7440-31-5	21.8	0.459	mg/kg	1
06971	Vanadium	7440-62-2	24.7	0.179	mg/kg	1
06972	Zinc	7440-66-6	1,050.	1.01	mg/kg	5
00111	Moisture	n.a.	10.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
02198	Misc. Soil Appendix IX					
02519	Aramite	140-57-8	N.D.	37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.	37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.					
04615	Appendix IX Semivolatiles Soil					
01185	Phenol	108-95-2	N.D.	37.	ug/kg	1

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AOC14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01186	2-Chlorophenol	95-57-8	N.D.	37.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	75.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	75.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	37.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	37.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	75.	ug/kg	1
04622	Aniline	62-53-3	N.D.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	75.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	75.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	75.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	75.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	75.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	75.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	75.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	75.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	75.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	75.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	37.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.	750.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	37.	ug/kg	1

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DIBBLE PARK INVESTIGATION

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Lancaster Pike & Route 141
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AOC14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03761	Naphthalene	91-20-3	38.	J	37.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		75.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		75.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		75.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		75.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		75.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		930.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		75.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,800.	ug/kg	1
04669	Safrole	94-59-7	N.D.		75.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		75.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		75.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	45.	J	37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		75.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		37.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		75.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		37.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		37.	ug/kg	1

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AOC14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04629	Diallate TRANS/CIS	2303-16-4	N.D.		37.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		75.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		75.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		75.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		75.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		75.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		75.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	220.	J	37.	ug/kg	1
03775	Phenanthrene	85-01-8	160.	J	37.	ug/kg	1
03776	Anthracene	120-12-7	42.	J	37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	77.	J	75.	ug/kg	1
03778	Fluoranthene	206-44-0	230.	J	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		75.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	130.	J	37.	ug/kg	1
03782	Chrysene	218-01-9	160.	J	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		75.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		75.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		75.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	180.	J	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	66.	J	37.	ug/kg	1

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AOC14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03788	Benzo(a)pyrene	50-32-8	140.	J	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	91.	J	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	91.	J	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		75.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		75.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		37.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		75.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		75.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		75.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		37.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		75.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.87
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.87
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.87
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.87
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.87
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.87
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.87
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.87
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.87
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.87
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.87
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.87
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.87
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.87
05460	Benzene	71-43-2	5.		1.	ug/kg	0.87
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.87
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.87

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101138

Collected:08/12/2003 10:05 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:39
Discard: 10/03/2003
TOL-S-AOC01-04(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06293	Acetone	67-64-1	72.		7.	ug/kg	0.87
06294	Carbon Disulfide	75-15-0	11.		1.	ug/kg	0.87
06296	2-Butanone	78-93-3	7.	J	4.	ug/kg	0.87
07586	Acrolein	107-02-8	N.D.		19.	ug/kg	0.87
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.87
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.87
07705	Acetonitrile	75-05-8	N.D.		24.	ug/kg	0.87
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.87
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.87
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.87
07709	Propionitrile	107-12-0	N.D.		29.	ug/kg	0.87
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.87
07711	Isobutyl Alcohol	78-83-1	N.D.		97.	ug/kg	0.87
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.87
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.87
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.87
05466	Toluene	108-88-3	7.		1.	ug/kg	0.87
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.87
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.87
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.87
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.87
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.87
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.87
05474	Ethylbenzene	100-41-4	2.	J	1.	ug/kg	0.87
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.87
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.87
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.87
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.87
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.87
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.87
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.87
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.87
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.87
06301	Xylene (Total)	1330-20-7	5.	J	1.	ug/kg	0.87

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
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Wilmington DE 19805

AOC14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.87
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.87
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	10.	ug/kg	0.87
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.87

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:18	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/20/2003 22:52	Donna R Sackett	5
06947	Beryllium	SW-846 6010B	1	08/20/2003 22:46	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:28	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 22:46	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/20/2003 22:52	Donna R Sackett	5
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 00:53	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 00:53	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 00:53	Ian D Spotts	1

Lancaster Laboratories

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AOC14

04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 00:53	Ian D Spotts	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 00:53	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 18:29	Susan McMahon-Luu	0.87
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 18:29	Susan McMahon-Luu	0.87
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 18:11	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 18:12	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 18:13	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 18:14	Medina A Long	n.a.

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AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.210		0.0032	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.03	mg/kg	1
06935	Arsenic	7440-38-2	8.39		0.556	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.523	mg/kg	1
06944	Antimony	7440-36-0	15.8		0.734	mg/kg	1
06946	Barium	7440-39-3	1,200.		0.178	mg/kg	5
06947	Beryllium	7440-41-7	0.422	J	0.0656	mg/kg	1
06949	Cadmium	7440-43-9	1.35		0.0601	mg/kg	1
06951	Chromium	7440-47-3	55.4		0.222	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	7.80		0.156	mg/kg	1
06953	Copper	7440-50-8	24.4		0.211	mg/kg	1
06955	Lead	7439-92-1	1,910.		0.879	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	14.7		0.222	mg/kg	1
06966	Silver	7440-22-4	0.216	J	0.167	mg/kg	1
06969	Tin	7440-31-5	6.22	J	0.456	mg/kg	1
06971	Vanadium	7440-62-2	24.7		0.178	mg/kg	1
06972	Zinc	7440-66-6	666.		1.00	mg/kg	5
00111	Moisture	n.a.	11.0		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						
01185	Phenol	108-95-2	N.D.		37.	ug/kg	1

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AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01186	2-Chlorophenol	95-57-8	N.D.	37.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	75.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	75.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	37.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	37.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	75.	ug/kg	1
04622	Aniline	62-53-3	N.D.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	75.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	75.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	75.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	75.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	75.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	75.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	75.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	75.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	75.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	75.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	37.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.	750.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	37.	ug/kg	1

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AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03761	Naphthalene	91-20-3	N.D.		37.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		75.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		75.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		75.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		75.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		75.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		940.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		75.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,800.	ug/kg	1
04669	Safrole	94-59-7	N.D.		75.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		75.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		75.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	49.	J	37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		75.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		37.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		75.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		37.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		37.	ug/kg	1

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AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04629	Diallate TRANS/CIS	2303-16-4	N.D.		37.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		75.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		75.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		75.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		75.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		75.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		75.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	270.	J	37.	ug/kg	1
03775	Phenanthrene	85-01-8	92.	J	37.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		75.	ug/kg	1
03778	Fluoranthene	206-44-0	270.	J	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		75.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	180.	J	37.	ug/kg	1
03782	Chrysene	218-01-9	240.	J	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		75.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		75.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		75.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	280.	J	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	100.	J	37.	ug/kg	1

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Lancaster Laboratories Sample No. SW 4101139

Collected:08/12/2003 10:15 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:40
Discard: 10/03/2003
TOL-S-AOC01-05(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03788	Benzo(a)pyrene	50-32-8	200.	J	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	110.	J	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	38.	J	37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	110.	J	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		75.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		75.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		37.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		75.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		75.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		75.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		37.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		75.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.93
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.93
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.93
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.93
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.93
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.93
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.93
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.93
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.93
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.93
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.93
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.93
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.93
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.93
05460	Benzene	71-43-2	6.		1.	ug/kg	0.93
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.93
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.93

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06293	Acetone	67-64-1	67.		7.	ug/kg	0.93
06294	Carbon Disulfide	75-15-0	9.		1.	ug/kg	0.93
06296	2-Butanone	78-93-3	8.	J	4.	ug/kg	0.93
07586	Acrolein	107-02-8	N.D.		21.	ug/kg	0.93
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.93
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.93
07705	Acetonitrile	75-05-8	N.D.		26.	ug/kg	0.93
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.93
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.93
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.93
07709	Propionitrile	107-12-0	N.D.		31.	ug/kg	0.93
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.93
07711	Isobutyl Alcohol	78-83-1	N.D.		100.	ug/kg	0.93
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.93
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.93
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.93
05466	Toluene	108-88-3	8.		1.	ug/kg	0.93
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.93
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.93
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.93
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.93
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.93
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.93
05474	Ethylbenzene	100-41-4	2.	J	1.	ug/kg	0.93
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.93
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.93
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.93
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.93
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.93
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.93
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.93
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.93
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.93
06301	Xylene (Total)	1330-20-7	4.	J	1.	ug/kg	0.93

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DIBBLE PARK INVESTIGATION

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Lancaster Pike & Route 141
Wilmington DE 19805

AOC-5

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.93
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.93
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	10.	ug/kg	0.93
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.93

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Surrogate recoveries were outside of QC limits for the GC/MS volatile fraction. The analysis was repeated and an internal standard peak area was outside the QC limits, indicating a matrix effect.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:19	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/20/2003 23:05	Donna R Sackett	5
06947	Beryllium	SW-846 6010B	1	08/20/2003 22:59	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:35	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 22:59	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/20/2003 23:05	Donna R Sackett	5
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 01:43	Ian D Spotts	1

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

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Lancaster Pike & Route 141
Wilmington DE 19805

AOC-5

04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 01:43	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 01:43	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 01:43	Ian D Spotts	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 01:43	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 18:55	Susan McMahon-Luu	0.93
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 18:55	Susan McMahon-Luu	0.93
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 18:06	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 18:07	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 18:03	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 18:09	Medina A Long	n.a.

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101140

Collected:08/12/2003 10:20 by AD

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Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-S-AOC01-06(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.120		0.0031	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.01	mg/kg	1
06935	Arsenic	7440-38-2	7.14		0.544	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.512	mg/kg	1
06944	Antimony	7440-36-0	0.973	J	0.718	mg/kg	1
06946	Barium	7440-39-3	171.		0.0348	mg/kg	1
06947	Beryllium	7440-41-7	0.404	J	0.0642	mg/kg	1
06949	Cadmium	7440-43-9	0.481	J	0.0588	mg/kg	1
06951	Chromium	7440-47-3	16.4		0.218	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	5.81		0.152	mg/kg	1
06953	Copper	7440-50-8	16.2		0.207	mg/kg	1
06955	Lead	7439-92-1	131.		0.860	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	13.9		0.218	mg/kg	1
06966	Silver	7440-22-4	0.172	J	0.163	mg/kg	1
06969	Tin	7440-31-5	2.61	J	0.446	mg/kg	1
06971	Vanadium	7440-62-2	22.2		0.174	mg/kg	1
06972	Zinc	7440-66-6	110.		0.196	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	10.8		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101140

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TOL-S-AOC01-06(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

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AOC16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	37.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	37.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	75.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	75.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	37.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	37.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	75.	ug/kg	1
04622	Aniline	62-53-3	N.D.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	75.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	75.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	75.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	75.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	75.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	75.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	75.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	75.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	75.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	75.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	37.	ug/kg	1

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Wilmington DE 19805

AOC16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		750.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		37.	ug/kg	1
03761	Naphthalene	91-20-3	75.	J	37.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		75.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		75.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		75.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		75.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		75.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		930.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		75.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,800.	ug/kg	1
04669	Safrole	94-59-7	N.D.		75.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		75.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		75.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	100.	J	37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		75.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		37.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		75.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		37.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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Lancaster Laboratories Sample No. SW 4101140

Collected:08/12/2003 10:20 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:41
Discard: 10/03/2003
TOL-S-AOC01-06(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		37.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		37.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		75.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		75.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		75.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		75.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		75.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		75.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	450.		37.	ug/kg	1
03775	Phenanthrene	85-01-8	310.	J	37.	ug/kg	1
03776	Anthracene	120-12-7	90.	J	37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		75.	ug/kg	1
03778	Fluoranthene	206-44-0	510.		37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		75.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	250.	J	37.	ug/kg	1
03782	Chrysene	218-01-9	300.	J	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		75.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		75.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		75.	ug/kg	1

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	320.	J	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	130.	J	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	250.	J	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	150.	J	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	47.	J	37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	140.	J	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		75.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		75.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		37.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		75.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		75.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		75.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		37.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		75.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.93
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.93
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.93
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.93
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.93
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.93
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.93
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.93
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.93
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.93
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.93
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.93
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.93
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.93
05460	Benzene	71-43-2	3.	J	1.	ug/kg	0.93

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.93
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.93
06293	Acetone	67-64-1	39.		7.	ug/kg	0.93
06294	Carbon Disulfide	75-15-0	3.	J	1.	ug/kg	0.93
06296	2-Butanone	78-93-3	N.D.		4.	ug/kg	0.93
07586	Acrolein	107-02-8	N.D.		21.	ug/kg	0.93
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.93
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.93
07705	Acetonitrile	75-05-8	N.D.		26.	ug/kg	0.93
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.93
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.93
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.93
07709	Propionitrile	107-12-0	N.D.		31.	ug/kg	0.93
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.93
07711	Isobutyl Alcohol	78-83-1	N.D.		100.	ug/kg	0.93
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.93
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.93
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.93
05466	Toluene	108-88-3	8.		1.	ug/kg	0.93
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.93
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.93
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.93
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.93
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.93
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.93
05474	Ethylbenzene	100-41-4	2.	J	1.	ug/kg	0.93
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.93
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.93
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.93
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.93
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.93
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.93
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.93
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.93

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
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Wilmington DE 19805

AOC16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.93
06301	Xylene (Total)	1330-20-7	5.	J	1.	ug/kg	0.93
07712	Methyl Methacrylate	80-62-6	N.D.		1.	ug/kg	0.93
07714	Ethyl Methacrylate	97-63-2	N.D.		1.	ug/kg	0.93
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.		10.	ug/kg	0.93
07716	Pentachloroethane	76-01-7	N.D.		1.	ug/kg	0.93

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:21	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 23:12	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 23:12	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 21:41	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 02:32	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 02:32	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 02:32	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 02:32	Ian D Spotts	1

Lancaster Laboratories

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AOC16

04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 02:32	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 21:25	Roy R Mellott Jr	0.93
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/15/2003 21:25	Roy R Mellott Jr	0.93
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 18:01	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 18:02	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 18:03	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 18:04	Medina A Long	n.a.

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101141

Collected:08/12/2003 10:30 by AD

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Discard: 10/03/2003
TOL-S-AOC01-07(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

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Lancaster Pike & Route 141
Wilmington DE 19805

AOC17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0526	J	0.0030	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.01	mg/kg	1
06935	Arsenic	7440-38-2	7.41		0.542	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.510	mg/kg	1
06944	Antimony	7440-36-0	1.56	J	0.716	mg/kg	1
06946	Barium	7440-39-3	220.		0.0347	mg/kg	1
06947	Beryllium	7440-41-7	0.400	J	0.0640	mg/kg	1
06949	Cadmium	7440-43-9	0.478	J	0.0586	mg/kg	1
06951	Chromium	7440-47-3	22.8		0.217	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	6.52		0.152	mg/kg	1
06953	Copper	7440-50-8	16.0		0.206	mg/kg	1
06955	Lead	7439-92-1	249.		0.857	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	15.9		0.217	mg/kg	1
06966	Silver	7440-22-4	0.191	J	0.163	mg/kg	1
06969	Tin	7440-31-5	3.26	J	0.445	mg/kg	1
06971	Vanadium	7440-62-2	23.8		0.174	mg/kg	1
06972	Zinc	7440-66-6	154.		0.195	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	10.5		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		37.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		37.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

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AOC17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	37.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	37.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	37.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	37.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	74.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	37.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	74.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	37.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	37.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	37.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	37.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	37.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	37.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	37.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	74.	ug/kg	1
04622	Aniline	62-53-3	N.D.	37.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	74.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	37.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	74.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	74.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	74.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	74.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	74.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	74.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	74.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	74.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	37.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	37.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	74.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	37.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	37.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	37.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101141

Collected:08/12/2003 10:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:41
Discard: 10/03/2003
TOL-S-AOC01-07(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		740.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		37.	ug/kg	1
03761	Naphthalene	91-20-3	49.	J	37.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		74.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		37.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		74.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		37.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		74.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		74.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		74.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		930.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		74.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,800.	ug/kg	1
04669	Safrole	94-59-7	N.D.		74.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		74.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		74.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		37.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	67.	J	37.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		37.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		37.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		37.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		74.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		37.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		37.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		37.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		74.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		37.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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03773	4-Bromophenyl-phenylether	101-55-3	N.D.		37.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		37.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		37.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		37.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		74.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		74.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		74.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		74.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		74.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		37.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		74.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	140.	J	37.	ug/kg	1
03775	Phenanthrene	85-01-8	85.	J	37.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		37.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		74.	ug/kg	1
03778	Fluoranthene	206-44-0	160.	J	37.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		74.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	81.	J	37.	ug/kg	1
03782	Chrysene	218-01-9	140.	J	37.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		74.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		74.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		74.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	160.	J	37.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	59.	J	37.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	100.	J	37.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	76.	J	37.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		37.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	80.	J	37.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		74.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		37.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		74.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		37.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		37.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		74.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		74.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		370.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		74.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		37.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		74.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.97
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.97
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.97
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.97
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.97
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.97
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.97
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.97
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.97
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.97
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.97
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.97
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.97
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.97
05460	Benzene	71-43-2	3.	J	1.	ug/kg	0.97

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AOC17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.97
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.97
06293	Acetone	67-64-1	23.		8.	ug/kg	0.97
06294	Carbon Disulfide	75-15-0	4.	J	1.	ug/kg	0.97
06296	2-Butanone	78-93-3	N.D.		4.	ug/kg	0.97
07586	Acrolein	107-02-8	N.D.		22.	ug/kg	0.97
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.97
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.97
07705	Acetonitrile	75-05-8	N.D.		27.	ug/kg	0.97
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.97
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.97
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.97
07709	Propionitrile	107-12-0	N.D.		33.	ug/kg	0.97
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.97
07711	Isobutyl Alcohol	78-83-1	N.D.		110.	ug/kg	0.97
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.97
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.97
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.97
05466	Toluene	108-88-3	6.		1.	ug/kg	0.97
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.97
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.97
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.97
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.97
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.97
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.97
05474	Ethylbenzene	100-41-4	1.	J	1.	ug/kg	0.97
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.97
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.97
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.97
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.97
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.97
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.97
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.97
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.97

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.97
06301	Xylene (Total)	1330-20-7	2.	J	1.	ug/kg	0.97
07712	Methyl Methacrylate	80-62-6	N.D.		1.	ug/kg	0.97
07714	Ethyl Methacrylate	97-63-2	N.D.		1.	ug/kg	0.97
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.		11.	ug/kg	0.97
07716	Pentachloroethane	76-01-7	N.D.		1.	ug/kg	0.97

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:22	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 23:18	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 23:18	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 21:48	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 03:21	Ian D Spotts	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 03:21	Ian D Spotts	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 03:21	Ian D Spotts	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 03:21	Ian D Spotts	1

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04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 03:21	Ian D Spotts	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/15/2003 21:51	Roy R Mellott Jr	0.97
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/15/2003 21:51	Roy R Mellott Jr	0.97
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:52	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:53	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:54	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:55	Medina A Long	n.a.

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Submitted: 08/13/2003 09:15
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TOL-S-AOC01-08(0-0.5) Soil Sample
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AOC18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0457	J	0.0032	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.08	mg/kg	1
06935	Arsenic	7440-38-2	8.44		0.580	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.545	mg/kg	1
06944	Antimony	7440-36-0	1.61	J	0.766	mg/kg	1
06946	Barium	7440-39-3	393.		0.0371	mg/kg	1
06947	Beryllium	7440-41-7	0.427	J	0.0684	mg/kg	1
06949	Cadmium	7440-43-9	0.671		0.0626	mg/kg	1
06951	Chromium	7440-47-3	24.9		0.232	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	7.79		0.162	mg/kg	1
06953	Copper	7440-50-8	18.7		0.220	mg/kg	1
06955	Lead	7439-92-1	322.		0.916	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	18.2		0.232	mg/kg	1
06966	Silver	7440-22-4	N.D.		0.174	mg/kg	1
06969	Tin	7440-31-5	2.51	J	0.476	mg/kg	1
06971	Vanadium	7440-62-2	27.0		0.186	mg/kg	1
06972	Zinc	7440-66-6	223.		0.209	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	13.8		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		39.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		39.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

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Collected:08/12/2003 10:40 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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TOL-S-AOC01-08(0-0.5) Soil Sample
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AOC18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	39.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	39.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	39.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	39.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	77.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	39.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	77.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	39.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	39.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	39.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	39.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	39.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	39.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	39.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	77.	ug/kg	1
04622	Aniline	62-53-3	N.D.	39.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	77.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	39.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	77.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	77.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	77.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	77.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	77.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	77.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	77.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	77.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	39.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	39.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	77.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	39.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	39.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	39.	ug/kg	1

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Lancaster Laboratories Sample No. SW 4101142

Collected:08/12/2003 10:40 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:42
Discard: 10/03/2003
TOL-S-AOC01-08(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.	770.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	39.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.	39.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.	77.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.	190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.	39.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.	77.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.	39.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.	77.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.	77.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.	120.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.	77.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.	970.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.	77.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.	2,900.	ug/kg	1
04669	Safrole	94-59-7	N.D.	77.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	77.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	77.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	39.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	39.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.	39.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.	39.	ug/kg	1
04617	App. IX Semivolatiles con't					
01191	Acenaphthene	83-32-9	N.D.	39.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.	190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.	77.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.	39.	ug/kg	1
03768	Fluorene	86-73-7	N.D.	39.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.	39.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.	77.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.	39.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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Wilmington DE 19805

AOC18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		39.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		39.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		39.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		39.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		77.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		77.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		77.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		77.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		77.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		39.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		77.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		120.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	160.	J	39.	ug/kg	1
03775	Phenanthrene	85-01-8	94.	J	39.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		39.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	360.	J	77.	ug/kg	1
03778	Fluoranthene	206-44-0	200.	J	39.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		77.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	92.	J	39.	ug/kg	1
03782	Chrysene	218-01-9	140.	J	39.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		77.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		77.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		77.	ug/kg	1

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AOC18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	160.	J	39.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	63.	J	39.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	110.	J	39.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	95.	J	39.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		39.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	110.	J	39.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		77.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		39.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		77.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		39.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		39.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		77.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		77.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		390.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		77.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		39.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		77.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.89
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.89
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.89
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.89
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.89
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.89
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.89
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.89
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.89
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.89
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.89
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.89
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.89
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.89
05460	Benzene	71-43-2	1.	J	1.	ug/kg	0.89

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.89
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.89
06293	Acetone	67-64-1	18.	J	7.	ug/kg	0.89
06294	Carbon Disulfide	75-15-0	2.	J	1.	ug/kg	0.89
06296	2-Butanone	78-93-3	N.D.		4.	ug/kg	0.89
07586	Acrolein	107-02-8	N.D.		21.	ug/kg	0.89
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.89
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.89
07705	Acetonitrile	75-05-8	N.D.		26.	ug/kg	0.89
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.89
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.89
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.89
07709	Propionitrile	107-12-0	N.D.		31.	ug/kg	0.89
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.89
07711	Isobutyl Alcohol	78-83-1	N.D.		100.	ug/kg	0.89
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.89
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.89
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.89
05466	Toluene	108-88-3	1.	J	1.	ug/kg	0.89
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.89
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.89
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.89
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.89
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.89
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.89
05474	Ethylbenzene	100-41-4	N.D.		1.	ug/kg	0.89
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.89
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.89
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.89
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.89
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.89
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.89
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.89
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.89

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AOC18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.	3.	ug/kg	0.89
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	0.89
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.89
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.89
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	10.	ug/kg	0.89
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.89

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:24	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 23:24	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 23:24	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 21:54	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 12:35	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 12:35	Joseph M Gambler	1

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AOC18

04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 12:35	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 12:35	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 12:35	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 19:21	Susan McMahon-Luu	0.89
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 19:21	Susan McMahon-Luu	0.89
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:57	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:58	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:59	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:59	Medina A Long	n.a.

Analysis Report

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Lancaster Laboratories Sample No. SW 4101143

Collected:08/12/2003 10:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:43
Discard: 10/03/2003
TOL-S-AOC01-09(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.161	0.0032	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.07	mg/kg	1
06935	Arsenic	7440-38-2	7.34	0.573	mg/kg	1
06936	Selenium	7782-49-2	N.D.	0.539	mg/kg	1
06944	Antimony	7440-36-0	3.51	0.757	mg/kg	1
06946	Barium	7440-39-3	1,320.	0.183	mg/kg	5
06947	Beryllium	7440-41-7	0.894	0.0677	mg/kg	1
06949	Cadmium	7440-43-9	1.51	0.0619	mg/kg	1
06951	Chromium	7440-47-3	69.7	0.229	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.					
06952	Cobalt	7440-48-4	9.52	0.161	mg/kg	1
06953	Copper	7440-50-8	23.1	0.218	mg/kg	1
06955	Lead	7439-92-1	1,290.	0.906	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.					
06961	Nickel	7440-02-0	15.9	0.229	mg/kg	1
06966	Silver	7440-22-4	0.190 J	0.172	mg/kg	1
06969	Tin	7440-31-5	28.7	0.470	mg/kg	1
06971	Vanadium	7440-62-2	30.7	0.183	mg/kg	1
06972	Zinc	7440-66-6	672.	1.03	mg/kg	5
00111	Moisture	n.a.	12.8	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
02198	Misc. Soil Appendix IX					
02519	Aramite	140-57-8	N.D.	38.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.	38.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.					
04615	Appendix IX Semivolatiles Soil					
01185	Phenol	108-95-2	N.D.	38.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01186	2-Chlorophenol	95-57-8	N.D.	38.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	38.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	38.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	76.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	38.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	76.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	38.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	38.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	38.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	38.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	38.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	38.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	76.	ug/kg	1
04622	Aniline	62-53-3	N.D.	38.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	76.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	38.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	76.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	76.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	76.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	76.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	76.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	76.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	76.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	76.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	38.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	38.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	76.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	38.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	38.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	38.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.	760.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	38.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03761	Naphthalene	91-20-3	N.D.		38.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		76.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		38.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		76.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		38.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		76.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		76.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		76.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		960.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		76.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,900.	ug/kg	1
04669	Safrole	94-59-7	N.D.		76.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		76.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		76.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	42.	J	38.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		38.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		38.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		38.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		76.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	45.	J	38.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		38.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		38.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		76.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		38.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		38.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		38.	ug/kg	1

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Lancaster, PA 17605-2425
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04629	Diallate TRANS/CIS	2303-16-4	N.D.		38.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		38.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		76.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		76.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		76.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		76.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		76.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		38.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		76.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	390.		38.	ug/kg	1
03775	Phenanthrene	85-01-8	210.	J	38.	ug/kg	1
03776	Anthracene	120-12-7	58.	J	38.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	210.	J	76.	ug/kg	1
03778	Fluoranthene	206-44-0	430.		38.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		76.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	240.	J	38.	ug/kg	1
03782	Chrysene	218-01-9	260.	J	38.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		76.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	97.	J	76.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		76.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	260.	J	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	140.	J	38.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03788	Benzo(a)pyrene	50-32-8	230.	J	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	160.	J	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	55.	J	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	200.	J	38.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		76.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		38.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		76.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		38.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		38.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		76.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		76.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		380.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		76.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		38.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		76.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.9
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.9
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.9
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.9
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.9
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.9
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.9
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.9
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.9
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.9
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.9
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.9
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.9
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.9
05460	Benzene	71-43-2	6.		1.	ug/kg	0.9
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.9
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.9

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06293	Acetone	67-64-1	61.		7.	ug/kg	0.9
06294	Carbon Disulfide	75-15-0	6.		1.	ug/kg	0.9
06296	2-Butanone	78-93-3	5.	J	4.	ug/kg	0.9
07586	Acrolein	107-02-8	N.D.		21.	ug/kg	0.9
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.9
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.9
07705	Acetonitrile	75-05-8	N.D.		26.	ug/kg	0.9
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.9
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.9
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.9
07709	Propionitrile	107-12-0	N.D.		31.	ug/kg	0.9
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.9
07711	Isobutyl Alcohol	78-83-1	N.D.		100.	ug/kg	0.9
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.9
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.9
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.9
05466	Toluene	108-88-3	8.		1.	ug/kg	0.9
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.9
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.9
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.9
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.9
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.9
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.9
05474	Ethylbenzene	100-41-4	2.	J	1.	ug/kg	0.9
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.9
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.9
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.9
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.9
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.9
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.9
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.9
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.9
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.9
06301	Xylene (Total)	1330-20-7	5.	J	1.	ug/kg	0.9

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.9
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.9
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	10.	ug/kg	0.9
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.9

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:26	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/20/2003 23:37	Donna R Sackett	5
06947	Beryllium	SW-846 6010B	1	08/20/2003 23:31	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 22:01	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 23:31	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/20/2003 23:37	Donna R Sackett	5
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 13:23	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 13:23	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 13:23	Joseph M Gambler	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101143

Collected:08/12/2003 10:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:43
Discard: 10/03/2003
TOL-S-AOC01-09(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOC19

04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 13:23	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 13:23	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 19:47	Susan McMahon-Luu	0.9
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 19:47	Susan McMahon-Luu	0.9
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:40	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:41	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:42	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:43	Medina A Long	n.a.

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101144

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Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-S-AOC01-10(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AO-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0712 J	0.0032	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.06	mg/kg	1
06935	Arsenic	7440-38-2	10.4	0.570	mg/kg	1
06936	Selenium	7782-49-2	N.D.	0.535	mg/kg	1
06944	Antimony	7440-36-0	2.38	0.752	mg/kg	1
06946	Barium	7440-39-3	144.	0.0365	mg/kg	1
06947	Beryllium	7440-41-7	0.442 J	0.0672	mg/kg	1
06949	Cadmium	7440-43-9	0.626	0.0615	mg/kg	1
06951	Chromium	7440-47-3	22.2	0.228	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.					
06952	Cobalt	7440-48-4	5.66	0.160	mg/kg	1
06953	Copper	7440-50-8	15.0	0.216	mg/kg	1
06955	Lead	7439-92-1	159.	0.900	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.					
06961	Nickel	7440-02-0	13.1	0.228	mg/kg	1
06966	Silver	7440-22-4	0.239 J	0.171	mg/kg	1
06969	Tin	7440-31-5	2.76 J	0.467	mg/kg	1
06971	Vanadium	7440-62-2	24.3	0.182	mg/kg	1
06972	Zinc	7440-66-6	113.	0.205	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.					
00111	Moisture	n.a.	13.1	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

02198 Misc. Soil Appendix IX

02519	Aramite	140-57-8	N.D.	38.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.	38.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.					

04615 Appendix IX Semivolatiles Soil

Lancaster Laboratories

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TOL-S-AOC01-10(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AO-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	38.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	38.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	38.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	38.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	77.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	38.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	77.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	38.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	38.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	38.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	38.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	38.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	38.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	77.	ug/kg	1
04622	Aniline	62-53-3	N.D.	38.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	77.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	38.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	77.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	77.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	77.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	77.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	77.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	77.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	77.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	77.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	38.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	38.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	77.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	38.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	38.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	38.	ug/kg	1

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Wilmington DE 19805

AO-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		770.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		38.	ug/kg	1
03761	Naphthalene	91-20-3	67.	J	38.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		77.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		38.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		77.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		38.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		77.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		77.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		120.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		77.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		960.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		77.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,900.	ug/kg	1
04669	Safrole	94-59-7	N.D.		77.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		77.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		77.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	91.	J	38.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		38.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		38.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		38.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		77.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		38.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		38.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		38.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		77.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		38.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

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AO-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		38.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		38.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		38.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		38.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		77.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		77.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		77.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		77.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		77.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		38.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		77.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		120.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	160.	J	38.	ug/kg	1
03775	Phenanthrene	85-01-8	110.	J	38.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		38.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		77.	ug/kg	1
03778	Fluoranthene	206-44-0	170.	J	38.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		77.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	100.	J	38.	ug/kg	1
03782	Chrysene	218-01-9	130.	J	38.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		77.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		77.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		77.	ug/kg	1

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AO-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	160.	J	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	51.	J	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	110.	J	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	92.	J	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	100.	J	38.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		77.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		38.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		77.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		38.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		38.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		77.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		77.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		380.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		77.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		38.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		77.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.93
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.93
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.93
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.93
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.93
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.93
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.93
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.93
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.93
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.93
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.93
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.93
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.93
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.93
05460	Benzene	71-43-2	3.	J	1.	ug/kg	0.93

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AO-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.93
05462	Trichloroethene	79-01-6	11.		1.	ug/kg	0.93
06293	Acetone	67-64-1	75.		7.	ug/kg	0.93
06294	Carbon Disulfide	75-15-0	4.	J	1.	ug/kg	0.93
06296	2-Butanone	78-93-3	9.	J	4.	ug/kg	0.93
07586	Acrolein	107-02-8	N.D.		21.	ug/kg	0.93
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.93
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.93
07705	Acetonitrile	75-05-8	N.D.		27.	ug/kg	0.93
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.93
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.93
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.93
07709	Propionitrile	107-12-0	N.D.		32.	ug/kg	0.93
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.93
07711	Isobutyl Alcohol	78-83-1	N.D.		110.	ug/kg	0.93
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.93
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.93
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.93
05466	Toluene	108-88-3	8.		1.	ug/kg	0.93
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.93
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.93
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.93
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.93
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.93
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.93
05474	Ethylbenzene	100-41-4	2.	J	1.	ug/kg	0.93
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.93
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.93
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.93
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.93
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.93
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.93
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.93
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.93

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101144

Collected:08/12/2003 11:00 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:44
Discard: 10/03/2003
TOL-S-AOC01-10(0-0.5) Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AO-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.	3.	ug/kg	0.93
06301	Xylene (Total)	1330-20-7	6.	1.	ug/kg	0.93
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.93
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.93
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	11.	ug/kg	0.93
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.93

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:27	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/20/2003 23:57	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/20/2003 23:57	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 22:07	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 14:12	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 14:12	Joseph M Gambler	1

Lancaster Laboratories

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
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Wilmington DE 19805

AO-10

04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 14:12	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 14:12	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 14:12	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 20:13	Susan McMahon-Luu	0.93
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 20:13	Susan McMahon-Luu	0.93
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:35	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:36	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:37	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:38	Medina A Long	n.a.

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Lancaster Laboratories Sample No. SW 4101145

Collected:08/12/2003 09:30 by AD

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TOL-S-AOC01-01(0-0.5)-DUP Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
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Wilmington DE 19805

AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0740	J	0.0031	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.05	mg/kg	1
06935	Arsenic	7440-38-2	6.25		0.565	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.531	mg/kg	1
06944	Antimony	7440-36-0	1.05	J	0.746	mg/kg	1
06946	Barium	7440-39-3	200.		0.0362	mg/kg	1
06947	Beryllium	7440-41-7	0.324	J	0.0667	mg/kg	1
06949	Cadmium	7440-43-9	0.535	J	0.0610	mg/kg	1
06951	Chromium	7440-47-3	15.7		0.226	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	4.95		0.158	mg/kg	1
06953	Copper	7440-50-8	13.4		0.215	mg/kg	1
06955	Lead	7439-92-1	194.		0.893	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	11.9		0.226	mg/kg	1
06966	Silver	7440-22-4	0.175	J	0.170	mg/kg	1
06969	Tin	7440-31-5	2.71	J	0.463	mg/kg	1
06971	Vanadium	7440-62-2	18.7		0.181	mg/kg	1
06972	Zinc	7440-66-6	137.		0.203	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	12.4		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		38.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		38.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	38.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	38.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	38.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	38.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	76.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	38.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	76.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	38.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	38.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	38.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	38.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	38.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	38.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	38.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	76.	ug/kg	1
04622	Aniline	62-53-3	N.D.	38.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	190.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	76.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	38.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	76.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	76.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	76.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	76.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	76.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	76.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	76.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	76.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	38.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	38.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	76.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	38.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	38.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	38.	ug/kg	1

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Wilmington DE 19805

AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		760.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		38.	ug/kg	1
03761	Naphthalene	91-20-3	41.	J	38.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		76.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		190.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		38.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		76.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		38.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		76.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		76.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		110.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		76.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		950.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		76.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		2,900.	ug/kg	1
04669	Safrole	94-59-7	N.D.		76.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		76.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		76.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		38.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	59.	J	38.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		38.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		38.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	N.D.		38.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		190.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		76.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		190.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		38.	ug/kg	1
03768	Fluorene	86-73-7	N.D.		38.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		38.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		76.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		38.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		38.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		38.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		38.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		38.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		190.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		190.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		190.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		76.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		76.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		76.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		76.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		190.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		76.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		38.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		76.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		110.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		190.	ug/kg	1
01195	Pyrene	129-00-0	270.	J	38.	ug/kg	1
03775	Phenanthrene	85-01-8	170.	J	38.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		38.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		76.	ug/kg	1
03778	Fluoranthene	206-44-0	330.	J	38.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		76.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	150.	J	38.	ug/kg	1
03782	Chrysene	218-01-9	170.	J	38.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		76.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		76.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		76.	ug/kg	1

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AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	220.	J	38.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	84.	J	38.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	160.	J	38.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	140.	J	38.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	47.	J	38.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	180.	J	38.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		76.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		190.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		38.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		76.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		38.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		190.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		38.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		76.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		76.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		380.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		76.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		38.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		76.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/kg	0.83
05444	Chloromethane	74-87-3	N.D.		2.	ug/kg	0.83
05445	Vinyl Chloride	75-01-4	N.D.		0.9	ug/kg	0.83
05446	Bromomethane	74-83-9	N.D.		2.	ug/kg	0.83
05447	Chloroethane	75-00-3	N.D.		2.	ug/kg	0.83
05448	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/kg	0.83
05449	1,1-Dichloroethene	75-35-4	N.D.		0.9	ug/kg	0.83
05450	Methylene Chloride	75-09-2	N.D.		2.	ug/kg	0.83
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		0.9	ug/kg	0.83
05452	1,1-Dichloroethane	75-34-3	N.D.		0.9	ug/kg	0.83
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		0.9	ug/kg	0.83
05455	Chloroform	67-66-3	N.D.		0.9	ug/kg	0.83
05457	1,1,1-Trichloroethane	71-55-6	N.D.		0.9	ug/kg	0.83
05458	Carbon Tetrachloride	56-23-5	N.D.		0.9	ug/kg	0.83
05460	Benzene	71-43-2	2.	J	0.9	ug/kg	0.83

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101145

Collected:08/12/2003 09:30 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:45
Discard: 10/03/2003
TOL-S-AOC01-01(0-0.5)-DUP Soil Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		0.9	ug/kg	0.83
05462	Trichloroethene	79-01-6	N.D.		0.9	ug/kg	0.83
06293	Acetone	67-64-1	41.		7.	ug/kg	0.83
06294	Carbon Disulfide	75-15-0	2.	J	0.9	ug/kg	0.83
06296	2-Butanone	78-93-3	4.	J	4.	ug/kg	0.83
07586	Acrolein	107-02-8	N.D.		19.	ug/kg	0.83
07587	Acrylonitrile	107-13-1	N.D.		4.	ug/kg	0.83
07704	Methyl Iodide	74-88-4	N.D.		3.	ug/kg	0.83
07705	Acetonitrile	75-05-8	N.D.		24.	ug/kg	0.83
07706	Allyl Chloride	107-05-1	N.D.		0.9	ug/kg	0.83
07707	Vinyl Acetate	108-05-4	N.D.		2.	ug/kg	0.83
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		0.9	ug/kg	0.83
07709	Propionitrile	107-12-0	N.D.		28.	ug/kg	0.83
07710	Methacrylonitrile	126-98-7	N.D.		5.	ug/kg	0.83
07711	Isobutyl Alcohol	78-83-1	N.D.		95.	ug/kg	0.83
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		0.9	ug/kg	0.83
05464	Dibromomethane	74-95-3	N.D.		0.9	ug/kg	0.83
05465	Bromodichloromethane	75-27-4	N.D.		0.9	ug/kg	0.83
05466	Toluene	108-88-3	5.		0.9	ug/kg	0.83
05467	1,1,2-Trichloroethane	79-00-5	N.D.		0.9	ug/kg	0.83
05468	Tetrachloroethene	127-18-4	N.D.		0.9	ug/kg	0.83
05470	Dibromochloromethane	124-48-1	N.D.		0.9	ug/kg	0.83
05471	1,2-Dibromoethane	106-93-4	N.D.		0.9	ug/kg	0.83
05472	Chlorobenzene	108-90-7	N.D.		0.9	ug/kg	0.83
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.9	ug/kg	0.83
05474	Ethylbenzene	100-41-4	1.	J	0.9	ug/kg	0.83
05477	Styrene	100-42-5	N.D.		0.9	ug/kg	0.83
05478	Bromoform	75-25-2	N.D.		0.9	ug/kg	0.83
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.9	ug/kg	0.83
05482	1,2,3-Trichloropropane	96-18-4	N.D.		0.9	ug/kg	0.83
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2.	ug/kg	0.83
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.9	ug/kg	0.83
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.9	ug/kg	0.83
06299	4-Methyl-2-pentanone	108-10-1	N.D.		3.	ug/kg	0.83

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.		3.	ug/kg	0.83
06301	Xylene (Total)	1330-20-7	4.	J	0.9	ug/kg	0.83
07712	Methyl Methacrylate	80-62-6	N.D.		0.9	ug/kg	0.83
07714	Ethyl Methacrylate	97-63-2	N.D.		0.9	ug/kg	0.83
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.		9.	ug/kg	0.83
07716	Pentachloroethane	76-01-7	N.D.		0.9	ug/kg	0.83

Acetone was detected in the method blank at an estimated concentration of 10 ug/kg. The blank value was not subtracted from the analytical result.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:28	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/21/2003 00:03	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/21/2003 00:03	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 22:14	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 15:00	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 15:00	Joseph M Gambler	1

Lancaster Laboratories

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Wilmington DE 19805

AOCFD

04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 15:00	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 15:00	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 15:00	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/18/2003 20:39	Susan McMahon-Luu	0.83
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/18/2003 20:39	Susan McMahon-Luu	0.83
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1
08389	Low/High Encore Prep Tracking	SW-846 5035	1	08/13/2003 17:31	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	2	08/13/2003 17:32	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	3	08/13/2003 17:33	Medina A Long	n.a.
08389	Low/High Encore Prep Tracking	SW-846 5035	4	08/13/2003 17:34	Medina A Long	n.a.

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101146

Collected:08/12/2003 15:00 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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TOL-K-AOC01-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	N.D.	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0022	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0016	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	N.D.	0.0050	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0017	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	N.D.	1.	ug/l	1
01267	Acetophenone	98-86-2	N.D.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	N.D.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	N.D.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	N.D.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	N.D.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	N.D.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	N.D.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	N.D.	2.	ug/l	1
01301	2-Picoline	109-06-8	N.D.	2.	ug/l	1
01306	o-Toluidine	95-53-4	N.D.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	N.D.	2.	ug/l	1
03920	Pyridine	110-86-1	N.D.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	ug/l	1

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Wilmington DE 19805

AOCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	N.D.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	N.D.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	N.D.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	N.D.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	N.D.	2.	ug/l	1
01283	Isosafrole	120-58-1	N.D.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	N.D.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	60.	ug/l	1
01303	Safrole	94-59-7	N.D.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	N.D.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	ug/l	1

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	ug/l	1
01311	App. IX Semivolatiles con't					
00438	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	2.	ug/l	1
01274	Dimethoate	60-51-5	N.D.	3.	ug/l	1
01287	1-Naphthylamine	134-32-7	N.D.	5.	ug/l	1
01288	2-Naphthylamine	91-59-8	N.D.	5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	N.D.	3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	N.D.	2.	ug/l	1
01299	Phenacetin	62-44-2	N.D.	2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	N.D.	1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	N.D.	5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	N.D.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	ug/l	1
01312	App. IX Semivolatiles con't					

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AOCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	N.D.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	N.D.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	N.D.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	N.D.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	N.D.	5.	ug/l	1
01282	Isodrin	465-73-6	N.D.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	N.D.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	N.D.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	N.D.	2.	ug/l	1
01302	Pronamide	23950-58-5	N.D.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	N.D.	1.	ug/l	1
03368	Methapyrilene	91-80-5	N.D.	3.	ug/l	1
03370	Thionazin	297-97-2	N.D.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101146

Collected:08/12/2003 15:00 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:46
Discard: 10/03/2003
TOL-K-AOC01-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS. Since 1,4-dioxane was not detected in the sample, no further action was taken.					
02424	Misc. Water Appendix IX					
02514	Aramite	140-57-8	N.D.	1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	N.D.	1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.					
06886	Appendix IX Volatiles					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.	25.	ug/l	1

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

AOCEB

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:49	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 18:53	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07055	Lead	SW-846 6010B	1	08/19/2003 12:41	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 12:41	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 15:01	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 15:01	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 15:01	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 15:01	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 15:01	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 00:09	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 00:09	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 00:09	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101147

Collected:08/12/2003 12:00 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-E-TC-01 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0957	J	0.0039	mg/kg	1
06925	Thallium	7440-28-0	N.D.		1.36	mg/kg	1
06935	Arsenic	7440-38-2	10.6		0.729	mg/kg	1
06936	Selenium	7782-49-2	N.D.		0.685	mg/kg	1
06944	Antimony	7440-36-0	N.D.		0.962	mg/kg	1
06946	Barium	7440-39-3	104.		0.0466	mg/kg	1
06947	Beryllium	7440-41-7	0.329	J	0.0860	mg/kg	1
06949	Cadmium	7440-43-9	1.11		0.0787	mg/kg	1
06951	Chromium	7440-47-3	16.9		0.292	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 101% for chromium.						
06952	Cobalt	7440-48-4	4.25		0.204	mg/kg	1
06953	Copper	7440-50-8	24.8		0.277	mg/kg	1
06955	Lead	7439-92-1	169.		1.15	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 97% for lead.						
06961	Nickel	7440-02-0	11.7		0.292	mg/kg	1
06966	Silver	7440-22-4	0.347	J	0.219	mg/kg	1
06969	Tin	7440-31-5	4.48	J	0.598	mg/kg	1
06971	Vanadium	7440-62-2	19.2		0.233	mg/kg	1
06972	Zinc	7440-66-6	200.		0.262	mg/kg	1
	The recovery of the post digestion spike performed on the background sample was 82% for zinc.						
00111	Moisture	n.a.	31.4		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	N.D.		49.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.		49.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						

Lancaster Laboratories

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TOL-E-TC-01 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
01185	Phenol	108-95-2	N.D.	49.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	49.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	49.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	49.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	97.	ug/kg	1
03746	2-Nitrophenol	88-75-5	N.D.	49.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	97.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	49.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	49.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	49.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	49.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	49.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	49.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	49.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	97.	ug/kg	1
04622	Aniline	62-53-3	N.D.	49.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	240.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	97.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	49.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	97.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	97.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	97.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	97.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	97.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	97.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	97.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	97.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	49.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	49.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	97.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	49.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	49.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	49.	ug/kg	1

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ETC01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03750	2,4-Dinitrophenol	51-28-5	N.D.		970.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		49.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.		49.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		97.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		240.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		49.	ug/kg	1
03766	Dimethylphthalate	131-11-3	N.D.		97.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		49.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		97.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		97.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		150.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		97.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		1,200.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		97.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		3,600.	ug/kg	1
04669	Safrole	94-59-7	N.D.		97.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		97.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		97.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		49.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.		49.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		49.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		49.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	65.	J	49.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		240.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		97.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		240.	ug/kg	1
03765	Acenaphthylene	208-96-8	110.	J	49.	ug/kg	1
03768	Fluorene	86-73-7	85.	J	49.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		49.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		97.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		49.	ug/kg	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

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ETC01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		49.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		49.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		49.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		49.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		240.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		240.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	N.D.		240.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		97.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		97.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		97.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		97.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		240.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		97.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		49.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		97.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recovery of 1,4-naphthoquinone was above QC limits in the LCS. Since this compound was not detected in the sample, no further action was taken.

04618 App. IX Semivolatiles con't

00176	1,4-Dioxane	123-91-1	N.D.		150.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		240.	ug/kg	1
01195	Pyrene	129-00-0	2,800.		49.	ug/kg	1
03775	Phenanthrene	85-01-8	1,300.		49.	ug/kg	1
03776	Anthracene	120-12-7	270.	J	49.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		97.	ug/kg	1
03778	Fluoranthene	206-44-0	3,300.		49.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	140.	J	97.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	1,200.		49.	ug/kg	1
03782	Chrysene	218-01-9	1,900.		49.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		97.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	1,700.		97.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		97.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101147

Collected:08/12/2003 12:00 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:47
Discard: 10/03/2003
TOL-E-TC-01 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03786	Benzo(b)fluoranthene	205-99-2	2,700.		49.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	1,000.		49.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	1,800.		49.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	1,500.		49.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	350.	J	49.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	1,400.		49.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		97.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		240.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		49.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		97.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		49.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		240.	ug/kg	1
04641	Isodrin	465-73-6	N.D.		49.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		97.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		97.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		490.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		97.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		49.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		97.	ug/kg	1
07720	Appendix IX Volatiles						
05443	Dichlorodifluoromethane	75-71-8	N.D.		3.	ug/kg	0.99
05444	Chloromethane	74-87-3	N.D.		3.	ug/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.99
05446	Bromomethane	74-83-9	N.D.		3.	ug/kg	0.99
05447	Chloroethane	75-00-3	N.D.		3.	ug/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.		3.	ug/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.99
05450	Methylene Chloride	75-09-2	4.	J	3.	ug/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.99
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.99
05460	Benzene	71-43-2	N.D.		1.	ug/kg	0.99

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101147

Collected:08/12/2003 12:00 by AD

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Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-E-TC-01 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.99
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.99
06293	Acetone	67-64-1	31.		10.	ug/kg	0.99
06294	Carbon Disulfide	75-15-0	N.D.		1.	ug/kg	0.99
06296	2-Butanone	78-93-3	8.	J	6.	ug/kg	0.99
07586	Acrolein	107-02-8	N.D.		29.	ug/kg	0.99
07587	Acrylonitrile	107-13-1	N.D.		6.	ug/kg	0.99
07704	Methyl Iodide	74-88-4	N.D.		4.	ug/kg	0.99
07705	Acetonitrile	75-05-8	N.D.		36.	ug/kg	0.99
07706	Allyl Chloride	107-05-1	N.D.		1.	ug/kg	0.99
07707	Vinyl Acetate	108-05-4	N.D.		3.	ug/kg	0.99
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.		1.	ug/kg	0.99
07709	Propionitrile	107-12-0	N.D.		43.	ug/kg	0.99
07710	Methacrylonitrile	126-98-7	N.D.		7.	ug/kg	0.99
07711	Isobutyl Alcohol	78-83-1	N.D.		140.	ug/kg	0.99
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	N.D.		1.	ug/kg	0.99
05464	Dibromomethane	74-95-3	N.D.		1.	ug/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.		1.	ug/kg	0.99
05466	Toluene	108-88-3	N.D.		1.	ug/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.		1.	ug/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.		1.	ug/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.		1.	ug/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.		1.	ug/kg	0.99
05472	Chlorobenzene	108-90-7	N.D.		1.	ug/kg	0.99
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1.	ug/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.		1.	ug/kg	0.99
05477	Styrene	100-42-5	N.D.		1.	ug/kg	0.99
05478	Bromoform	75-25-2	N.D.		1.	ug/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.	ug/kg	0.99
05482	1,2,3-Trichloropropane	96-18-4	N.D.		1.	ug/kg	0.99
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		3.	ug/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.		1.	ug/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.		1.	ug/kg	0.99
06299	4-Methyl-2-pentanone	108-10-1	N.D.		4.	ug/kg	0.99

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06300	2-Hexanone	591-78-6	N.D.	4.	ug/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	0.99
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.99
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.99
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	14.	ug/kg	0.99
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.99

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 10:30	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06944	Antimony	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/21/2003 00:09	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/21/2003 00:09	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 22:20	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/18/2003 15:48	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/18/2003 15:48	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 15:48	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 15:48	Joseph M Gambler	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101147

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC01

04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/18/2003 15:48	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 16:24	Roy R Mellott Jr	0.99
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/19/2003 16:24	Roy R Mellott Jr	0.99
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/19/2003 07:00	Anastasia Papadoplos	n.a.
00381	BNA Soil Extraction	SW-846 3550B	1	08/15/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 13:00	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101148

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:48
Discard: 10/03/2003
TOL-E-TC-02 Unspiked Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0415 J	0.0035	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.18	mg/kg	1
06935	Arsenic	7440-38-2	6.02	0.634	mg/kg	1
06936	Selenium	7782-49-2	0.841 J	0.596	mg/kg	1
06944	Antimony	7440-36-0	N.D.	0.837	mg/kg	1
06946	Barium	7440-39-3	73.6	0.0406	mg/kg	1
06947	Beryllium	7440-41-7	0.450 J	0.0748	mg/kg	1
06949	Cadmium	7440-43-9	0.639	0.0685	mg/kg	1
06951	Chromium	7440-47-3	14.3	0.254	mg/kg	1
06952	Cobalt	7440-48-4	5.18	0.178	mg/kg	1
06953	Copper	7440-50-8	13.2	0.241	mg/kg	1
06955	Lead	7439-92-1	24.9	1.00	mg/kg	1
06961	Nickel	7440-02-0	12.7	0.254	mg/kg	1
06966	Silver	7440-22-4	N.D.	0.190	mg/kg	1
06969	Tin	7440-31-5	3.73 J	0.520	mg/kg	1
06971	Vanadium	7440-62-2	25.5	0.203	mg/kg	1
06972	Zinc	7440-66-6	49.4	0.228	mg/kg	1
00111	Moisture	n.a.	22.7	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

02198 Misc. Soil Appendix IX

02519	Aramite	140-57-8	N.D.	43.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.	43.	ug/kg	1

Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.

04615 Appendix IX Semivolatiles Soil

01185	Phenol	108-95-2	N.D.	43.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	43.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	43.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	43.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	86.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101148

Collected:08/12/2003 11:45 by AD

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Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-E-TC-02 Unspiked Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03746	2-Nitrophenol	88-75-5	N.D.	43.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	86.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	43.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	43.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	43.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	43.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	43.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	43.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	43.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	86.	ug/kg	1
04622	Aniline	62-53-3	N.D.	43.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	220.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	86.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	43.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	86.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	86.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	86.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	86.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	86.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	86.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	86.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	86.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	43.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	43.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	86.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	43.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	43.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	43.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.	860.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	43.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.	43.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.	86.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.	220.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.	43.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101148

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:48
Discard: 10/03/2003
TOL-E-TC-02 Unspiked Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03766	Dimethylphthalate	131-11-3	N.D.	86.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.	43.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.	86.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.	86.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.	130.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.	86.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.	1,100.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.	86.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.	3,200.	ug/kg	1
04669	Safrole	94-59-7	N.D.	86.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	86.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	86.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	43.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	43.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.	43.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.	43.	ug/kg	1
04617	App. IX Semivolatiles con't					
01191	Acenaphthene	83-32-9	N.D.	43.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.	220.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.	86.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	220.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.	43.	ug/kg	1
03768	Fluorene	86-73-7	N.D.	43.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.	43.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.	86.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.	43.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03773	4-Bromophenyl-phenylether	101-55-3	N.D.	43.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.	43.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.	43.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.	43.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.	220.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.	220.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101148

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:48
Discard: 10/03/2003
TOL-E-TC-02 Unspiked Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04661	5-Nitro-o-toluidine	99-55-8	N.D.		220.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		86.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		86.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		86.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		86.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		220.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		86.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		43.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		86.	ug/kg	1
04618	App. IX Semivolatiles con't						
00176	1,4-Dioxane	123-91-1	N.D.		130.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		220.	ug/kg	1
01195	Pyrene	129-00-0	150.	J	43.	ug/kg	1
03775	Phenanthrene	85-01-8	74.	J	43.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		43.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		86.	ug/kg	1
03778	Fluoranthene	206-44-0	190.	J	43.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		86.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	68.	J	43.	ug/kg	1
03782	Chrysene	218-01-9	120.	J	43.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		86.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.		86.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		86.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	150.	J	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	68.	J	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	94.	J	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	80.	J	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	82.	J	43.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		86.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		220.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		43.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		86.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		43.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		220.	ug/kg	1

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04641	Isodrin	465-73-6	N.D.		43.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		86.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		86.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		430.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		86.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		43.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		86.	ug/kg	1
05782	4,4'-Methylenebis(2-chloroanil	101-14-4	N.D.		43.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recoveries of 1,4-naphthoquinone and 4-aminobiphenyl were above QC limits in the LCS. Since these compounds were not detected in the sample, no further action was taken.

The QC limits for aramite and a,a-dimethylphenethylamine are advisory.

07720 Appendix IX Volatiles

05443	Dichlorodifluoromethane	75-71-8	N.D.		3.	ug/kg	1.01
05444	Chloromethane	74-87-3	N.D.		3.	ug/kg	1.01
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	1.01
05446	Bromomethane	74-83-9	N.D.		3.	ug/kg	1.01
05447	Chloroethane	75-00-3	N.D.		3.	ug/kg	1.01
05448	Trichlorofluoromethane	75-69-4	N.D.		3.	ug/kg	1.01
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	1.01
05450	Methylene Chloride	75-09-2	5.	J	3.	ug/kg	1.01
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	1.01
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	1.01
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	1.01
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	1.01
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	1.01
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	1.01
05460	Benzene	71-43-2	N.D.		1.	ug/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	1.01
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	1.01

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ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06293	Acetone	67-64-1	N.D.	9.	ug/kg	1.01
06294	Carbon Disulfide	75-15-0	N.D.	1.	ug/kg	1.01
06296	2-Butanone	78-93-3	N.D.	5.	ug/kg	1.01
07586	Acrolein	107-02-8	N.D.	26.	ug/kg	1.01
07587	Acrylonitrile	107-13-1	N.D.	5.	ug/kg	1.01
07704	Methyl Iodide	74-88-4	N.D.	4.	ug/kg	1.01
07705	Acetonitrile	75-05-8	N.D.	33.	ug/kg	1.01
07706	Allyl Chloride	107-05-1	N.D.	1.	ug/kg	1.01
07707	Vinyl Acetate	108-05-4	N.D.	3.	ug/kg	1.01
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/kg	1.01
07709	Propionitrile	107-12-0	N.D.	39.	ug/kg	1.01
07710	Methacrylonitrile	126-98-7	N.D.	7.	ug/kg	1.01
07711	Isobutyl Alcohol	78-83-1	N.D.	130.	ug/kg	1.01
07721	Appendix IX Volatiles cont'd					
05463	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/kg	1.01
05464	Dibromomethane	74-95-3	N.D.	1.	ug/kg	1.01
05465	Bromodichloromethane	75-27-4	N.D.	1.	ug/kg	1.01
05466	Toluene	108-88-3	N.D.	1.	ug/kg	1.01
05467	1,1,2-Trichloroethane	79-00-5	N.D.	1.	ug/kg	1.01
05468	Tetrachloroethene	127-18-4	N.D.	1.	ug/kg	1.01
05470	Dibromochloromethane	124-48-1	N.D.	1.	ug/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/kg	1.01
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	1.01
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	1.	ug/kg	1.01
05477	Styrene	100-42-5	N.D.	1.	ug/kg	1.01
05478	Bromoform	75-25-2	N.D.	1.	ug/kg	1.01
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/kg	1.01
05482	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/kg	1.01
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	3.	ug/kg	1.01
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/kg	1.01
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/kg	1.01
06299	4-Methyl-2-pentanone	108-10-1	N.D.	4.	ug/kg	1.01
06300	2-Hexanone	591-78-6	N.D.	4.	ug/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	1.01

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	1.01
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	1.01
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	13.	ug/kg	1.01
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	1.01

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 08:32	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/20/2003 17:06	Tessa R Marshall	1
06944	Antimony	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 18:55	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/21/2003 10:46	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/21/2003 10:46	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 10:46	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 10:46	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 10:46	Joseph M Gambler	1

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

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ETC02 SDG#: XXX01-02BKG

07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 13:21	Roy R Mellott Jr	1.01
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/19/2003 13:21	Roy R Mellott Jr	1.01
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/19/2003 06:34	Anastasia Papadoplos	n.a.
00381	BNA Soil Extraction	SW-846 3550B	2	08/20/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 12:40	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

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TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

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Barley Mill Plaza, Bldg. 27
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Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.245		0.0036	mg/kg	1
06925	Thallium	7440-28-0	247.		1.20	mg/kg	1
06935	Arsenic	7440-38-2	253.		0.647	mg/kg	1
06936	Selenium	7782-49-2	248.		0.596	mg/kg	1
06944	Antimony	7440-36-0	60.2		0.854	mg/kg	1
06946	Barium	7440-39-3	363.		0.0414	mg/kg	1
06947	Beryllium	7440-41-7	7.04		0.0763	mg/kg	1
06949	Cadmium	7440-43-9	6.66		0.0699	mg/kg	1
06951	Chromium	7440-47-3	45.5		0.259	mg/kg	1
06952	Cobalt	7440-48-4	66.9		0.181	mg/kg	1
06953	Copper	7440-50-8	47.4		0.246	mg/kg	1
06955	Lead	7439-92-1	92.9		1.02	mg/kg	1
06961	Nickel	7440-02-0	74.6		0.259	mg/kg	1
06966	Silver	7440-22-4	6.65		0.194	mg/kg	1
06969	Tin	7440-31-5	503.		0.530	mg/kg	1
06971	Vanadium	7440-62-2	98.6		0.207	mg/kg	1
06972	Zinc	7440-66-6	110.		0.233	mg/kg	1
00118	Moisture	n.a.	22.7		0.50	%	1
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	3,100.		43.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	1,300.	J	43.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						
01185	Phenol	108-95-2	4,800.		43.	ug/kg	1
01186	2-Chlorophenol	95-57-8	4,300.		43.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	3,800.		43.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	4,500.		43.	ug/kg	1
01463	4-Methylphenol	106-44-5	4,500.		86.	ug/kg	1
03746	2-Nitrophenol	88-75-5	4,500.		43.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	4,400.		86.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	4,400.		43.	ug/kg	1

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TOL-E-TC-02-MS Matrix Spike Sediment Sample
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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03754	1,3-Dichlorobenzene	541-73-1	3,800.	43.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	3,700.	43.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	5,100.	43.	ug/kg	1
03757	Hexachloroethane	67-72-1	3,900.	43.	ug/kg	1
03758	Nitrobenzene	98-95-3	4,600.	43.	ug/kg	1
03759	Isophorone	78-59-1	4,500.	43.	ug/kg	1
04619	Acetophenone	98-86-2	4,300.	86.	ug/kg	1
04622	Aniline	62-53-3	5,200.	43.	ug/kg	1
04623	Benzyl alcohol	100-51-6	4,300.	220.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	4,200.	86.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	3,800.	43.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	4,100.	86.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	4,100.	86.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	4,100.	86.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	4,600.	86.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	4,500.	86.	ug/kg	1
04666	2-Picoline	109-06-8	3,800.	86.	ug/kg	1
04668	Pyridine	110-86-1	3,200.	86.	ug/kg	1
04674	o-Toluidine	95-53-4	3,300.	86.	ug/kg	1
04690	2-Methylphenol	95-48-7	4,200.	43.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	4,500.	43.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	4,800.	86.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	4,500.	43.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	4,800.	43.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	4,700.	43.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	3,800.	860.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	5,200.	43.	ug/kg	1
03761	Naphthalene	91-20-3	4,200.	43.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	4,600.	86.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.	220.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	4,000.	43.	ug/kg	1
03766	Dimethylphthalate	131-11-3	4,300.	86.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	4,300.	43.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	4,800.	86.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101149

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:49
Discard: 10/03/2003
TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
04637	1,3-Dinitrobenzene	99-65-0	4,500.	86.	ug/kg	1
04640	Hexachloropropene	1888-71-7	2,800.	130.	ug/kg	1
04642	Isosafrole	120-58-1	4,100.	86.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	10,000.	1,100.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	4,400.	86.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.	3,200.	ug/kg	1
04669	Safrole	94-59-7	4,500.	86.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	4,600.	86.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	4,600.	86.	ug/kg	1
04693	4-Chloroaniline	106-47-8	4,700.	43.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	4,200.	43.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	4,800.	43.	ug/kg	1
04696	2-Nitroaniline	88-74-4	4,600.	43.	ug/kg	1
04617	App. IX Semivolatiles con't					
01191	Acenaphthene	83-32-9	4,400.	43.	ug/kg	1
01192	4-Nitrophenol	100-02-7	5,300.	220.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	4,900.	86.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	4,000.	220.	ug/kg	1
03765	Acenaphthylene	208-96-8	4,200.	43.	ug/kg	1
03768	Fluorene	86-73-7	4,400.	43.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	4,300.	43.	ug/kg	1
03770	Diethylphthalate	84-66-2	4,400.	86.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	3,900.	43.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03773	4-Bromophenyl-phenylether	101-55-3	4,300.	43.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	4,400.	43.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	4,200.	43.	ug/kg	1
04632	Dimethoate	60-51-5	1,900.	43.	ug/kg	1
04648	1-Naphthylamine	134-32-7	3,900.	220.	ug/kg	1
04649	2-Naphthylamine	91-59-8	2,300.	220.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	3,200.	220.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	4,800.	86.	ug/kg	1
04664	Phenacetin	62-44-2	4,600.	86.	ug/kg	1

Lancaster Laboratories

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TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04671	2,3,4,6-Tetrachlorophenol	58-90-2	5,300.		86.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	4,400.		86.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	940.		220.	ug/kg	1
04697	3-Nitroaniline	99-09-2	4,100.		86.	ug/kg	1
04698	Dibenzofuran	132-64-9	4,400.		43.	ug/kg	1
04700	4-Nitroaniline	100-01-6	4,000.		86.	ug/kg	1
04618	App. IX Semivolatiles con't						
00176	1,4-Dioxane	123-91-1	2,800.		130.	ug/kg	1
01194	Pentachlorophenol	87-86-5	3,300.		220.	ug/kg	1
01195	Pyrene	129-00-0	4,200.		43.	ug/kg	1
03775	Phenanthrene	85-01-8	4,300.		43.	ug/kg	1
03776	Anthracene	120-12-7	4,300.		43.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	4,300.		86.	ug/kg	1
03778	Fluoranthene	206-44-0	4,400.		43.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	4,100.		86.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	4,400.		43.	ug/kg	1
03782	Chrysene	218-01-9	4,700.		43.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	3,900.		86.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	4,300.		86.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	4,000.		86.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	5,200.		43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	4,500.		43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	4,600.		43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	4,400.		43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	4,700.		43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	4,300.		43.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	3,900.		86.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	3,400.		220.	ug/kg	1
04626	Chlorobenzilate	510-15-6	4,300.		43.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	150.	J	86.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	4,400.		43.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	1,600.		220.	ug/kg	1
04641	Isodrin	465-73-6	2,200.		43.	ug/kg	1
04643	Methapyrilene	91-80-5	690.		86.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	4,100.		86.	ug/kg	1

Lancaster Laboratories

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TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		430.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	4,400.		86.	ug/kg	1
04667	Pronamide	23950-58-5	4,400.		43.	ug/kg	1
04673	Thionazin	297-97-2	4,400.		86.	ug/kg	1
05782	4,4'-Methylenebis(2-chloroanil	101-14-4	3,600.		43.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recoveries of 1,4-naphthoquinone and 4-aminobiphenyl were above QC limits in the LCS.

The QC limits for aramite and a,a-dimethylphenethylamine are advisory.

07720 Appendix IX Volatiles

05443	Dichlorodifluoromethane	75-71-8	20.		3.	ug/kg	0.99
05444	Chloromethane	74-87-3	20.		3.	ug/kg	0.99
05445	Vinyl Chloride	75-01-4	19.		1.	ug/kg	0.99
05446	Bromomethane	74-83-9	19.		3.	ug/kg	0.99
05447	Chloroethane	75-00-3	19.		3.	ug/kg	0.99
05448	Trichlorofluoromethane	75-69-4	18.		3.	ug/kg	0.99
05449	1,1-Dichloroethene	75-35-4	18.		1.	ug/kg	0.99
05450	Methylene Chloride	75-09-2	23.		3.	ug/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	19.		1.	ug/kg	0.99
05452	1,1-Dichloroethane	75-34-3	21.		1.	ug/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	20.		1.	ug/kg	0.99
05455	Chloroform	67-66-3	21.		1.	ug/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	20.		1.	ug/kg	0.99
05458	Carbon Tetrachloride	56-23-5	19.		1.	ug/kg	0.99
05460	Benzene	71-43-2	20.		1.	ug/kg	0.99
05461	1,2-Dichloroethane	107-06-2	21.		1.	ug/kg	0.99
05462	Trichloroethene	79-01-6	19.		1.	ug/kg	0.99
06293	Acetone	67-64-1	260.		9.	ug/kg	0.99
06294	Carbon Disulfide	75-15-0	19.		1.	ug/kg	0.99
06296	2-Butanone	78-93-3	240.		5.	ug/kg	0.99
07586	Acrolein	107-02-8	100.	J	26.	ug/kg	0.99

Lancaster Laboratories

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Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
07587	Acrylonitrile	107-13-1	100.		5.	ug/kg	0.99
07704	Methyl Iodide	74-88-4	20.		4.	ug/kg	0.99
07705	Acetonitrile	75-05-8	110.	J	32.	ug/kg	0.99
07706	Allyl Chloride	107-05-1	17.		1.	ug/kg	0.99
07707	Vinyl Acetate	108-05-4	57.		3.	ug/kg	0.99
07708	2-Chloro-1,3-butadiene	126-99-8	19.		1.	ug/kg	0.99
07709	Propionitrile	107-12-0	170.		38.	ug/kg	0.99
07710	Methacrylonitrile	126-98-7	170.		6.	ug/kg	0.99
07711	Isobutyl Alcohol	78-83-1	520.		130.	ug/kg	0.99
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	21.		1.	ug/kg	0.99
05464	Dibromomethane	74-95-3	21.		1.	ug/kg	0.99
05465	Bromodichloromethane	75-27-4	20.		1.	ug/kg	0.99
05466	Toluene	108-88-3	21.		1.	ug/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	22.		1.	ug/kg	0.99
05468	Tetrachloroethene	127-18-4	20.		1.	ug/kg	0.99
05470	Dibromochloromethane	124-48-1	21.		1.	ug/kg	0.99
05471	1,2-Dibromoethane	106-93-4	21.		1.	ug/kg	0.99
05472	Chlorobenzene	108-90-7	19.		1.	ug/kg	0.99
05473	1,1,1,2-Tetrachloroethane	630-20-6	22.		1.	ug/kg	0.99
05474	Ethylbenzene	100-41-4	19.		1.	ug/kg	0.99
05477	Styrene	100-42-5	18.		1.	ug/kg	0.99
05478	Bromoform	75-25-2	20.		1.	ug/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	25.		1.	ug/kg	0.99
05482	1,2,3-Trichloropropane	96-18-4	26.		1.	ug/kg	0.99
05495	1,2-Dibromo-3-chloropropane	96-12-8	22.		3.	ug/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	22.		1.	ug/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	20.		1.	ug/kg	0.99
06299	4-Methyl-2-pentanone	108-10-1	110.		4.	ug/kg	0.99
06300	2-Hexanone	591-78-6	150.		4.	ug/kg	0.99
06301	Xylene (Total)	1330-20-7	60.		1.	ug/kg	0.99
07712	Methyl Methacrylate	80-62-6	23.		1.	ug/kg	0.99
07714	Ethyl Methacrylate	97-63-2	19.		1.	ug/kg	0.99
07715	trans-1,4-Dichloro-2-butene	110-57-6	120.		13.	ug/kg	0.99
07716	Pentachloroethane	76-01-7	21.		1.	ug/kg	0.99

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101149

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:49
Discard: 10/03/2003
TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 08:37	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/20/2003 17:18	Tessa R Marshall	1
06944	Antimony	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 19:11	Donna R Sackett	1
00118	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/21/2003 11:34	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/21/2003 11:34	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 11:34	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 11:34	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 11:34	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 13:47	Roy R Mellott Jr	0.99
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 14:39	Roy R Mellott Jr	0.99
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/19/2003 13:47	Roy R Mellott Jr	0.99

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101149

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:49
Discard: 10/03/2003
TOL-E-TC-02-MS Matrix Spike Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MS

00374	GC/MS VOA Soil Prep	SW-846 5030A	2	08/19/2003 06:36	Roy R Mellott Jr	n.a.
00381	BNA Soil Extraction	SW-846 3550B	2	08/20/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 12:40	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101150

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:50
Discard: 10/03/2003
TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.241		0.0036	mg/kg	1
06925	Thallium	7440-28-0	246.		1.18	mg/kg	1
06935	Arsenic	7440-38-2	249.		0.634	mg/kg	1
06936	Selenium	7782-49-2	251.		0.596	mg/kg	1
06944	Antimony	7440-36-0	60.3		0.837	mg/kg	1
06946	Barium	7440-39-3	341.		0.0406	mg/kg	1
06947	Beryllium	7440-41-7	6.97		0.0748	mg/kg	1
06949	Cadmium	7440-43-9	6.51		0.0685	mg/kg	1
06951	Chromium	7440-47-3	42.5		0.254	mg/kg	1
06952	Cobalt	7440-48-4	65.8		0.178	mg/kg	1
06953	Copper	7440-50-8	46.6		0.241	mg/kg	1
06955	Lead	7439-92-1	84.2		1.00	mg/kg	1
06961	Nickel	7440-02-0	73.1		0.254	mg/kg	1
06966	Silver	7440-22-4	6.61		0.190	mg/kg	1
06969	Tin	7440-31-5	499.		0.520	mg/kg	1
06971	Vanadium	7440-62-2	95.3		0.203	mg/kg	1
06972	Zinc	7440-66-6	106.		0.228	mg/kg	1
00118	Moisture	n.a.	22.7		0.50	%	1
02198	Misc. Soil Appendix IX						
02519	Aramite	140-57-8	2,900.		43.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	1,400.	J	43.	ug/kg	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
04615	Appendix IX Semivolatiles Soil						
01185	Phenol	108-95-2	4,100.		43.	ug/kg	1
01186	2-Chlorophenol	95-57-8	3,700.		43.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	3,300.		43.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	3,900.		43.	ug/kg	1
01463	4-Methylphenol	106-44-5	4,100.		86.	ug/kg	1
03746	2-Nitrophenol	88-75-5	3,900.		43.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	3,800.		86.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	3,900.		43.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101150

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:50
Discard: 10/03/2003
TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03754	1,3-Dichlorobenzene	541-73-1	3,300.	43.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	3,300.	43.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	4,600.	43.	ug/kg	1
03757	Hexachloroethane	67-72-1	3,400.	43.	ug/kg	1
03758	Nitrobenzene	98-95-3	3,900.	43.	ug/kg	1
03759	Isophorone	78-59-1	3,800.	43.	ug/kg	1
04619	Acetophenone	98-86-2	3,700.	86.	ug/kg	1
04622	Aniline	62-53-3	4,100.	43.	ug/kg	1
04623	Benzyl alcohol	100-51-6	3,800.	220.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	3,600.	86.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	3,200.	43.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	3,600.	86.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	3,700.	86.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	3,700.	86.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	3,900.	86.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	3,900.	86.	ug/kg	1
04666	2-Picoline	109-06-8	3,300.	86.	ug/kg	1
04668	Pyridine	110-86-1	2,800.	86.	ug/kg	1
04674	o-Toluidine	95-53-4	2,900.	86.	ug/kg	1
04690	2-Methylphenol	95-48-7	3,700.	43.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	3,800.	43.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	4,300.	86.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	3,800.	43.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	3,900.	43.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	4,000.	43.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	3,300.	860.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	4,300.	43.	ug/kg	1
03761	Naphthalene	91-20-3	3,500.	43.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	3,800.	86.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.	220.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	3,400.	43.	ug/kg	1
03766	Dimethylphthalate	131-11-3	3,600.	86.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	3,700.	43.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	3,900.	86.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101150

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:50
Discard: 10/03/2003
TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
04637	1,3-Dinitrobenzene	99-65-0	3,700.	86.	ug/kg	1
04640	Hexachloropropene	1888-71-7	850.	130.	ug/kg	1
04642	Isosafrole	120-58-1	3,500.	86.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	10,000.	1,100.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	4,200.	86.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.	3,200.	ug/kg	1
04669	Safrole	94-59-7	3,800.	86.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	4,000.	86.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	3,900.	86.	ug/kg	1
04693	4-Chloroaniline	106-47-8	3,800.	43.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	3,600.	43.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	3,900.	43.	ug/kg	1
04696	2-Nitroaniline	88-74-4	3,900.	43.	ug/kg	1
04617	App. IX Semivolatiles con't					
01191	Acenaphthene	83-32-9	3,800.	43.	ug/kg	1
01192	4-Nitrophenol	100-02-7	4,400.	220.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	4,100.	86.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	3,600.	220.	ug/kg	1
03765	Acenaphthylene	208-96-8	3,600.	43.	ug/kg	1
03768	Fluorene	86-73-7	3,600.	43.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	3,700.	43.	ug/kg	1
03770	Diethylphthalate	84-66-2	3,700.	86.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	3,500.	43.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03773	4-Bromophenyl-phenylether	101-55-3	3,800.	43.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	3,800.	43.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	3,800.	43.	ug/kg	1
04632	Dimethoate	60-51-5	1,800.	43.	ug/kg	1
04648	1-Naphthylamine	134-32-7	3,200.	220.	ug/kg	1
04649	2-Naphthylamine	91-59-8	1,900.	220.	ug/kg	1
04661	5-Nitro-o-toluidine	99-55-8	2,600.	220.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	4,100.	86.	ug/kg	1
04664	Phenacetin	62-44-2	3,900.	86.	ug/kg	1

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04671	2,3,4,6-Tetrachlorophenol	58-90-2	4,200.		86.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	4,000.		86.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	1,200.		220.	ug/kg	1
04697	3-Nitroaniline	99-09-2	3,500.		86.	ug/kg	1
04698	Dibenzofuran	132-64-9	3,600.		43.	ug/kg	1
04700	4-Nitroaniline	100-01-6	3,300.		86.	ug/kg	1
04618	App. IX Semivolatiles con't						
00176	1,4-Dioxane	123-91-1	2,500.		130.	ug/kg	1
01194	Pentachlorophenol	87-86-5	2,800.		220.	ug/kg	1
01195	Pyrene	129-00-0	3,600.		43.	ug/kg	1
03775	Phenanthrene	85-01-8	3,800.		43.	ug/kg	1
03776	Anthracene	120-12-7	3,800.		43.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	3,800.		86.	ug/kg	1
03778	Fluoranthene	206-44-0	3,800.		43.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	3,500.		86.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	3,700.		43.	ug/kg	1
03782	Chrysene	218-01-9	3,900.		43.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	3,300.		86.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	3,600.		86.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	3,500.		86.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	3,900.		43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	4,100.		43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	3,900.		43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	3,800.		43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	3,900.		43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	3,700.		43.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	3,300.		86.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	3,000.		220.	ug/kg	1
04626	Chlorobenzilate	510-15-6	3,600.		43.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	150.	J	86.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	3,700.		43.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	1,400.		220.	ug/kg	1
04641	Isodrin	465-73-6	2,100.		43.	ug/kg	1
04643	Methapyrilene	91-80-5	660.		86.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	3,600.		86.	ug/kg	1

Lancaster Laboratories

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TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		430.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	3,700.		86.	ug/kg	1
04667	Pronamide	23950-58-5	3,800.		43.	ug/kg	1
04673	Thionazin	297-97-2	3,800.		86.	ug/kg	1
05782	4,4'-Methylenebis(2-chloroanil	101-14-4	3,000.		43.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recoveries of 1,4-naphthoquinone and 4-aminobiphenyl were above QC limits in the LCS.

The QC limits for aramite and a,a-dimethylphenethylamine are advisory.

07720 Appendix IX Volatiles

05443	Dichlorodifluoromethane	75-71-8	21.		3.	ug/kg	1
05444	Chloromethane	74-87-3	20.		3.	ug/kg	1
05445	Vinyl Chloride	75-01-4	19.		1.	ug/kg	1
05446	Bromomethane	74-83-9	19.		3.	ug/kg	1
05447	Chloroethane	75-00-3	20.		3.	ug/kg	1
05448	Trichlorofluoromethane	75-69-4	18.		3.	ug/kg	1
05449	1,1-Dichloroethene	75-35-4	18.		1.	ug/kg	1
05450	Methylene Chloride	75-09-2	21.		3.	ug/kg	1
05451	trans-1,2-Dichloroethene	156-60-5	19.		1.	ug/kg	1
05452	1,1-Dichloroethane	75-34-3	20.		1.	ug/kg	1
05454	cis-1,2-Dichloroethene	156-59-2	19.		1.	ug/kg	1
05455	Chloroform	67-66-3	20.		1.	ug/kg	1
05457	1,1,1-Trichloroethane	71-55-6	20.		1.	ug/kg	1
05458	Carbon Tetrachloride	56-23-5	18.		1.	ug/kg	1
05460	Benzene	71-43-2	19.		1.	ug/kg	1
05461	1,2-Dichloroethane	107-06-2	20.		1.	ug/kg	1
05462	Trichloroethene	79-01-6	18.		1.	ug/kg	1
06293	Acetone	67-64-1	210.		9.	ug/kg	1
06294	Carbon Disulfide	75-15-0	18.		1.	ug/kg	1
06296	2-Butanone	78-93-3	200.		5.	ug/kg	1
07586	Acrolein	107-02-8	110.	J	26.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101150

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Discard: 10/03/2003
TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
07587	Acrylonitrile	107-13-1	91.		5.	ug/kg	1
07704	Methyl Iodide	74-88-4	19.		4.	ug/kg	1
07705	Acetonitrile	75-05-8	100.	J	32.	ug/kg	1
07706	Allyl Chloride	107-05-1	17.		1.	ug/kg	1
07707	Vinyl Acetate	108-05-4	38.		3.	ug/kg	1
07708	2-Chloro-1,3-butadiene	126-99-8	18.		1.	ug/kg	1
07709	Propionitrile	107-12-0	160.		39.	ug/kg	1
07710	Methacrylonitrile	126-98-7	150.		6.	ug/kg	1
07711	Isobutyl Alcohol	78-83-1	490.		130.	ug/kg	1
07721	Appendix IX Volatiles cont'd						
05463	1,2-Dichloropropane	78-87-5	19.		1.	ug/kg	1
05464	Dibromomethane	74-95-3	19.		1.	ug/kg	1
05465	Bromodichloromethane	75-27-4	19.		1.	ug/kg	1
05466	Toluene	108-88-3	19.		1.	ug/kg	1
05467	1,1,2-Trichloroethane	79-00-5	20.		1.	ug/kg	1
05468	Tetrachloroethene	127-18-4	18.		1.	ug/kg	1
05470	Dibromochloromethane	124-48-1	19.		1.	ug/kg	1
05471	1,2-Dibromoethane	106-93-4	19.		1.	ug/kg	1
05472	Chlorobenzene	108-90-7	18.		1.	ug/kg	1
05473	1,1,1,2-Tetrachloroethane	630-20-6	19.		1.	ug/kg	1
05474	Ethylbenzene	100-41-4	18.		1.	ug/kg	1
05477	Styrene	100-42-5	17.		1.	ug/kg	1
05478	Bromoform	75-25-2	17.		1.	ug/kg	1
05480	1,1,2,2-Tetrachloroethane	79-34-5	19.		1.	ug/kg	1
05482	1,2,3-Trichloropropane	96-18-4	20.		1.	ug/kg	1
05495	1,2-Dibromo-3-chloropropane	96-12-8	18.		3.	ug/kg	1
06297	trans-1,3-Dichloropropene	10061-02-6	19.		1.	ug/kg	1
06298	cis-1,3-Dichloropropene	10061-01-5	19.		1.	ug/kg	1
06299	4-Methyl-2-pentanone	108-10-1	99.		4.	ug/kg	1
06300	2-Hexanone	591-78-6	130.		4.	ug/kg	1
06301	Xylene (Total)	1330-20-7	54.		1.	ug/kg	1
07712	Methyl Methacrylate	80-62-6	20.		1.	ug/kg	1
07714	Ethyl Methacrylate	97-63-2	18.		1.	ug/kg	1
07715	trans-1,4-Dichloro-2-butene	110-57-6	89.		13.	ug/kg	1
07716	Pentachloroethane	76-01-7	16.		1.	ug/kg	1

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 08:39	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/20/2003 17:22	Tessa R Marshall	1
06944	Antimony	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 19:17	Donna R Sackett	1
00118	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/21/2003 12:22	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/21/2003 12:22	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 12:22	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 12:22	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 12:22	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 14:13	Roy R Mellott Jr	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 15:05	Roy R Mellott Jr	1
07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/19/2003 14:13	Roy R Mellott Jr	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101150

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-E-TC-02-MSD Matrix Spike Dup Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02MSD

00374	GC/MS VOA Soil Prep	SW-846 5030A	2	08/19/2003 06:37	Roy R Mellott Jr	n.a.
00381	BNA Soil Extraction	SW-846 3550B	2	08/20/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 12:40	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101151

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:51
Discard: 10/03/2003
TOL-E-TC-02 Duplicate Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0371 J	0.0035	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.19	mg/kg	1
06935	Arsenic	7440-38-2	5.58	0.640	mg/kg	1
06936	Selenium	7782-49-2	0.985 J	0.602	mg/kg	1
06944	Antimony	7440-36-0	N.D.	0.845	mg/kg	1
06946	Barium	7440-39-3	71.7	0.0410	mg/kg	1
06947	Beryllium	7440-41-7	0.401 J	0.0756	mg/kg	1
06949	Cadmium	7440-43-9	0.593 J	0.0692	mg/kg	1
06951	Chromium	7440-47-3	13.6	0.256	mg/kg	1
06952	Cobalt	7440-48-4	5.11	0.179	mg/kg	1
06953	Copper	7440-50-8	12.9	0.243	mg/kg	1
06955	Lead	7439-92-1	22.6	1.01	mg/kg	1
06961	Nickel	7440-02-0	12.0	0.256	mg/kg	1
06966	Silver	7440-22-4	N.D.	0.192	mg/kg	1
06969	Tin	7440-31-5	3.36 J	0.525	mg/kg	1
06971	Vanadium	7440-62-2	23.5	0.205	mg/kg	1
06972	Zinc	7440-66-6	46.8	0.231	mg/kg	1
00118	Moisture	n.a.	22.7	0.50	%	1
00121	Moisture Duplicate	n.a.	22.3	0.50	%	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 08:36	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/20/2003 17:14	Tessa R Marshall	1
06944	Antimony	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101151

Collected:08/12/2003 11:45 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:51
Discard: 10/03/2003
TOL-E-TC-02 Duplicate Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC02 SDG#: XXX01-02DUP

06947	Beryllium	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 19:06	Donna R Sackett	1
00118	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
00121	Moisture Duplicate	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 12:40	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101152

Collected:08/12/2003 12:20 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:51
Discard: 10/03/2003
TOL-E-TC-03 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	N.D.	0.0037	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.23	mg/kg	1
06935	Arsenic	7440-38-2	2.29	0.662	mg/kg	1
06936	Selenium	7782-49-2	N.D.	0.622	mg/kg	1
06944	Antimony	7440-36-0	N.D.	0.874	mg/kg	1
06946	Barium	7440-39-3	17.2	0.0424	mg/kg	1
06947	Beryllium	7440-41-7	0.0993 J	0.0781	mg/kg	1
06949	Cadmium	7440-43-9	0.291 J	0.0715	mg/kg	1
06951	Chromium	7440-47-3	4.40	0.265	mg/kg	1
06952	Cobalt	7440-48-4	1.79	0.185	mg/kg	1
06953	Copper	7440-50-8	5.72	0.251	mg/kg	1
06955	Lead	7439-92-1	14.3	1.05	mg/kg	1
06961	Nickel	7440-02-0	3.28	0.265	mg/kg	1
06966	Silver	7440-22-4	N.D.	0.199	mg/kg	1
06969	Tin	7440-31-5	3.31 J	0.543	mg/kg	1
06971	Vanadium	7440-62-2	6.05	0.212	mg/kg	1
06972	Zinc	7440-66-6	44.2	0.238	mg/kg	1
00111	Moisture	n.a.	25.2	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

02198 Misc. Soil Appendix IX

02519	Aramite	140-57-8	N.D.	45.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.	45.	ug/kg	1

Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.

04615 Appendix IX Semivolatiles Soil

01185	Phenol	108-95-2	N.D.	45.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	45.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	45.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	45.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	89.	ug/kg	1

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101152

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TOL-E-TC-03 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03746	2-Nitrophenol	88-75-5	N.D.		45.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.		89.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.		45.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.		45.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.		45.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.		45.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.		45.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.		45.	ug/kg	1
03759	Isophorone	78-59-1	N.D.		45.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.		89.	ug/kg	1
04622	Aniline	62-53-3	N.D.		45.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.		220.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.		89.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.		45.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.		89.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.		89.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.		89.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.		89.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.		89.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.		89.	ug/kg	1
04668	Pyridine	110-86-1	N.D.		89.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.		89.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.		45.	ug/kg	1
04616	App. IX Semivolatiles con't						
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.		45.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.		89.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.		45.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.		45.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.		45.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.		890.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.		45.	ug/kg	1
03761	Naphthalene	91-20-3	170.	J	45.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.		89.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.		220.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.		45.	ug/kg	1

Lancaster Laboratories

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TOL-E-TC-03 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
03766	Dimethylphthalate	131-11-3	N.D.		89.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.		45.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.		89.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.		89.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.		130.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.		89.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.		1,100.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.		89.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.		3,300.	ug/kg	1
04669	Safrole	94-59-7	N.D.		89.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.		89.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.		89.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.		45.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	56.	J	45.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.		45.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.		45.	ug/kg	1
04617	App. IX Semivolatiles con't						
01191	Acenaphthene	83-32-9	150.	J	45.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.		220.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.		89.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		220.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.		45.	ug/kg	1
03768	Fluorene	86-73-7	160.	J	45.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.		45.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.		89.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.		45.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03773	4-Bromophenyl-phenylether	101-55-3	N.D.		45.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.		45.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.		45.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.		45.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.		220.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.		220.	ug/kg	1

Lancaster Laboratories

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TOL-E-TC-03 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04661	5-Nitro-o-toluidine	99-55-8	N.D.		220.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		89.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		89.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		89.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		89.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		220.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		89.	ug/kg	1
04698	Dibenzofuran	132-64-9	96.	J	45.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		89.	ug/kg	1
04618	App. IX Semivolatiles con't						
00176	1,4-Dioxane	123-91-1	N.D.		130.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		220.	ug/kg	1
01195	Pyrene	129-00-0	1,500.		45.	ug/kg	1
03775	Phenanthrene	85-01-8	1,400.		45.	ug/kg	1
03776	Anthracene	120-12-7	220.	J	45.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		89.	ug/kg	1
03778	Fluoranthene	206-44-0	1,900.		45.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	120.	J	89.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	700.		45.	ug/kg	1
03782	Chrysene	218-01-9	880.		45.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		89.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	760.		89.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		89.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	1,000.		45.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	430.	J	45.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	750.		45.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	540.		45.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	130.	J	45.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	510.		45.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		89.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		220.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		45.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		89.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		45.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		220.	ug/kg	1

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

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Barley Mill Plaza, Bldg. 27
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Wilmington DE 19805

ETC03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
04641	Isodrin	465-73-6	N.D.	45.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.	89.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.	89.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.	450.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.	89.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.	45.	ug/kg	1
04673	Thionazin	297-97-2	N.D.	89.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recoveries of 1,4-naphthoquinone and 4-aminobiphenyl were above QC limits in the LCS. Since these compounds were not detected in the sample, no further action was taken.

The QC limits for aramite and a,a-dimethylphenethylamine are advisory.

07720 Appendix IX Volatiles

05443	Dichlorodifluoromethane	75-71-8	N.D.	3.	ug/kg	0.99
05444	Chloromethane	74-87-3	N.D.	3.	ug/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.	1.	ug/kg	0.99
05446	Bromomethane	74-83-9	N.D.	3.	ug/kg	0.99
05447	Chloroethane	75-00-3	N.D.	3.	ug/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.	3.	ug/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.	1.	ug/kg	0.99
05450	Methylene Chloride	75-09-2	N.D.	3.	ug/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.	1.	ug/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.	1.	ug/kg	0.99
05455	Chloroform	67-66-3	N.D.	1.	ug/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.	1.	ug/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/kg	0.99
05460	Benzene	71-43-2	N.D.	1.	ug/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/kg	0.99
05462	Trichloroethene	79-01-6	N.D.	1.	ug/kg	0.99
06293	Acetone	67-64-1	N.D.	9.	ug/kg	0.99

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ETC03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06294	Carbon Disulfide	75-15-0	N.D.	1.	ug/kg	0.99
06296	2-Butanone	78-93-3	N.D.	5.	ug/kg	0.99
07586	Acrolein	107-02-8	N.D.	26.	ug/kg	0.99
07587	Acrylonitrile	107-13-1	N.D.	5.	ug/kg	0.99
07704	Methyl Iodide	74-88-4	N.D.	4.	ug/kg	0.99
07705	Acetonitrile	75-05-8	N.D.	33.	ug/kg	0.99
07706	Allyl Chloride	107-05-1	N.D.	1.	ug/kg	0.99
07707	Vinyl Acetate	108-05-4	N.D.	3.	ug/kg	0.99
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/kg	0.99
07709	Propionitrile	107-12-0	N.D.	40.	ug/kg	0.99
07710	Methacrylonitrile	126-98-7	N.D.	7.	ug/kg	0.99
07711	Isobutyl Alcohol	78-83-1	N.D.	130.	ug/kg	0.99
07721	Appendix IX Volatiles cont'd					
05463	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/kg	0.99
05464	Dibromomethane	74-95-3	N.D.	1.	ug/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	1.	ug/kg	0.99
05466	Toluene	108-88-3	N.D.	1.	ug/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	1.	ug/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	1.	ug/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	1.	ug/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/kg	0.99
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	0.99
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	1.	ug/kg	0.99
05477	Styrene	100-42-5	N.D.	1.	ug/kg	0.99
05478	Bromoform	75-25-2	N.D.	1.	ug/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/kg	0.99
05482	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/kg	0.99
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	3.	ug/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/kg	0.99
06299	4-Methyl-2-pentanone	108-10-1	N.D.	4.	ug/kg	0.99
06300	2-Hexanone	591-78-6	N.D.	4.	ug/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	0.99
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.99

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Lancaster Laboratories Sample No. SW 4101152

Collected:08/12/2003 12:20 by AD

Account Number: 07032

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Discard: 10/03/2003
TOL-E-TC-03 Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETC03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.99
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	13.	ug/kg	0.99
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.99

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 08:40	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/20/2003 17:31	Tessa R Marshall	1
06944	Antimony	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 20:28	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/21/2003 13:11	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/21/2003 13:11	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 13:11	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 13:11	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 13:11	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 16:50	Roy R Mellott Jr	0.99

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ETC03

07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/19/2003 16:50	Roy R Mellott Jr	0.99
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/19/2003 07:02	Anastasia Papadoplos	n.a.
00381	BNA Soil Extraction	SW-846 3550B	2	08/20/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 12:40	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Analysis Report

Lancaster Laboratories

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ETCFD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0424 J	0.0035	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.17	mg/kg	1
06935	Arsenic	7440-38-2	5.88	0.628	mg/kg	1
06936	Selenium	7782-49-2	N.D.	0.590	mg/kg	1
06944	Antimony	7440-36-0	N.D.	0.829	mg/kg	1
06946	Barium	7440-39-3	75.8	0.0402	mg/kg	1
06947	Beryllium	7440-41-7	0.452 J	0.0741	mg/kg	1
06949	Cadmium	7440-43-9	0.620 J	0.0678	mg/kg	1
06951	Chromium	7440-47-3	14.7	0.251	mg/kg	1
06952	Cobalt	7440-48-4	5.31	0.176	mg/kg	1
06953	Copper	7440-50-8	13.4	0.239	mg/kg	1
06955	Lead	7439-92-1	18.0	0.992	mg/kg	1
06961	Nickel	7440-02-0	13.0	0.251	mg/kg	1
06966	Silver	7440-22-4	N.D.	0.188	mg/kg	1
06969	Tin	7440-31-5	3.36 J	0.515	mg/kg	1
06971	Vanadium	7440-62-2	26.9	0.201	mg/kg	1
06972	Zinc	7440-66-6	46.3	0.226	mg/kg	1
00111	Moisture	n.a.	22.7	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

02198 Misc. Soil Appendix IX

02519	Aramite	140-57-8	N.D.	43.	ug/kg	1
04636	a,a-Dimethylphenethylamine	122-09-8	N.D.	43.	ug/kg	1

Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.

04615 Appendix IX Semivolatiles Soil

01185	Phenol	108-95-2	N.D.	43.	ug/kg	1
01186	2-Chlorophenol	95-57-8	N.D.	43.	ug/kg	1
01187	1,4-Dichlorobenzene	106-46-7	N.D.	43.	ug/kg	1
01188	N-Nitroso-di-n-propylamine	621-64-7	N.D.	43.	ug/kg	1
01463	4-Methylphenol	106-44-5	N.D.	86.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03746	2-Nitrophenol	88-75-5	N.D.	43.	ug/kg	1
03752	N-Nitrosodimethylamine	62-75-9	N.D.	86.	ug/kg	1
03753	bis(2-Chloroethyl)ether	111-44-4	N.D.	43.	ug/kg	1
03754	1,3-Dichlorobenzene	541-73-1	N.D.	43.	ug/kg	1
03755	1,2-Dichlorobenzene	95-50-1	N.D.	43.	ug/kg	1
03756	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	43.	ug/kg	1
03757	Hexachloroethane	67-72-1	N.D.	43.	ug/kg	1
03758	Nitrobenzene	98-95-3	N.D.	43.	ug/kg	1
03759	Isophorone	78-59-1	N.D.	43.	ug/kg	1
04619	Acetophenone	98-86-2	N.D.	86.	ug/kg	1
04622	Aniline	62-53-3	N.D.	43.	ug/kg	1
04623	Benzyl alcohol	100-51-6	N.D.	220.	ug/kg	1
04639	Ethyl methanesulfonate	62-50-0	N.D.	86.	ug/kg	1
04645	Methyl methanesulfonate	66-27-3	N.D.	43.	ug/kg	1
04655	N-Nitrosodiethylamine	55-18-5	N.D.	86.	ug/kg	1
04657	N-Nitrosomethylethylamine	10595-95-6	N.D.	86.	ug/kg	1
04658	N-Nitrosomorpholine	59-89-2	N.D.	86.	ug/kg	1
04659	N-Nitrosopiperidine	100-75-4	N.D.	86.	ug/kg	1
04660	N-Nitrosopyrrolidine	930-55-2	N.D.	86.	ug/kg	1
04666	2-Picoline	109-06-8	N.D.	86.	ug/kg	1
04668	Pyridine	110-86-1	N.D.	86.	ug/kg	1
04674	o-Toluidine	95-53-4	N.D.	86.	ug/kg	1
04690	2-Methylphenol	95-48-7	N.D.	43.	ug/kg	1
04616	App. IX Semivolatiles con't					
01189	1,2,4-Trichlorobenzene	120-82-1	N.D.	43.	ug/kg	1
01190	4-Chloro-3-methylphenol	59-50-7	N.D.	86.	ug/kg	1
03747	2,4-Dimethylphenol	105-67-9	N.D.	43.	ug/kg	1
03748	2,4-Dichlorophenol	120-83-2	N.D.	43.	ug/kg	1
03749	2,4,6-Trichlorophenol	88-06-2	N.D.	43.	ug/kg	1
03750	2,4-Dinitrophenol	51-28-5	N.D.	860.	ug/kg	1
03760	bis(2-Chloroethoxy)methane	111-91-1	N.D.	43.	ug/kg	1
03761	Naphthalene	91-20-3	N.D.	43.	ug/kg	1
03762	Hexachlorobutadiene	87-68-3	N.D.	86.	ug/kg	1
03763	Hexachlorocyclopentadiene	77-47-4	N.D.	220.	ug/kg	1
03764	2-Chloronaphthalene	91-58-7	N.D.	43.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
03766	Dimethylphthalate	131-11-3	N.D.	86.	ug/kg	1
03767	2,6-Dinitrotoluene	606-20-2	N.D.	43.	ug/kg	1
04631	2,6-Dichlorophenol	87-65-0	N.D.	86.	ug/kg	1
04637	1,3-Dinitrobenzene	99-65-0	N.D.	86.	ug/kg	1
04640	Hexachloropropene	1888-71-7	N.D.	130.	ug/kg	1
04642	Isosafrole	120-58-1	N.D.	86.	ug/kg	1
04647	1,4-Naphthoquinone	130-15-4	N.D.	1,100.	ug/kg	1
04654	N-Nitrosodi-n-butylamine	924-16-3	N.D.	86.	ug/kg	1
04665	1,4-Phenylenediamine	106-50-3	N.D.	3,200.	ug/kg	1
04669	Safrole	94-59-7	N.D.	86.	ug/kg	1
04670	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	86.	ug/kg	1
04676	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	86.	ug/kg	1
04693	4-Chloroaniline	106-47-8	N.D.	43.	ug/kg	1
04694	2-Methylnaphthalene	91-57-6	N.D.	43.	ug/kg	1
04695	2,4,5-Trichlorophenol	95-95-4	N.D.	43.	ug/kg	1
04696	2-Nitroaniline	88-74-4	N.D.	43.	ug/kg	1
04617	App. IX Semivolatiles con't					
01191	Acenaphthene	83-32-9	N.D.	43.	ug/kg	1
01192	4-Nitrophenol	100-02-7	N.D.	220.	ug/kg	1
01193	2,4-Dinitrotoluene	121-14-2	N.D.	86.	ug/kg	1
03751	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	220.	ug/kg	1
03765	Acenaphthylene	208-96-8	N.D.	43.	ug/kg	1
03768	Fluorene	86-73-7	N.D.	43.	ug/kg	1
03769	4-Chlorophenyl-phenylether	7005-72-3	N.D.	43.	ug/kg	1
03770	Diethylphthalate	84-66-2	N.D.	86.	ug/kg	1
03772	N-Nitrosodiphenylamine	86-30-6	N.D.	43.	ug/kg	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03773	4-Bromophenyl-phenylether	101-55-3	N.D.	43.	ug/kg	1
03774	Hexachlorobenzene	118-74-1	N.D.	43.	ug/kg	1
04629	Diallate TRANS/CIS	2303-16-4	N.D.	43.	ug/kg	1
04632	Dimethoate	60-51-5	N.D.	43.	ug/kg	1
04648	1-Naphthylamine	134-32-7	N.D.	220.	ug/kg	1
04649	2-Naphthylamine	91-59-8	N.D.	220.	ug/kg	1

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ETCFD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04661	5-Nitro-o-toluidine	99-55-8	N.D.		220.	ug/kg	1
04662	Pentachlorobenzene	608-93-5	N.D.		86.	ug/kg	1
04664	Phenacetin	62-44-2	N.D.		86.	ug/kg	1
04671	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.		86.	ug/kg	1
04672	Tetraethyldithiopyrophosphate	3689-24-5	N.D.		86.	ug/kg	1
04677	1,3,5-Trinitrobenzene	99-35-4	N.D.		220.	ug/kg	1
04697	3-Nitroaniline	99-09-2	N.D.		86.	ug/kg	1
04698	Dibenzofuran	132-64-9	N.D.		43.	ug/kg	1
04700	4-Nitroaniline	100-01-6	N.D.		86.	ug/kg	1
04618	App. IX Semivolatiles con't						
00176	1,4-Dioxane	123-91-1	N.D.		130.	ug/kg	1
01194	Pentachlorophenol	87-86-5	N.D.		220.	ug/kg	1
01195	Pyrene	129-00-0	170.	J	43.	ug/kg	1
03775	Phenanthrene	85-01-8	81.	J	43.	ug/kg	1
03776	Anthracene	120-12-7	N.D.		43.	ug/kg	1
03777	Di-n-butylphthalate	84-74-2	N.D.		86.	ug/kg	1
03778	Fluoranthene	206-44-0	220.	J	43.	ug/kg	1
03780	Butylbenzylphthalate	85-68-7	N.D.		86.	ug/kg	1
03781	Benzo(a)anthracene	56-55-3	73.	J	43.	ug/kg	1
03782	Chrysene	218-01-9	150.	J	43.	ug/kg	1
03783	3,3'-Dichlorobenzidine	91-94-1	N.D.		86.	ug/kg	1
03784	bis(2-Ethylhexyl)phthalate	117-81-7	110.	J	86.	ug/kg	1
03785	Di-n-octylphthalate	117-84-0	N.D.		86.	ug/kg	1
03786	Benzo(b)fluoranthene	205-99-2	190.	J	43.	ug/kg	1
03787	Benzo(k)fluoranthene	207-08-9	66.	J	43.	ug/kg	1
03788	Benzo(a)pyrene	50-32-8	100.	J	43.	ug/kg	1
03789	Indeno(1,2,3-cd)pyrene	193-39-5	110.	J	43.	ug/kg	1
03790	Dibenz(a,h)anthracene	53-70-3	N.D.		43.	ug/kg	1
03791	Benzo(g,h,i)perylene	191-24-2	100.	J	43.	ug/kg	1
04620	2-Acetylaminofluorene	53-96-3	N.D.		86.	ug/kg	1
04621	4-Aminobiphenyl	92-67-1	N.D.		220.	ug/kg	1
04626	Chlorobenzilate	510-15-6	N.D.		43.	ug/kg	1
04633	p-Dimethylaminoazobenzene	60-11-7	N.D.		86.	ug/kg	1
04634	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.		43.	ug/kg	1
04635	3,3'-Dimethylbenzidine	119-93-7	N.D.		220.	ug/kg	1

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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
04641	Isodrin	465-73-6	N.D.		43.	ug/kg	1
04643	Methapyrilene	91-80-5	N.D.		86.	ug/kg	1
04644	3-Methylcholanthrene	56-49-5	N.D.		86.	ug/kg	1
04653	4-Nitroquinoline-1-oxide	56-57-5	N.D.		430.	ug/kg	1
04663	Pentachloronitrobenzene	82-68-8	N.D.		86.	ug/kg	1
04667	Pronamide	23950-58-5	N.D.		43.	ug/kg	1
04673	Thionazin	297-97-2	N.D.		86.	ug/kg	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

The recoveries of 1,4-naphthoquinone and 4-aminobiphenyl were above QC limits in the LCS. Since these compounds were not detected in the sample, no further action was taken.

The QC limits for aramite and a,a-dimethylphenethylamine are advisory.

07720 Appendix IX Volatiles

05443	Dichlorodifluoromethane	75-71-8	N.D.		3.	ug/kg	0.99
05444	Chloromethane	74-87-3	N.D.		3.	ug/kg	0.99
05445	Vinyl Chloride	75-01-4	N.D.		1.	ug/kg	0.99
05446	Bromomethane	74-83-9	N.D.		3.	ug/kg	0.99
05447	Chloroethane	75-00-3	N.D.		3.	ug/kg	0.99
05448	Trichlorofluoromethane	75-69-4	N.D.		3.	ug/kg	0.99
05449	1,1-Dichloroethene	75-35-4	N.D.		1.	ug/kg	0.99
05450	Methylene Chloride	75-09-2	3.	J	3.	ug/kg	0.99
05451	trans-1,2-Dichloroethene	156-60-5	N.D.		1.	ug/kg	0.99
05452	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/kg	0.99
05454	cis-1,2-Dichloroethene	156-59-2	N.D.		1.	ug/kg	0.99
05455	Chloroform	67-66-3	N.D.		1.	ug/kg	0.99
05457	1,1,1-Trichloroethane	71-55-6	N.D.		1.	ug/kg	0.99
05458	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/kg	0.99
05460	Benzene	71-43-2	N.D.		1.	ug/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/kg	0.99
05462	Trichloroethene	79-01-6	N.D.		1.	ug/kg	0.99
06293	Acetone	67-64-1	20.	J	9.	ug/kg	0.99

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Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:52
Discard: 10/03/2003
TOL-E-TC-02-DUP Sediment Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETCFD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06294	Carbon Disulfide	75-15-0	N.D.	1.	ug/kg	0.99
06296	2-Butanone	78-93-3	N.D.	5.	ug/kg	0.99
07586	Acrolein	107-02-8	N.D.	26.	ug/kg	0.99
07587	Acrylonitrile	107-13-1	N.D.	5.	ug/kg	0.99
07704	Methyl Iodide	74-88-4	N.D.	4.	ug/kg	0.99
07705	Acetonitrile	75-05-8	N.D.	32.	ug/kg	0.99
07706	Allyl Chloride	107-05-1	N.D.	1.	ug/kg	0.99
07707	Vinyl Acetate	108-05-4	N.D.	3.	ug/kg	0.99
07708	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/kg	0.99
07709	Propionitrile	107-12-0	N.D.	38.	ug/kg	0.99
07710	Methacrylonitrile	126-98-7	N.D.	6.	ug/kg	0.99
07711	Isobutyl Alcohol	78-83-1	N.D.	130.	ug/kg	0.99
07721	Appendix IX Volatiles cont'd					
05463	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/kg	0.99
05464	Dibromomethane	74-95-3	N.D.	1.	ug/kg	0.99
05465	Bromodichloromethane	75-27-4	N.D.	1.	ug/kg	0.99
05466	Toluene	108-88-3	N.D.	1.	ug/kg	0.99
05467	1,1,2-Trichloroethane	79-00-5	N.D.	1.	ug/kg	0.99
05468	Tetrachloroethene	127-18-4	N.D.	1.	ug/kg	0.99
05470	Dibromochloromethane	124-48-1	N.D.	1.	ug/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/kg	0.99
05472	Chlorobenzene	108-90-7	N.D.	1.	ug/kg	0.99
05473	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	1.	ug/kg	0.99
05477	Styrene	100-42-5	N.D.	1.	ug/kg	0.99
05478	Bromoform	75-25-2	N.D.	1.	ug/kg	0.99
05480	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/kg	0.99
05482	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/kg	0.99
05495	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	3.	ug/kg	0.99
06297	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/kg	0.99
06298	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/kg	0.99
06299	4-Methyl-2-pentanone	108-10-1	N.D.	4.	ug/kg	0.99
06300	2-Hexanone	591-78-6	N.D.	4.	ug/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	1.	ug/kg	0.99
07712	Methyl Methacrylate	80-62-6	N.D.	1.	ug/kg	0.99

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4101153

Collected:08/12/2003 11:45 by AD

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DIBBLE PARK INVESTIGATION

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

ETCFD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
07714	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/kg	0.99
07715	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	13.	ug/kg	0.99
07716	Pentachloroethane	76-01-7	N.D.	1.	ug/kg	0.99

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	08/15/2003 08:44	Deborah A Krady	1
06925	Thallium	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06935	Arsenic	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06936	Selenium	SW-846 6010B	1	08/20/2003 17:35	Tessa R Marshall	1
06944	Antimony	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06946	Barium	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06947	Beryllium	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06951	Chromium	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06952	Cobalt	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06953	Copper	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06955	Lead	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06961	Nickel	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06966	Silver	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06969	Tin	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06971	Vanadium	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
06972	Zinc	SW-846 6010B	1	08/17/2003 20:33	Donna R Sackett	1
00111	Moisture	EPA 160.3 modified	1	08/14/2003 15:42	Scott W Freisher	1
02198	Misc. Soil Appendix IX	SW-846 8270C	1	08/21/2003 14:00	Joseph M Gambler	1
04615	Appendix IX Semivolatiles Soil	SW-846 8270C	1	08/21/2003 14:00	Joseph M Gambler	1
04616	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 14:00	Joseph M Gambler	1
04617	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 14:00	Joseph M Gambler	1
04618	App. IX Semivolatiles con't	SW-846 8270C	1	08/21/2003 14:00	Joseph M Gambler	1
07720	Appendix IX Volatiles	SW-846 8260B	1	08/19/2003 17:16	Roy R Mellott Jr	0.99

Lancaster Laboratories

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Wilmington DE 19805

ETCFD

07721	Appendix IX Volatiles cont'd	SW-846 8260B	1	08/19/2003 17:16	Roy R Mellott Jr	0.99
00374	GC/MS VOA Soil Prep	SW-846 5030A	1	08/19/2003 07:03	Anastasia Papadoplos	n.a.
00381	BNA Soil Extraction	SW-846 3550B	2	08/20/2003 10:00	Jessica Agosto	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	08/14/2003 12:40	Megan L Ross	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	08/14/2003 17:00	Megan L Ross	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101154

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TOL-W-TC-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	0.0138	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	0.0689	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0022	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0016	mg/l	1
07053	Copper	7440-50-8	0.0029 J	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	N.D.	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.0018 J	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.0178 J	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	N.D.	1.	ug/l	1
01267	Acetophenone	98-86-2	N.D.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	N.D.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	N.D.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	N.D.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	N.D.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	N.D.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	N.D.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	N.D.	2.	ug/l	1
01301	2-Picoline	109-06-8	N.D.	2.	ug/l	1
01306	o-Toluidine	95-53-4	N.D.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	N.D.	2.	ug/l	1
03920	Pyridine	110-86-1	N.D.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	ug/l	1

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WTC01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	N.D.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	N.D.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	N.D.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	N.D.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	N.D.	2.	ug/l	1
01283	Isosafrole	120-58-1	N.D.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	N.D.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	60.	ug/l	1
01303	Safrole	94-59-7	N.D.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	N.D.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	ug/l	1

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Wilmington DE 19805

WTC01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	ug/l	1
01311	App. IX Semivolatiles con't					
00438	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	2.	ug/l	1
01274	Dimethoate	60-51-5	N.D.	3.	ug/l	1
01287	1-Naphthylamine	134-32-7	N.D.	5.	ug/l	1
01288	2-Naphthylamine	91-59-8	N.D.	5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	N.D.	3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	N.D.	2.	ug/l	1
01299	Phenacetin	62-44-2	N.D.	2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	N.D.	1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	N.D.	5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	N.D.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	ug/l	1
01312	App. IX Semivolatiles con't					

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WTC01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	N.D.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	N.D.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	N.D.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	N.D.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	N.D.	5.	ug/l	1
01282	Isodrin	465-73-6	N.D.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	N.D.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	N.D.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	N.D.	2.	ug/l	1
01302	Pronamide	23950-58-5	N.D.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	N.D.	1.	ug/l	1
03368	Methapyrilene	91-80-5	N.D.	3.	ug/l	1
03370	Thionazin	297-97-2	N.D.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

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WTC01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS. Since 1,4-dioxane was not detected in the sample, no further action was taken.						
02424	Misc. Water Appendix IX						
02514	Aramite	140-57-8	N.D.		1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	N.D.		1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
06886	Appendix IX Volatiles						
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/l	1
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1.	ug/l	1
06302	Acetone	67-64-1	12.	J	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.		1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.		1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.		4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.		3.	ug/l	1
06888	Acrolein	107-02-8	N.D.		40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.		25.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101154

Collected:08/12/2003 14:15 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:52
Discard: 10/03/2003
TOL-W-TC-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC01

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:50	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 18:59	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07055	Lead	SW-846 6010B	1	08/19/2003 12:47	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 12:47	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 15:50	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 15:50	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 15:50	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 15:50	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 15:50	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 00:32	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 00:32	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 00:32	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101155

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TOL-W-TC-02 Unspiked Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	0.0127	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	0.0702	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0022	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0016	mg/l	1
07053	Copper	7440-50-8	0.0033 J	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	N.D.	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.0019 J	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.0179 J	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	3. J	1.	ug/l	1
01267	Acetophenone	98-86-2	N.D.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	N.D.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	N.D.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	N.D.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	N.D.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	N.D.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	N.D.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	N.D.	2.	ug/l	1
01301	2-Picoline	109-06-8	N.D.	2.	ug/l	1
01306	o-Toluidine	95-53-4	N.D.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	N.D.	2.	ug/l	1
03920	Pyridine	110-86-1	N.D.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	ug/l	1

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	N.D.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	N.D.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	N.D.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	N.D.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	N.D.	2.	ug/l	1
01283	Isosafrole	120-58-1	N.D.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	N.D.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	60.	ug/l	1
01303	Safrole	94-59-7	N.D.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	N.D.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	ug/l	1

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TOL-W-TC-02 Unspiked Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	ug/l	1
01311	App. IX Semivolatiles con't					
00438	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	2.	ug/l	1
01274	Dimethoate	60-51-5	N.D.	3.	ug/l	1
01287	1-Naphthylamine	134-32-7	N.D.	5.	ug/l	1
01288	2-Naphthylamine	91-59-8	N.D.	5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	N.D.	3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	N.D.	2.	ug/l	1
01299	Phenacetin	62-44-2	N.D.	2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	N.D.	1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	N.D.	5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	N.D.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	ug/l	1
01312	App. IX Semivolatiles con't					

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Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	N.D.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	N.D.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	N.D.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	N.D.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	N.D.	5.	ug/l	1
01282	Isodrin	465-73-6	N.D.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	N.D.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	N.D.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	N.D.	2.	ug/l	1
01302	Pronamide	23950-58-5	N.D.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	N.D.	1.	ug/l	1
03368	Methapyrilene	91-80-5	N.D.	3.	ug/l	1
03370	Thionazin	297-97-2	N.D.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101155

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:53
Discard: 10/03/2003
TOL-W-TC-02 Unspiked Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS. Since 1,4-dioxane was not detected in the sample, no further action was taken.						
02424	Misc. Water Appendix IX						
02514	Aramite	140-57-8	N.D.		1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	N.D.		1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
06886	Appendix IX Volatiles						
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/l	1
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1.	ug/l	1
06302	Acetone	67-64-1	17.	J	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.		1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.		1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.		4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.		2.	ug/l	1
06888	Acrolein	107-02-8	N.D.		40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.		25.	ug/l	1

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06896	1,4-Dioxane	123-91-1	N.D.	70.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

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Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03BKG

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:51	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 17:26	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07055	Lead	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 12:06	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 12:32	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 12:32	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 12:32	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 12:32	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 12:32	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 00:57	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 00:57	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 00:57	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101156

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
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Discard: 10/03/2003
TOL-W-TC-02-MS Matrix Spike Water Sample
DIBBLE PARK INVESTIGATION

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	0.0010	0.00016	mg/l	1
07022	Thallium	7440-28-0	1.99	0.0089	mg/l	1
07035	Arsenic	7440-38-2	1.97	0.0049	mg/l	1
07036	Selenium	7782-49-2	1.98	0.0047	mg/l	1
07044	Antimony	7440-36-0	0.517	0.0085	mg/l	1
07046	Barium	7440-39-3	2.06	0.00048	mg/l	1
07047	Beryllium	7440-41-7	0.0510	0.00034	mg/l	1
07049	Cadmium	7440-43-9	0.0508	0.00087	mg/l	1
07051	Chromium	7440-47-3	0.206	0.0022	mg/l	1
07052	Cobalt	7440-48-4	0.499	0.0016	mg/l	1
07053	Copper	7440-50-8	0.261	0.0021	mg/l	1
07055	Lead	7439-92-1	0.512	0.0093	mg/l	1
07061	Nickel	7440-02-0	0.495	0.0038	mg/l	1
07066	Silver	7440-22-4	0.0532	0.0018	mg/l	1
07069	Tin	7440-31-5	4.02	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.513	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.511	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	65.	1.	ug/l	1
01267	Acetophenone	98-86-2	74.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	83.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	63.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	83.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	81.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	80.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	85.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	86.	2.	ug/l	1
01301	2-Picoline	109-06-8	75.	2.	ug/l	1
01306	o-Toluidine	95-53-4	47.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	78.	2.	ug/l	1
03920	Pyridine	110-86-1	59.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	82.	1.	ug/l	1
03925	Phenol	108-95-2	49.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	88.	1.	ug/l	1

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Wilmington DE 19805

WTC02 SDG#: XXX01-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	67.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	75.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	63.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	64.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	65.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	89.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	59.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	75.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	77.	1.	ug/l	1
03944	Isophorone	78-59-1	76.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	73.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	80.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	91.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	81.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	67.	2.	ug/l	1
01283	Isosafrole	120-58-1	69.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	77.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	60.	ug/l	1
01303	Safrole	94-59-7	78.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	74.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	85.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	56.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	72.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	79.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	87.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	80.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	89.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	90.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	83.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	87.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	72.	1.	ug/l	1
03947	Naphthalene	91-20-3	73.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	67.	1.	ug/l	1

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Wilmington DE 19805

WTC02 SDG#: XXX01-03MS

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	120.		5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	71.		1.	ug/l	1
03952	Dimethylphthalate	131-11-3	59.		2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	77.		1.	ug/l	1
01311	App. IX Semivolatiles con't						
00438	2,3,4,6-Tetrachlorophenol	58-90-2	90.		2.	ug/l	1
01274	Dimethoate	60-51-5	27.		3.	ug/l	1
01287	1-Naphthylamine	134-32-7	50.		5.	ug/l	1
01288	2-Naphthylamine	91-59-8	49.		5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	53.		3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	84.		2.	ug/l	1
01299	Phenacetin	62-44-2	86.		2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	79.		1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	62.		5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	74.		1.	ug/l	1
03879	Dibenzofuran	132-64-9	75.		1.	ug/l	1
03908	3-Nitroaniline	99-09-2	73.		1.	ug/l	1
03909	4-Nitroaniline	100-01-6	67.		1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	39.	J	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	50.		10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	74.		5.	ug/l	1
03951	Acenaphthylene	208-96-8	75.		1.	ug/l	1
03954	Acenaphthene	83-32-9	77.		1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	85.		1.	ug/l	1
03956	Fluorene	86-73-7	73.		1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	76.		1.	ug/l	1
03958	Diethylphthalate	84-66-2	73.		2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	70.		2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03961	4-Bromophenyl-phenylether	101-55-3	75.		1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	78.		1.	ug/l	1
01312	App. IX Semivolatiles con't						

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WTC02 SDG#: XXX01-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	74.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	41.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	59.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	69.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	55.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	25.	5.	ug/l	1
01282	Isodrin	465-73-6	82.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	80.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	380.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	77.	2.	ug/l	1
01302	Pronamide	23950-58-5	80.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	77.	1.	ug/l	1
03368	Methapyrilene	91-80-5	13.	3.	ug/l	1
03370	Thionazin	297-97-2	80.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	48.	3.	ug/l	1
03963	Phenanthrene	85-01-8	75.	1.	ug/l	1
03964	Anthracene	120-12-7	80.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	78.	2.	ug/l	1
03966	Fluoranthene	206-44-0	79.	1.	ug/l	1
03967	Pyrene	129-00-0	70.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	70.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	78.	1.	ug/l	1
03971	Chrysene	218-01-9	83.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	62.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	74.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	67.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	76.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	80.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	79.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	79.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	84.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	78.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101156

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:54
Discard: 10/03/2003
TOL-W-TC-02-MS Matrix Spike Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MS

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS.						
02424	Misc. Water Appendix IX						
02514	Aramite	140-57-8	64.		1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	63.		1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
06886	Appendix IX Volatiles						
05384	Dichlorodifluoromethane	75-71-8	25.		2.	ug/l	1
05385	Chloromethane	74-87-3	24.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	25.		1.	ug/l	1
05387	Bromomethane	74-83-9	23.		1.	ug/l	1
05388	Chloroethane	75-00-3	25.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	23.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	24.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	24.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	24.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	25.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	20.		0.8	ug/l	1
05396	Chloroform	67-66-3	20.		0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	19.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	21.		1.	ug/l	1
05401	Benzene	71-43-2	21.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	20.		1.	ug/l	1
05403	Trichloroethene	79-01-6	20.		1.	ug/l	1
06302	Acetone	67-64-1	150.		6.	ug/l	1
06303	Carbon Disulfide	75-15-0	27.		1.	ug/l	1
06305	2-Butanone	78-93-3	120.		3.	ug/l	1
06874	Methyl Iodide	74-88-4	25.		1.	ug/l	1
06875	Acrylonitrile	107-13-1	100.		4.	ug/l	1
06876	Vinyl Acetate	108-05-4	160.		2.	ug/l	1
06888	Acrolein	107-02-8	80.	J	40.	ug/l	1
06889	Acetonitrile	75-05-8	160.		25.	ug/l	1
06890	Allyl Chloride	107-05-1	23.		1.	ug/l	1

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06891	2-Chloro-1,3-butadiene	126-99-8	25.	1.	ug/l	1
06892	Propionitrile	107-12-0	140.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	160.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	390.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	21.	1.	ug/l	1
05405	Dibromomethane	74-95-3	20.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	19.	1.	ug/l	1
05407	Toluene	108-88-3	20.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	20.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	21.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	20.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	18.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	20.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	21.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	20.	0.8	ug/l	1
05418	Styrene	100-42-5	21.	1.	ug/l	1
05419	Bromoform	75-25-2	20.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	19.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	20.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	16.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	20.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	19.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	84.	3.	ug/l	1
06309	2-Hexanone	591-78-6	81.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	62.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	83.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	19.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	19.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	22.	1.	ug/l	1

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MS

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:53	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 17:42	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07055	Lead	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 12:23	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 13:22	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 13:22	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 13:22	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 13:22	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 13:22	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 01:20	Marc S Neal	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 02:08	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 01:20	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 01:20	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101157

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	0.00098	0.00016	mg/l	1
07022	Thallium	7440-28-0	2.03	0.0089	mg/l	1
07035	Arsenic	7440-38-2	2.00	0.0049	mg/l	1
07036	Selenium	7782-49-2	2.00	0.0047	mg/l	1
07044	Antimony	7440-36-0	0.516	0.0085	mg/l	1
07046	Barium	7440-39-3	2.11	0.00048	mg/l	1
07047	Beryllium	7440-41-7	0.0517	0.00034	mg/l	1
07049	Cadmium	7440-43-9	0.0513	0.00087	mg/l	1
07051	Chromium	7440-47-3	0.209	0.0022	mg/l	1
07052	Cobalt	7440-48-4	0.508	0.0016	mg/l	1
07053	Copper	7440-50-8	0.269	0.0021	mg/l	1
07055	Lead	7439-92-1	0.520	0.0093	mg/l	1
07061	Nickel	7440-02-0	0.506	0.0038	mg/l	1
07066	Silver	7440-22-4	0.0615	0.0018	mg/l	1
07069	Tin	7440-31-5	4.08	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.524	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.525	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	72.	1.	ug/l	1
01267	Acetophenone	98-86-2	81.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	86.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	64.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	86.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	83.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	81.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	87.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	89.	2.	ug/l	1
01301	2-Picoline	109-06-8	76.	2.	ug/l	1
01306	o-Toluidine	95-53-4	52.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	80.	2.	ug/l	1
03920	Pyridine	110-86-1	59.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	85.	1.	ug/l	1
03925	Phenol	108-95-2	51.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	91.	1.	ug/l	1

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WTC02 SDG#: XXX01-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	68.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	81.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	69.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	67.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	69.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	95.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	64.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	82.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	83.	1.	ug/l	1
03944	Isophorone	78-59-1	81.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	75.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	84.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	91.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	92.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	68.	2.	ug/l	1
01283	Isosafrole	120-58-1	75.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	79.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	60.	ug/l	1
01303	Safrole	94-59-7	82.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	81.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	87.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	60.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	76.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	89.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	93.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	83.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	91.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	91.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	88.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	92.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	76.	1.	ug/l	1
03947	Naphthalene	91-20-3	78.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	69.	1.	ug/l	1

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CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	130.		5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	76.		1.	ug/l	1
03952	Dimethylphthalate	131-11-3	63.		2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	85.		1.	ug/l	1
01311	App. IX Semivolatiles con't						
00438	2,3,4,6-Tetrachlorophenol	58-90-2	94.		2.	ug/l	1
01274	Dimethoate	60-51-5	29.		3.	ug/l	1
01287	1-Naphthylamine	134-32-7	58.		5.	ug/l	1
01288	2-Naphthylamine	91-59-8	54.		5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	59.		3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	89.		2.	ug/l	1
01299	Phenacetin	62-44-2	92.		2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	84.		1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	69.		5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	82.		1.	ug/l	1
03879	Dibenzofuran	132-64-9	82.		1.	ug/l	1
03908	3-Nitroaniline	99-09-2	79.		1.	ug/l	1
03909	4-Nitroaniline	100-01-6	76.		1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	46.	J	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	55.		10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	80.		5.	ug/l	1
03951	Acenaphthylene	208-96-8	81.		1.	ug/l	1
03954	Acenaphthene	83-32-9	84.		1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	92.		1.	ug/l	1
03956	Fluorene	86-73-7	78.		1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	82.		1.	ug/l	1
03958	Diethylphthalate	84-66-2	78.		2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	77.		2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03961	4-Bromophenyl-phenylether	101-55-3	83.		1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	84.		1.	ug/l	1
01312	App. IX Semivolatiles con't						

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	82.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	43.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	62.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	77.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	62.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	30.	5.	ug/l	1
01282	Isodrin	465-73-6	90.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	87.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	450.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	83.	2.	ug/l	1
01302	Pronamide	23950-58-5	87.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	74.	1.	ug/l	1
03368	Methapyrilene	91-80-5	15.	3.	ug/l	1
03370	Thionazin	297-97-2	87.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	52.	3.	ug/l	1
03963	Phenanthrene	85-01-8	80.	1.	ug/l	1
03964	Anthracene	120-12-7	83.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	84.	2.	ug/l	1
03966	Fluoranthene	206-44-0	86.	1.	ug/l	1
03967	Pyrene	129-00-0	78.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	74.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	85.	1.	ug/l	1
03971	Chrysene	218-01-9	87.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	67.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	80.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	73.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	86.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	84.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	84.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	83.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	89.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	80.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101157

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:55
Discard: 10/03/2003
TOL-W-TC-02-MSD Matrix Spike Dup Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS.						
02424	Misc. Water Appendix IX						
02514	Aramite	140-57-8	63.		1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	67.		1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
06886	Appendix IX Volatiles						
05384	Dichlorodifluoromethane	75-71-8	26.		2.	ug/l	1
05385	Chloromethane	74-87-3	26.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	27.		1.	ug/l	1
05387	Bromomethane	74-83-9	25.		1.	ug/l	1
05388	Chloroethane	75-00-3	26.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	24.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	26.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	25.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	25.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	25.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	21.		0.8	ug/l	1
05396	Chloroform	67-66-3	20.		0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	20.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	21.		1.	ug/l	1
05401	Benzene	71-43-2	22.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	20.		1.	ug/l	1
05403	Trichloroethene	79-01-6	20.		1.	ug/l	1
06302	Acetone	67-64-1	140.		6.	ug/l	1
06303	Carbon Disulfide	75-15-0	28.		1.	ug/l	1
06305	2-Butanone	78-93-3	120.		3.	ug/l	1
06874	Methyl Iodide	74-88-4	25.		1.	ug/l	1
06875	Acrylonitrile	107-13-1	100.		4.	ug/l	1
06876	Vinyl Acetate	108-05-4	160.		2.	ug/l	1
06888	Acrolein	107-02-8	86.	J	40.	ug/l	1
06889	Acetonitrile	75-05-8	160.		25.	ug/l	1
06890	Allyl Chloride	107-05-1	25.		1.	ug/l	1

Lancaster Laboratories

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Discard: 10/03/2003
TOL-W-TC-02-MSD Matrix Spike Dup Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06891	2-Chloro-1,3-butadiene	126-99-8	26.	1.	ug/l	1
06892	Propionitrile	107-12-0	130.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	160.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	360.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	21.	1.	ug/l	1
05405	Dibromomethane	74-95-3	20.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	19.	1.	ug/l	1
05407	Toluene	108-88-3	21.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	20.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	21.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	20.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	19.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	21.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	22.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	21.	0.8	ug/l	1
05418	Styrene	100-42-5	22.	1.	ug/l	1
05419	Bromoform	75-25-2	21.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	19.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	19.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	17.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	20.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	20.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	85.	3.	ug/l	1
06309	2-Hexanone	591-78-6	84.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	63.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	85.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	19.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	20.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	21.	1.	ug/l	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101157

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Account Number: 07032

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Discard: 10/03/2003
TOL-W-TC-02-MSD Matrix Spike Dup Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03MSD

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:54	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 17:48	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07055	Lead	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 12:29	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 14:11	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 14:11	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 14:11	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 14:11	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 14:11	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 01:44	Marc S Neal	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 02:32	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 01:44	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 01:44	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101158

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:56
Discard: 10/03/2003
TOL-W-TC-02 Duplicate Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	0.0135	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	0.0596	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	0.0022 J	0.0022	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0016	mg/l	1
07053	Copper	7440-50-8	0.0027 J	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	N.D.	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.0026 J	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.0115 J	0.0041	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:58	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 17:37	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07055	Lead	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101158

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:56
Discard: 10/03/2003
TOL-W-TC-02 Duplicate Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC02 SDG#: XXX01-03DUP

07061	Nickel	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 12:17	Tessa R Marshall	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101159

Collected:08/12/2003 14:40 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:56
Discard: 10/03/2003
TOL-W-TC-03 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	0.0056 J	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	0.0841	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0022	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0016	mg/l	1
07053	Copper	7440-50-8	0.0048 J	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	0.0054 J	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	N.D.	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.0028 J	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.0200 J	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	N.D.	1.	ug/l	1
01267	Acetophenone	98-86-2	N.D.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	N.D.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	N.D.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	N.D.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	N.D.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	N.D.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	N.D.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	N.D.	2.	ug/l	1
01301	2-Picoline	109-06-8	N.D.	2.	ug/l	1
01306	o-Toluidine	95-53-4	N.D.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	N.D.	2.	ug/l	1
03920	Pyridine	110-86-1	N.D.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	ug/l	1

Lancaster Laboratories

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Discard: 10/03/2003
TOL-W-TC-03 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	N.D.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	N.D.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	N.D.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	N.D.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	N.D.	2.	ug/l	1
01283	Isosafrole	120-58-1	N.D.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	N.D.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	58.	ug/l	1
01303	Safrole	94-59-7	N.D.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	N.D.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101159

Collected:08/12/2003 14:40 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:56
Discard: 10/03/2003
TOL-W-TC-03 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	ug/l	1
01311	App. IX Semivolatiles con't					
00438	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	2.	ug/l	1
01274	Dimethoate	60-51-5	N.D.	3.	ug/l	1
01287	1-Naphthylamine	134-32-7	N.D.	5.	ug/l	1
01288	2-Naphthylamine	91-59-8	N.D.	5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	N.D.	3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	N.D.	2.	ug/l	1
01299	Phenacetin	62-44-2	N.D.	2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	N.D.	1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	N.D.	5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	N.D.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	ug/l	1
01312	App. IX Semivolatiles con't					

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Barley Mill Plaza, Bldg. 27
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Wilmington DE 19805

WTC03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	N.D.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	N.D.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	N.D.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	N.D.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	N.D.	5.	ug/l	1
01282	Isodrin	465-73-6	N.D.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	N.D.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	N.D.	19.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	N.D.	2.	ug/l	1
01302	Pronamide	23950-58-5	N.D.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	N.D.	1.	ug/l	1
03368	Methapyrilene	91-80-5	N.D.	3.	ug/l	1
03370	Thionazin	297-97-2	N.D.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

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DIBBLE PARK INVESTIGATION

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Wilmington DE 19805

WTC03

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS. Since 1,4-dioxane was not detected in the sample, no further action was taken.						
02424	Misc. Water Appendix IX						
02514	Aramite	140-57-8	N.D.		1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	N.D.		1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
06886	Appendix IX Volatiles						
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/l	1
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1.	ug/l	1
06302	Acetone	67-64-1	7.	J	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.		1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.		1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.		4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.		2.	ug/l	1
06888	Acrolein	107-02-8	N.D.		40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.		25.	ug/l	1

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DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

Lancaster Laboratories

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TOL-W-TC-03 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTC03

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 06:59	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 19:04	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07055	Lead	SW-846 6010B	1	08/19/2003 13:04	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 13:04	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 16:40	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 16:40	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 16:40	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 16:40	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 16:40	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 02:56	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 02:56	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 02:56	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101160

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:57
Discard: 10/03/2003
TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	0.0167	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	0.0680	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0022	mg/l	1
07052	Cobalt	7440-48-4	0.0016 J	0.0016	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	0.0058 J	0.0050	mg/l	1
07071	Vanadium	7440-62-2	0.0029 J	0.0017	mg/l	1
07072	Zinc	7440-66-6	0.0127 J	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	2. J	1.	ug/l	1
01267	Acetophenone	98-86-2	N.D.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	N.D.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	N.D.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	N.D.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	N.D.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	N.D.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	N.D.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	N.D.	2.	ug/l	1
01301	2-Picoline	109-06-8	N.D.	2.	ug/l	1
01306	o-Toluidine	95-53-4	N.D.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	N.D.	2.	ug/l	1
03920	Pyridine	110-86-1	N.D.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101160

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:57
Discard: 10/03/2003
TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	N.D.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	N.D.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	N.D.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	N.D.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	N.D.	2.	ug/l	1
01283	Isosafrole	120-58-1	N.D.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	N.D.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	59.	ug/l	1
01303	Safrole	94-59-7	N.D.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	N.D.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101160

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:57
Discard: 10/03/2003
TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	ug/l	1
01311	App. IX Semivolatiles con't					
00438	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	2.	ug/l	1
01274	Dimethoate	60-51-5	N.D.	3.	ug/l	1
01287	1-Naphthylamine	134-32-7	N.D.	5.	ug/l	1
01288	2-Naphthylamine	91-59-8	N.D.	5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	N.D.	3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	N.D.	2.	ug/l	1
01299	Phenacetin	62-44-2	N.D.	2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	N.D.	1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	N.D.	5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	N.D.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	ug/l	1
01312	App. IX Semivolatiles con't					

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TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	N.D.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	N.D.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	N.D.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	N.D.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	N.D.	5.	ug/l	1
01282	Isodrin	465-73-6	N.D.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	N.D.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	N.D.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	N.D.	2.	ug/l	1
01302	Pronamide	23950-58-5	N.D.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	N.D.	1.	ug/l	1
03368	Methapyrilene	91-80-5	N.D.	3.	ug/l	1
03370	Thionazin	297-97-2	N.D.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

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TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS. Since 1,4-dioxane was not detected in the sample, no further action was taken.						
02424	Misc. Water Appendix IX						
02514	Aramite	140-57-8	N.D.		1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	N.D.		1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.						
06886	Appendix IX Volatiles						
05384	Dichlorodifluoromethane	75-71-8	N.D.		2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1.	ug/l	1
05401	Benzene	71-43-2	N.D.		0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1.	ug/l	1
06302	Acetone	67-64-1	12.	J	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.		1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.		1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.		4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.		2.	ug/l	1
06888	Acrolein	107-02-8	N.D.		40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.		25.	ug/l	1

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TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101160

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Discard: 10/03/2003
TOL-W-TC-02-DUP Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCFD

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 07:01	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 19:10	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07055	Lead	SW-846 6010B	1	08/19/2003 13:10	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 13:10	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 17:29	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 17:29	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 17:29	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 17:29	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 17:29	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 03:20	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 03:20	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 03:20	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101161

Collected:08/12/2003 15:10 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:58
Discard: 10/03/2003
TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00016	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0089	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0049	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0047	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0085	mg/l	1
07046	Barium	7440-39-3	N.D.	0.00048	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.00034	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00087	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0022	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0016	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0021	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0093	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0038	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0018	mg/l	1
07069	Tin	7440-31-5	N.D.	0.0050	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0017	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0041	mg/l	1
01309	Appendix IX Semivolatiles					
00925	Aniline	62-53-3	N.D.	1.	ug/l	1
01267	Acetophenone	98-86-2	N.D.	2.	ug/l	1
01279	Ethyl methanesulfonate	62-50-0	N.D.	2.	ug/l	1
01285	Methyl methanesulfonate	66-27-3	N.D.	1.	ug/l	1
01291	N-Nitrosodiethylamine	55-18-5	N.D.	2.	ug/l	1
01292	N-Nitrosomethylethylamine	10595-95-6	N.D.	2.	ug/l	1
01293	N-Nitrosomorpholine	59-89-2	N.D.	2.	ug/l	1
01294	N-Nitrosopiperidine	100-75-4	N.D.	2.	ug/l	1
01295	N-Nitrosopyrrolidine	930-55-2	N.D.	2.	ug/l	1
01301	2-Picoline	109-06-8	N.D.	2.	ug/l	1
01306	o-Toluidine	95-53-4	N.D.	1.	ug/l	1
01453	4-Methylphenol	106-44-5	N.D.	2.	ug/l	1
03920	Pyridine	110-86-1	N.D.	2.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101161

Collected:08/12/2003 15:10 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:58
Discard: 10/03/2003
TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03935	N-Nitrosodimethylamine	62-75-9	N.D.	2.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	ug/l	1
03940	bis(2-Chloroisopropyl)ether	108-60-1	N.D.	1.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	ug/l	1
04712	Benzyl alcohol	100-51-6	N.D.	5.	ug/l	1
01310	App. IX Semivolatiles con't					
01273	2,6-Dichlorophenol	87-65-0	N.D.	2.	ug/l	1
01278	1,3-Dinitrobenzene	99-65-0	N.D.	2.	ug/l	1
01281	Hexachloropropene	1888-71-7	N.D.	2.	ug/l	1
01283	Isosafrole	120-58-1	N.D.	1.	ug/l	1
01286	1,4-Naphthoquinone	130-15-4	N.D.	10.	ug/l	1
01290	N-Nitrosodi-n-butylamine	924-16-3	N.D.	2.	ug/l	1
01300	1,4-Phenylenediamine	106-50-3	N.D.	61.	ug/l	1
01303	Safrole	94-59-7	N.D.	2.	ug/l	1
01304	1,2,4,5-Tetrachlorobenzene	95-94-3	N.D.	2.	ug/l	1
01307	O,O,O-Triethylphosphorothioate	126-68-1	N.D.	2.	ug/l	1
03871	4-Chloroaniline	106-47-8	N.D.	1.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101161

Collected:08/12/2003 15:10 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:58
Discard: 10/03/2003
TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	ug/l	1
01311	App. IX Semivolatiles con't					
00438	2,3,4,6-Tetrachlorophenol	58-90-2	N.D.	2.	ug/l	1
01274	Dimethoate	60-51-5	N.D.	3.	ug/l	1
01287	1-Naphthylamine	134-32-7	N.D.	5.	ug/l	1
01288	2-Naphthylamine	91-59-8	N.D.	5.	ug/l	1
01296	5-Nitro-o-toluidine	99-55-8	N.D.	3.	ug/l	1
01297	Pentachlorobenzene	608-93-5	N.D.	2.	ug/l	1
01299	Phenacetin	62-44-2	N.D.	2.	ug/l	1
01305	Tetraethyldithiopyrophosphate	3689-24-5	N.D.	1.	ug/l	1
01308	1,3,5-Trinitrobenzene	99-35-4	N.D.	5.	ug/l	1
01313	Diallate trans/cis	2303-16-4	N.D.	1.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	ug/l	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	ug/l	1
01312	App. IX Semivolatiles con't					

Lancaster Laboratories

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CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01268	2-Acetylaminofluorene	53-96-3	N.D.	2.	ug/l	1
01269	4-Aminobiphenyl	92-67-1	N.D.	2.	ug/l	1
01272	Chlorobenzilate	510-15-6	N.D.	3.	ug/l	1
01275	p-Dimethylaminoazobenzene	60-11-7	N.D.	2.	ug/l	1
01276	7,12-Dimethylbenz[a]anthracene	57-97-6	N.D.	2.	ug/l	1
01277	3,3'-Dimethylbenzidine	119-93-7	N.D.	5.	ug/l	1
01282	Isodrin	465-73-6	N.D.	1.	ug/l	1
01284	3-Methylcholanthrene	56-49-5	N.D.	2.	ug/l	1
01289	4-Nitroquinoline-1-oxide	56-57-5	N.D.	20.	ug/l	1
01298	Pentachloronitrobenzene	82-68-8	N.D.	2.	ug/l	1
01302	Pronamide	23950-58-5	N.D.	1.	ug/l	1
02591	1,4-Dioxane	123-91-1	N.D.	1.	ug/l	1
03368	Methapyrilene	91-80-5	N.D.	3.	ug/l	1
03370	Thionazin	297-97-2	N.D.	2.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	ug/l	1

The QC window for 1,4-phenylenediamine is advisory due to the erratic performance of the compound. The quantitated value of 1,4-phenylenediamine is estimated.

Lancaster Laboratories

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TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
	The recovery of 1,4-dioxane was above QC limits in the LCS. Since 1,4-dioxane was not detected in the sample, no further action was taken.					
	Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.					
02424	Misc. Water Appendix IX					
02514	Aramite	140-57-8	N.D.	1.	ug/l	1
03369	a,a-Dimethylphenethylamine	122-09-8	N.D.	1.	ug/l	1
	Aramite and a,a-dimethylphenethylamine were calibrated using a single point standard at 50 ppm.					
06886	Appendix IX Volatiles					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101161

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Account Number: 07032

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Discard: 10/03/2003
TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.	25.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

Lancaster Laboratories

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Discard: 10/03/2003
TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	08/15/2003 07:02	Deborah A Krady	1
07022	Thallium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07035	Arsenic	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07036	Selenium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07044	Antimony	SW-846 6010B	2	08/15/2003 19:26	John P Hook	1
07046	Barium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07047	Beryllium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07049	Cadmium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07051	Chromium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07052	Cobalt	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07053	Copper	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07055	Lead	SW-846 6010B	1	08/19/2003 13:16	Tessa R Marshall	1
07061	Nickel	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07066	Silver	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07069	Tin	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07071	Vanadium	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
07072	Zinc	SW-846 6010B	2	08/19/2003 13:16	Tessa R Marshall	1
01309	Appendix IX Semivolatiles	SW-846 8270C	1	08/15/2003 18:19	Joseph M Gambler	1
01310	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 18:19	Joseph M Gambler	1
01311	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 18:19	Joseph M Gambler	1
01312	App. IX Semivolatiles con't	SW-846 8270C	1	08/15/2003 18:19	Joseph M Gambler	1
02424	Misc. Water Appendix IX	SW-846 8270C	1	08/15/2003 18:19	Joseph M Gambler	1
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 03:44	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 03:44	Marc S Neal	1
00813	BNA Water Extraction	SW-846 3510C	1	08/14/2003 12:05	Ginelle L Haines	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 03:44	Marc S Neal	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	08/15/2003 09:23	Denise K Conners	1

Lancaster Laboratories

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TOL-K-TC-EQBLK-01 Water Sample
DIBBLE PARK INVESTIGATION

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Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCEB

05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	08/14/2003 21:40	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	08/14/2003 20:00	Nelli S Markaryan	1

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101162

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:59
Discard: 10/03/2003
TOL-K-TBLK Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
06886	Appendix IX Volatiles					
05384	Dichlorodifluoromethane	75-71-8	N.D.	2.	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1.	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1.	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1.	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1.	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2.	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2.	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1.	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1.	ug/l	1
06302	Acetone	67-64-1	N.D.	6.	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1.	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3.	ug/l	1
06874	Methyl Iodide	74-88-4	N.D.	1.	ug/l	1
06875	Acrylonitrile	107-13-1	N.D.	4.	ug/l	1
06876	Vinyl Acetate	108-05-4	N.D.	2.	ug/l	1
06888	Acrolein	107-02-8	N.D.	40.	ug/l	1
06889	Acetonitrile	75-05-8	N.D.	25.	ug/l	1
06890	Allyl Chloride	107-05-1	N.D.	1.	ug/l	1
06891	2-Chloro-1,3-butadiene	126-99-8	N.D.	1.	ug/l	1
06892	Propionitrile	107-12-0	N.D.	30.	ug/l	1
06893	Methacrylonitrile	126-98-7	N.D.	10.	ug/l	1
06894	Isobutyl Alcohol	78-83-1	N.D.	100.	ug/l	1
06887	Appendix IX Volatiles					

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101162

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:59
Discard: 10/03/2003
TOL-K-TBLK Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05404	1,2-Dichloropropane	78-87-5	N.D.	1.	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1.	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1.	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	ug/l	1
05418	Styrene	100-42-5	N.D.	1.	ug/l	1
05419	Bromoform	75-25-2	N.D.	1.	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1.	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2.	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1.	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1.	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3.	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	ug/l	1
06877	trans-1,4-Dichloro-2-butene	110-57-6	N.D.	15.	ug/l	1
06895	Methyl Methacrylate	80-62-6	N.D.	1.	ug/l	1
06897	Ethyl Methacrylate	97-63-2	N.D.	1.	ug/l	1
06898	Pentachloroethane	76-01-7	N.D.	1.	ug/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06886	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 04:08	Marc S Neal	1
06887	Appendix IX Volatiles	SW-846 8260B	1	08/17/2003 04:08	Marc S Neal	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	08/17/2003 04:08	Marc S Neal	n.a.

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4101162

Collected:08/12/2003 13:50 by AD

Account Number: 07032

Submitted: 08/13/2003 09:15
Reported: 09/02/2003 at 10:59
Discard: 10/03/2003
TOL-K-TBLK Water Sample
DIBBLE PARK INVESTIGATION

CRG-E.I.DuPont de Nemours & Co
Barley Mill Plaza, Bldg. 27
Lancaster Pike & Route 141
Wilmington DE 19805

WTCTB

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 032265705008	Sample number(s): 4101146,4101154-4101161							
Thallium	N.D.	0.0089	mg/l	102		92-107		
Arsenic	N.D.	0.0049	mg/l	100		92-109		
Selenium	N.D.	0.0047	mg/l	101		91-111		
Barium	N.D.	0.00048	mg/l	102		93-109		
Beryllium	N.D.	0.00034	mg/l	104		96-111		
Cadmium	N.D.	0.00087	mg/l	106		97-111		
Chromium	N.D.	0.0022	mg/l	105		95-112		
Cobalt	N.D.	0.0016	mg/l	103		95-109		
Copper	N.D.	0.0021	mg/l	105		92-110		
Lead	N.D.	0.0093	mg/l	104		93-110		
Nickel	N.D.	0.0038	mg/l	103		93-110		
Silver	N.D.	0.0018	mg/l	106		96-114		
Tin	N.D.	0.0050	mg/l	103		95-112		
Vanadium	N.D.	0.0017	mg/l	104		96-109		
Zinc	N.D.	0.0041	mg/l	104		94-112		
Batch number: 032265708001	Sample number(s): 4101148-4101153							
Thallium	N.D.	0.930	mg/kg	107		96-112		
Arsenic	N.D.	0.500	mg/kg	101		90-110		
Selenium	N.D.	0.470	mg/kg	107		94-114		
Antimony	N.D.	0.660	mg/kg	133		13-194		
Barium	N.D.	0.0320	mg/kg	110		89-113		
Beryllium	N.D.	0.0590	mg/kg	102		89-111		
Cadmium	N.D.	0.0540	mg/kg	97		88-106		
Chromium	N.D.	0.200	mg/kg	107		92-114		
Cobalt	N.D.	0.140	mg/kg	101		88-107		
Copper	N.D.	0.190	mg/kg	108		90-111		
Lead	N.D.	0.790	mg/kg	100		86-109		
Nickel	N.D.	0.200	mg/kg	100		89-107		
Silver	N.D.	0.150	mg/kg	126		75-167		
Tin	1.86 J	0.410	mg/kg	103		87-109		
Vanadium	N.D.	0.160	mg/kg	128		83-146		
Zinc	0.323 J	0.180	mg/kg	101		91-110		
Batch number: 032265708002	Sample number(s): 4101132-4101145,4101147							
Thallium	N.D.	0.930	mg/kg	107		96-112		
Arsenic	N.D.	0.500	mg/kg	102		90-110		
Selenium	N.D.	0.470	mg/kg	108		94-114		
Antimony	N.D.	0.660	mg/kg	127		13-194		
Barium	N.D.	0.0320	mg/kg	106		89-113		
Beryllium	N.D.	0.0590	mg/kg	101		89-111		
Cadmium	N.D.	0.0540	mg/kg	98		88-106		
Chromium	N.D.	0.200	mg/kg	105		92-114		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cobalt	N.D.	0.140	mg/kg	99		88-107		
Copper	N.D.	0.190	mg/kg	99		90-111		
Lead	N.D.	0.790	mg/kg	101		86-109		
Nickel	N.D.	0.200	mg/kg	100		89-107		
Silver	N.D.	0.150	mg/kg	132		75-167		
Tin	1.93 J	0.410	mg/kg	101		87-109		
Vanadium	N.D.	0.160	mg/kg	126		83-146		
Zinc	0.560 J	0.180	mg/kg	99		91-110		
Batch number: 032265711001	Sample number(s): 4101148-4101153							
Mercury	N.D.	0.0028	mg/kg	81		68-118		
Batch number: 032265711002	Sample number(s): 4101132-4101145,4101147							
Mercury	N.D.	0.0028	mg/kg	82		68-118		
Batch number: 032265713002	Sample number(s): 4101146,4101154-4101161							
Mercury	N.D.	0.00016	mg/l	104		84-124		
Batch number: 03226820001A	Sample number(s): 4101132-4101142							
Moisture				100	100	99-101	0	1
Batch number: 03226820001B	Sample number(s): 4101143-4101145,4101147-4101153							
Moisture				100	100	99-101	0	1
Batch number: 03226SLA026	Sample number(s): 4101132-4101134,4101136-4101145,4101147							
1,4-Dioxane	N.D.	100.	ug/kg	55		34-64		
Phenol	N.D.	33.	ug/kg	96		67-108		
2-Chlorophenol	N.D.	33.	ug/kg	89		75-106		
1,4-Dichlorobenzene	N.D.	33.	ug/kg	78		63-101		
N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	92		64-108		
1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	88		72-102		
4-Chloro-3-methylphenol	N.D.	67.	ug/kg	108		72-117		
Acenaphthene	N.D.	33.	ug/kg	88		76-109		
4-Nitrophenol	N.D.	170.	ug/kg	97		55-133		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	96		75-118		
Pentachlorophenol	N.D.	170.	ug/kg	70		49-107		
Pyrene	N.D.	33.	ug/kg	81		71-110		
4-Methylphenol	N.D.	67.	ug/kg	100		36-148		
Aramite	N.D.	33.	ug/kg	72		70-130		
2-Nitrophenol	N.D.	33.	ug/kg	91		76-111		
2,4-Dimethylphenol	N.D.	33.	ug/kg	95		68-103		
2,4-Dichlorophenol	N.D.	33.	ug/kg	93		76-104		
2,4,6-Trichlorophenol	N.D.	33.	ug/kg	91		76-109		
2,4-Dinitrophenol	N.D.	670.	ug/kg	86		21-120		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	91		41-121		

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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodimethylamine	N.D.	67.	ug/kg	91		59-110		
bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	86		66-104		
1,3-Dichlorobenzene	N.D.	33.	ug/kg	81		62-105		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	79		65-101		
bis(2-Chloroisopropyl)ether	N.D.	33.	ug/kg	103		67-137		
Hexachloroethane	N.D.	33.	ug/kg	83		64-105		
Nitrobenzene	N.D.	33.	ug/kg	91		71-107		
Isophorone	N.D.	33.	ug/kg	90		71-105		
bis(2-Chloroethoxy)methane	N.D.	33.	ug/kg	103		75-114		
Naphthalene	N.D.	33.	ug/kg	87		73-103		
Hexachlorobutadiene	N.D.	67.	ug/kg	88		69-108		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	28		14-144		
2-Chloronaphthalene	N.D.	33.	ug/kg	83		74-106		
Acenaphthylene	N.D.	33.	ug/kg	87		69-107		
Dimethylphthalate	N.D.	67.	ug/kg	87		76-108		
2,6-Dinitrotoluene	N.D.	33.	ug/kg	89		75-108		
Fluorene	N.D.	33.	ug/kg	84		66-115		
4-Chlorophenyl-phenylether	N.D.	33.	ug/kg	85		70-108		
Diethylphthalate	N.D.	67.	ug/kg	90		76-110		
N-Nitrosodiphenylamine	N.D.	33.	ug/kg	82		67-105		
4-Bromophenyl-phenylether	N.D.	33.	ug/kg	87		74-110		
Hexachlorobenzene	N.D.	33.	ug/kg	90		72-110		
Phenanthrene	N.D.	33.	ug/kg	84		70-107		
Anthracene	N.D.	33.	ug/kg	90		71-107		
Di-n-butylphthalate	N.D.	67.	ug/kg	94		74-109		
Fluoranthene	N.D.	33.	ug/kg	90		69-107		
Butylbenzylphthalate	N.D.	67.	ug/kg	88		75-117		
Benzo(a)anthracene	N.D.	33.	ug/kg	91		74-107		
Chrysene	N.D.	33.	ug/kg	96		72-109		
3,3'-Dichlorobenzidine	N.D.	67.	ug/kg	83		9-101		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	88		70-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	81		68-117		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	92		71-113		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	90		75-112		
Benzo(a)pyrene	N.D.	33.	ug/kg	91		79-113		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	86		74-113		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	95		81-124		
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	89		74-119		
Acetophenone	N.D.	67.	ug/kg	90		64-107		
2-Acetylaminofluorene	N.D.	67.	ug/kg	87		79-107		
4-Aminobiphenyl	N.D.	170.	ug/kg	26		9-43		
Aniline	N.D.	33.	ug/kg	72		40-95		
Benzyl alcohol	N.D.	170.	ug/kg	94		60-112		
Chlorobenzilate	N.D.	33.	ug/kg	90		78-116		
Diallate TRANS/CIS	N.D.	33.	ug/kg	89		78-115		

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(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dichlorophenol	N.D.	67.	ug/kg	95		78-105		
Dimethoate	N.D.	33.	ug/kg	46		1-94		
p-Dimethylaminoazobenzene	N.D.	67.	ug/kg	71		31-116		
7,12-Dimethylbenz[a]anthracene	N.D.	33.	ug/kg	87		71-109		
3,3'-Dimethylbenzidine	N.D.	170.	ug/kg	46		22-73		
a,a-Dimethylphenethylamine	N.D.	33.	ug/kg	72		70-130		
1,3-Dinitrobenzene	N.D.	67.	ug/kg	94		74-113		
Ethyl methanesulfonate	N.D.	67.	ug/kg	91		72-103		
Hexachloropropene	N.D.	100.	ug/kg	85		55-116		
Isodrin	N.D.	33.	ug/kg	108		71-126		
Isosafrole	N.D.	67.	ug/kg	83		73-94		
Methapyrilene	N.D.	67.	ug/kg	18		2-161		
3-Methylcholanthrene	N.D.	67.	ug/kg	96		82-111		
Methyl methanesulfonate	N.D.	33.	ug/kg	80		40-106		
1,4-Naphthoquinone	N.D.	830.	ug/kg	78*		25-63		
1-Naphthylamine	N.D.	170.	ug/kg	32		8-90		
2-Naphthylamine	N.D.	170.	ug/kg	6		5-40		
4-Nitroquinoline-1-oxide	N.D.	330.	ug/kg	56		10-58		
N-Nitrosodi-n-butylamine	N.D.	67.	ug/kg	106		60-108		
N-Nitrosodiethylamine	N.D.	67.	ug/kg	90		67-106		
N-Nitrosomethylethylamine	N.D.	67.	ug/kg	90		63-109		
N-Nitrosomorpholine	N.D.	67.	ug/kg	90		79-109		
N-Nitrosopiperidine	N.D.	67.	ug/kg	96		78-103		
N-Nitrosopyrrolidine	N.D.	67.	ug/kg	98		68-111		
5-Nitro-o-toluidine	N.D.	170.	ug/kg	44		31-56		
Pentachlorobenzene	N.D.	67.	ug/kg	96		72-103		
Pentachloronitrobenzene	N.D.	67.	ug/kg	94		69-129		
Phenacetin	N.D.	67.	ug/kg	97		71-127		
1,4-Phenylenediamine	N.D.	2,500.	ug/kg	32*		70-130		
2-Picoline	N.D.	67.	ug/kg	80		58-93		
Pronamide	N.D.	33.	ug/kg	94		72-112		
Pyridine	N.D.	67.	ug/kg	69		44-88		
Safrole	N.D.	67.	ug/kg	93		76-100		
1,2,4,5-Tetrachlorobenzene	N.D.	67.	ug/kg	89		67-117		
2,3,4,6-Tetrachlorophenol	N.D.	67.	ug/kg	104		74-117		
Tetraethyldithiopyrophosphate	N.D.	67.	ug/kg	96		71-120		
Thionazin	N.D.	67.	ug/kg	91		82-103		
o-Toluidine	N.D.	67.	ug/kg	50		22-91		
O,O,O-Triethylphosphorothioate	N.D.	67.	ug/kg	98		77-105		
1,3,5-Trinitrobenzene	N.D.	170.	ug/kg	42		5-91		
2-Methylphenol	N.D.	33.	ug/kg	87		70-103		
4-Chloroaniline	N.D.	33.	ug/kg	69		1-105		
2-Methylnaphthalene	N.D.	33.	ug/kg	85		70-102		
2,4,5-Trichlorophenol	N.D.	33.	ug/kg	95		76-110		
2-Nitroaniline	N.D.	33.	ug/kg	95		76-117		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
3-Nitroaniline	N.D.	67.	ug/kg	63		28-131		
Dibenzofuran	N.D.	33.	ug/kg	84		72-103		
4-Nitroaniline	N.D.	67.	ug/kg	67		52-105		
Batch number: 03226WAA026	Sample number(s): 4101146,4101154-4101157,4101159-4101161							
2,3,4,6-Tetrachlorophenol	N.D.	2.	ug/l	109		69-119		
Aniline	N.D.	1.	ug/l	76		35-102		
Acetophenone	N.D.	2.	ug/l	88		65-102		
2-Acetylaminofluorene	N.D.	2.	ug/l	83		71-114		
4-Aminobiphenyl	N.D.	2.	ug/l	46		11-69		
Chlorobenzilate	N.D.	3.	ug/l	79		56-123		
2,6-Dichlorophenol	N.D.	2.	ug/l	93		70-112		
Dimethoate	N.D.	3.	ug/l	77		3-109		
p-Dimethylaminoazobenzene	N.D.	2.	ug/l	79		54-108		
7,12-Dimethylbenz[a]anthracene	N.D.	2.	ug/l	65		54-98		
3,3'-Dimethylbenzidine	N.D.	5.	ug/l	32		20-71		
1,3-Dinitrobenzene	N.D.	2.	ug/l	96		71-120		
Ethyl methanesulfonate	N.D.	2.	ug/l	89		63-108		
Hexachloropropene	N.D.	2.	ug/l	67		26-107		
Isodrin	N.D.	1.	ug/l	93		66-117		
Isosafrole	N.D.	1.	ug/l	81		60-103		
3-Methylcholanthrene	N.D.	2.	ug/l	90		71-113		
Methyl methanesulfonate	N.D.	1.	ug/l	65		40-84		
1,4-Naphthoquinone	N.D.	10.	ug/l	54		10-187		
1-Naphthylamine	N.D.	5.	ug/l	65		5-130		
2-Naphthylamine	N.D.	5.	ug/l	56		5-104		
4-Nitroquinoline-1-oxide	N.D.	20.	ug/l	112		20-113		
N-Nitrosodi-n-butylamine	N.D.	2.	ug/l	86		52-105		
N-Nitrosodiethylamine	N.D.	2.	ug/l	88		64-110		
N-Nitrosomethylethylamine	N.D.	2.	ug/l	88		56-113		
N-Nitrosomorpholine	N.D.	2.	ug/l	81		57-112		
N-Nitrosopiperidine	N.D.	2.	ug/l	92		70-110		
N-Nitrosopyrrolidine	N.D.	2.	ug/l	92		59-107		
5-Nitro-o-toluidine	N.D.	3.	ug/l	68		36-95		
Pentachlorobenzene	N.D.	2.	ug/l	97		63-110		
Pentachloronitrobenzene	N.D.	2.	ug/l	90		74-119		
Phenacetin	N.D.	2.	ug/l	91		66-126		
1,4-Phenylenediamine	N.D.	60.	ug/l	0*		70-130		
2-Picoline	N.D.	2.	ug/l	83		52-96		
Pronamide	N.D.	1.	ug/l	89		71-114		
Safrole	N.D.	2.	ug/l	89		58-113		
1,2,4,5-Tetrachlorobenzene	N.D.	2.	ug/l	86		58-110		
Tetraethyldithiopyrophosphate	N.D.	1.	ug/l	91		62-128		
o-Toluidine	N.D.	1.	ug/l	60		18-104		
O,O,O-Triethylphosphorothioate	N.D.	2.	ug/l	96		62-115		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,3,5-Trinitrobenzene	N.D.	5.	ug/l	90		41-116		
Diallate trans/cis	N.D.	1.	ug/l	84		60-129		
4-Methylphenol	N.D.	2.	ug/l	84		23-139		
Aramite	N.D.	1.	ug/l	83		70-130		
1,4-Dioxane	N.D.	1.	ug/l	81*		44-74		
Methapyrilene	N.D.	3.	ug/l	13		3-137		
a,a-Dimethylphenethylamine	N.D.	1.	ug/l	77		70-130		
Thionazin	N.D.	2.	ug/l	90		67-115		
4-Chloroaniline	N.D.	1.	ug/l	65		13-113		
Dibenzofuran	N.D.	1.	ug/l	86		70-111		
2-Methylnaphthalene	N.D.	1.	ug/l	81		60-111		
2-Nitroaniline	N.D.	1.	ug/l	93		79-115		
3-Nitroaniline	N.D.	1.	ug/l	85		39-118		
4-Nitroaniline	N.D.	1.	ug/l	81		61-105		
Pyridine	N.D.	2.	ug/l	64		20-90		
2,4,5-Trichlorophenol	N.D.	1.	ug/l	97		70-115		
2-Chlorophenol	N.D.	1.	ug/l	84		63-112		
Phenol	N.D.	1.	ug/l	53		24-65		
2-Nitrophenol	N.D.	1.	ug/l	91		72-115		
2,4-Dimethylphenol	N.D.	1.	ug/l	88		62-104		
2,4-Dichlorophenol	N.D.	1.	ug/l	91		72-110		
4-Chloro-3-methylphenol	N.D.	1.	ug/l	98		72-110		
2,4,6-Trichlorophenol	N.D.	1.	ug/l	94		73-111		
2,4-Dinitrophenol	N.D.	20.	ug/l	83		48-122		
4-Nitrophenol	N.D.	10.	ug/l	62		22-72		
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	87		62-123		
Pentachlorophenol	N.D.	3.	ug/l	71		53-114		
N-Nitrosodimethylamine	N.D.	2.	ug/l	68		39-84		
bis(2-Chloroethyl)ether	N.D.	1.	ug/l	88		62-109		
1,3-Dichlorobenzene	N.D.	1.	ug/l	69		40-104		
1,4-Dichlorobenzene	N.D.	1.	ug/l	69		42-104		
1,2-Dichlorobenzene	N.D.	1.	ug/l	72		45-103		
bis(2-Chloroisopropyl)ether	N.D.	1.	ug/l	105		68-139		
Hexachloroethane	N.D.	1.	ug/l	62		22-102		
N-Nitroso-di-n-propylamine	N.D.	1.	ug/l	87		63-109		
Nitrobenzene	N.D.	1.	ug/l	87		63-112		
Isophorone	N.D.	1.	ug/l	85		71-107		
bis(2-Chloroethoxy)methane	N.D.	1.	ug/l	98		74-120		
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	78		49-107		
Naphthalene	N.D.	1.	ug/l	82		60-111		
Hexachlorobutadiene	N.D.	1.	ug/l	66		20-111		
Hexachlorocyclopentadiene	N.D.	5.	ug/l	69		8-126		
2-Chloronaphthalene	N.D.	1.	ug/l	82		65-108		
Acenaphthylene	N.D.	1.	ug/l	88		61-108		
Dimethylphthalate	N.D.	2.	ug/l	85		41-117		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,6-Dinitrotoluene	N.D.	1.	ug/l	90		74-109		
Acenaphthene	N.D.	1.	ug/l	89		72-116		
2,4-Dinitrotoluene	N.D.	1.	ug/l	96		76-120		
Fluorene	N.D.	1.	ug/l	86		65-115		
4-Chlorophenyl-phenylether	N.D.	1.	ug/l	88		68-108		
Diethylphthalate	N.D.	2.	ug/l	92		70-108		
N-Nitrosodiphenylamine	N.D.	2.	ug/l	78		67-106		
4-Bromophenyl-phenylether	N.D.	1.	ug/l	83		74-106		
Hexachlorobenzene	N.D.	1.	ug/l	88		71-110		
Phenanthrene	N.D.	1.	ug/l	83		73-112		
Anthracene	N.D.	1.	ug/l	88		73-110		
Di-n-butylphthalate	N.D.	2.	ug/l	89		75-107		
Fluoranthene	N.D.	1.	ug/l	88		71-107		
Pyrene	N.D.	1.	ug/l	78		73-117		
Butylbenzylphthalate	N.D.	2.	ug/l	81		75-115		
Benzo(a)anthracene	N.D.	1.	ug/l	87		77-114		
Chrysene	N.D.	1.	ug/l	90		75-113		
3,3'-Dichlorobenzidine	N.D.	1.	ug/l	72		30-108		
bis(2-Ethylhexyl)phthalate	N.D.	2.	ug/l	81		71-120		
Di-n-octylphthalate	N.D.	2.	ug/l	75		70-117		
Benzo(b)fluoranthene	N.D.	1.	ug/l	85		75-116		
Benzo(k)fluoranthene	N.D.	1.	ug/l	89		77-115		
Benzo(a)pyrene	N.D.	1.	ug/l	91		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	1.	ug/l	87		74-116		
Dibenz(a,h)anthracene	N.D.	1.	ug/l	94		80-124		
Benzo(g,h,i)perylene	N.D.	1.	ug/l	85		74-117		
2-Methylphenol	N.D.	1.	ug/l	80		56-105		
Benzyl alcohol	N.D.	5.	ug/l	84		54-100		
Batch number: 032271848001	Sample number(s): 4101146,4101154-4101161							
Antimony	N.D.	0.0085	mg/l	103		94-112		
Batch number: 03231SLB026	Sample number(s): 4101148-4101150,4101152-4101153							
1,4-Dioxane	N.D.	100.	ug/kg	61		34-64		
Phenol	N.D.	33.	ug/kg	96		67-108		
2-Chlorophenol	N.D.	33.	ug/kg	86		75-106		
1,4-Dichlorobenzene	N.D.	33.	ug/kg	77		63-101		
N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	88		64-108		
1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	92		72-102		
4-Chloro-3-methylphenol	N.D.	67.	ug/kg	111		72-117		
Acenaphthene	N.D.	33.	ug/kg	88		76-109		
4-Nitrophenol	N.D.	170.	ug/kg	105		55-133		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	96		75-118		
Pentachlorophenol	N.D.	170.	ug/kg	69		49-107		
Pyrene	N.D.	33.	ug/kg	80		71-110		

*- Outside of specification
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(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Methylphenol	N.D.	67.	ug/kg	93		36-148		
Aramite	N.D.	33.	ug/kg	58*		70-130		
2-Nitrophenol	N.D.	33.	ug/kg	91		76-111		
2,4-Dimethylphenol	N.D.	33.	ug/kg	91		68-103		
2,4-Dichlorophenol	N.D.	33.	ug/kg	96		76-104		
2,4,6-Trichlorophenol	N.D.	33.	ug/kg	94		76-109		
2,4-Dinitrophenol	N.D.	670.	ug/kg	88		21-120		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	83		41-121		
N-Nitrosodimethylamine	N.D.	67.	ug/kg	93		59-110		
bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	88		66-104		
1,3-Dichlorobenzene	N.D.	33.	ug/kg	80		62-105		
1,2-Dichlorobenzene	N.D.	33.	ug/kg	78		65-101		
bis(2-Chloroisopropyl)ether	N.D.	33.	ug/kg	106		67-137		
Hexachloroethane	N.D.	33.	ug/kg	81		64-105		
Nitrobenzene	N.D.	33.	ug/kg	94		71-107		
Isophorone	N.D.	33.	ug/kg	89		71-105		
bis(2-Chloroethoxy)methane	N.D.	33.	ug/kg	101		75-114		
Naphthalene	N.D.	33.	ug/kg	84		73-103		
Hexachlorobutadiene	N.D.	67.	ug/kg	93		69-108		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	17		14-144		
2-Chloronaphthalene	N.D.	33.	ug/kg	82		74-106		
Acenaphthylene	N.D.	33.	ug/kg	87		69-107		
Dimethylphthalate	N.D.	67.	ug/kg	86		76-108		
2,6-Dinitrotoluene	N.D.	33.	ug/kg	88		75-108		
Fluorene	N.D.	33.	ug/kg	86		66-115		
4-Chlorophenyl-phenylether	N.D.	33.	ug/kg	86		70-108		
Diethylphthalate	N.D.	67.	ug/kg	90		76-110		
N-Nitrosodiphenylamine	N.D.	33.	ug/kg	80		67-105		
4-Bromophenyl-phenylether	N.D.	33.	ug/kg	88		74-110		
Hexachlorobenzene	N.D.	33.	ug/kg	91		72-110		
Phenanthrene	N.D.	33.	ug/kg	85		70-107		
Anthracene	N.D.	33.	ug/kg	86		71-107		
Di-n-butylphthalate	N.D.	67.	ug/kg	89		74-109		
Fluoranthene	N.D.	33.	ug/kg	86		69-107		
Butylbenzylphthalate	N.D.	67.	ug/kg	84		75-117		
Benzo(a)anthracene	N.D.	33.	ug/kg	90		74-107		
Chrysene	N.D.	33.	ug/kg	95		72-109		
3,3'-Dichlorobenzidine	N.D.	67.	ug/kg	83		9-101		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	86		70-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	74		68-117		
Benzo(b)fluoranthene	N.D.	33.	ug/kg	85		71-113		
Benzo(k)fluoranthene	N.D.	33.	ug/kg	90		75-112		
Benzo(a)pyrene	N.D.	33.	ug/kg	90		79-113		
Indeno(1,2,3-cd)pyrene	N.D.	33.	ug/kg	89		74-113		
Dibenz(a,h)anthracene	N.D.	33.	ug/kg	94		81-124		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	N.D.	33.	ug/kg	89		74-119		
Acetophenone	N.D.	67.	ug/kg	87		64-107		
2-Acetylaminofluorene	N.D.	67.	ug/kg	84		79-107		
4-Aminobiphenyl	N.D.	170.	ug/kg	51*		9-43		
Aniline	N.D.	33.	ug/kg	86		40-95		
Benzyl alcohol	N.D.	170.	ug/kg	90		60-112		
Chlorobenzilate	N.D.	33.	ug/kg	84		78-116		
Diallate TRANS/CIS	N.D.	33.	ug/kg	84		78-115		
2,6-Dichlorophenol	N.D.	67.	ug/kg	97		78-105		
Dimethoate	N.D.	33.	ug/kg	36		1-94		
p-Dimethylaminoazobenzene	N.D.	67.	ug/kg	46		31-116		
7,12-Dimethylbenz[a]anthracene	N.D.	33.	ug/kg	84		71-109		
3,3'-Dimethylbenzidine	N.D.	170.	ug/kg	53		22-73		
a,a-Dimethylphenethylamine	N.D.	33.	ug/kg	59*		70-130		
1,3-Dinitrobenzene	N.D.	67.	ug/kg	91		74-113		
Ethyl methanesulfonate	N.D.	67.	ug/kg	87		72-103		
Hexachloropropene	N.D.	100.	ug/kg	83		55-116		
Isodrin	N.D.	33.	ug/kg	101		71-126		
Isosafrole	N.D.	67.	ug/kg	84		73-94		
Methapyrilene	N.D.	67.	ug/kg	18		2-161		
3-Methylcholanthrene	N.D.	67.	ug/kg	92		82-111		
Methyl methanesulfonate	N.D.	33.	ug/kg	78		40-106		
1,4-Naphthoquinone	N.D.	830.	ug/kg	75*		25-63		
1-Naphthylamine	N.D.	170.	ug/kg	51		8-90		
2-Naphthylamine	N.D.	170.	ug/kg	19		5-40		
4-Nitroquinoline-1-oxide	N.D.	330.	ug/kg	28		10-58		
N-Nitrosodi-n-butylamine	N.D.	67.	ug/kg	89		60-108		
N-Nitrosodiethylamine	N.D.	67.	ug/kg	83		67-106		
N-Nitrosomethylethylamine	N.D.	67.	ug/kg	86		63-109		
N-Nitrosomorpholine	N.D.	67.	ug/kg	86		79-109		
N-Nitrosopiperidine	N.D.	67.	ug/kg	95		78-103		
N-Nitrosopyrrolidine	N.D.	67.	ug/kg	95		68-111		
5-Nitro-o-toluidine	N.D.	170.	ug/kg	45		31-56		
Pentachlorobenzene	N.D.	67.	ug/kg	98		72-103		
Pentachloronitrobenzene	N.D.	67.	ug/kg	92		69-129		
Phenacetin	N.D.	67.	ug/kg	92		71-127		
1,4-Phenylenediamine	N.D.	2,500.	ug/kg	16*		70-130		
2-Picoline	N.D.	67.	ug/kg	78		58-93		
Pronamide	N.D.	33.	ug/kg	90		72-112		
Pyridine	N.D.	67.	ug/kg	70		44-88		
Safrole	N.D.	67.	ug/kg	94		76-100		
1,2,4,5-Tetrachlorobenzene	N.D.	67.	ug/kg	95		67-117		
2,3,4,6-Tetrachlorophenol	N.D.	67.	ug/kg	104		74-117		
Tetraethyldithiopyrophosphate	N.D.	67.	ug/kg	89		71-120		
Thionazin	N.D.	67.	ug/kg	86		82-103		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
o-Toluidine	N.D.	67.	ug/kg	64		22-91		
O,O,O-Triethylphosphorothioate	N.D.	67.	ug/kg	95		77-105		
1,3,5-Trinitrobenzene	N.D.	170.	ug/kg	53		5-91		
2-Methylphenol	N.D.	33.	ug/kg	87		70-103		
4-Chloroaniline	N.D.	33.	ug/kg	86		1-105		
2-Methylnaphthalene	N.D.	33.	ug/kg	84		70-102		
2,4,5-Trichlorophenol	N.D.	33.	ug/kg	99		76-110		
2-Nitroaniline	N.D.	33.	ug/kg	94		76-117		
3-Nitroaniline	N.D.	67.	ug/kg	72		28-131		
Dibenzofuran	N.D.	33.	ug/kg	87		72-103		
4-Nitroaniline	N.D.	67.	ug/kg	72		52-105		
4,4'-Methylenebis(2-chloroanil	N.D.	33.	ug/kg	78		67-90		
Batch number: M032281AA	Sample number(s): 4101146,4101154-4101157,4101159-4101162							
Dichlorodifluoromethane	N.D.	2.	ug/l	109		59-151		
Chloromethane	N.D.	1.	ug/l	105		63-134		
Vinyl Chloride	N.D.	1.	ug/l	112		71-129		
Bromomethane	N.D.	1.	ug/l	102		42-126		
Chloroethane	N.D.	1.	ug/l	107		54-127		
Trichlorofluoromethane	N.D.	2.	ug/l	102		59-137		
1,1-Dichloroethene	N.D.	0.8	ug/l	109		79-130		
Methylene Chloride	N.D.	2.	ug/l	114		82-122		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	109		81-124		
1,1-Dichloroethane	N.D.	1.	ug/l	118		77-129		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	95		84-117		
Chloroform	N.D.	0.8	ug/l	97		86-124		
1,1,1-Trichloroethane	N.D.	0.8	ug/l	89		83-127		
Carbon Tetrachloride	N.D.	1.	ug/l	94		77-130		
Benzene	N.D.	0.5	ug/l	103		85-117		
1,2-Dichloroethane	N.D.	1.	ug/l	96		77-132		
Trichloroethene	N.D.	1.	ug/l	91		87-117		
1,2-Dichloropropane	N.D.	1.	ug/l	98		80-117		
Dibromomethane	N.D.	1.	ug/l	96		87-117		
Bromodichloromethane	N.D.	1.	ug/l	91		83-121		
Toluene	N.D.	0.7	ug/l	97		85-115		
1,1,2-Trichloroethane	N.D.	0.8	ug/l	97		86-113		
Tetrachloroethene	N.D.	0.8	ug/l	95		82-126		
Dibromochloromethane	N.D.	1.	ug/l	98		78-119		
1,2-Dibromoethane	N.D.	1.	ug/l	93		81-114		
Chlorobenzene	N.D.	0.8	ug/l	96		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	100		83-114		
Ethylbenzene	N.D.	0.8	ug/l	95		82-119		
Styrene	N.D.	1.	ug/l	101		84-117		
Bromoform	N.D.	1.	ug/l	100		63-122		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	97		72-119		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,3-Trichloropropane	N.D.	1.	ug/l	97		76-124		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	90		59-120		
Acetone	N.D.	6.	ug/l	146		33-179		
Carbon Disulfide	N.D.	1.	ug/l	122		83-133		
2-Butanone	N.D.	3.	ug/l	100		53-149		
trans-1,3-Dichloropropene	N.D.	1.	ug/l	100		79-114		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	97		78-114		
4-Methyl-2-pentanone	N.D.	3.	ug/l	89		63-130		
2-Hexanone	N.D.	3.	ug/l	99		57-135		
Xylene (Total)	N.D.	0.8	ug/l	98		84-120		
Methyl Iodide	N.D.	1.	ug/l	115		74-133		
Acrylonitrile	N.D.	4.	ug/l	108		64-126		
Vinyl Acetate	N.D.	2.	ug/l	159		60-160		
trans-1,4-Dichloro-2-butene	N.D.	15.	ug/l	85		50-140		
Acrolein	N.D.	40.	ug/l	61		38-144		
Acetonitrile	N.D.	25.	ug/l	120		58-142		
Allyl Chloride	N.D.	1.	ug/l	113		47-136		
2-Chloro-1,3-butadiene	N.D.	1.	ug/l	111		73-133		
Propionitrile	N.D.	30.	ug/l	106		73-128		
Methacrylonitrile	N.D.	10.	ug/l	110		79-124		
Isobutyl Alcohol	N.D.	100.	ug/l	100		60-139		
Methyl Methacrylate	N.D.	1.	ug/l	95		73-113		
1,4-Dioxane	N.D.	70.	ug/l	107		41-155		
Ethyl Methacrylate	N.D.	1.	ug/l	99		77-118		
Pentachloroethane	N.D.	1.	ug/l	102		63-116		
Batch number: X032271AA	Sample number(s): 4101132-4101134,4101140-4101141							
Dichlorodifluoromethane	N.D.	2.	ug/kg	101		1-184		
Chloromethane	N.D.	2.	ug/kg	97		47-133		
Vinyl Chloride	N.D.	1.	ug/kg	95		48-135		
Bromomethane	N.D.	2.	ug/kg	92		42-140		
Chloroethane	N.D.	2.	ug/kg	97		45-144		
Trichlorofluoromethane	N.D.	2.	ug/kg	90		38-143		
1,1-Dichloroethene	N.D.	1.	ug/kg	94		69-133		
Methylene Chloride	N.D.	2.	ug/kg	95		76-129		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	92		77-124		
1,1-Dichloroethane	N.D.	1.	ug/kg	94		79-124		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	91		83-118		
Chloroform	N.D.	1.	ug/kg	93		81-117		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	94		74-121		
Carbon Tetrachloride	N.D.	1.	ug/kg	92		68-123		
Benzene	N.D.	1.	ug/kg	90		83-118		
1,2-Dichloroethane	N.D.	1.	ug/kg	91		76-126		
Trichloroethene	N.D.	1.	ug/kg	92		81-114		
1,2-Dichloropropane	N.D.	1.	ug/kg	91		78-119		

*- Outside of specification
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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibromomethane	N.D.	1.	ug/kg	88		82-122		
Bromodichloromethane	N.D.	1.	ug/kg	88		77-116		
Toluene	N.D.	1.	ug/kg	91		81-116		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	84		83-114		
Tetrachloroethene	N.D.	1.	ug/kg	96		79-122		
Dibromochloromethane	N.D.	1.	ug/kg	88		73-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	83		77-114		
Chlorobenzene	N.D.	1.	ug/kg	89		81-112		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	90		78-115		
Ethylbenzene	N.D.	1.	ug/kg	89		82-115		
Styrene	N.D.	1.	ug/kg	86		79-116		
Bromoform	N.D.	1.	ug/kg	85		64-121		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	81		64-121		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	79		67-126		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	70		51-122		
Acetone	N.D.	7.	ug/kg	70		25-173		
Carbon Disulfide	N.D.	1.	ug/kg	91		69-135		
2-Butanone	N.D.	4.	ug/kg	67		36-147		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	90		75-113		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	88		80-113		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	70		55-135		
2-Hexanone	N.D.	3.	ug/kg	67		44-142		
Xylene (Total)	N.D.	1.	ug/kg	89		82-117		
Acrolein	N.D.	20.	ug/kg	78		49-132		
Acrylonitrile	N.D.	4.	ug/kg	74		63-123		
Methyl Iodide	N.D.	3.	ug/kg	92		71-134		
Acetonitrile	N.D.	25.	ug/kg	72		57-143		
Allyl Chloride	N.D.	1.	ug/kg	93		45-137		
Vinyl Acetate	N.D.	2.	ug/kg	107		51-166		
2-Chloro-1,3-butadiene	N.D.	1.	ug/kg	94		72-128		
Propionitrile	N.D.	30.	ug/kg	78		64-134		
Methacrylonitrile	N.D.	5.	ug/kg	77		70-131		
Isobutyl Alcohol	N.D.	100.	ug/kg	67		48-141		
Methyl Methacrylate	N.D.	1.	ug/kg	74		63-122		
Ethyl Methacrylate	N.D.	1.	ug/kg	76		70-121		
trans-1,4-Dichloro-2-butene	N.D.	10.	ug/kg	77		55-134		
Pentachloroethane	N.D.	1.	ug/kg	88		66-111		
Batch number: X032271AB	Sample number(s): 4101136-4101139,4101142-4101145							
Dichlorodifluoromethane	N.D.	2.	ug/kg	101		1-184		
Chloromethane	N.D.	2.	ug/kg	97		47-133		
Vinyl Chloride	N.D.	1.	ug/kg	95		48-135		
Bromomethane	N.D.	2.	ug/kg	92		42-140		
Chloroethane	N.D.	2.	ug/kg	97		45-144		
Trichlorofluoromethane	N.D.	2.	ug/kg	90		38-143		

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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1-Dichloroethene	N.D.	1.	ug/kg	94		69-133		
Methylene Chloride	N.D.	2.	ug/kg	95		76-129		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	92		77-124		
1,1-Dichloroethane	N.D.	1.	ug/kg	94		79-124		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	91		83-118		
Chloroform	N.D.	1.	ug/kg	93		81-117		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	94		74-121		
Carbon Tetrachloride	N.D.	1.	ug/kg	92		68-123		
Benzene	N.D.	1.	ug/kg	90		83-118		
1,2-Dichloroethane	N.D.	1.	ug/kg	91		76-126		
Trichloroethene	N.D.	1.	ug/kg	92		81-114		
1,2-Dichloropropane	N.D.	1.	ug/kg	91		78-119		
Dibromomethane	N.D.	1.	ug/kg	88		82-122		
Bromodichloromethane	N.D.	1.	ug/kg	88		77-116		
Toluene	N.D.	1.	ug/kg	91		81-116		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	84		83-114		
Tetrachloroethene	N.D.	1.	ug/kg	96		79-122		
Dibromochloromethane	N.D.	1.	ug/kg	88		73-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	83		77-114		
Chlorobenzene	N.D.	1.	ug/kg	89		81-112		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	90		78-115		
Ethylbenzene	N.D.	1.	ug/kg	89		82-115		
Styrene	N.D.	1.	ug/kg	86		79-116		
Bromoform	N.D.	1.	ug/kg	85		64-121		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	81		64-121		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	79		67-126		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	70		51-122		
Acetone	10. J	7.	ug/kg	70		25-173		
Carbon Disulfide	N.D.	1.	ug/kg	91		69-135		
2-Butanone	N.D.	4.	ug/kg	67		36-147		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	90		75-113		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	88		80-113		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	70		55-135		
2-Hexanone	N.D.	3.	ug/kg	67		44-142		
Xylene (Total)	N.D.	1.	ug/kg	89		82-117		
Acrolein	N.D.	20.	ug/kg	78		49-132		
Acrylonitrile	N.D.	4.	ug/kg	74		63-123		
Methyl Iodide	N.D.	3.	ug/kg	92		71-134		
Acetonitrile	N.D.	25.	ug/kg	72		57-143		
Allyl Chloride	N.D.	1.	ug/kg	93		45-137		
Vinyl Acetate	N.D.	2.	ug/kg	107		51-166		
2-Chloro-1,3-butadiene	N.D.	1.	ug/kg	94		72-128		
Propionitrile	N.D.	30.	ug/kg	78		64-134		
Methacrylonitrile	N.D.	5.	ug/kg	77		70-131		
Isobutyl Alcohol	N.D.	100.	ug/kg	67		48-141		

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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Methacrylate	N.D.	1.	ug/kg	74		63-122		
Ethyl Methacrylate	N.D.	1.	ug/kg	76		70-121		
trans-1,4-Dichloro-2-butene	N.D.	10.	ug/kg	77		55-134		
Pentachloroethane	N.D.	1.	ug/kg	88		66-111		
Batch number: X032311AA	Sample number(s): 4101147-4101150,4101152-4101153							
Dichlorodifluoromethane	N.D.	2.	ug/kg	94		1-184		
Chloromethane	N.D.	2.	ug/kg	96		47-133		
Vinyl Chloride	N.D.	1.	ug/kg	90		48-135		
Bromomethane	N.D.	2.	ug/kg	84		42-140		
Chloroethane	N.D.	2.	ug/kg	92		45-144		
Trichlorofluoromethane	N.D.	2.	ug/kg	87		38-143		
1,1-Dichloroethene	N.D.	1.	ug/kg	88		69-133		
Methylene Chloride	N.D.	2.	ug/kg	91		76-129		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	88		77-124		
1,1-Dichloroethane	N.D.	1.	ug/kg	92		79-124		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	91		83-118		
Chloroform	N.D.	1.	ug/kg	92		81-117		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	92		74-121		
Carbon Tetrachloride	N.D.	1.	ug/kg	90		68-123		
Benzene	N.D.	1.	ug/kg	91		83-118		
1,2-Dichloroethane	N.D.	1.	ug/kg	97		76-126		
Trichloroethene	N.D.	1.	ug/kg	92		81-114		
1,2-Dichloropropane	N.D.	1.	ug/kg	94		78-119		
Dibromomethane	N.D.	1.	ug/kg	97		82-122		
Bromodichloromethane	N.D.	1.	ug/kg	91		77-116		
Toluene	N.D.	1.	ug/kg	91		81-116		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	100		83-114		
Tetrachloroethene	N.D.	1.	ug/kg	92		79-122		
Dibromochloromethane	N.D.	1.	ug/kg	94		73-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	100		77-114		
Chlorobenzene	N.D.	1.	ug/kg	91		81-112		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	90		78-115		
Ethylbenzene	N.D.	1.	ug/kg	91		82-115		
Styrene	N.D.	1.	ug/kg	90		79-116		
Bromoform	N.D.	1.	ug/kg	96		64-121		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	103		64-121		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	104		67-126		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	104		51-122		
Acetone	N.D.	7.	ug/kg	125		25-173		
Carbon Disulfide	N.D.	1.	ug/kg	89		69-135		
2-Butanone	N.D.	4.	ug/kg	126		36-147		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	98		75-113		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	95		80-113		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	106		55-135		

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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2-Hexanone	N.D.	3.	ug/kg	120		44-142		
Xylene (Total)	N.D.	1.	ug/kg	91		82-117		
Acrolein	N.D.	20.	ug/kg	100		49-132		
Acrylonitrile	N.D.	4.	ug/kg	96		63-123		
Methyl Iodide	N.D.	3.	ug/kg	88		71-134		
Acetonitrile	N.D.	25.	ug/kg	75		57-143		
Allyl Chloride	N.D.	1.	ug/kg	77		45-137		
Vinyl Acetate	N.D.	2.	ug/kg	104		51-166		
2-Chloro-1,3-butadiene	N.D.	1.	ug/kg	93		72-128		
Propionitrile	N.D.	30.	ug/kg	110		64-134		
Methacrylonitrile	N.D.	5.	ug/kg	107		70-131		
Isobutyl Alcohol	N.D.	100.	ug/kg	109		48-141		
Methyl Methacrylate	N.D.	1.	ug/kg	99		63-122		
Ethyl Methacrylate	N.D.	1.	ug/kg	100		70-121		
trans-1,4-Dichloro-2-butene	N.D.	10.	ug/kg	102		55-134		
Pentachloroethane	N.D.	1.	ug/kg	81		66-111		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 032265705008	Sample number(s): 4101146,4101154-4101161								
Thallium	99	101	84-117	2	20	N.D.	N.D.	0 (1)	20
Arsenic	98	99	86-119	1	20	0.0127	0.0135	6 (1)	20
Selenium	99	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Barium	99	102	82-113	2	20	0.0702	0.0596	16	20
Beryllium	102	103	80-117	1	20	N.D.	N.D.	0 (1)	20
Cadmium	102	103	78-121	1	20	N.D.	N.D.	0 (1)	20
Chromium	103	105	80-124	2	20	N.D.	0.0022 J	200* (1)	20
Cobalt	100	102	91-112	2	20	N.D.	N.D.	0 (1)	20
Copper	103	106	82-120	3	20	0.0033 J	0.0027 J	21* (1)	20
Lead	102	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Nickel	99	101	85-116	2	20	N.D.	N.D.	0 (1)	20
Silver	106	123	75-125	15	20	N.D.	N.D.	0 (1)	20
Tin	101	102	91-113	1	20	N.D.	N.D.	0 (1)	20
Vanadium	102	104	89-114	2	20	0.0019 J	0.0026 J	28* (1)	20
Zinc	99	101	80-120	3	20	0.0179 J	0.0115 J	44* (1)	20
Batch number: 032265708001	Sample number(s): 4101148-4101153								
Thallium	96	97	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	95	96	75-125	2	20	4.65	4.31	8 (1)	20

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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Selenium	98	99	75-125	1	20	0.650 J	0.761 J	16 (1)	20
Antimony	93	95	75-125	0	20	N.D.	N.D.	0 (1)	20
Barium	112	106	75-125	6	20	56.9	55.5	2	20
Beryllium	102	103	75-125	1	20	0.348 J	0.310 J	12 (1)	20
Cadmium	93	93	75-125	2	20	0.494	0.458 J	7 (1)	20
Chromium	121	111	75-125	7	20	11.0	10.5	5	20
Cobalt	95	96	75-125	2	20	4.00	3.95	1	20
Copper	106	105	75-125	2	20	10.2	9.96	2	20
Lead	105	94	75-125	10	20	19.2	17.4	10	20
Nickel	96	95	75-125	2	20	9.79	9.31	5	20
Silver	103	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Tin	96	98	77-116	1	20	2.88 J	2.60 J	10 (1)	20
Vanadium	113	110	75-125	3	20	19.7	18.1	8	20
Zinc	94	89	75-125	4	20	38.2	36.1	6	20
Batch number: 032265708002	Sample number(s): 4101132-4101145,4101147								
Thallium	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Arsenic	98	97	75-125	0	20	6.72	5.80	15	20
Selenium	102	101	75-125	0	20	N.D.	N.D.	0 (1)	20
Antimony	94	94	75-125	0	20	1.10 J	1.23 J	11 (1)	20
Barium	103	120	75-125	8	20	206.	220.	6	20
Beryllium	104	103	75-125	1	20	0.351 J	0.399 J	13 (1)	20
Cadmium	97	97	75-125	0	20	0.511	0.512	0 (1)	20
Chromium	112	126*	75-125	7	20	16.4	16.1	2	20
Cobalt	95	95	75-125	0	20	4.62	4.64	0	20
Copper	98	101	75-125	2	20	13.7	13.2	3	20
Lead	153*	223*	75-125	14	20	164.	197.	19	20
Nickel	93	94	75-125	0	20	11.9	11.4	5	20
Silver	103	102	75-125	0	20	0.307 J	0.183 J	51* (1)	20
Tin	100	100	77-116	0	20	2.49 J	2.77 J	11 (1)	20
Vanadium	107	106	75-125	0	20	19.5	18.6	5	20
Zinc	102	129*	75-125	7	20	137.	153.	11	20
Batch number: 032265711001	Sample number(s): 4101148-4101153								
Mercury	96	94	80-120	2	20	0.0321 J	0.0287 J	11 (1)	20
Batch number: 032265711002	Sample number(s): 4101132-4101145,4101147								
Mercury	92	98	80-120	4	20	0.0717 J	0.0728 J	1 (1)	20
Batch number: 032265713002	Sample number(s): 4101146,4101154-4101161								
Mercury	100	98	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 03226820001A	Sample number(s): 4101132-4101142								
Moisture						9.9	10.6	7	15

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 03226820001B	Sample number(s): 4101143-4101145,4101147-4101153								
Moisture						22.7	22.3	2	15
Batch number: 03226SLA026	Sample number(s): 4101132-4101134,4101136-4101145,4101147								
1,4-Dioxane	53	40	12-74	28	30				
Phenol	98	95	30-137	3	30				
2-Chlorophenol	89	89	33-138	1	30				
1,4-Dichlorobenzene	81	67	38-116	19	30				
N-Nitroso-di-n-propylamine	93	91	46-127	2	30				
1,2,4-Trichlorobenzene	88	83	37-132	6	30				
4-Chloro-3-methylphenol	105	101	35-146	5	30				
Acenaphthene	91	96	48-132	5	30				
4-Nitrophenol	96	97	14-172	1	30				
2,4-Dinitrotoluene	96	102	47-138	6	30				
Pentachlorophenol	53	51	16-126	4	30				
Pyrene	83	114	28-144	31*	30				
4-Methylphenol	101	102	22-153	0	30				
Aramite	83	94	70-130	12	30				
2-Nitrophenol	90	91	27-146	2	30				
2,4-Dimethylphenol	92	92	33-138	0	30				
2,4-Dichlorophenol	95	93	23-149	2	30				
2,4,6-Trichlorophenol	91	93	31-140	3	30				
2,4-Dinitrophenol	71	69	20-143	3	30				
4,6-Dinitro-2-methylphenol	82	84	5-150	2	30				
N-Nitrosodimethylamine	91	85	51-115	7	30				
bis(2-Chloroethyl)ether	89	83	40-132	6	30				
1,3-Dichlorobenzene	82	68	37-118	18	30				
1,2-Dichlorobenzene	82	70	41-115	17	30				
bis(2-Chloroisopropyl)ether	108	100	38-161	8	30				
Hexachloroethane	85	70	20-135	20	30				
Nitrobenzene	94	90	39-137	3	30				
Isophorone	90	87	47-128	3	30				
bis(2-Chloroethoxy)methane	103	102	50-136	1	30				
Naphthalene	90	87	38-132	4	30				
Hexachlorobutadiene	94	82	38-134	14	30				
Hexachlorocyclopentadiene	0*	6	5-140	200*	30				
2-Chloronaphthalene	84	85	45-127	1	30				
Acenaphthylene	88	91	46-128	3	30				
Dimethylphthalate	87	89	52-125	3	30				
2,6-Dinitrotoluene	89	91	52-124	3	30				
Fluorene	85	90	39-137	6	30				
4-Chlorophenyl-phenylether	86	88	52-122	2	30				
Diethylphthalate	89	93	53-128	3	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodiphenylamine	83	85	46-131	2	30				
4-Bromophenyl-phenylether	88	89	49-133	1	30				
Hexachlorobenzene	91	93	44-133	2	30				
Phenanthrene	87	120	29-143	32*	30				
Anthracene	93	97	35-138	5	30				
Di-n-butylphthalate	92	92	51-126	1	30				
Fluoranthene	84	129	19-145	41*	30				
Butylbenzylphthalate	86	92	40-141	6	30				
Benzo(a)anthracene	90	105	26-144	15	30				
Chrysene	92	112	23-150	19	30				
3,3'-Dichlorobenzidine	78	78	2-129	0	30				
bis(2-Ethylhexyl)phthalate	89	90	36-146	2	30				
Di-n-octylphthalate	86	84	38-147	1	30				
Benzo(b)fluoranthene	94	116	32-140	19	30				
Benzo(k)fluoranthene	91	99	36-143	9	30				
Benzo(a)pyrene	93	103	23-154	10	30				
Indeno(1,2,3-cd)pyrene	90	98	36-141	9	30				
Dibenz(a,h)anthracene	101	105	19-163	4	30				
Benzo(g,h,i)perylene	89	94	17-152	6	30				
Acetophenone	92	90	34-133	2	30				
2-Acetylaminofluorene	86	89	51-115	4	30				
4-Aminobiphenyl	39	46	18-87	16	30				
Aniline	82	81	29-134	1	30				
Benzyl alcohol	95	94	56-112	1	30				
Chlorobenzilate	94	97	39-141	4	30				
Diallate TRANS/CIS	91	92	44-141	1	30				
2,6-Dichlorophenol	94	93	22-135	1	30				
Dimethoate	105*	117*	1-89	10	30				
p-Dimethylaminoazobenzene	76	85	2-151	12	30				
7,12-Dimethylbenz[a]anthracene	90	87	58-127	4	30				
3,3'-Dimethylbenzidine	35	31	5-74	12	30				
a,a-Dimethylphenethylamine	36*	38*	70-130	5	30				
1,3-Dinitrobenzene	93	96	39-133	3	30				
Ethyl methanesulfonate	91	93	39-121	1	30				
Hexachloropropene	55	67	3-104	20	30				
Isodrin	101	98	1-135	3	30				
Isosafrole	84	85	45-114	2	30				
Methapyrilene	13	12	2-118	6	30				
3-Methylcholanthrene	97	97	45-132	0	30				
Methyl methanesulfonate	80	82	1-126	2	30				
1,4-Naphthoquinone	100	81	25-138	22	30				
1-Naphthylamine	50	50	5-117	1	30				
2-Naphthylamine	30	35	5-89	14	30				
4-Nitroquinoline-1-oxide	55	46	10-60	17	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
N-Nitrosodi-n-butylamine	92	92	36-130	1	30				
N-Nitrosodiethylamine	87	89	52-117	2	30				
N-Nitrosomethylethylamine	89	89	47-115	0	30				
N-Nitrosomorpholine	92	93	55-128	1	30				
N-Nitrosopiperidine	96	97	57-118	1	30				
N-Nitrosopyrrolidine	99	99	52-118	0	30				
5-Nitro-o-toluidine	55	60	30-96	9	30				
Pentachlorobenzene	98	99	44-123	2	30				
Pentachloronitrobenzene	91	95	33-146	4	30				
Phenacetin	98	100	26-160	1	30				
1,4-Phenylenediamine	13*	27*	70-130	73*	30				
2-Picoline	83	73	41-99	13	30				
Pronamide	97	97	62-118	1	30				
Pyridine	68	57	37-91	18	30				
Safrole	91	91	61-108	0	30				
1,2,4,5-Tetrachlorobenzene	91	90	33-141	1	30				
2,3,4,6-Tetrachlorophenol	86	92	59-126	7	30				
Tetraethyldithiopyrophosphate	99	99	55-123	0	30				
Thionazin	94	97	66-120	3	30				
o-Toluidine	67	74	22-105	9	30				
O,O,O-Triethylphosphorothioate	98	99	56-121	1	30				
1,3,5-Trinitrobenzene	38	36	5-100	6	30				
2-Methylphenol	90	89	34-133	1	30				
4-Chloroaniline	81	95	6-126	16	30				
2-Methylnaphthalene	88	85	32-133	3	30				
2,4,5-Trichlorophenol	92	94	26-147	2	30				
2-Nitroaniline	95	96	47-137	1	30				
3-Nitroaniline	78	84	26-131	8	30				
Dibenzofuran	86	93	39-129	7	30				
4-Nitroaniline	76	84	27-133	10	30				

Batch number: 03226WAA026 Sample number(s): 4101146,4101154-4101157,4101159-4101161

2,3,4,6-Tetrachlorophenol	90	94	2-168	4	30
Aniline	62	69	22-100	11	30
Acetophenone	74	81	70-94	9	30
2-Acetylaminofluorene	74*	82	78-103	11	30
4-Aminobiphenyl	41	43	24-53	6	30
Chlorobenzilate	59	62	45-128	4	30
2,6-Dichlorophenol	91	91	73-108	0	30
Dimethoate	27	29	3-105	6	30
p-Dimethylaminoazobenzene	69	77	37-109	11	30
7,12-Dimethylbenz[a]anthracene	55*	62*	64-96	12	30
3,3'-Dimethylbenzidine	25	30	5-73	16	30
1,3-Dinitrobenzene	81	92	77-107	12	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethyl methanesulfonate	83	86	77-99	4	30				
Hexachloropropene	67	68	57-109	2	30				
Isodrin	82	90	42-133	8	30				
Isosafrole	69	75	69-96	8	30				
3-Methylcholanthrene	80*	87	86-100	8	30				
Methyl methanesulfonate	63*	64*	70-130	2	30				
1,4-Naphthoquinone	0*	0*	10-152	0	30				
1-Naphthylamine	50	58	5-124	14	30				
2-Naphthylamine	49	54	5-91	10	30				
4-Nitroquinoline-1-oxide	75	90	20-103	17	30				
N-Nitrosodi-n-butylamine	77	79	65-92	2	30				
N-Nitrosodiethylamine	83	86	80-99	5	30				
N-Nitrosomethylethylamine	81	83	76-92	2	30				
N-Nitrosomorpholine	80	81	73-106	2	30				
N-Nitrosopiperidine	85	87	82-100	3	30				
N-Nitrosopyrrolidine	86	89	78-90	3	30				
5-Nitro-o-toluidine	53	59	30-92	10	30				
Pentachlorobenzene	84	89	73-104	5	30				
Pentachloronitrobenzene	77	83	74-113	7	30				
Phenacetin	86	92	76-112	7	30				
1,4-Phenylenediamine	0*	0*	70-130	0	30				
2-Picoline	75	76	71-80	1	30				
Pronamide	80	87	73-109	8	30				
Safrole	78	82	75-101	4	30				
1,2,4,5-Tetrachlorobenzene	74	81	69-103	9	30				
Tetraethyldithiopyrophosphate	79	84	64-119	7	30				
o-Toluidine	47	52	1-116	8	30				
O,O,O-Triethylphosphorothioate	85	87	76-106	2	30				
1,3,5-Trinitrobenzene	62*	69	66-93	11	30				
Diallate trans/cis	74*	82	80-102	10	30				
4-Methylphenol	78	80	11-144	3	30				
Aramite	64*	63*	70-130	1	30				
1,4-Dioxane	77*	74	33-75	4	30				
Methapyrilene	13*	15*	70-130	11	30				
a,a-Dimethylphenethylamine	63*	67*	70-130	6	30				
Thionazin	80	87	71-111	9	30				
4-Chloroaniline	56	60	1-108	6	30				
Dibenzofuran	75	82	60-110	9	30				
2-Methylnaphthalene	72	76	43-130	6	30				
2-Nitroaniline	79	89	69-127	11	30				
3-Nitroaniline	73	79	21-121	9	30				
4-Nitroaniline	67	76	55-103	12	30				
Pyridine	59	59	18-100	1	30				
2,4,5-Trichlorophenol	87	93	38-138	7	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Chlorophenol	82	85	34-133	4	30				
Phenol	49	51	12-87	5	30				
2-Nitrophenol	88	91	32-146	4	30				
2,4-Dimethylphenol	80	83	39-123	3	30				
2,4-Dichlorophenol	89	91	28-141	2	30				
4-Chloro-3-methylphenol	90	91	42-138	1	30				
2,4,6-Trichlorophenol	83	88	31-140	6	30				
2,4-Dinitrophenol	39	46	20-151	18	30				
4-Nitrophenol	50	55	15-77	8	30				
4,6-Dinitro-2-methylphenol	74	80	13-151	8	30				
Pentachlorophenol	48	52	5-141	8	30				
N-Nitrosodimethylamine	67	68	40-88	2	30				
bis(2-Chloroethyl)ether	75	81	63-114	7	30				
1,3-Dichlorobenzene	63	69	44-108	8	30				
1,4-Dichlorobenzene	64	67	42-105	5	30				
1,2-Dichlorobenzene	65	69	49-106	5	30				
bis(2-Chloroisopropyl)ether	89	95	60-145	7	30				
Hexachloroethane	59	64	20-116	7	30				
N-Nitroso-di-n-propylamine	75	82	61-110	9	30				
Nitrobenzene	77	83	43-133	6	30				
Isophorone	76	81	44-127	6	30				
bis(2-Chloroethoxy)methane	87	92	75-116	6	30				
1,2,4-Trichlorobenzene	72	76	53-113	5	30				
Naphthalene	73	78	63-107	7	30				
Hexachlorobutadiene	67	69	22-120	3	30				
Hexachlorocyclopentadiene	60	64	5-130	7	30				
2-Chloronaphthalene	71	76	64-114	8	30				
Acenaphthylene	75	81	66-107	7	30				
Dimethylphthalate	59	63	17-127	7	30				
2,6-Dinitrotoluene	77	85	35-137	10	30				
Acenaphthene	77	84	71-110	9	30				
2,4-Dinitrotoluene	85	92	43-145	8	30				
Fluorene	73	78	52-121	7	30				
4-Chlorophenyl-phenylether	76	82	64-109	8	30				
Diethylphthalate	73	78	55-114	7	30				
N-Nitrosodiphenylamine	70	77	69-105	10	30				
4-Bromophenyl-phenylether	75	83	70-109	10	30				
Hexachlorobenzene	78	84	65-114	7	30				
Phenanthrene	75	80	56-125	7	30				
Anthracene	80	83	71-106	5	30				
Di-n-butylphthalate	78	84	71-107	7	30				
Fluoranthene	79	86	70-104	8	30				
Pyrene	70	78	67-112	10	30				
Butylbenzylphthalate	70	74	69-115	7	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)anthracene	78	85	72-108	8	30				
Chrysene	83	87	73-108	6	30				
3,3'-Dichlorobenzidine	62	67	8-113	9	30				
bis(2-Ethylhexyl)phthalate	74	80	64-130	8	30				
Di-n-octylphthalate	67	73	64-119	9	30				
Benzo(b)fluoranthene	76	86	72-109	12	30				
Benzo(k)fluoranthene	79	84	73-111	5	30				
Benzo(a)pyrene	79	84	77-110	6	30				
Indeno(1,2,3-cd)pyrene	79	83	69-115	5	30				
Dibenz(a,h)anthracene	84	89	81-118	6	30				
Benzo(g,h,i)perylene	78	80	72-114	3	30				
2-Methylphenol	73	75	34-119	2	30				
Benzyl alcohol	80	84	61-89	5	30				
Batch number: 032271848001	Sample number(s): 4101146,4101154-4101161								
Antimony	103	103	75-125	0	20	N.D.	N.D.	0 (1)	20
Batch number: 03231SLB026	Sample number(s): 4101148-4101150,4101152-4101153								
1,4-Dioxane	64	57	12-74	11	30				
Phenol	111	96	30-137	15	30				
2-Chlorophenol	100	85	33-138	16	30				
1,4-Dichlorobenzene	88	76	38-116	15	30				
N-Nitroso-di-n-propylamine	103	89	46-127	15	30				
1,2,4-Trichlorobenzene	105	89	37-132	17	30				
4-Chloro-3-methylphenol	111	101	35-146	10	30				
Acenaphthene	102	89	48-132	14	30				
4-Nitrophenol	122	102	14-172	18	30				
2,4-Dinitrotoluene	113	94	47-138	18	30				
Pentachlorophenol	76	64	16-126	17	30				
Pyrene	93	79	28-144	15	30				
4-Methylphenol	104	96	22-153	9	30				
Aramite	72	67*	70-130	7	30				
2-Nitrophenol	104	90	27-146	15	30				
2,4-Dimethylphenol	105	87	33-138	19	30				
2,4-Dichlorophenol	111	91	23-149	19	30				
2,4,6-Trichlorophenol	110	93	31-140	17	30				
2,4-Dinitrophenol	89	76	20-143	16	30				
4,6-Dinitro-2-methylphenol	92	83	5-150	10	30				
N-Nitrosodimethylamine	101	89	51-115	13	30				
bis(2-Chloroethyl)ether	103	91	40-132	12	30				
1,3-Dichlorobenzene	88	78	37-118	12	30				
1,2-Dichlorobenzene	85	75	41-115	12	30				
bis(2-Chloroisopropyl)ether	118	106	38-161	11	30				
Hexachloroethane	91	78	20-135	16	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Nitrobenzene	107	90	39-137	17	30				
Isophorone	104	87	47-128	18	30				
bis(2-Chloroethoxy)methane	120	99	50-136	19	30				
Naphthalene	98	82	38-132	17	30				
Hexachlorobutadiene	106	89	38-134	18	30				
Hexachlorocyclopentadiene	0*	0*	5-140	0	30				
2-Chloronaphthalene	94	78	45-127	18	30				
Acenaphthylene	96	83	46-128	15	30				
Dimethylphthalate	99	83	52-125	18	30				
2,6-Dinitrotoluene	100	85	52-124	16	30				
Fluorene	102	84	39-137	19	30				
4-Chlorophenyl-phenylether	99	85	52-122	15	30				
Diethylphthalate	103	87	53-128	17	30				
N-Nitrosodiphenylamine	91	80	46-131	13	30				
4-Bromophenyl-phenylether	99	87	49-133	12	30				
Hexachlorobenzene	103	88	44-133	15	30				
Phenanthrene	97	86	29-143	12	30				
Anthracene	99	87	35-138	13	30				
Di-n-butylphthalate	100	88	51-126	13	30				
Fluoranthene	97	83	19-145	15	30				
Butylbenzylphthalate	96	82	40-141	16	30				
Benzo(a)anthracene	100	85	26-144	16	30				
Chrysene	107	87	23-150	20	30				
3,3'-Dichlorobenzidine	89	77	2-129	15	30				
bis(2-Ethylhexyl)phthalate	100	84	36-146	17	30				
Di-n-octylphthalate	92	81	38-147	13	30				
Benzo(b)fluoranthene	118	88	32-140	29	30				
Benzo(k)fluoranthene	102	92	36-143	10	30				
Benzo(a)pyrene	105	89	23-154	17	30				
Indeno(1,2,3-cd)pyrene	101	86	36-141	15	30				
Dibenz(a,h)anthracene	108	91	19-163	17	30				
Benzo(g,h,i)perylene	97	85	17-152	14	30				
Acetophenone	99	87	34-133	13	30				
2-Acetylaminofluorene	91	78	51-115	16	30				
4-Aminobiphenyl	80	69	18-87	15	30				
Aniline	120	96	29-134	22	30				
Benzyl alcohol	99	89	56-112	11	30				
Chlorobenzilate	100	84	39-141	18	30				
Diallate TRANS/CIS	98	87	44-141	12	30				
2,6-Dichlorophenol	111	91	22-135	20	30				
Dimethoate	44	43	1-89	3	30				
p-Dimethylaminoazobenzene	4	4	2-151	1	30				
7,12-Dimethylbenz[a]anthracene	101	86	58-127	16	30				
3,3'-Dimethylbenzidine	38	33	5-74	14	30				

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
a,a-Dimethylphenethylamine	30*	32*	70-130	8	30				
1,3-Dinitrobenzene	104	86	39-133	18	30				
Ethyl methanesulfonate	97	83	39-121	15	30				
Hexachloropropene	64	20	3-104	106*	30				
Isodrin	52	48	1-135	7	30				
Isosafrole	95	81	45-114	17	30				
Methapyrilene	16	15	2-118	5	30				
3-Methylcholanthrene	95	83	45-132	13	30				
Methyl methanesulfonate	89	75	1-126	17	30				
1,4-Naphthoquinone	46	47	25-138	1	30				
1-Naphthylamine	91	75	5-117	20	30				
2-Naphthylamine	53	44	5-89	17	30				
4-Nitroquinoline-1-oxide	0*	0*	10-60	0	30				
N-Nitrosodi-n-butylamine	103	98	36-130	5	30				
N-Nitrosodiethylamine	95	84	52-117	12	30				
N-Nitrosomethylethylamine	96	86	47-115	11	30				
N-Nitrosomorpholine	96	86	55-128	10	30				
N-Nitrosopiperidine	107	91	57-118	16	30				
N-Nitrosopyrrolidine	104	90	52-118	14	30				
5-Nitro-o-toluidine	75	59	30-96	23	30				
Pentachlorobenzene	112	94	44-123	17	30				
Pentachloronitrobenzene	102	86	33-146	16	30				
Phenacetin	106	91	26-160	14	30				
1,4-Phenylenediamine	0*	0*	70-130	0	30				
2-Picoline	87	77	41-99	13	30				
Pronamide	102	89	62-118	15	30				
Pyridine	74	65	37-91	13	30				
Safrole	105	88	61-108	18	30				
1,2,4,5-Tetrachlorobenzene	107	92	33-141	16	30				
2,3,4,6-Tetrachlorophenol	122	97	59-126	23	30				
Tetraethyldithiopyrophosphate	102	92	55-123	11	30				
Thionazin	101	88	66-120	14	30				
o-Toluidine	77	67	22-105	14	30				
O,O,O-Triethylphosphorothioate	107	90	56-121	18	30				
1,3,5-Trinitrobenzene	22	27	5-100	21	30				
2-Methylphenol	98	85	34-133	14	30				
4-Chloroaniline	109	87	6-126	22	30				
2-Methylnaphthalene	98	83	32-133	17	30				
2,4,5-Trichlorophenol	110	90	26-147	20	30				
2-Nitroaniline	106	91	47-137	15	30				
3-Nitroaniline	94	80	26-131	16	30				
Dibenzofuran	101	84	39-129	18	30				
4-Nitroaniline	93	76	27-133	20	30				
4,4'-Methylenebis(2-chloroanil	83	69	1-178	18	30				

*- Outside of specification
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(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: M032281AA	Sample number(s): 4101146,4101154-4101157,4101159-4101162								
Dichlorodifluoromethane	124	128	62-169	3	30				
Chloromethane	118	130	66-142	9	30				
Vinyl Chloride	126	134	64-148	6	30				
Bromomethane	114	124	48-132	8	30				
Chloroethane	127	131	58-136	3	30				
Trichlorofluoromethane	113	118	64-154	4	30				
1,1-Dichloroethene	120	128	78-146	6	30				
Methylene Chloride	119	124	80-126	4	30				
trans-1,2-Dichloroethene	118	125	82-133	6	30				
1,1-Dichloroethane	124	127	79-135	2	30				
cis-1,2-Dichloroethene	98	103	83-126	5	30				
Chloroform	101	101	77-133	1	30				
1,1,1-Trichloroethane	93	100	82-135	6	30				
Carbon Tetrachloride	103	106	73-144	3	30				
Benzene	107	109	83-128	1	30				
1,2-Dichloroethane	99	100	73-136	1	30				
Trichloroethene	98	101	75-135	4	30				
1,2-Dichloropropane	103	103	81-121	0	30				
Dibromomethane	100	101	83-120	1	30				
Bromodichloromethane	93	96	81-127	3	30				
Toluene	102	107	83-127	4	30				
1,1,2-Trichloroethane	100	102	77-125	2	30				
Tetrachloroethene	105	105	75-143	0	30				
Dibromochloromethane	100	102	73-119	2	30				
1,2-Dibromoethane	92	94	78-120	2	30				
Chlorobenzene	100	103	83-120	2	30				
1,1,1,2-Tetrachloroethane	106	108	83-119	2	30				
Ethylbenzene	101	103	82-134	2	30				
Styrene	105	108	67-137	3	30				
Bromoform	99	104	64-119	4	30				
1,1,2,2-Tetrachloroethane	97	96	69-121	1	30				
1,2,3-Trichloropropane	99	95	73-125	5	30				
1,2-Dibromo-3-chloropropane	82	86	54-130	5	30				
Acetone	90	84	26-148	6	30				
Carbon Disulfide	135	140	78-150	4	30				
2-Butanone	80	81	42-140	1	30				
trans-1,3-Dichloropropene	98	101	75-117	3	30				
cis-1,3-Dichloropropene	95	98	76-117	3	30				
4-Methyl-2-pentanone	84	85	59-132	1	30				
2-Hexanone	81	84	53-134	3	30				
Xylene (Total)	103	105	82-130	1	30				
Methyl Iodide	123	125	77-138	2	30				

*- Outside of specification
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(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acrylonitrile	101	103	56-123	2	30				
Vinyl Acetate	159	160	48-168	0	30				
trans-1,4-Dichloro-2-butene	83	85	36-143	2	30				
Acrolein	53	57	31-140	7	30				
Acetonitrile	108	108	42-151	0	30				
Allyl Chloride	117	124	45-143	5	30				
2-Chloro-1,3-butadiene	125	128	80-147	3	30				
Propionitrile	90	89	63-129	1	30				
Methacrylonitrile	104	107	70-124	3	30				
Isobutyl Alcohol	78	72	51-140	8	30				
Methyl Methacrylate	94	97	68-117	3	30				
1,4-Dioxane	83	69	27-159	19	30				
Ethyl Methacrylate	96	98	74-120	2	30				
Pentachloroethane	108	105	59-122	3	30				
Batch number: X032271AA	Sample number(s): 4101132-4101134,4101140-4101141								
Dichlorodifluoromethane	78	68	1-193	10	30				
Chloromethane	83	83	28-151	4	30				
Vinyl Chloride	70	65	33-147	3	30				
Bromomethane	62	68	25-148	12	30				
Chloroethane	65	64	33-147	3	30				
Trichlorofluoromethane	63	53	26-157	13	30				
1,1-Dichloroethene	64	54	48-147	14	30				
Methylene Chloride	72	74	59-135	6	30				
trans-1,2-Dichloroethene	64	54	52-136	14	30				
1,1-Dichloroethane	69	62	60-133	6	30				
cis-1,2-Dichloroethene	65	60	59-130	5	30				
Chloroform	68	68	57-135	3	30				
1,1,1-Trichloroethane	65	57	53-137	9	30				
Carbon Tetrachloride	62	57	46-138	5	30				
Benzene	62	70	52-141	13	30				
1,2-Dichloroethane	77	79	57-137	7	30				
Trichloroethene	59	58	47-140	1	30				
1,2-Dichloropropane	67	66	60-129	4	30				
Dibromomethane	72	78	62-128	12	30				
Bromodichloromethane	67	67	55-131	4	30				
Toluene	63	69	53-137	9	30				
1,1,2-Trichloroethane	74	81	45-150	13	30				
Tetrachloroethene	64	58	46-152	6	30				
Dibromochloromethane	71	73	53-130	7	30				
1,2-Dibromoethane	70	76	61-125	13	30				
Chlorobenzene	62	60	59-125	0	30				
1,1,1,2-Tetrachloroethane	68	68	58-128	4	30				
Ethylbenzene	60	58	50-136	1	30				

*- Outside of specification
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(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/02/03 at 10:59 AM

Group Number: 863146

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Styrene	55	53	46-137	1	30				
Bromoform	62	69	46-128	14	30				
1,1,2,2-Tetrachloroethane	73	94	31-166	29	30				
1,2,3-Trichloropropane	81	103	24-182	27	30				
1,2-Dibromo-3-chloropropane	54	67	22-163	26	30				
Acetone	93	120	10-195	25	30				
Carbon Disulfide	59	57	39-153	0	30				
2-Butanone	88	112	18-167	27	30				
trans-1,3-Dichloropropene	71	72	51-127	5	30				
cis-1,3-Dichloropropene	66	65	50-129	3	30				
4-Methyl-2-pentanone	77	97	31-153	28	30				
2-Hexanone	78	94	23-165	23	30				
Xylene (Total)	59	58	47-139	3	30				
Acrolein	88	107	17-156	22	30				
Acrylonitrile	90	111	40-140	25	30				
Methyl Iodide	67	61	52-141	5	30				
Acetonitrile	111	124	17-180	11	30				
Allyl Chloride	64	57	29-140	9	30				
Vinyl Acetate	117	106	1-227	10	30				
2-Chloro-1,3-butadiene	65	54	47-140	14	30				
Propionitrile	111	130	33-162	19	30				
Methacrylonitrile	85	103	45-151	24	30				
Isobutyl Alcohol	126	134	10-184	10	30				
Methyl Methacrylate	71	83	33-152	19	30				
Ethyl Methacrylate	75	79	33-154	9	30				
trans-1,4-Dichloro-2-butene	65	81	27-162	25	30				
Pentachloroethane	68	81	33-137	21	30				
Batch number: X032271AB	Sample number(s): 4101136-4101139,4101142-4101145								
Dichlorodifluoromethane	78	68	1-193	10	30				
Chloromethane	83	83	28-151	4	30				
Vinyl Chloride	70	65	33-147	3	30				
Bromomethane	62	68	25-148	12	30				
Chloroethane	65	64	33-147	3	30				
Trichlorofluoromethane	63	53	26-157	13	30				
1,1-Dichloroethene	64	54	48-147	14	30				
Methylene Chloride	72	74	59-135	6	30				
trans-1,2-Dichloroethene	64	54	52-136	14	30				
1,1-Dichloroethane	69	62	60-133	6	30				
cis-1,2-Dichloroethene	65	60	59-130	5	30				
Chloroform	68	68	57-135	3	30				
1,1,1-Trichloroethane	65	57	53-137	9	30				
Carbon Tetrachloride	62	57	46-138	5	30				
Benzene	62	70	52-141	13	30				

*- Outside of specification
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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichloroethane	77	79	57-137	7	30				
Trichloroethene	59	58	47-140	1	30				
1,2-Dichloropropane	67	66	60-129	4	30				
Dibromomethane	72	78	62-128	12	30				
Bromodichloromethane	67	67	55-131	4	30				
Toluene	63	69	53-137	9	30				
1,1,2-Trichloroethane	74	81	45-150	13	30				
Tetrachloroethene	64	58	46-152	6	30				
Dibromochloromethane	71	73	53-130	7	30				
1,2-Dibromoethane	70	76	61-125	13	30				
Chlorobenzene	62	60	59-125	0	30				
1,1,1,2-Tetrachloroethane	68	68	58-128	4	30				
Ethylbenzene	60	58	50-136	1	30				
Styrene	55	53	46-137	1	30				
Bromoform	62	69	46-128	14	30				
1,1,2,2-Tetrachloroethane	73	94	31-166	29	30				
1,2,3-Trichloropropane	81	103	24-182	27	30				
1,2-Dibromo-3-chloropropane	54	67	22-163	26	30				
Acetone	93	120	10-195	25	30				
Carbon Disulfide	59	57	39-153	0	30				
2-Butanone	88	112	18-167	27	30				
trans-1,3-Dichloropropene	71	72	51-127	5	30				
cis-1,3-Dichloropropene	66	65	50-129	3	30				
4-Methyl-2-pentanone	77	97	31-153	28	30				
2-Hexanone	78	94	23-165	23	30				
Xylene (Total)	59	58	47-139	3	30				
Acrolein	88	107	17-156	22	30				
Acrylonitrile	90	111	40-140	25	30				
Methyl Iodide	67	61	52-141	5	30				
Acetonitrile	111	124	17-180	11	30				
Allyl Chloride	64	57	29-140	9	30				
Vinyl Acetate	117	106	1-227	10	30				
2-Chloro-1,3-butadiene	65	54	47-140	14	30				
Propionitrile	111	130	33-162	19	30				
Methacrylonitrile	85	103	45-151	24	30				
Isobutyl Alcohol	126	134	10-184	10	30				
Methyl Methacrylate	71	83	33-152	19	30				
Ethyl Methacrylate	75	79	33-154	9	30				
trans-1,4-Dichloro-2-butene	65	81	27-162	25	30				
Pentachloroethane	68	81	33-137	21	30				

Batch number: X032311AA Sample number(s): 4101147-4101150,4101152-4101153

Dichlorodifluoromethane	79	80	1-193	3	30
Chloromethane	78	78	28-151	1	30

*- Outside of specification
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(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Chloride	74	73	33-147	0	30				
Bromomethane	74	72	25-148	3	30				
Chloroethane	75	76	33-147	3	30				
Trichlorofluoromethane	69	68	26-157	1	30				
1,1-Dichloroethene	70	69	48-147	1	30				
Methylene Chloride	72	61	59-135	12	30				
trans-1,2-Dichloroethene	74	73	52-136	2	30				
1,1-Dichloroethane	81	77	60-133	4	30				
cis-1,2-Dichloroethene	79	74	59-130	5	30				
Chloroform	83	78	57-135	6	30				
1,1,1-Trichloroethane	76	76	53-137	0	30				
Carbon Tetrachloride	73	70	46-138	3	30				
Benzene	78	74	52-141	4	30				
1,2-Dichloroethane	83	77	57-137	6	30				
Trichloroethene	75	69	47-140	7	30				
1,2-Dichloropropane	82	75	60-129	8	30				
Dibromomethane	84	74	62-128	11	30				
Bromodichloromethane	78	72	55-131	7	30				
Toluene	81	72	53-137	10	30				
1,1,2-Trichloroethane	87	76	45-150	12	30				
Tetrachloroethene	79	69	46-152	12	30				
Dibromochloromethane	82	72	53-130	12	30				
1,2-Dibromoethane	83	74	61-125	11	30				
Chlorobenzene	75	68	59-125	9	30				
1,1,1,2-Tetrachloroethane	85	74	58-128	13	30				
Ethylbenzene	75	69	50-136	8	30				
Styrene	70	65	46-137	6	30				
Bromoform	78	67	46-128	14	30				
1,1,2,2-Tetrachloroethane	98	73	31-166	28	30				
1,2,3-Trichloropropane	103	76	24-182	29	30				
1,2-Dibromo-3-chloropropane	87	70	22-163	20	30				
Acetone	133	111	10-195	18	30				
Carbon Disulfide	73	71	39-153	3	30				
2-Butanone	122	105	18-167	14	30				
trans-1,3-Dichloropropene	86	74	51-127	13	30				
cis-1,3-Dichloropropene	80	73	50-129	8	30				
4-Methyl-2-pentanone	85	77	31-153	10	30				
2-Hexanone	121	100	23-165	18	30				
Xylene (Total)	78	70	47-139	10	30				
Acrolein	53	58	17-156	11	30				
Acrylonitrile	79	71	40-140	11	30				
Methyl Iodide	79	74	52-141	5	30				
Acetonitrile	55	53	17-180	5	30				
Allyl Chloride	66	65	29-140	1	30				

*- Outside of specification
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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vinyl Acetate	44	30	1-227	38*	30				
2-Chloro-1,3-butadiene	74	71	47-140	4	30				
Propionitrile	87	80	33-162	7	30				
Methacrylonitrile	87	79	45-151	9	30				
Isobutyl Alcohol	82	77	10-184	6	30				
Methyl Methacrylate	88	77	33-152	12	30				
Ethyl Methacrylate	75	70	33-154	7	30				
trans-1,4-Dichloro-2-butene	96	69	27-162	32*	30				
Pentachloroethane	83	62	33-137	28	30				

Surrogate Quality Control

Analysis Name: Appendix IX Semivolatiles Soil
Batch number: 03226SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
4101132	93	86	97	99
4101133	95	86	93	95
4101134	96	90	101	97
4101136	88	84	93	93
4101137	92	83	91	95
4101138	93	88	101	96
4101139	91	88	98	96
4101140	91	87	92	96
4101141	89	83	89	94
4101142	92	85	93	95
4101143	93	85	100	97
4101144	92	86	102	95
4101145	99	90	101	98
4101147	91	85	101	92
Blank	91	86	95	90
LCS	95	87	101	96
MS	95	86	93	95
MSD	96	90	101	97
Limits:	45-120	41-119	32-140	47-128

	2-Fluorobiphenyl	Terphenyl-d14
4101132	94	110
4101133	89	78

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Surrogate Quality Control

4101134	92	87
4101136	89	97
4101137	94	80
4101138	91	86
4101139	92	88
4101140	92	87
4101141	90	117
4101142	90	81
4101143	91	128
4101144	89	91
4101145	92	86
4101147	90	82
Blank	89	85
LCS	89	84
MS	89	78
MSD	92	87
Limits:	55-123	39-128

Analysis Name: Appendix IX Semi-volatiles
Batch number: 03226WAA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
4101146	40	57	98	91
4101154	42	58	99	93
4101155	40	60	100	75
4101156	44	61	95	84
4101157	44	59	98	84
4101159	39	56	92	90
4101160	39	56	96	86
4101161	37	54	86	67
Blank	40	55	97	90
LCS	47	63	105	91
MS	44	61	95	84
MSD	44	59	98	84
Limits:	10-80	23-94	40-136	54-124

	2-Fluorobiphenyl	Terphenyl-d14
4101146	87	84
4101154	84	68
4101155	77	72
4101156	76	73
4101157	81	76
4101159	80	76
4101160	80	68
4101161	65	67

*- Outside of specification
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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Surrogate Quality Control

Blank	81	85
LCS	88	83
MS	76	73
MSD	81	76
Limits:	64-112	43-116

Analysis Name: Appendix IX Semivolatiles Soil
Batch number: 03231SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5
4101148	73	68	86	73
4101149	102	98	126	109
4101150	89	84	105	93
4101152	92	85	103	93
4101153	89	83	105	92
Blank	95	86	105	93
LCS	91	86	112	95
MS	102	98	126	109
MSD	89	84	105	93
Limits:	45-120	41-119	32-140	47-128

	2-Fluorobiphenyl	Terphenyl-d14
4101148	72	63
4101149	103	82
4101150	87	66
4101152	85	72
4101153	87	80
Blank	92	74
LCS	88	85
MS	103	82
MSD	87	66
Limits:	55-123	39-128

Analysis Name: Appendix IX by 8260 - water
Batch number: M032281AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4101146	102	102	103	96
4101154	102	103	102	95
4101155	100	102	102	95
4101156	99	98	104	100
4101157	100	104	105	109
4101159	103	100	102	95
4101160	103	102	103	94

*- Outside of specification
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Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Surrogate Quality Control

4101161	103	106	103	95
4101162	103	104	101	94
Blank	100	98	103	96
LCS	99	105	104	102
MS	99	98	104	100
MSD	100	104	105	109
Limits:	81-120	82-112	85-112	83-113

Analysis Name: Appendix IX by 8260 - soil
Batch number: X032271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4101132	107	113	117	88
4101140	106	108	121	85
4101141	105	107	116	89
Blank	103	103	111	99
LCS	103	101	108	99
MS	105	113	115	92
MSD	113	122*	114	89
Limits:	70-129	70-121	70-130	70-128

Analysis Name: Appendix IX by 8260 - soil
Batch number: X032271AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4101136	110	113	109	93
4101137	113	118	109	94
4101138	108	114	113	91
4101139	117	124*	107	93
4101142	107	113	106	97
4101143	113	114	112	94
4101144	109	108	118	86
4101145	113	114	112	90
Blank	105	105	108	99
LCS	103	101	108	99
MS	105	113	115	92
MSD	113	122*	114	89
Limits:	70-129	70-121	70-130	70-128

Analysis Name: Appendix IX by 8260 - soil
Batch number: X032311AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4101147	90	85	98	84
4101148	91	92	96	86

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

Lancaster Laboratories

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 863146
Reported: 09/02/03 at 10:59 AM

Surrogate Quality Control

4101149	91	85	98	85
4101150	91	90	94	92
4101152	91	87	95	88
4101153	90	89	97	86
Blank	91	89	91	93
LCS	91	90	92	94
MS	91	85	98	85
MSD	91	90	94	92
Limits:	70-129	70-121	70-130	70-128

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.

No. 73[illegible]9

Lancaste[illegible]boratories
2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-[illegible]/063146

1 Group#	1180861 Order ID	Project Number

DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A Davis		8260=Dibble Park List; 8270=Dibble Park List; Metals=APPIX	
Other Employees(s) Handling			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8260	8270	Metal	Moist
TOL-S-AOC 01-01 (0-0.5)	8-12-03	0930	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-01 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-02 (0-0.5)		0945	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-02 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-03 (0-0.5)		0950	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-03 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-04 (0-0.5)		1005	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-04 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-05 (0-0.5)		1015	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-05 (0-0.5)			SW	5	None	4	E			X			

Bottles Relinquished by K. Nuth	Date/Time 8-6-03 1100	Bottles Received by A. Davis	Date/Time 8-11-03/1200	Condition of Samples Upon arrival at Final Destination
Relinquished by A Davis	Date/Time 8-12-03/1200	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 3.5° C°
Relinquished by	Date/Time	Received by Kathy Binkley	Date/Time 8-13-03/0915	Signature Kathy Binkley Date 8-13-03

C03683

Cooler #5

No. 73[illegible]1

Lancaste boratories

2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-6-, 863146

1 Group#	1180861 Order ID	Project Number

DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A Davis		8260=Dibble Park List; 8270=Dibble Park List; Metals=APPIX	
Other Employees(s) Handling —			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8260	8270	Metal	Moist
TOL-S-AOC 01-01 (0-0.5)-DUP	8/12/03	0930	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-01 (0-0.5)-DUP	↓	↓	SW	5	None	4	E			X			
TOL-S-AOC 01-01 (0-0.5)-MS			SW	500	None	1	B				X	X	X
TOL-S-AOC 01-01 (0-0.5)-MS			SW	5	None	4	E			X			
TOL-S-AOC 01-01 (0-0.5)-MSD			SW	500	None	1	B				X	X	X
TOL-S-AOC 01-01 (0-0.5)-MSD	↓	↓	SW	5	None	4	E			X			

Bottles Relinquished by K. Hunt	Date/Time 8-6-03 1100	Bottles Received by A Davis	Date/Time 8-7-03 1200	Condition of Samples Upon arrival at Final Destination
Relinquished by A Davis	Date/Time 8-12-03 1700	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 3.5° c°
Relinquished by	Date/Time	Received by Kathy Brinkley	Date/Time 8-13-03 0915	Signature Kathy Brinkley Date 8-13-03

C03683

Cooler #5

No. 73 U

Lancaste iboratories

2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-__/863146

1 Group#	1180861 Order ID		Project Number
DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A. Davis	8260=Dibble Park List; 8270=Dibble Park List; Metals=APPIX		
Other Employees(s) Handling			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8260	8270	Metal	Moist
TOL-S-AOC 01-06 (0-0.5)	8-1-03	1020	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-06 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-07 (0-0.5)		1030	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-07 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-08 (0-0.5)		1040	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-08 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-09 (0-0.5)		1050	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-09 (0-0.5)			SW	5	None	4	E			X			
TOL-S-AOC 01-10 (0-0.5)		1100	SW	500	None	1	B				X	X	X
TOL-S-AOC 01-10 (0-0.5)			SW	5	None	4	E			X			

Bottles Relinquished by K. Stitt	Date/Time 8-6-03 1100	Bottles Received by A. Davis	Date/Time 8/1/03/1700	Condition of Samples Upon arrival at Final Destination
Relinquished by A. Davis	Date/Time 8/1/03/1700	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 3.5° C°
Relinquished by	Date/Time	Received by Kathy Buckley	Date/Time 8-13-03 0915	Signature Kathy Buckley Date 8-13-03

C03683

Cooler #5

No. 13[illegible]2

Lancaste[illegible]boratories
2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-[illegible]/863146

2 Group#	1180861 Order ID	Project Number

DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A. Davis		8260, 8270 = Dibble Park List; Metals=APPIX	
Other Employees(s) Handling			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8260	8270	Metals
TOL-K-AOC 01-EQBLK-01	8-12-03	1500	WW	40	HCl	3	V			X		
TOL-K-AOC 01-EQBLK-01	↓	↓	WW	500	HNO3	1	B					X
TOL-K-AOC 01-EQBLK-01	↓	↓	WW	1000	Na2S2O3	2	B				X	

Bottles Relinquished by [illegible]	Date/Time 8/5/03 1045	Bottles Received by A. Davis	Date/Time 8/12/03 1300	Condition of Samples Upon arrival at Final Destination
Relinquished by [illegible]	Date/Time 8/12/03 1700	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 3.0 C°
Relinquished by	Date/Time	Received by Kathy Binkley	Date/Time 8-13-03 0915	Signature Kathy Binkley Date 8-13-03

Cooler #1

C07655

No. 4

Lancaste laboratories
2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-62/863146

3 Group#	1180861 Order ID		Project Number

DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A. Davis		8260, 8270=Dibble Park List; Metals=APPIX	
Other Employees(s) Handling			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8260	8270	Metal	Moist
TOL-E-TC-01	8-12-03	1200	SW	40	MeOH	1	V			X			
TOL-E-TC-01			SW	500	None	1	B				X	X	X
TOL-E-TC-02		1145	SW	40	MeOH	1	V			X			
TOL-E-TC-02			SW	500	None	1	B				X	X	X
TOL-E-TC-03		1220	SW	40	MeOH	1	V			X			
TOL-E-TC-03			SW	500	None	1	B				X	X	X
TOL-E-TC-02 -DUP		1145	SW	40	MeOH	1	V			X			
TOL-E-TC-02 -DUP			SW	500	None	1	B				X	X	X
TOL-E-TC-02 -MS			SW	40	MeOH	1	V			X			
TOL-E-TC-02 -MS			SW	500	None	1	B				X	X	X
TOL-E-TC-02 -MSD			SW	40	MeOH	1	V			X			
TOL-E-TC-02 -MSD			SW	500	None	1	B				X	X	X

Bottles Relinquished by	Date/Time 8-6-03 1105	Bottles Received by A. Davis	Date/Time 8-11-03/1200	Condition of Samples Upon arrival at Final Destination
Relinquished by A. Davis	Date/Time 8-12-03/1700	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 3.8 KB 8-13-03
Relinquished by	Date/Time	Received by Kathy Brinkley	Date/Time 8-13-03/0915	Signature Kathy Brinkley Date 8-13-03

Cooler # 4 KB 8-13

105370

No. 73 8

Lancaste boratories

2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-64863146

4 Group#	1180861 Order ID	Project Number

DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A. Davis		8260=Dibble Park List	
Other Employees(s) Handling			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8260
TOL-W-TC-01	8-12-03	1415	WW	40	HCl	3	V			X
TOL-W-TC-02		1350	WW	40	HCl	3	V			X
TOL-W-TC-03		1440	WW	40	HCl	3	V			X
TOL-W-TC-02 -DUP		1350	WW	40	HCl	3	V			X
TOL-W-TC-02 -MS		1350	WW	40	HCl	3	V			X
TOL-W-TC-02 -MSD		1350	WW	40	HCl	3	V			X
TOL-K-TC-EQBLK-01		1510	WW	40	HCl	3	V			X
TOL-K-TBLK		~~1510~~	WW	40	HCl	3	V			X

Bottles Relinquished by [signature]	Date/Time 8/6/03 1107	Bottles Received by 8-11-03 [signature]	Date/Time 1200	Condition of Samples Upon arrival at Final Destination
Relinquished by A. Davis	Date/Time 8-12-03/1700	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 3°, ~~2.5°, 3.5°, 3°, 0°~~ 8-13-03
Relinquished by	Date/Time	Received by Kathy Binkley	Date/Time 8-13-03/0915	Signature Kathy Binkley Date 8-13-03

C04596

Cooler #1

No. 73[illegible]6

Lancaste[illegible]boratories
2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4161132-6, 863146

5 Group#	1180861 Order ID		Project Number
DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A. Davis		8270=Dibble Park List; Metals=APPIX	
Other Employees(s) Handling			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8270	Metals
TOL-W-TC-01	8/1/03	1415	WW	500	HNO3	1	B				X
TOL-W-TC-01		1415	WW	1000	Na2S2O3	2	B			X	
TOL-W-TC-02		1350	WW	500	HNO3	1	B				X
TOL-W-TC-02		1350	WW	1000	Na2S2O3	2	B			X	
TOL-W-TC-03		1440	WW	500	HNO3	1	B				X
TOL-W-TC-03		1440	WW	1000	Na2S2O3	2	B			X	

Bottles Relinquished by [illegible]	Date/Time 8/6/03 1155	Bottles Received by 8-11-03 A.	Date/Time 1520	Condition of Samples Upon arrival at Final Destination
Relinquished by A. Davis	Date/Time 8/1/03/1700	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival 25° c°
Relinquished by	Date/Time	Received by Kathy Bentley	Date/Time 8-13-03/0915	Signature Kathy Bentley Date 8-13-03

Cooler #2

C06662

No. 13[illegible]

Lancaste boratories

2425 New Holland Pike. PO Box 12425. Lancaster, PA 17605-2425

7032/4101132-6c, 363146

5 Group#	1180861 Order ID	Project Number	

DuPont Toledo Site Facility Name	302-992-6886 Telephone Number	Federal Express Transporter Name	Telephone Number
1930 Tremainsville Road Toledo OH 43613 Facility Address		Transporter Address	
Larry Reitz Facility Supervior		Express Saver Method of Shipping	
DIBBLE PARK INVESTIGATION Process Producing Sample		Special Shipping Instructions	
Employee(s) Sampling A. Davis		8270=Dibble Park List; Metals=APPIX	
Other Employees(s) Handling —			

Sample Description	Date	Time	Sample Type	Volume (ml)	Preservative	Quantity	Bottle Type			8270	Metals
TOL-W-TC-02 -DUP	8-12-03	1350	WW	500	HNO3	1	B				X
TOL-W-TC-02 -DUP			WW	1000	Na2S2O3	2	B			X	
TOL-W-TC-02 -MS			WW	500	HNO3	1	B				X
TOL-W-TC-02 -MS			WW	1000	Na2S2O3	2	B			X	
TOL-W-TC-02 -MSD			WW	500	HNO3	1	B				X
TOL-W-TC-02 -MSD			WW	1000	Na2S2O3	2	B			X	
TOL-K-TC-EQBLK-01		1510	WW	500	HNO3	1	B				X
TOL-K-TC-EQBLK-01		1510	WW	1000	Na2S2O3	2	B			X	

Bottles Relinquished by	Date/Time 8/13/03 1110	Bottles Received by	Date/Time 8-13-03/1200	Condition of Samples Upon arrival at Final Destination
Relinquished by	Date/Time 8/13/03 1200	Received by	Date/Time	intact
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival ~~3.5~~-3.5°C
Relinquished by	Date/Time	Received by Kathy Binkley	Date/Time 8-13-03/0915	Signature Kathy Binkley Date 8-13-03

KB 8-13-03

Cooler #3

C0333

ANALYTICAL DATA REPORT

EvSD
ENVIRONMENTAL SERVICES DIVISION

FILE

Environmental Services Division

CED Reporting Check List

Location Toledo Jobname Toledo Soils 3267

SLB	**Preliminary Administration** Sign out file/Update reporting schedule Review Project Sheet Verify location/jobname in sample table
SLB	**PROJECT BACKSTOP** Disk Deliverable Integrity QC Batch Integrity (Correct problems/ Pull backstop as necessary)
SLB	**COMPLETENESS CHECK** Samples ✓ 100% Tests ✓ 100% Parameters ___ 100% or ✓ <100%
Tmc	**ACCURACY CHECK** CED Results vs. Hard Copy Lab Reports
SLB	**COMMENTS/NARRATIVE REVIEW**
ADS	Overview Review Report Cover letter for customer
MR 11-9	Report Finish Title Page Copy and Bind
MR 11-9	Mail to Client(s)

Certified by [signature] Date 11/9/95

EvSD Reporting Check List
Revision 1.1 2/7/95

Reporting Process

The following process is followed on all projects where data is delivered to the CED and a report is generated from the CED. All projects which bypass the CED (are directly reported by a laboratory) do not receive the rigorous treatment presented below.

Preliminary Administration

To begin a report, the reporting coordinator checks out the file and updates the reporting schedule. A review of the project sheet is the next step to familiarize the coordinator with specifications and special instructions. Finally, the location and jobname is either added, corrected or verified to ensure all samples are properly identified as in the project.

Project Backstop

First, the backstop is used to check the disk deliverable integrity of all project data. This tool checks the CED readiness of the data. Second, quality control batch integrity is checked by the backstop. It is verified that all samples for each test have appropriate quality control samples attached.

Completeness Check

Data completeness is checked against project specifications. First, all sample points are identified as 100% complete. Then, all tests for each sample point are checked for 100% completeness. A parameter (or analyte) count is verified for each sample and test. A 100% parameter check and/or reporting threshold check can be done if requested in project specifications.

Accuracy Check

The results reported by disk and located in the CED are checked against the hard copy laboratory reports for accuracy. This stage is a 100% check of the accuracy of the data.

Comments/Narrative Review

Three steps are included in the comments/narrative review. First, any comments made by the laboratory are located in the hard copy reports. Second, the quality control section(s) of the laboratory reports are reviewed for obvious quality control deficiencies (matrix spike or replicate outside control limits without appropriate comment). If questionable, the laboratory is contacted for verification. Finally, the appropriate comments are entered into the CED.

Overview

The completed report is reviewed by a person familiar with the project (usually the customer service representative) and a cover letter is produced by the reviewer.

Report Finish/Mailing

The final step is to copy, bind and mail the report to the client(s) in the format specified in the project specifications.

Conoco Environmental Services Customer Survey

Name _____ Site/Location _____

Phone _____ Project Name _____

Date _____

(Optional Information - but helpful if you would like a direct response)

Environmental Services is interested in how our services impact you, our customer. A Customer Satisfaction Team composed of individuals representing all areas in EvSD has been established to receive feedback and drive improvement opportunities. We would appreciate your input and evaluation of our services.

EvSD Customer Satisfaction Team

5 = Outstanding
4 = Good
3 = Average
2 = Fair
1 = Poor

	Analytical	Sampling	Cone Penetrometer	Customer Support	Technology Support	Mapping	Statistical Analysis	Custom Reporting	Consulting	_____
Services Used (Check appropriate boxes)										
Quality										
Cost-Effectiveness										
Reponsiveness										
Overall Satisfaction										

Did EvSD meet all time contracts with you? YES NO

How can EvSD enhance its services to increase your satisfaction?

Additional comments:

Please return this form via company mail or fax.

EvSD Customer Satisfaction Team
P.O. Box 1267
220-7 ST
Ponca City, Oklahoma 74602

Fax (405) 767-3549
DuCOM 442-3549

Phone (405) 767-2465
DuCOM 442-2465

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

TO: Frank Smith; DERS East Coast

FROM: Andrew Stow; Conoco EVSD

DATE: November 9, 1995

SUBJECT: ***Toledo Soils Project 3267***

Attached are the analytical results for the Toledo Soils 3267 sampling event. If you have any questions about the analytical data, please contact Andrew Stow at DUCOM 442-4315.

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

TOLEDO

SOILS 3267

Location: TOLEDO
Project Name: TOLEDO SOILS 3267

Analyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
MOISTURE	8.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-1-BG1-(0-2)
BARIUM	82.		MG/KG	.67	11	6010A	95-10-02	TOL-DP-1-BG1-(0-2)
CHROMIUM	10.3		MG/KG	1.0	4.3	6010A	95-10-02	TOL-DP-1-BG1-(0-2)
LEAD	46.		MG/KG	2.8	11	6010A	95-10-02	TOL-DP-1-BG1-(0-2)
MERCURY	.027	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-1-BG1-(0-2)
MOISTURE	4.4		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-10-BG10-(0-2)
BARIUM	2000.		MG/KG	.65	10	6010A	95-10-02	TOL-DP-10-BG10-(0-2)
CHROMIUM	92.5		MG/KG	1.0	4.1	6010A	95-10-02	TOL-DP-10-BG10-(0-2)
LEAD	1700.		MG/KG	2.7	10	6010A	95-10-02	TOL-DP-10-BG10-(0-2)
MERCURY	.17		MG/KG	.017	0.1	7471A	95-10-02	TOL-DP-10-BG10-(0-2)
MOISTURE	6.7		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-11-BG11-(0-2)
BARIUM	2870.		MG/KG	.65	10	6010A	95-10-02	TOL-DP-11-BG11-(0-2)
CADMIUM	1.26	J	MG/KG	.36	2.1	6010A	95-10-02	TOL-DP-11-BG11-(0-2)
CHROMIUM	99.2		MG/KG	1.0	4.1	6010A	95-10-02	TOL-DP-11-BG11-(0-2)
LEAD	3270.		MG/KG	2.7	10	6010A	95-10-02	TOL-DP-11-BG11-(0-2)
MERCURY	.59		MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-11-BG11-(0-2)
MOISTURE	6.3		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-12-BG12-(0-2)
BARIUM	183.		MG/KG	.67	11	6010A	95-10-02	TOL-DP-12-BG12-(0-2)
CHROMIUM	19.4		MG/KG	1.0	4.3	6010A	95-10-02	TOL-DP-12-BG12-(0-2)
LEAD	147.		MG/KG	2.8	11	6010A	95-10-02	TOL-DP-12-BG12-(0-2)
MERCURY	.087	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-12-BG12-(0-2)
MOISTURE	7.5		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-2-BG2-(0-2)
BARIUM	49.		MG/KG	.66	10	6010A	95-10-02	TOL-DP-2-BG2-(0-2)
CHROMIUM	11.4		MG/KG	1.0	4.2	6010A	95-10-02	TOL-DP-2-BG2-(0-2)
LEAD	23.		MG/KG	2.7	10	6010A	95-10-02	TOL-DP-2-BG2-(0-2)
MERCURY	.048	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-2-BG2-(0-2)
MOISTURE	5.4		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-3-BG3-(0-2)
BARIUM	38.		MG/KG	.64	10	6010A	95-10-02	TOL-DP-3-BG3-(0-2)
CHROMIUM	8.6		MG/KG	1.0	4.1	6010A	95-10-02	TOL-DP-3-BG3-(0-2)
LEAD	12.		MG/KG	2.6	10	6010A	95-10-02	TOL-DP-3-BG3-(0-2)
MERCURY	.019	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-3-BG3-(0-2)
MOISTURE	7.9		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-4-BG4-(0-2)
BARIUM	63.		MG/KG	.67	11	6010A	95-10-02	TOL-DP-4-BG4-(0-2)
CHROMIUM	11.4		MG/KG	1.0	4.3	6010A	95-10-02	TOL-DP-4-BG4-(0-2)
LEAD	33.		MG/KG	2.8	11	6010A	95-10-02	TOL-DP-4-BG4-(0-2)
MERCURY	.040	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-4-BG4-(0-2)
MOISTURE	5.8		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-5-BG5-(0-2)
BARIUM	77.		MG/KG	.65	10	6010A	95-10-02	TOL-DP-5-BG5-(0-2)
CHROMIUM	13.3		MG/KG	1.0	4.1	6010A	95-10-02	TOL-DP-5-BG5-(0-2)
LEAD	39.		MG/KG	2.7	10	6010A	95-10-02	TOL-DP-5-BG5-(0-2)
MERCURY	.061	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-5-BG5-(0-2)
MOISTURE	3.5		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-6-BG6-(0-2)
BARIUM	56.		MG/KG	.65	10	6010A	95-10-02	TOL-DP-6-BG6-(0-2)
CHROMIUM	9.7		MG/KG	1.0	4.1	6010A	95-10-02	TOL-DP-6-BG6-(0-2)
LEAD	72.		MG/KG	2.7	10	6010A	95-10-02	TOL-DP-6-BG6-(0-2)
MERCURY	.16		MG/KG	.017	0.1	7471A	95-10-02	TOL-DP-6-BG6-(0-2)
MOISTURE	6.4		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-7-BG7-(0-2)
BARIUM	84.		MG/KG	.67	11	6010A	95-10-02	TOL-DP-7-BG7-(0-2)
CHROMIUM	10.9		MG/KG	1.0	4.2	6010A	95-10-02	TOL-DP-7-BG7-(0-2)
LEAD	31.		MG/KG	2.8	11	6010A	95-10-02	TOL-DP-7-BG7-(0-2)
MERCURY	.090	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-7-BG7-(0-2)
MOISTURE	5.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-8-BG8-(0-2)
BARIUM	90.		MG/KG	.66	11	6010A	95-10-02	TOL-DP-8-BG8-(0-2)
CHROMIUM	10.5		MG/KG	1.0	4.2	6010A	95-10-02	TOL-DP-8-BG8-(0-2)
LEAD	47.		MG/KG	2.7	11	6010A	95-10-02	TOL-DP-8-BG8-(0-2)
MERCURY	.023	J	MG/KG	.017	0.11	7471A	95-10-02	TOL-DP-8-BG8-(0-2)

Location: TOLEDO
Project Name: TOLEDO SOILS 3267

Analyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
MOISTURE	4.1		% BY WT.	.06	0.5	160.3 MOD.	95-10-02	TOL-DP-9-BG9-(0-2)
BARIUM	384.		MG/KG	.63	10	6010A	95-10-02	TOL-DP-9-BG9-(0-2)
CHROMIUM	16.6		MG/KG	1.0	4	6010A	95-10-02	TOL-DP-9-BG9-(0-2)
LEAD	1100.		MG/KG	2.6	10	6010A	95-10-02	TOL-DP-9-BG9-(0-2)
MERCURY	.098	J	MG/KG	.017	0.1	7471A	95-10-02	TOL-DP-9-BG9-(0-2)
BARIUM	.0854	J	MG/L	.0025	0.1	6010A	95-10-02	TOL-FBLK-1
CHROMIUM	.068		MG/L	.0073	0.03	6010A	95-10-02	TOL-FBLK-1
LEAD	.11		MG/L	.034	0.1	6010A	95-10-02	TOL-FBLK-1
MERCURY	.000155	J	MG/L	.000032	0.0002	7470A	95-10-02	TOL-FBLK-1
BARIUM	.95		MG/L	.0025	0.1	6010A	95-10-04	TOL-FBLK-2
CHROMIUM	.134		MG/L	.0073	0.03	6010A	95-10-04	TOL-FBLK-2
LEAD	.046	J	MG/L	.034	0.1	6010A	95-10-04	TOL-FBLK-2
MERCURY	.000119	J	MG/L	.000032	0.0002	7470A	95-10-04	TOL-FBLK-2
MOISTURE	17.8		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-10-(1.5-3.5)
BARIUM	35.		MG/KG	.77	12	6010A	95-10-04	TOL-FR-10-(1.5-3.5)
CHROMIUM	6.3		MG/KG	1.2	4.9	6010A	95-10-04	TOL-FR-10-(1.5-3.5)
LEAD	4.3	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-10-(1.5-3.5)
MERCURY	.031	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-10-(1.5-3.5)
METHYLENE CHLORIDE	4.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-10-(1.5-3.5)
XYLENE (TOTAL)	1.	J	UG/KG	1.	6	8240B	95-10-04	TOL-FR-10-(1.5-3.5)
MOISTURE	16.9		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-11-(1.5-3.5)
BARIUM	122.		MG/KG	.76	12	6010A	95-10-04	TOL-FR-11-(1.5-3.5)
CADMIUM	.97	J	MG/KG	.42	2.4	6010A	95-10-04	TOL-FR-11-(1.5-3.5)
CHROMIUM	15.7		MG/KG	1.1	4.8	6010A	95-10-04	TOL-FR-11-(1.5-3.5)
LEAD	10.3	J	MG/KG	3.1	12	6010A	95-10-04	TOL-FR-11-(1.5-3.5)
MERCURY	.038	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-11-(1.5-3.5)
METHYLENE CHLORIDE	4.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-11-(1.5-3.5)
MOISTURE	17.7		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-12-(1.5-3.5)
BARIUM	81.		MG/KG	.77	12	6010A	95-10-04	TOL-FR-12-(1.5-3.5)
CADMIUM	.54	J	MG/KG	.43	2.4	6010A	95-10-04	TOL-FR-12-(1.5-3.5)
CHROMIUM	18.3		MG/KG	1.2	4.9	6010A	95-10-04	TOL-FR-12-(1.5-3.5)
LEAD	9.5	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-12-(1.5-3.5)
MERCURY	.043	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-12-(1.5-3.5)
METHYLENE CHLORIDE	4.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-12-(1.5-3.5)
MOISTURE	17.7		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-13-(1.5-3.5)
BARIUM	76.		MG/KG	.75	12	6010A	95-10-04	TOL-FR-13-(1.5-3.5)
CADMIUM	.53	J	MG/KG	.42	2.4	6010A	95-10-04	TOL-FR-13-(1.5-3.5)
CHROMIUM	12.6		MG/KG	1.1	4.8	6010A	95-10-04	TOL-FR-13-(1.5-3.5)
LEAD	14.		MG/KG	3.1	12	6010A	95-10-04	TOL-FR-13-(1.5-3.5)
MERCURY	.035	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-13-(1.5-3.5)
MOISTURE	16.9		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-13-(5.5-7.5)
ETHYLBENZENE	75.		UG/KG	1.	6	8240B	95-10-04	TOL-FR-13-(5.5-7.5)
METHYLENE CHLORIDE	6.		UG/KG	2.	6	8240B	95-10-04	TOL-FR-13-(5.5-7.5)
TOLUENE	31000.		UG/KG	1.	6	8240B	95-10-04	TOL-FR-13-(5.5-7.5)
XYLENE (TOTAL)	600.		UG/KG	1.	6	8240B	95-10-04	TOL-FR-13-(5.5-7.5)
MOISTURE	17.6		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-14-(1.5-3.5)
BARIUM	37.		MG/KG	.75	12	6010A	95-10-04	TOL-FR-14-(1.5-3.5)
CHROMIUM	9.0		MG/KG	1.1	4.8	6010A	95-10-04	TOL-FR-14-(1.5-3.5)
LEAD	7.1	J	MG/KG	3.1	12	6010A	95-10-04	TOL-FR-14-(1.5-3.5)
MERCURY	.024	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-14-(1.5-3.5)
MOISTURE	18.9		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-14-(5.5-7.5)
METHYLENE CHLORIDE	7.		UG/KG	2.	6	8240B	95-10-04	TOL-FR-14-(5.5-7.5)
MOISTURE	16.3		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-15-(1.5-3.5)
BARIUM	51.		MG/KG	.75	12	6010A	95-10-04	TOL-FR-15-(1.5-3.5)
CADMIUM	.49	J	MG/KG	.42	2.4	6010A	95-10-04	TOL-FR-15-(1.5-3.5)
CHROMIUM	12.1		MG/KG	1.1	4.8	6010A	95-10-04	TOL-FR-15-(1.5-3.5)
LEAD	7.4	J	MG/KG	3.1	12	6010A	95-10-04	TOL-FR-15-(1.5-3.5)
MERCURY	.028	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-15-(1.5-3.5)

Location: TOLEDO
Project Name: TOLEDO SOILS 3267

Analyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-15-(1.5-3.5)
MOISTURE	16.7		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-16-(1.5-3.5)
BARIUM	89.		MG/KG	.76	12	6010A	95-10-04	TOL-FR-16-(1.5-3.5)
CADMIUM	.68	J	MG/KG	.42	2.4	6010A	95-10-04	TOL-FR-16-(1.5-3.5)
CHROMIUM	19.7		MG/KG	1.1	4.8	6010A	95-10-04	TOL-FR-16-(1.5-3.5)
LEAD	10.2	J	MG/KG	3.1	12	6010A	95-10-04	TOL-FR-16-(1.5-3.5)
MERCURY	.032	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-16-(1.5-3.5)
MOISTURE	19.0		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-16-(3.5-5.5)
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-16-(3.5-5.5)
MOISTURE	15.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-17-(1.5-3.5)
BARIUM	65.		MG/KG	.71	11	6010A	95-10-04	TOL-FR-17-(1.5-3.5)
CADMIUM	.55	J	MG/KG	.40	2.3	6010A	95-10-04	TOL-FR-17-(1.5-3.5)
CHROMIUM	12.0		MG/KG	1.1	4.5	6010A	95-10-04	TOL-FR-17-(1.5-3.5)
LEAD	6.6	J	MG/KG	2.9	11	6010A	95-10-04	TOL-FR-17-(1.5-3.5)
MERCURY	.030	J	MG/KG	.017	0.11	7471A	95-10-04	TOL-FR-17-(1.5-3.5)
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-17-(1.5-3.5)
MOISTURE	15.3		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-4-(1.5-3.5)
BARIUM	70.		MG/KG	.74	12	6010A	95-10-04	TOL-FR-4-(1.5-3.5)
CADMIUM	.55	J	MG/KG	.41	2.4	6010A	95-10-04	TOL-FR-4-(1.5-3.5)
CHROMIUM	12.9		MG/KG	1.1	4.7	6010A	95-10-04	TOL-FR-4-(1.5-3.5)
LEAD	16.		MG/KG	3.1	12	6010A	95-10-04	TOL-FR-4-(1.5-3.5)
MERCURY	.038	J	MG/KG	.018	0.11	7471A	95-10-04	TOL-FR-4-(1.5-3.5)
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-4-(1.5-3.5)
MOISTURE	16.6		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-5-(1.5-3.5)
BARIUM	90.		MG/KG	.73	12	6010A	95-10-04	TOL-FR-5-(1.5-3.5)
CADMIUM	.47	J	MG/KG	.40	2.3	6010A	95-10-04	TOL-FR-5-(1.5-3.5)
CHROMIUM	12.3		MG/KG	1.1	4.6	6010A	95-10-04	TOL-FR-5-(1.5-3.5)
LEAD	12.		MG/KG	3.0	12	6010A	95-10-04	TOL-FR-5-(1.5-3.5)
MERCURY	.039	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-5-(1.5-3.5)
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-5-(1.5-3.5)
MOISTURE	17.9		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-6-(1.5-3.5)
BARIUM	43.		MG/KG	.77	12	6010A	95-10-04	TOL-FR-6-(1.5-3.5)
CHROMIUM	10.4		MG/KG	1.2	4.9	6010A	95-10-04	TOL-FR-6-(1.5-3.5)
LEAD	6.5	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-6-(1.5-3.5)
MERCURY	.032	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-6-(1.5-3.5)
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-6-(1.5-3.5)
XYLENE (TOTAL)	1.	J	UG/KG	1.	6	8240B	95-10-04	TOL-FR-6-(1.5-3.5)
MOISTURE	19.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-7-(1.5-3.5)
BARIUM	228.		MG/KG	.78	12	6010A	95-10-04	TOL-FR-7-(1.5-3.5)
CADMIUM	1.95	J	MG/KG	.43	2.5	6010A	95-10-04	TOL-FR-7-(1.5-3.5)
CHROMIUM	12.7		MG/KG	1.2	5	6010A	95-10-04	TOL-FR-7-(1.5-3.5)
LEAD	10.6	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-7-(1.5-3.5)
MERCURY	.024	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-7-(1.5-3.5)
MOISTURE	20.8		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-7-(3.5-5.5)
BENZENE	1.	J	UG/KG	1.	6	8240B	95-10-04	TOL-FR-7-(3.5-5.5)
ETHYLBENZENE	710.		UG/KG	1.	6	8240B	95-10-04	TOL-FR-7-(3.5-5.5)
METHYLENE CHLORIDE	6.	J	UG/KG	3.	6	8240B	95-10-04	TOL-FR-7-(3.5-5.5)
XYLENE (TOTAL)	33000.		UG/KG	1.	6	8240B	95-10-04	TOL-FR-7-(3.5-5.5)
MOISTURE	17.0		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-8-(1.5-3.5)
BARIUM	48.		MG/KG	.76	12	6010A	95-10-04	TOL-FR-8-(1.5-3.5)
CADMIUM	.61	J	MG/KG	.42	2.4	6010A	95-10-04	TOL-FR-8-(1.5-3.5)
CHROMIUM	7.2		MG/KG	1.1	4.8	6010A	95-10-04	TOL-FR-8-(1.5-3.5)
LEAD	7.0	J	MG/KG	3.1	12	6010A	95-10-04	TOL-FR-8-(1.5-3.5)
MERCURY	.023	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-8-(1.5-3.5)
METHYLENE CHLORIDE	5.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-8-(1.5-3.5)
MOISTURE	18.0		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-9-(1.5-3.5)
BARIUM	45.		MG/KG	.77	12	6010A	95-10-04	TOL-FR-9-(1.5-3.5)
CADMIUM	.57	J	MG/KG	.43	2.4	6010A	95-10-04	TOL-FR-9-(1.5-3.5)

Location: TOLEDO
Project Name: TOLEDO SOILS 3267

Analyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
CHROMIUM	10.0		MG/KG	1.2	4.9	6010A	95-10-04	TOL-FR-9-(1.5-3.5)
LEAD	5.7	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-9-(1.5-3.5)
MERCURY	.034	J	MG/KG	.019	0.12	7471A	95-10-04	TOL-FR-9-(1.5-3.5)
METHYLENE CHLORIDE	4.	J	UG/KG	2.	6	8240B	95-10-04	TOL-FR-9-(1.5-3.5)
BARIUM	.59		MG/L	.0025	0.1	6010A	95-10-05	TOL-FBLK-4
CHROMIUM	.036		MG/L	.0073	0.03	6010A	95-10-05	TOL-FBLK-4
MERCURY	.000107	J	MG/L	.0000320	.0002	7470A	95-10-05	TOL-FBLK-4
MOISTURE	16.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-1-(1.5-3.5)
BARIUM	58.		MG/KG	.73	12	6010A	95-10-04	TOL-FR-1-(1.5-3.5)
CHROMIUM	12.4		MG/KG	1.1	4.6	6010A	95-10-04	TOL-FR-1-(1.5-3.5)
LEAD	6.3	J	MG/KG	3.0	12	6010A	95-10-04	TOL-FR-1-(1.5-3.5)
MERCURY	.030	J	MG/KG	.018	0.12	7471A	95-10-04	TOL-FR-1-(1.5-3.5)
MOISTURE	18.4		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-1-(3.5-5.5)
MOISTURE	14.6		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-18-(1.5-3.5)
BARIUM	57.		MG/KG	.74	12	6010A	95-10-05	TOL-FR-18-(1.5-3.5)
CHROMIUM	8.2		MG/KG	1.1	4.7	6010A	95-10-05	TOL-FR-18-(1.5-3.5)
LEAD	36.		MG/KG	3.0	12	6010A	95-10-05	TOL-FR-18-(1.5-3.5)
MERCURY	.026	J	MG/KG	.018	0.11	7471A	95-10-05	TOL-FR-18-(1.5-3.5)
MOISTURE	14.1		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-19-(1.5-3.5)
BARIUM	1620.		MG/KG	7.3	120	6010A	95-10-05	TOL-FR-19-(1.5-3.5)
CADMIUM	1.55	J	MG/KG	.41	2.3	6010A	95-10-05	TOL-FR-19-(1.5-3.5)
CHROMIUM	84.5		MG/KG	1.1	4.7	6010A	95-10-05	TOL-FR-19-(1.5-3.5)
LEAD	4070.		MG/KG	3.0	12	6010A	95-10-05	TOL-FR-19-(1.5-3.5)
MERCURY	.16		MG/KG	.019	0.12	7471A	95-10-05	TOL-FR-19-(1.5-3.5)
BENZENE	3.	J	UG/KG	1.	6	8240B	95-10-05	TOL-FR-19-(1.5-3.5)
ETHYLBENZENE	2.	J	UG/KG	1.	6	8240B	95-10-05	TOL-FR-19-(1.5-3.5)
XYLENE (TOTAL)	2.	J	UG/KG	1.	6	8240B	95-10-05	TOL-FR-19-(1.5-3.5)
MOISTURE	18.3		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-2-(1.5-3.5)
BARIUM	29.		MG/KG	.77	12	6010A	95-10-04	TOL-FR-2-(1.5-3.5)
CHROMIUM	6.6		MG/KG	1.2	4.9	6010A	95-10-04	TOL-FR-2-(1.5-3.5)
LEAD	6.2	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-2-(1.5-3.5)
MOISTURE	19.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-2-(3.5-5.5)
METHYLENE CHLORIDE	19.		UG/KG	2.	6	8240B	95-10-04	TOL-FR-2-(3.5-5.5)
XYLENE (TOTAL)	1.	J	UG/KG	1.	6	8240B	95-10-04	TOL-FR-2-(3.5-5.5)
MOISTURE	13.5		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-20-(1.5-3.5)
BARIUM	754.		MG/KG	3.6	58	6010A	95-10-05	TOL-FR-20-(1.5-3.5)
CADMIUM	2.4		MG/KG	.40	2.3	6010A	95-10-05	TOL-FR-20-(1.5-3.5)
CHROMIUM	22.6		MG/KG	1.1	4.6	6010A	95-10-05	TOL-FR-20-(1.5-3.5)
LEAD	344.		MG/KG	3.0	12	6010A	95-10-05	TOL-FR-20-(1.5-3.5)
MERCURY	.12		MG/KG	.018	0.11	7471A	95-10-05	TOL-FR-20-(1.5-3.5)
METHYLENE CHLORIDE	13.		UG/KG	2.	6	8240B	95-10-05	TOL-FR-20-(1.5-3.5)
MOISTURE	15.9		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-20-(3.5-5.5)
BARIUM	70.		MG/KG	.74	12	6010A	95-10-05	TOL-FR-20-(3.5-5.5)
CHROMIUM	13.3		MG/KG	1.1	4.7	6010A	95-10-05	TOL-FR-20-(3.5-5.5)
LEAD	16.		MG/KG	3.1	12	6010A	95-10-05	TOL-FR-20-(3.5-5.5)
MERCURY	.031	J	MG/KG	.019	0.12	7471A	95-10-05	TOL-FR-20-(3.5-5.5)
MOISTURE	21.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-21-(3.5-5.5)
BARIUM	67.		MG/KG	.79	13	6010A	95-10-05	TOL-FR-21-(3.5-5.5)
CHROMIUM	12.2		MG/KG	1.2	5	6010A	95-10-05	TOL-FR-21-(3.5-5.5)
LEAD	10.8	J	MG/KG	3.3	13	6010A	95-10-05	TOL-FR-21-(3.5-5.5)
MERCURY	.067	J	MG/KG	.020	0.12	7471A	95-10-05	TOL-FR-21-(3.5-5.5)
MOISTURE	19.0		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-22-(1.5-3.5)
BARIUM	66.		MG/KG	.78	12	6010A	95-10-05	TOL-FR-22-(1.5-3.5)
CADMIUM	.48	J	MG/KG	.43	2.5	6010A	95-10-05	TOL-FR-22-(1.5-3.5)
CHROMIUM	9.5		MG/KG	1.2	4.9	6010A	95-10-05	TOL-FR-22-(1.5-3.5)
LEAD	42.		MG/KG	3.2	12	6010A	95-10-05	TOL-FR-22-(1.5-3.5)
MERCURY	.050	J	MG/KG	.020	0.12	7471A	95-10-05	TOL-FR-22-(1.5-3.5)

Location: TOLEDO
Project Name: TOLEDO SOILS 3267

Analyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
MOISTURE	18.5		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-3-(1.5-3.5)
BARIUM	54.		MG/KG	.77	12	6010A	95-10-04	TOL-FR-3-(1.5-3.5)
CHROMIUM	9.4		MG/KG	1.2	4.9	6010A	95-10-04	TOL-FR-3-(1.5-3.5)
LEAD	6.5	J	MG/KG	3.2	12	6010A	95-10-04	TOL-FR-3-(1.5-3.5)
MERCURY	.026	J	MG/KG	.020	0.12	7471A	95-10-04	TOL-FR-3-(1.5-3.5)
MOISTURE	18.8		% BY WT.	.06	0.5	160.3 MOD.	95-10-04	TOL-FR-3-(5.5-7.5)
METHYLENE CHLORIDE	18.		UG/KG	2.	6	8240B	95-10-04	TOL-FR-3-(5.5-7.5)
MOISTURE	14.6		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-FR-31
BARIUM	46.		MG/KG	.74	12	6010A	95-10-05	TOL-FR-31
CHROMIUM	7.2		MG/KG	1.1	4.7	6010A	95-10-05	TOL-FR-31
LEAD	18.		MG/KG	3.0	12	6010A	95-10-05	TOL-FR-31
MERCURY	.029	J	MG/KG	.017	0.11	7471A	95-10-05	TOL-FR-31
MOISTURE	21.2		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-TA-1-(3-5)
TOTAL ORGANIC CARBON	13000.		MG/KG	800.	4000	415.1 MOD.	95-10-05	TOL-TA-1-(3-5)
MOISTURE	20.6		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-TA-2-(3-5)
TOTAL ORGANIC CARBON	15000.		MG/KG	500.	3000	415.1 MOD.	95-10-05	TOL-TA-2-(3-5)
MOISTURE	17.3		% BY WT.	.06	0.5	160.3 MOD.	95-10-05	TOL-TA-3-(6.5-8.5)
TOTAL ORGANIC CARBON	26000.		MG/KG	1000.	5000	415.1 MOD.	95-10-05	TOL-TA-3-(6.5-8.5)

conoco

A DuPont Subsidiary

GPS 5101

ANALYTICAL DATA REPORT

EvSD

ENVIRONMENTAL SERVICES DIVISION

FILE

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

TO: Frank Smith; DERS East Coast

FROM: Andrew Stow; Conoco EVSD

DATE: January 16, 1996

SUBJECT: ***Toledo Soils Project***

Attached are the analytical results for the Toledo Soils. If you have any questions about the analytical data, please contact Andrew Stow at DUCOM 442-4315.

Environmental Services Division

CED Reporting Check List

Location Toledo Jobname Toledo Soils Project

RAM	**Preliminary Administration** Sign out file/Update reporting schedule Review Project Sheet Verify location/jobname in sample table
RAM	**PROJECT BACKSTOP** Disk Deliverable Integrity QC Batch Integrity (Correct problems/ Pull backstop as necessary)
RAM	**COMPLETENESS CHECK** Samples ✓ 100% Tests ✓ 100% Parameters ✓ 100% or ____ <100%
AKS	**ACCURACY CHECK** CED Results vs. Hard Copy Lab Reports
RAM	**COMMENTS/NARRATIVE REVIEW**
AOS	Overview Review Report Cover letter for customer
RR	Report Finish Title Page Copy and Bind
RR 1-16	Mail to Client(s)

Certified by [signature] Date 1/15/96

Reporting Process

The following process is followed on all projects where data is delivered to the CED and a report is generated from the CED. All projects which bypass the CED (are directly reported by a laboratory) do not receive the rigorous treatment presented below.

Preliminary Administration

To begin a report, the reporting coordinator checks out the file and updates the reporting schedule. A review of the project sheet is the next step to familiarize the coordinator with specifications and special instructions. Finally, the location and jobname is either added, corrected or verified to ensure all samples are properly identified as in the project.

Project Backstop

First, the backstop is used to check the disk deliverable integrity of all project data. This tool checks the CED readiness of the data. Second, quality control batch integrity is checked by the backstop. It is verified that all samples for each test have appropriate quality control samples attached.

Completeness Check

Data completeness is checked against project specifications. First, all sample points are identified as 100% complete. Then, all tests for each sample point are checked for 100% completeness. A parameter (or analyte) count is verified for each sample and test. A 100% parameter check and/or reporting threshold check can be done if requested in project specifications.

Accuracy Check

The results reported by disk and located in the CED are checked against the hard copy laboratory reports for accuracy. This stage is a 100% check of the accuracy of the data.

Comments/Narrative Review

Three steps are included in the comments/narrative review. First, any comments made by the laboratory are located in the hard copy reports. Second, the quality control section(s) of the laboratory reports are reviewed for obvious quality control deficiencies (matrix spike or replicate outside control limits without appropriate comment). If questionable, the laboratory is contacted for verification. Finally, the appropriate comments are entered into the CED.

Overview

The completed report is reviewed by a person familiar with the project (usually the customer service representative) and a cover letter is produced by the reviewer.

Report Finish/Mailing

The final step is to copy, bind and mail the report to the client(s) in the format specified in the project specifications.

Conoco Environmental Services Customer Survey

Name _____ Site/Location _____

Phone _____ Project Name _____

Date _____

(Optional Information - but helpful if you would like a direct response)

Environmental Services is interested in how our services impact you, our customer. A Customer Satisfaction Team composed of individuals representing all areas in EvSD has been established to receive feedback and drive improvement opportunities. We would appreciate your input and evaluation of our services.

EvSD Customer Satisfaction Team

5 = Outstanding
4 = Good
3 = Average
2 = Fair
1 = Poor

	Analytical	Sampling	Cone Penetrometer	Customer Support	Technology Support	Mapping	Statistical Analysis	Custom Reporting	Consulting	_____
Services Used (Check appropriate boxes)										
Quality										
Cost-Effectiveness										
Reponsiveness										
Overall Satisfaction										

Did EvSD meet all time contracts with you? YES NO

How can EvSD enhance its services to increase your satisfaction?

Additional comments:

Please return this form via company mail or fax.

EvSD Customer Satisfaction Team
P.O. Box 1267
220-7 ST
Ponca City, Oklahoma 74602

Fax (405) 767-3549
DuCOM 442-3549

Phone (405) 767-2465
DuCOM 442-2465

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

TOLEDO

SOILS PROJECT

Location: TOLEDO
Project Name: TOLEDO SOILS PROJECT
Sample Source: TOL-BG-13
Sample Name: TOL-BG-13
Date Sampled: December 22, 1995
Lab Sample ID: 2439262-1 Analysis Lab: LANCAS

Method Number: 160.3 MOD.

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MOISTURE	1	14.5		.06	0.5	% BY WT.	Jan 2, 1996

Method Number: 6010A Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
BARIUM	1	48.		.72	11	MG/KG	Dec 31, 1995
CADMIUM	1	< .40		.40	2.3	MG/KG	Dec 31, 1995
CHROMIUM	1	10.2		1.1	4.6	MG/KG	Dec 31, 1995

Method Number: 7421 Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
LEAD	5	9.3		.51	5.8	MG/KG	Jan 3, 1996

Method Number: 7471A Prep Method: 7471A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MERCURY	1	.028	J	.018	0.12	MG/KG	Jan 4, 1996

Location: TOLEDO
Project Name: TOLEDO SOILS PROJECT
Sample Source: TOL-BG-14
Sample Name: TOL-BG-14
Date Sampled: December 22, 1995
Lab Sample ID: 2439263-1 Analysis Lab: LANCAS

Method Number: 160.3 MOD.

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MOISTURE	1	13.5		.06	0.5	% BY WT.	Jan 2, 1996

Method Number: 6010A Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
BARIUM	1	20.		.73	12	MG/KG	Dec 31, 1995
CADMIUM	1	< .40		.40	2.3	MG/KG	Dec 31, 1995
CHROMIUM	1	5.6		1.1	4.6	MG/KG	Dec 31, 1995

Method Number: 7421 Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
LEAD	2	5.4		.20	2.3	MG/KG	Jan 3, 1996

Method Number: 7471A Prep Method: 7471A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MERCURY	1	.025	J	.018	0.12	MG/KG	Jan 4, 1996

Location: TOLEDO
Project Name: TOLEDO SOILS PROJECT
Sample Source: TOL-BG-15
Sample Name: TOL-BG-15
Date Sampled: December 22, 1995
Lab Sample ID: 2439264-1 Analysis Lab: LANCAS

Method Number: 160.3 MOD.

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MOISTURE	1	17.9		.06	0.5	% BY WT.	Jan 2, 1996

Method Number: 6010A Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
BARIUM	1	46.		.75	12	MG/KG	Dec 31, 1995
CADMIUM	1	< .42		.42	2.4	MG/KG	Dec 31, 1995
CHROMIUM	1	12.6		1.1	4.8	MG/KG	Dec 31, 1995

Method Number: 7421 Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
LEAD	2	6.1		.21	2.4	MG/KG	Jan 3, 1996

Method Number: 7471A Prep Method: 7471A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MERCURY	1	.041	J	.019	0.12	MG/KG	Jan 4, 1996

Location: TOLEDO
Project Name: TOLEDO SOILS PROJECT
Sample Source: TOL-BG-16
Sample Name: TOL-BG-16
Date Sampled: December 22, 1995
Lab Sample ID: 2439265-1 Analysis Lab: LANCAS

Method Number: 160.3 MOD.

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MOISTURE	1	13.4		.06	0.5	% BY WT.	Jan 2, 1996

Method Number: 6010A Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
BARIUM	1	32.		.73	12	MG/KG	Dec 31, 1995
CADMIUM	1	< .40		.40	2.3	MG/KG	Dec 31, 1995
CHROMIUM	1	9.5		1.1	4.6	MG/KG	Dec 31, 1995

Method Number: 7421 Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
LEAD	5	10.2		.51	5.8	MG/KG	Jan 3, 1996

Method Number: 7471A Prep Method: 7471A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MERCURY	1	.028	J	.018	0.11	MG/KG	Jan 4, 1996

Location: TOLEDO
Project Name: TOLEDO SOILS PROJECT
Sample Source: TOL-BG-17
Sample Name: TOL-BG-17
Date Sampled: December 22, 1995
Lab Sample ID: 2439266-1 Analysis Lab: LANCAS

Method Number: 160.3 MOD.

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MOISTURE	1	17.9		.06	0.5	% BY WT.	Jan 2, 1996

Method Number: 6010A Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
BARIUM	1	38.		.77	12	MG/KG	Dec 31, 1995
CADMIUM	1	< .43		.43	2.4	MG/KG	Dec 31, 1995
CHROMIUM	1	10.4		1.2	4.9	MG/KG	Dec 31, 1995

Method Number: 7421 Prep Method: 3050A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
LEAD	2	5.2		.21	2.4	MG/KG	Jan 3, 1996

Method Number: 7471A Prep Method: 7471A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MERCURY	1	.030	J	.018	0.12	MG/KG	Jan 4, 1996

Location: TOLEDO
Project Name: TOLEDO SOILS PROJECT
Sample Source: TOL-EQBLK-1
Sample Name: TOL-EQBLK-1
Date Sampled: December 22, 1995
Lab Sample ID: 2439267-1 Analysis Lab: LANCAS

Method Number: 6010A Prep Method: 3010A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
BARIUM	1	.0080	J	.0025	0.1	MG/L	Dec 30, 1995
CADMIUM	1	< .0026		.0026	0.01	MG/L	Dec 30, 1995
CHROMIUM	1	< .0073		.0073	0.03	MG/L	Dec 30, 1995

Method Number: 7421 Prep Method: 3020A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
LEAD	1	< .0017		.0017	0.003	MG/L	Jan 4, 1996

Method Number: 7470A Prep Method: 7470A

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
MERCURY	1	.000067	J	.000032	0.0002	MG/L	Dec 29, 1995

Conoco Environmental Services
Lab Analysis Report
Summary of Positive Results

January 15, 1996

ocation: TOLEDO
oject Name: TOLEDO SOILS PROJECT

lyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
MOISTURE	14.5		% BY WT.	.06	0.5	160.3 MOD.	95-12-22	TOL-BG-13
BARIUM	48.		MG/KG	.72	11	6010A	95-12-22	TOL-BG-13
HROMIUM	10.2		MG/KG	1.1	4.6	6010A	95-12-22	TOL-BG-13
EAD	9.3		MG/KG	.51	5.8	7421	95-12-22	TOL-BG-13
ERCURY	.028	J	MG/KG	.018	0.12	7471A	95-12-22	TOL-BG-13
MOISTURE	13.5		% BY WT.	.06	0.5	160.3 MOD.	95-12-22	TOL-BG-14
ARIUM	20.		MG/KG	.73	12	6010A	95-12-22	TOL-BG-14
HROMIUM	5.6		MG/KG	1.1	4.6	6010A	95-12-22	TOL-BG-14
LEAD	5.4		MG/KG	.20	2.3	7421	95-12-22	TOL-BG-14
MERCURY	.025	J	MG/KG	.018	0.12	7471A	95-12-22	TOL-BG-14
OISTURE	17.9		% BY WT.	.06	0.5	160.3 MOD.	95-12-22	TOL-BG-15
ARIUM	46.		MG/KG	.75	12	6010A	95-12-22	TOL-BG-15
CHROMIUM	12.6		MG/KG	1.1	4.8	6010A	95-12-22	TOL-BG-15
LEAD	6.1		MG/KG	.21	2.4	7421	95-12-22	TOL-BG-15
ERCURY	.041	J	MG/KG	.019	0.12	7471A	95-12-22	TOL-BG-15
OISTURE	13.4		% BY WT.	.06	0.5	160.3 MOD.	95-12-22	TOL-BG-16
BARIUM	32.		MG/KG	.73	12	6010A	95-12-22	TOL-BG-16
CHROMIUM	9.5		MG/KG	1.1	4.6	6010A	95-12-22	TOL-BG-16
EAD	10.2		MG/KG	.51	5.8	7421	95-12-22	TOL-BG-16
ERCURY	.028	J	MG/KG	.018	0.11	7471A	95-12-22	TOL-BG-16
MOISTURE	17.9		% BY WT.	.06	0.5	160.3 MOD.	95-12-22	TOL-BG-17
ARIUM	38.		MG/KG	.77	12	6010A	95-12-22	TOL-BG-17
HROMIUM	10.4		MG/KG	1.2	4.9	6010A	95-12-22	TOL-BG-17
EAD	5.2		MG/KG	.21	2.4	7421	95-12-22	TOL-BG-17
MERCURY	.030	J	MG/KG	.018	0.12	7471A	95-12-22	TOL-BG-17
IUM	.0080	J	MG/L	.0025	0.1	6010A	95-12-22	TOL-EQBLK-1
CURY	.000067	J	MG/L	.000032	0.0002	7470A	95-12-22	TOL-EQBLK-1

Method Number: 160.3 MOD. Prep Method: Pre-prep:
Batch Start Date: 02JAN96
Instrument: 003636
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-BG-13	22DEC95	LANCAS 2439262 1
TOL-BG-14	22DEC95	LANCAS 2439263 1
TOL-BG-15	22DEC95	LANCAS 2439264 1
TOL-BG-16	22DEC95	LANCAS 2439265 1
TOL-BG-17	22DEC95	LANCAS 2439266 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
MOISTURE	100	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
MOISTURE	100	0	LCSD -1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
MOISTURE	6	% BY WT.	8	2439390-1 LANCAS

Method Number: 6010A Prep Method: 3010A Pre-prep:
Batch Start Date: 29DEC95
Instrument: 02360
Batch Number: 4

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-EQBLK-1	22DEC95	LANCAS 2439267 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
BARIUM	98	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
BARIUM	99	1	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
BARIUM	103	2436110-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
BARIUM	101	1	2436110-1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
BARIUM	0.29	MG/L	0	2436110-1 LANCAS

Method Number: 6010A Prep Method: 3050A Pre-prep:
Batch Start Date: 29DEC95
Instrument: 05936
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-BG-13	22DEC95	LANCAS 2439262 1
TOL-BG-14	22DEC95	LANCAS 2439263 1
TOL-BG-15	22DEC95	LANCAS 2439264 1
TOL-BG-16	22DEC95	LANCAS 2439265 1
TOL-BG-17	22DEC95	LANCAS 2439266 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
BARIUM	91	LCS -1 LANCAS
CADMIUM	97	LCS -1 LANCAS
CHROMIUM	96	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
BARIUM	87	4	LCSD -1 LANCAS
CADMIUM	94	3	LCSD -1 LANCAS
CHROMIUM	93	3	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
BARIUM	93	2439266-1 LANCAS
CADMIUM	94	2439266-1 LANCAS
CHROMIUM	105	2439266-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
BARIUM	92	1	2439266-1 LANCAS
CADMIUM	95	1	2439266-1 LANCAS
CHROMIUM	104	1	2439266-1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
BARIUM	30	MG/KG	0	2439266-1 LANCAS
CADMIUM	< 2	MG/KG	0	2439266-1 LANCAS
CHROMIUM	8.2	MG/KG	0	2439266-1 LANCAS

Method Number: 7421 Prep Method: 3020A Pre-prep:
Batch Start Date: 03JAN96
Instrument: 02803
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-EQBLK-1	22DEC95	LANCAS 2439267 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
LEAD (FURNACE METHOD)	87	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
LEAD (FURNACE METHOD)	87	0	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
LEAD (FURNACE METHOD)	76	2439655-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
LEAD (FURNACE METHOD)	79	5	2439655-1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
LEAD (FURNACE METHOD)	< 0.003	MG/L	0	2439655-1 LANCAS

Comments:

7421: Batch matrix spike and spike duplicate recoveries were outside of control limits. Post-digestion spike met acceptance criteria with 95% recovery.

Method Number: 7421 Prep Method: 3050A Pre-prep:
Batch Start Date: 29DEC95
Instrument: 03812
Batch Number: 2

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-BG-13	22DEC95	LANCAS 2439262 1
TOL-BG-14	22DEC95	LANCAS 2439263 1
TOL-BG-15	22DEC95	LANCAS 2439264 1
TOL-BG-16	22DEC95	LANCAS 2439265 1
TOL-BG-17	22DEC95	LANCAS 2439266 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
LEAD (FURNACE METHOD)	94	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
LEAD (FURNACE METHOD)	95	1	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
LEAD (FURNACE METHOD)	-193500	2438676-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
LEAD (FURNACE METHOD)	-20500	20	2438676-1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
LEAD (FURNACE METHOD)	22000	MG/KG	0	2438676-1 LANCAS

Comments:

7421: Batch matrix spike and spike duplicate recoveries were outside of control limits due to the native concentration being significantly greater than the spike concentration. Post-digestion spike met acceptance criteria with 85% recovery.

Method Number: 7470A Prep Method: 7470A Pre-prep:
Batch Start Date: 28DEC95
Instrument: 05220
Batch Number: 2

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-EQBLK-1	22DEC95	LANCAS 2439267 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
MERCURY	106	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
MERCURY	103	3	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
MERCURY	102	2436783-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
MERCURY	101	1	2436783-1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
MERCURY	< 0.0002	MG/L	0	2436783-1 LANCAS

Method Number: 7471A Prep Method: 7471A Pre-prep:
Batch Start Date: 03JAN96
Instrument: 05220
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-BG-13	22DEC95	LANCAS 2439262 1
TOL-BG-14	22DEC95	LANCAS 2439263 1
TOL-BG-15	22DEC95	LANCAS 2439264 1
TOL-BG-16	22DEC95	LANCAS 2439265 1
TOL-BG-17	22DEC95	LANCAS 2439266 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
MERCURY	89	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
MERCURY	94	6	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
MERCURY	93	2439266-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
MERCURY	96	1	2439266-1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
MERCURY	< 0.097	MG/KG	0	2439266-1 LANCAS

Con

Environmental Sample Chain of Custody a og
Research and Engineering

U-71 #2439262-67

#100

50175

Project Number: ADS

Type or Print Data

Facility Name	Telephone Number	Transporter Name	Telephone Number
DUPONT TOLEDO	(419) 478- 4782	FEDERAL EXPRESS	( ) -

Facility Address	Transporter Address
1930 TREMAINSVILLE RD. TOLEDO, OH	

Facility Supervisor	Method of Shipping
FRANK SMITH	OVERNIGHT AIR

Process Producing Sample	Special Shipping Instructions
TOLEDO SOILS PROJECT	Please Call Frank Smith w/Results PACK IN WET ICE TO LANCASTER LAB PA

Employee(s) Sampling	Remarks
Matthew P. Bill	*MDL REPORTING*

Other Employee(s) Handling	
George Cross	*TOTMET=ICP: CD, BA, CR GF: PB; CV-HG

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	TOTMET
TOL-~~BA-9~~ BG-13	12-22-95	09:00	SOIL	250 ML	WM/G	1	NONE	X
TOL-~~BA-10~~ BG-14	"	09:30	SOIL	250 ML	WM/G	1	NONE	X
TOL-~~BA-11~~ BG-15	"	09:50	SOIL	250 ML	WM/G	1	NONE	X
TOL-~~BA-12~~ BG-16	"	10:00	SOIL	250 ML	WM/G	1	NONE	X
TOL-~~BA-~~ ~~2~~ BG-17	"	10:30	SOIL	250 ML	WM/G	1	NONE	X
TOL-EQBLK-1	"	09:50	WATER	1000ML	DTP	1	HNO3	X

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
G. Engelking	12-14-95 1100	M. Bill	12-22-95 08:00	
Relinquished by: M. Bill	Date/Time: 12/22/95 12:00	Received by	Date/Time	Good
Relinquished by	Date/Time	Received by	Date/Time	Signature: [signature] Date: 12/27/95
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	7.3
Relinquished by	Date/Time	Received by: [signature]	Date/Time: 12/27/95 0930	Signature: [signature] Date: 12/27/95

5-157 X3, 10-91

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ANALYTICAL DATA REPORT

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EvSD

ENVIRONMENTAL SERVICES DIVISION

conoco

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

FILE

TCLP - Results

WASTE MGT.

SOIL CUTTINGS

TOLEDO

~~RAMP~~ SAMPLING

Location: TOLEDO
Project Name: RAMP SAMPLING
Sample Source:
Sample Number: TOL-TRS-CMP-1
Date Sampled: October 5, 1995
Lab ID: LANCAS 2394954-1

Type: Regulated

EPA No.	Constituent	CAS No.	Reg. Level (MG/L)	Result	Unit
D004	ARSENIC	7440-38-2	5.0	< .026	MG/L
D005	BARIUM	7440-39-3	100.0	1.13	MG/L
D006	CADMIUM	7440-43-9	1.0	< .0026	MG/L
D007	CHROMIUM	7440-47-3	5.0	< .0073	MG/L
D008	LEAD	7439-92-1	5.0	< .034	MG/L
D009	MERCURY	7439-97-6	0.2	.000104	MG/L
D010	SELENIUM	7782-49-2	1.0	< .044	MG/L
D011	SILVER	7440-22-4	5.0	< .0058	MG/L
D012	ENDRIN	72-20-8	0.02	< .00001	MG/L
D013	LINDANE	58-89-9	0.4	< .00001	MG/L
D014	METHOXYCHLOR	72-43-5	10.0	< .0001	MG/L
D015	TOXAPHENE	8001-35-2	0.5	< .004	MG/L
D016	2,4-D	94-75-7	10.0	< .09	MG/L
D017	2,4,5-TP	93-72-1	1.0	< .04	MG/L
D018	BENZENE	71-43-2	0.5		
D019	CARBON TETRACHLORIDE	56-23-5	0.5		
D020	CHLORDANE	57-74-9	0.03	< .0003	MG/L
D021	CHLOROBENZENE	108-90-7	100.0		
D022	CHLOROFORM	67-66-3	6.0		
D023	o-CRESOL	95-48-7	200.0		
D024	m-CRESOL	108-39-4	200.0 (4)		
D025	p-CRESOL	106-44-5	200.0		
D026	CRESOLS (TOTAL)		200.0 (2)	< .008	MG/L
D027	1,4-DICHLOROBENZENE	106-46-7	7.5	< .0020	MG/L
D028	1,2-DICHLOROETHANE	107-06-2	0.5		
D029	1,1-DICHLOROETHYLENE	75-35-4	0.7		
D030	2,4-DINITROTOLUENE	121-14-2	0.13 (1)	< .0040	MG/L
D031	HEPTACHLOR	76-44-8	0.008	< .00002	MG/L
D032	HEXACHLOROBENZENE	118-74-1	0.13 (1)	< .0020	MG/L
D033	HEXACHLOROBUTADIENE	87-68-3	0.5	< .0020	MG/L
D034	HEXACHLOROETHANE	67-72-1	3.0	< .0020	MG/L
D035	2-BUTANONE	78-93-3	200.0		
D036	NITROBENZENE	98-95-3	2.0	< .0020	MG/L
D037	PENTACHLOROPHENOL	87-86-5	100.0 (3)	< .0020	MG/L
D038	PYRIDINE	110-86-1	5.0	< .0040	MG/L
D039	TETRACHLOROETHYLENE	127-18-4	0.7		
D040	TRICHLOROETHYLENE	79-01-6	0.5		
D041	2,4,5-TRICHLOROPHENOL	95-95-4	400.0	< .0020	MG/L
D042	2,4,6-TRICHLOROPHENOL	88-06-2	2.0	< .0020	MG/L
D043	VINYL CHLORIDE	75-01-4	0.2		

(1) Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.
(2) If o-, m- and p-Cresol concentration can not be differentiated, the total cresol concentration is used. The regulatory level for total cresol is 200 mg/l.
(3) The Agency is proposing a new regulatory level [5.0 mg/l] for this constituent based upon the latest toxicity information.
(4) m- and p- Cresol concentration can not be differentiated, total m- and p- concentration is reported as m-CRESOL.

Location: TOLEDO
Project Name: RAMP SAMPLING
Sample Source:
Sample Number: TOL-TRS-CMP-1
Date Sampled: October 5, 1995
Lab ID: LANCAS 2394955-1

Type: Regulated

EPA No.	Constituent	CAS No.	Reg. Level (MG/L)	Result	Unit
D004	ARSENIC	7440-38-2	5.0		
D005	BARIUM	7440-39-3	100.0		
D006	CADMIUM	7440-43-9	1.0		
D007	CHROMIUM	7440-47-3	5.0		
D008	LEAD	7439-92-1	5.0		
D009	MERCURY	7439-97-6	0.2		
D010	SELENIUM	7782-49-2	1.0		
D011	SILVER	7440-22-4	5.0		
D012	ENDRIN	72-20-8	0.02		
D013	LINDANE	58-89-9	0.4		
D014	METHOXYCHLOR	72-43-5	10.0		
D015	TOXAPHENE	8001-35-2	0.5		
D016	2,4-D	94-75-7	10.0		
D017	2,4,5-TP	93-72-1	1.0		
D018	BENZENE	71-43-2	0.5	< .0050	MG/L
D019	CARBON TETRACHLORIDE	56-23-5	0.5	< .0050	MG/L
D020	CHLORDANE	57-74-9	0.03		
D021	CHLOROBENZENE	108-90-7	100.0	< .0050	MG/L
D022	CHLOROFORM	67-66-3	6.0	< .0050	MG/L
D023	o-CRESOL	95-48-7	200.0		
D024	m-CRESOL	108-39-4	200.0 (4)		
D025	p-CRESOL	106-44-5	200.0		
D026	CRESOLS (TOTAL)		200.0 (2)		
D027	1,4-DICHLOROBENZENE	106-46-7	7.5		
D028	1,2-DICHLOROETHANE	107-06-2	0.5	< .010	MG/L
D029	1,1-DICHLOROETHYLENE	75-35-4	0.7	< .0050	MG/L
D030	2,4-DINITROTOLUENE	121-14-2	0.13 (1)		
D031	HEPTACHLOR	76-44-8	0.008		
D032	HEXACHLOROBENZENE	118-74-1	0.13 (1)		
D033	HEXACHLOROBUTADIENE	87-68-3	0.5		
D034	HEXACHLOROETHANE	67-72-1	3.0		
D035	2-BUTANONE	78-93-3	200.0	< .015	MG/L
D036	NITROBENZENE	98-95-3	2.0		
D037	PENTACHLOROPHENOL	87-86-5	100.0 (3)		
D038	PYRIDINE	110-86-1	5.0		
D039	TETRACHLOROETHYLENE	127-18-4	0.7	< .0050	MG/L
D040	TRICHLOROETHYLENE	79-01-6	0.5	< .0050	MG/L
D041	2,4,5-TRICHLOROPHENOL	95-95-4	400.0		
D042	2,4,6-TRICHLOROPHENOL	88-06-2	2.0		
D043	VINYL CHLORIDE	75-01-4	0.2	< .010	MG/L

(1) Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.
(2) If o-, m- and p-Cresol concentration can not be differentiated, the total cresol concentration is used. The regulatory level for total cresol is 200 mg/l.
(3) The Agency is proposing a new regulatory level [5.0 mg/l] for this constituent based upon the latest toxicity information.
(4) m- and p- Cresol concentration can not be differentiated, total m- and p- concentration is reported as m-CRESOL.

Location: TOLEDO
Project Name: RAMP SAMPLING
Sample Source: TRS-CMP-1
Sample Name: TOL-TRS-CMP-1
Date Sampled: October 5, 1995
Lab Sample ID: 2394953-1 Analysis Lab: LANCAS

Method Number: 335.3

Analyte/Parameter	Dilution	Result	PQL	Unit	Date Analyzed
CYANIDE (REACTIVITY)	1	< 100	100	MG/KG	Oct 17, 1995

Method Number: 9030A

Analyte/Parameter	Dilution	Result	PQL	Unit	Date Analyzed
SULFIDE (REACTIVITY)	1	< 50	50	MG/KG	Oct 17, 1995

Method Number: 9045C MOD.

Analyte/Parameter	Dilution	Result	PQL	Unit	Date Analyzed
PH	1	8.04	0.01		Oct 11, 1995

Method Number: D 93-90

Analyte/Parameter	Dilution	Result	PQL	Unit	Date Analyzed
FLASH POINT FOR LIQUIDS	1	> 202		DEGREE F	Oct 19, 1995

Conoco Environmental Services
Lab Analysis Report
Summary of Positive Results

November 2, 1995

Location: TOLEDO
Project Name: RAMP SAMPLING

Analyte/Parameter	Result	Unit	PQL	Method No.	Sampled	Sample Name
BARIUM	1.13	MG/L	0.1	6010A	95-10-05	TOL-TRS-CMP-1
PH	8.04		0.01	9045C MOD.	95-10-05	TOL-TRS-CMP-1
FLASH POINT FOR LIQUIDS	> 202	DEGREE F		D 93-90	95-10-05	TOL-TRS-CMP-1

Method Number: 335.3 Prep Method: Pre-prep:
Batch Start Date: 17OCT95
Instrument: 04757
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394953 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
CYANIDE (REACTIVITY)	94	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
CYANIDE (REACTIVITY)	94	0	LCSD -1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
CYANIDE (REACTIVITY)	< 100	MG/KG	0	2396672-1 LANCAS

Method Number: 6010A Prep Method: 3010A Pre-prep: 1311
Batch Start Date: 09OCT95
Instrument: 03144
Batch Number: 5

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394954 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
ARSENIC	107	LCS -1 LANCAS
BARIUM	105	LCS -1 LANCAS
CADMIUM	103	LCS -1 LANCAS
CHROMIUM	106	LCS -1 LANCAS
LEAD	104	LCS -1 LANCAS
SELENIUM	104	LCS -1 LANCAS
SILVER	99	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
ARSENIC	109	1	LCSD -1 LANCAS
BARIUM	105	0	LCSD -1 LANCAS
CADMIUM	101	2	LCSD -1 LANCAS
CHROMIUM	107	1	LCSD -1 LANCAS
LEAD	104	1	LCSD -1 LANCAS
SELENIUM	104	0	LCSD -1 LANCAS
SILVER	103	4	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
ARSENIC	90	2394164-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
MERCURY	70	1	2394164-1	LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID	
MERCURY	< 0.0002	MG/L	1	2394164-1	LANCAS

Comments:

7470A: Batch matrix spike and spike duplicate recoveries were outside of control limits.
Lab control spike and spike duplicate recoveries met acceptance criteria.

Method Number: 8081 Prep Method: 3510B Pre-prep: 1311
Batch Start Date: 09OCT95
Instrument: 04783
Batch Number: 2

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID	
TOL-TRS-CMP-1	05OCT95	LANCAS	2394954 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID		
ENDRIN	113	LCS	-1	LANCAS
GAMMA BHC - LINDANE	103	LCS	-1	LANCAS
HEPTACHLOR	86	LCS	-1	LANCAS
HEPTACHLOR EPOXIDE	94	LCS	-1	LANCAS
METHOXYCHLOR	119	LCS	-1	LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID	
ENDRIN	103	2396761-1	LANCAS
HEPTACHLOR	76	2396761-1	LANCAS
HEPTACHLOR EPOXIDE	91	2396761-1	LANCAS
METHOXYCHLOR	114	2396761-1	LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
ENDRIN	106	3	2396761-1	LANCAS
HEPTACHLOR	80	5	2396761-1	LANCAS
HEPTACHLOR EPOXIDE	97	6	2396761-1	LANCAS
METHOXYCHLOR	118	4	2396761-1	LANCAS

Method Number: 8151 Prep Method: 8151 Pre-prep: 1311
Batch Start Date: 09OCT95
Instrument: H2601A
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID	
TOL-TRS-CMP-1	05OCT95	LANCAS	2394954 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
2,4,5-TP	76	LCS -1 LANCAS
2,4-D	109	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
2,4,5-TP	88	15	LCSD -1 LANCAS
2,4-D	119	9	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
2,4,5-TP	126	2394053-1 LANCAS
2,4-D	188	2394053-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
2,4,5-TP	177	34	2394053-1 LANCAS
2,4-D	222	17	2394053-1 LANCAS

Comments:

8151 2,4,5-TP: Batch matrix spike and matrix spike duplicate recoveries were outside of control limits. Lab control spike and spike duplicate recoveries met acceptance criteria.

Method Number: 8240B Prep Method: Pre-prep: 1311
Batch Start Date: 09OCT95
Instrument: 030470
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394955 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1-DICHLOROETHENE	109	LCS -1 LANCAS
1,2-DICHLOROETHANE	83	LCS -1 LANCAS
2-BUTANONE	106	LCS -1 LANCAS
BENZENE	102	LCS -1 LANCAS
CARBON TETRACHLORIDE	86	LCS -1 LANCAS
CHLOROBENZENE	99	LCS -1 LANCAS
CHLOROFORM	86	LCS -1 LANCAS
TETRACHLOROETHENE	101	LCS -1 LANCAS
TRICHLOROETHENE	104	LCS -1 LANCAS
VINYL CHLORIDE	94	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1-DICHLOROETHENE	113	4	LCSD -1 LANCAS
1,2-DICHLOROETHANE	86	4	LCSD -1 LANCAS
2-BUTANONE	123	15	LCSD -1 LANCAS
BENZENE	104	2	LCSD -1 LANCAS
CARBON TETRACHLORIDE	88	2	LCSD -1 LANCAS
CHLOROBENZENE	101	2	LCSD -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
CHLOROFORM	89	3	LCSD -1 LANCAS
TETRACHLOROETHENE	100	1	LCSD -1 LANCAS
TRICHLOROETHENE	106	2	LCSD -1 LANCAS
VINYL CHLORIDE	95	1	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1-DICHLOROETHENE	114	2394054-1 LANCAS
1,2-DICHLOROETHANE	108	2394054-1 LANCAS
2-BUTANONE	156	2394054-1 LANCAS
BENZENE	114	2394054-1 LANCAS
CARBON TETRACHLORIDE	116	2394054-1 LANCAS
CHLOROBENZENE	110	2394054-1 LANCAS
CHLOROFORM	108	2394054-1 LANCAS
TETRACHLOROETHENE	110	2394054-1 LANCAS
TRICHLOROETHENE	116	2394054-1 LANCAS
VINYL CHLORIDE	110	2394054-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1-DICHLOROETHENE	106	7	2394054-1 LANCAS
1,2-DICHLOROETHANE	102	6	2394054-1 LANCAS
2-BUTANONE	136	14	2394054-1 LANCAS
BENZENE	110	4	2394054-1 LANCAS
CARBON TETRACHLORIDE	104	11	2394054-1 LANCAS
CHLOROBENZENE	104	6	2394054-1 LANCAS
CHLOROFORM	104	4	2394054-1 LANCAS
TETRACHLOROETHENE	106	4	2394054-1 LANCAS
TRICHLOROETHENE	110	5	2394054-1 LANCAS
VINYL CHLORIDE	102	8	2394054-1 LANCAS

Method Number: 8270B Prep Method: 3510B Pre-prep: 1311
Batch Start Date: 09OCT95
Instrument: 015980
Batch Number: 4

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394954 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,4-DICHLOROBENZENE	87	LCS -1 LANCAS
2,4,5-TRICHLOROPHENOL	89	LCS -1 LANCAS
2,4,6-TRICHLOROPHENOL	93	LCS -1 LANCAS
2,4-DINITROTOLUENE	105	LCS -1 LANCAS
2-METHYLPHENOL	73	LCS -1 LANCAS
3 AND 4-METHYLPHENOL	73	LCS -1 LANCAS
HEXACHLOROBENZENE	88	LCS -1 LANCAS
HEXACHLOROBUTADIENE	62	LCS -1 LANCAS
HEXACHLOROETHANE	73	LCS -1 LANCAS
NITROBENZENE	88	LCS -1 LANCAS
PENTACHLOROPHENOL	68	LCS -1 LANCAS
PYRIDINE	64	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,4-DICHLOROBENZENE	87	1	LCSD -1 LANCAS
2,4,5-TRICHLOROPHENOL	91	2	LCSD -1 LANCAS
2,4,6-TRICHLOROPHENOL	92	1	LCSD -1 LANCAS
2,4-DINITROTOLUENE	102	2	LCSD -1 LANCAS
2-METHYLPHENOL	76	4	LCSD -1 LANCAS
3 AND 4-METHYLPHENOL	72	1	LCSD -1 LANCAS
HEXACHLOROBENZENE	88	0	LCSD -1 LANCAS
HEXACHLOROBUTADIENE	65	4	LCSD -1 LANCAS
HEXACHLOROETHANE	74	2	LCSD -1 LANCAS
NITROBENZENE	88	0	LCSD -1 LANCAS
PENTACHLOROPHENOL	62	10	LCSD -1 LANCAS
PYRIDINE	62	4	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,4-DICHLOROBENZENE	75	2394164-1 LANCAS
2,4,5-TRICHLOROPHENOL	88	2394164-1 LANCAS
2,4,6-TRICHLOROPHENOL	34	2394164-1 LANCAS
2,4-DINITROTOLUENE	-1017	2394164-1 LANCAS
2-METHYLPHENOL	83	2394164-1 LANCAS
3 AND 4-METHYLPHENOL	74	2394164-1 LANCAS
HEXACHLOROBENZENE	93	2394164-1 LANCAS
HEXACHLOROBUTADIENE	55	2394164-1 LANCAS
HEXACHLOROETHANE	69	2394164-1 LANCAS
NITROBENZENE	-2761	2394164-1 LANCAS
PENTACHLOROPHENOL	80	2394164-1 LANCAS
PYRIDINE	56	2394164-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,4-DICHLOROBENZENE	71	5	2394164-1 LANCAS
2,4,5-TRICHLOROPHENOL	82	7	2394164-1 LANCAS
2,4,6-TRICHLOROPHENOL	32	7	2394164-1 LANCAS
2,4-DINITROTOLUENE	-1054	2	2394164-1 LANCAS
2-METHYLPHENOL	82	1	2394164-1 LANCAS
3 AND 4-METHYLPHENOL	46	20	2394164-1 LANCAS
HEXACHLOROBENZENE	88	5	2394164-1 LANCAS
HEXACHLOROBUTADIENE	49	11	2394164-1 LANCAS
HEXACHLOROETHANE	64	7	2394164-1 LANCAS
NITROBENZENE	-2398	32	2394164-1 LANCAS
PENTACHLOROPHENOL	77	4	2394164-1 LANCAS
PYRIDINE	53	4	2394164-1 LANCAS

Comments:

8270B Nitrobenzene; 3 and 4-methylphenol; 2,4,6-trichlorophenol; 2,4-dinitrotoluene:
Batch matrix spike and spike duplicate recoveries were outside of control limits. Lab control spike and spike duplicate recoveries met acceptance criteria.

Method Number: 9030A Prep Method: Pre-prep:
Batch Start Date: 17OCT95
Instrument: 002910
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394953 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
SULFIDE (REACTIVITY)	112	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
SULFIDE (REACTIVITY)	112	0	LCSD -1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
SULFIDE (REACTIVITY)	< 50	MG/KG	200	2396672-1 LANCAS

Comments:

9030A Sulfide: Batch replicate analyses produced a relative percent difference outside of control limits. One or both results was less than five times the PQL.

Method Number: 9045C MOD. Prep Method: Pre-prep:
Batch Start Date: 11OCT95
Instrument: 4069
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394953 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
PH	100	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
PH	100	0	LCSD -1 LANCAS

Replicate:

Analyte/Parameter	Result	Unit	RPD	Lab Sample ID
PH	8		0	2395464-1 LANCAS

Method Number: D 93-90 Prep Method: Pre-prep:
Batch Start Date: 19OCT95
Instrument: 004786
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
TOL-TRS-CMP-1	05OCT95	LANCAS 2394953 1

CONOCO

Environmental Sample Chain of Custody and Log
Research and Engineering

2394953-55
2394903-04

#204

No. 43428

Project Number: SL3

Facility Name: DUPONT TOLEDO	Telephone Number: (419 476 4792	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( )
Facility Address: 1930 TREMAINSVILLE RD.		Transporter Address:	
Facility Supervisor: JIM CONNORS		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: TOLEDO RAMP SAMPLING 1	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: Robin Lounsbury	Remarks: REPORT TO PGL		
Other Employee(s) Handling:	TBLK=090595-1		

Type or Print Data

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	No.	Analysis Req'd Preservative	TCLP VOA	TCLP SV	TCLP MET	TCLP PEST	TCLP HERB	REACT CN	REACT S	PH	IGNITC	METALS	8240
TOL-TRS-CMP-1	10/5/95		SOIL	125 ML	WM/G	1	NONE	X										
TOL-TRS-CMP-1			SOIL	500 ML	WM/G	1	NONE		X	X								
TOL-TRS-CMP-1			SOIL	250 ML	WM/G	1	NONE				X	X						
TOL-TRS-CMP-1			SOIL	250 ML	WM/G	1	NONE						X	X				
TOL-TRS-CMP-1			SOIL	250 ML	WM/G	1	NONE								X	X		
~~TOL-TRS-CMP-2~~			SOIL	125 ML	WM/G	1	NONE	X										
~~TOL-TRS-CMP-2~~			SOIL	500 ML	WM/G	1	NONE		X	X								
~~TOL-TRS-CMP-2~~			SOIL	250 ML	WM/G	1	NONE				X	X						
~~TOL-TRS-CMP-2~~			SOIL	250 ML	WM/G	1	NONE						X	X				
~~TOL-TRS-CMP-2~~			SOIL	250 ML	WM/G	1	NONE								X	X		
~~TOL-EQBLK-1~~			WATER	40 ML	AG/S	3	NONE	X										
~~TOL-EQBLK-1~~			WATER	1000ML	AG	2	NONE		X									
~~TOL-EQBLK-1~~			WATER	500 ML	DTP	1	NONE			X								
~~TOL-EQBLK-1~~			WATER	1000ML	AG	1	NONE				X	X						
~~TOL-EQBLK-1~~			WATER	1000ML	AG	1	NONE						X	X				
TOL-TBLK-1 TJ	10/3/95	1440	WATER	40 ML	AG/S	3	NONE	X										
FR 21 1.5-3.5-5.5	10/5/95	935	SOIL	125 ML	Glass	1	NONE										X	
FR 21 3.5-5.5	10/5/95	939	SOIL	125 ML		1	NONE											X
FR 22 1.5-3.5	10/5/95	949	SOIL	125 ML		2											X	X

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
[illegible]	10/2/95 1445	Robin Lounsbury	10/3/95 10:00	
Relinquished by: Robin Lounsbury	10/5/95 1800	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date

Signatures

6-157 X3, 10-91

ORIGINATOR COPY

conoco

A DuPont Subsidiary

TOLEDO
WELL WATERS
JUNE/JULY 1992

Location: TOLEDO
Project Name: WELL WATERS
Sample Source:
Sample Name: TOL-ERIE PAINT COAT-1
Date Sampled: July 3, 1992
Lab Sample ID: B207098-01 Analysis Lab: ITC

Method Number: EPA8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2,2-TETRACHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROPROPANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
2-BUTANONE	1.0	< 100		100	UG/KG	Jul 16, 1992
2-CHLOROETHYLVINYL ETHER	1.0	< 10		10	UG/KG	Jul 16, 1992
2-HEXANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
4-METHYL-2-PENTANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
ACETONE	1.0	< 100		100	UG/KG	Jul 16, 1992
BENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON DISULFIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON TETRACHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLORODIBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CHLOROFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROMETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CIS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CIS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
DICHLOROBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
ETHYLBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
METHYLENE CHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
STYRENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TETRACHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TOLUENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
VINYL ACETATE	1.0	< 10		10	UG/KG	Jul 16, 1992
VINYL CHLORIDE	1.0	< 10		10	UG/KG	Jul 16, 1992
XYLENES, TOTAL	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4	1.0	98.0	Jul 16, 1992
BROMOFLUOROBENZENE	1.0	93.0	Jul 16, 1992
TOLUENE-D8	1.0	102.0	Jul 16, 1992

omments:

SAMPLE RECEIVED ABOVE 4 DEGREES CELCIUS.
EPA8240: NO ADDITIONAL COMPOUNDS WERE DETECTED BY LIBRARY SEARCH.

Location: TOLEDO
Project Name: WELL WATERS
Sample Source:
Sample Name: TOL-ERIE PAINT COAT-2
Date Sampled: July 3, 1992
Lab Sample ID: B207098-02 Analysis Lab: ITC

Method Number: EPA8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2,2-TETRACHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROPROPANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
2-BUTANONE	1.0	< 100		100	UG/KG	Jul 16, 1992
2-CHLOROETHYLVINYL ETHER	1.0	< 10		10	UG/KG	Jul 16, 1992
2-HEXANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
4-METHYL-2-PENTANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
ACETONE	1.0	< 100		100	UG/KG	Jul 16, 1992
BENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON DISULFIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON TETRACHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLORODIBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CHLOROFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROMETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CIS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CIS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
DICHLOROBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
ETHYLBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
METHYLENE CHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
STYRENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TETRACHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TOLUENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
VINYL ACETATE	1.0	< 10		10	UG/KG	Jul 16, 1992
VINYL CHLORIDE	1.0	< 10		10	UG/KG	Jul 16, 1992
XYLENES, TOTAL	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4	1.0	102.0	Jul 16, 1992
BROMOFLUOROBENZENE	1.0	92.0	Jul 16, 1992
TOLUENE-D8	1.0	104.0	Jul 16, 1992

omments:

SAMPLE RECEIVED ABOVE 4 DEGREES CELCIUS.
EPA8240: NO ADDITIONAL COMPOUNDS WERE DETECTED BY LIBRARY SEARCH.

Location: TOLEDO
Project Name: WELL WATERS
Sample Source:
Sample Name: TOL-ERIE PAINT COAT-3
Date Sampled: July 3, 1992
Lab Sample ID: B207098-03 Analysis Lab: ITC

Method Number: EPA8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2,2-TETRACHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROPROPANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
2-BUTANONE	1.0	< 100		100	UG/KG	Jul 16, 1992
2-CHLOROETHYLVINYL ETHER	1.0	< 10		10	UG/KG	Jul 16, 1992
2-HEXANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
4-METHYL-2-PENTANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
ACETONE	1.0	< 100		100	UG/KG	Jul 16, 1992
BENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON DISULFIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON TETRACHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLORODIBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CHLOROFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROMETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CIS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CIS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
DICHLOROBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
ETHYLBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
METHYLENE CHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
STYRENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TETRACHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TOLUENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
VINYL ACETATE	1.0	< 10		10	UG/KG	Jul 16, 1992
VINYL CHLORIDE	1.0	< 10		10	UG/KG	Jul 16, 1992
XYLENES, TOTAL	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4	1.0	101.0	Jul 16, 1992
BROMOFLUOROBENZENE	1.0	93.0	Jul 16, 1992
TOLUENE-D8	1.0	105.0	Jul 16, 1992

omments:

SAMPLE RECEIVED ABOVE 4 DEGREES CELCIUS.
EPA8240: NO ADDITIONAL COMPOUNDS WERE DETECTED BY LIBRARY SEARCH.

Location: TOLEDO
Project Name: WELL WATERS
Sample Source:
Sample Name: TOL-ERIE PAINT COAT-4
Date Sampled: July 3, 1992
Lab Sample ID: B207098-04 Analysis Lab: ITC

Method Number: EPA8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2,2-TETRACHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1,2-TRICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,1-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
1,2-DICHLOROPROPANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
2-BUTANONE	1.0	< 100		100	UG/KG	Jul 16, 1992
2-CHLOROETHYLVINYL ETHER	1.0	< 10		10	UG/KG	Jul 16, 1992
2-HEXANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
4-METHYL-2-PENTANONE	1.0	< 50		50	UG/KG	Jul 16, 1992
ACETONE	1.0	< 100		100	UG/KG	Jul 16, 1992
BENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
BROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON DISULFIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CARBON TETRACHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLORODIBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CHLOROFORM	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CHLOROMETHANE	1.0	< 10		10	UG/KG	Jul 16, 1992
CIS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
CIS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
DICHLOROBROMOMETHANE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
ETHYLBENZENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
METHYLENE CHLORIDE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
STYRENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TETRACHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TOLUENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,2-DICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRANS-1,3-DICHLOROPROPENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
TRICHLOROETHYLENE	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992
VINYL ACETATE	1.0	< 10		10	UG/KG	Jul 16, 1992
VINYL CHLORIDE	1.0	< 10		10	UG/KG	Jul 16, 1992
XYLENES, TOTAL	1.0	< 5.0		5.0	UG/KG	Jul 16, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4	1.0	102.0	Jul 16, 1992
BROMOFLUOROBENZENE	1.0	89.0	Jul 16, 1992
TOLUENE-D8	1.0	106.0	Jul 16, 1992

mments:

SAMPLE RECEIVED ABOVE 4 DEGREES CELCIUS.
EPA8240: NO ADDITIONAL COMPOUNDS WERE DETECTED BY LIBRARY SEARCH.

Location: TOLEDO
Project Name: WELL WATERS
Sample Source: TOL-WELL-1
Sample Name: TOL-WELL-1
Date Sampled: June 29, 1992
Lab Sample ID: P206057-01 Analysis Lab: PONCA CITY

Method Number: 8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1,2,2-TETRACHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1,2-TRICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1-DICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1-DICHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
1,2-DICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,2-DICHLOROPROPANE	1	< 5		5	UG/L	Jul 2, 1992
2-BUTANONE	1	< 100		100	UG/L	Jul 2, 1992
2-HEXANONE	1	< 50		50	UG/L	Jul 2, 1992
4-METHYL-2-PENTANONE	1	< 50		50	UG/L	Jul 2, 1992
ACETONE	1	< 100		100	UG/L	Jul 2, 1992
BENZENE	1	< 5		5	UG/L	Jul 2, 1992
BROMODICHLOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
BROMOFORM	1	< 5		5	UG/L	Jul 2, 1992
BROMOMETHANE	1	< 10		10	UG/L	Jul 2, 1992
CARBON DISULFIDE	1	< 5		5	UG/L	Jul 2, 1992
CARBON TETRACHLORIDE	1	< 5		5	UG/L	Jul 2, 1992
CHLOROBENZENE	1	< 5		5	UG/L	Jul 2, 1992
CHLOROETHANE	1	< 10		10	UG/L	Jul 2, 1992
CHLOROFORM	1	< 5		5	UG/L	Jul 2, 1992
CHLOROMETHANE	1	< 10		10	UG/L	Jul 2, 1992
CIS-1,3-DICHLOROPROPENE	1	< 5		5	UG/L	Jul 2, 1992
DIBROMOCHLOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
DICHLORODIFLUOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
ETHYLBENZENE	1	< 5		5	UG/L	Jul 2, 1992
METHYLENE CHLORIDE	1	< 5		5	UG/L	Jul 2, 1992
STYRENE	1	< 5		5	UG/L	Jul 2, 1992
TETRACHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
TOLUENE	1	< 5		5	UG/L	Jul 2, 1992
TOTAL 1,2-DICHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
TOTAL XYLENES	1	< 5		5	UG/L	Jul 2, 1992
TRANS-1,3-DICHLOROPROPENE	1	< 5		5	UG/L	Jul 2, 1992
TRICHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
TRICHLOROFLUOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
VINYL ACETATE	1	< 50		50	UG/L	Jul 2, 1992
VINYL CHLORIDE	1	< 10		10	UG/L	Jul 2, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4 SURR	1	108.0	Jul 2, 1992
4-BROMOFLUOROBENZENE SURR	1	97.0	Jul 2, 1992
TOLUENE-D8 SURR	1	102.0	Jul 2, 1992

Comments:

8240: NO ADDITIONAL COMPOUNDS WERE DETECTED BY LIBRARY SEARCH.

Location: TOLEDO
Project Name: WELL WATERS
Sample Source: TOL-WELL-2
Sample Name: TOL-WELL-2
Date Sampled: June 29, 1992
Lab Sample ID: P206057-02 Analysis Lab: PONCA CITY

Method Number: 8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1,2,2-TETRACHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1,2-TRICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1-DICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,1-DICHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
1,2-DICHLOROETHANE	1	< 5		5	UG/L	Jul 2, 1992
1,2-DICHLOROPROPANE	1	< 5		5	UG/L	Jul 2, 1992
2-BUTANONE	1	< 100		100	UG/L	Jul 2, 1992
2-HEXANONE	1	< 50		50	UG/L	Jul 2, 1992
4-METHYL-2-PENTANONE	1	< 50		50	UG/L	Jul 2, 1992
ACETONE	1	< 100		100	UG/L	Jul 2, 1992
BENZENE	1	< 5		5	UG/L	Jul 2, 1992
BROMODICHLOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
BROMOFORM	1	< 5		5	UG/L	Jul 2, 1992
BROMOMETHANE	1	< 10		10	UG/L	Jul 2, 1992
CARBON DISULFIDE	1	< 5		5	UG/L	Jul 2, 1992
CARBON TETRACHLORIDE	1	< 5		5	UG/L	Jul 2, 1992
CHLOROBENZENE	1	< 5		5	UG/L	Jul 2, 1992
CHLOROETHANE	1	< 10		10	UG/L	Jul 2, 1992
CHLOROFORM	1	< 5		5	UG/L	Jul 2, 1992
CHLOROMETHANE	1	< 10		10	UG/L	Jul 2, 1992
CIS-1,3-DICHLOROPROPENE	1	< 5		5	UG/L	Jul 2, 1992
DIBROMOCHLOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
DICHLORODIFLUOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
ETHYLBENZENE	1	< 5		5	UG/L	Jul 2, 1992
METHYLENE CHLORIDE	1	< 5		5	UG/L	Jul 2, 1992
STYRENE	1	< 5		5	UG/L	Jul 2, 1992
TETRACHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
TOLUENE	1	< 5		5	UG/L	Jul 2, 1992
TOTAL 1,2-DICHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
TOTAL XYLENES	1	< 5		5	UG/L	Jul 2, 1992
TRANS-1,3-DICHLOROPROPENE	1	< 5		5	UG/L	Jul 2, 1992
TRICHLOROETHYLENE	1	< 5		5	UG/L	Jul 2, 1992
TRICHLOROFLUOROMETHANE	1	< 5		5	UG/L	Jul 2, 1992
VINYL ACETATE	1	< 50		50	UG/L	Jul 2, 1992
VINYL CHLORIDE	1	< 10		10	UG/L	Jul 2, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4 SURR	1	114.0	Jul 2, 1992
4-BROMOFLUOROBENZENE SURR	1	99.0	Jul 2, 1992
TOLUENE-D8 SURR	1	100.0	Jul 2, 1992

mments:

8240: NO ADDITIONAL COMPOUNDS WERE DETECTED BY LIBRARY SEARCH.

CONOCO

Environmental Sample Chain of Custody and Analysis Request
Research and Engineering

to ITC C.O. 9 1035
~~R2-07-008~~

Project Number: 6190-11-T3

Type or Print Data

Facility Name	Telephone Number	Transporter Name	Telephone Number
DUPONT TOLEDO	(419) 478-4870	FEDERAL EXPRESS #145996613 7/13/92 DS IT	

Facility Address	Transporter Address
1930 TREMAINSVILLE - TOLEDO, OH 43613	

Facility Supervisor	Method of Shipping
DENISE CLEMENT	OVERNIGHT AIR

Process Producing Sample	Special Shipping Instructions
WELL WATERS	PACK IN WET ICE TO PONCA CITY
Employee(s) Sampling: Denise Taabbie-Clement	Remarks: 8240 + Library Search
Other Employee(s) Handling	

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	8240	Library Search
TOL-ERIE PAINT COAT-1	7/3/92	1132	SOIL	250 ML	WM/G	1	NONE	X	X
TOL-ERIE PAINT COAT-2	7/3/92	1158	SOIL	250 ML	WM/G	1	NONE	X	X
TOL-ERIE PAINT COAT-3	7/3/92	1215	SOIL	250 ML	WM/G	1	NONE	X	X
TOL-ERIE PAINT COAT-4	7/3/92	1301	SOIL	250 ML	WM/G	1	NONE	X	X

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
K Hodge	7/1/92 1000	N. Taabbie-Clement	7/3/92 0900	7/13/92 Good Devin Stewart
Relinquished by: N. Taabbie-Clement	Date/Time: 7/6/92 1215	Received by: K Hodge	Date/Time: 7/7/92 1040	Signature: K Hodge — Date: 7/7/92
Relinquished by: K Hodge	Date/Time: 7/10/92 1200	Received by: Devin Stewart	Date/Time: 7/13/92 0908	Temp. of Samples on Arrival (Temp. sensitive analysis only): 13°C Devin Stewart 7/13/92
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	4°C
Relinquished by	Date/Time	Received by	Date/Time	Signature: K Hodge — Date: 7/7/92

5-157 X3, 10-91

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Research and Engineering

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P2-06-057

Project Number 6190-11-T3

Type or Print Data

Facility Name	Telephone Number	Transporter Name	Telephone Number
DUPONT TOLEDO	(419) 478- 4870	FEDERAL EXPRESS	( ) -

Facility Address	Transporter Address
1930 TREMAINSVILLE - TOLEDO, OH 43613	

Facility Supervisor	Method of Shipping
DENISE CLEMENT	OVERNIGHT AIR

Process Producing Sample	Special Shipping Instructions
WELL WATERS	PACK IN WET ICE TO PONCA CITY

Employee(s) Sampling	Remarks

Other Employee(s) Handling	

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	8240W	LIBRVO
TOL-WELL-1	6/29/92	0947	WATER-G	40 ML	AG/S	2	.4ml HCL	X	X
TOL-WELL-2	6/29/92	0842	WATER-G	40 ML	AG/S	2	.4ml HCL	X	X
TOL-ERIE PAINT COAT-1	NOT TAKEN		WATER-G	40 ML	AG/S	2	.4ml HCL	X	X
TOL-ERIE PAINT COAT-2			WATER-G	~~40 ML~~	AG/S	2	.4ml HCL	X	X

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
E. Duncan	6/19/92 0900	D. Fulbie-Clement	6/26/92 1300	
Relinquished by: D. Fulbie-Clement	Date/Time: 6/29/92 1000	Received by: K Hudg	Date/Time: 6/30/92 1115	Good
Relinquished by	Date/Time	Received by	Date/Time	Signature: K Hudg — Date: 6/30/92
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	4°C
Relinquished by	Date/Time	Received by	Date/Time	Signature: K Hudg — Date: 6/30/92

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Environmental Sample Chain of Custody an ıg

Research and Engineering

to ITC 15207098 16855

~~P2-07-008~~

Project Number: 6190-11-T3

Type or Print Data

Facility Name	DUPONT TOLEDO
Telephone Number	(419) 478 - 4870
Transporter Name	FEDERAL EXPRESS #145996 1613 7/13/92 DS IT
Telephone Number	
Facility Address	1930 TREMAINSVILLE - TOLEDO, OH 43613
Transporter Address	
Facility Supervisor	DENISE CLEMENT
Method of Shipping	OVERNIGHT AIR
Process Producing Sample	WELL WATERS
Special Shipping Instructions	PACK IN WET ICE TO PONCA CITY
Employee(s) Sampling	Denise Trabbic-Clement
Remarks	8240 + Library Search
Other Employee(s) Handling	

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	8240S	LIBRVO
TOL-ERIE PAINT COAT-1	7/3/92	1132	SOIL	250 ML	WM/G	1	NONE	X	X
TOL-ERIE PAINT COAT-2	7/3/92	1158	SOIL	250 ML	WM/G	1	NONE	X	X
TOL-ERIE PAINT COAT-3	7/3/92	1215	SOIL	250 ML	WM/G	1	NONE	X	X
TOL-ERIE PAINT COAT-4	7/3/92	1301	SOIL	250 ML	WM/G	1	NONE	X	X

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time
K Hodge	7/1/92 1000	D. Trabbic-Clement	7/3/92 0900
D. Trabbic-Clement	7/6/92 1215	K Hodge	7/7/92 1040
K Hodge	7/10/92 1200	Devin Stewart II	7/13/92 0908
Devin Stewart IT	2/10/93 1730		

Condition of Samples Upon Arrival at Final Destination: Good — Good Devin Stewart II 7/13/92

Signature: K Hodge — Date: 7/7/92

Temp. of Samples on Arrival (Temp. sensitive analysis only): 13°C Devin Stewart II 7/13/92

4°C

Signature: K Hodge — Date: 7/7/92

5-157 X3, 10-91

+ Returned samples to client

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G-47

ESTIMATE

DATE

WORKS

PROJECT NO.

OJECT TITLE

West north-west wind

ESTIMATED BY

CODE			LABOR	MATERIAL	TOTAL
	Pat's House - ditch				
#1 Sample	South of House				
	west & a little south of facility				
	OVA Background 50 ppm		Damp clay		
	10 ppm -				
#2	NW corner Vollmar property				
	NW of Site - 150-200 yds				
				Clay & silt	
	OVA - no reading at sample				
#3	Directly west of storage Bldg. of Facility				
			Clay		
# 4	Directly W of Floyds				
			Clay		
	75' off SE fence of Facility				
	OVA - ND				

TOLEDO
UST REMOVAL
JUNE 1992

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 1
Sample Name: TOL-SOIL 1
Date Sampled: June 29, 1992
Lab Sample ID: P206058-01 Analysis Lab: PONCA CITY

Method Number: 8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	5	< 25		25	UG/KG	Jul 8, 1992
1,1,2,2-TETRACHLOROETHANE	5	< 25		25	UG/KG	Jul 8, 1992
1,1,2-TRICHLOROETHANE	5	< 25		25	UG/KG	Jul 8, 1992
1,1-DICHLOROETHANE	5	< 25		25	UG/KG	Jul 8, 1992
1,1-DICHLOROETHYLENE	5	< 25		25	UG/KG	Jul 8, 1992
1,2-DICHLOROETHANE	5	< 25		25	UG/KG	Jul 8, 1992
1,2-DICHLOROPROPANE	5	< 25		25	UG/KG	Jul 8, 1992
2-BUTANONE	5	< 500		500	UG/KG	Jul 8, 1992
2-HEXANONE	5	< 250		250	UG/KG	Jul 8, 1992
4-METHYL-2-PENTANONE	5	< 250		250	UG/KG	Jul 8, 1992
ACETONE	5	< 500		500	UG/KG	Jul 8, 1992
BENZENE	5	< 25		25	UG/KG	Jul 8, 1992
BROMODICHLOROMETHANE	5	< 25		25	UG/KG	Jul 8, 1992
BROMOFORM	5	< 25		25	UG/KG	Jul 8, 1992
BROMOMETHANE	5	< 50		50	UG/KG	Jul 8, 1992
CARBON DISULFIDE	5	< 25		25	UG/KG	Jul 8, 1992
CARBON TETRACHLORIDE	5	< 25		25	UG/KG	Jul 8, 1992
CHLOROBENZENE	5	< 25		25	UG/KG	Jul 8, 1992
CHLOROETHANE	5	< 50		50	UG/KG	Jul 8, 1992
CHLOROFORM	5	< 25		25	UG/KG	Jul 8, 1992
CHLOROMETHANE	5	< 50		50	UG/KG	Jul 8, 1992
CIS-1,3-DICHLOROPROPENE	5	< 25		25	UG/KG	Jul 8, 1992
DIBROMOCHLOROMETHANE	5	< 25		25	UG/KG	Jul 8, 1992
DICHLORODIFLUOROMETHANE	5	< 25		25	UG/KG	Jul 8, 1992
ETHYLBENZENE	5	< 25		25	UG/KG	Jul 8, 1992
METHYLENE CHLORIDE	5	< 25		25	UG/KG	Jul 8, 1992
STYRENE	5	< 25		25	UG/KG	Jul 8, 1992
TETRACHLOROETHYLENE	5	< 25		25	UG/KG	Jul 8, 1992
TOLUENE	5	< 25		25	UG/KG	Jul 8, 1992
TOTAL XYLENES	5	< 25		25	UG/KG	Jul 8, 1992
TRANS-1,2-DICHLOROETHYLENE	5	< 25		25	UG/KG	Jul 8, 1992
TRANS-1,3-DICHLOROPROPENE	5	< 25		25	UG/KG	Jul 8, 1992
TRICHLOROETHYLENE	5	< 25		25	UG/KG	Jul 8, 1992
TRICHLOROFLUOROMETHANE	5	< 25		25	UG/KG	Jul 8, 1992
VINYL ACETATE	5	< 250		250	UG/KG	Jul 8, 1992
VINYL CHLORIDE	5	< 50		50	UG/KG	Jul 8, 1992

Tentatively Identified Compounds:

UNKNOWN	TIC 1	6200			UG/KG	Jul 8, 1992
UNKNOWN C-5 AROMATIC	TIC 2	5500			UG/KG	Jul 8, 1992
UNKNOWN	TIC 3	2400			UG/KG	Jul 8, 1992
UNKNOWN	TIC 4	2300			UG/KG	Jul 8, 1992
UNKNOWN C-4 AROMATIC	TIC 5	1800			UG/KG	Jul 8, 1992
UNKNOWN C-4 AROMATIC	TIC 6	1500			UG/KG	Jul 8, 1992
UNKNOWN	TIC 7	1100			UG/KG	Jul 8, 1992
UNKNOWN	TIC 8	620			UG/KG	Jul 8, 1992
UNKNOWN	TIC 9	540			UG/KG	Jul 8, 1992
UNKNOWN C-4 AROMATIC	TIC 10	480			UG/KG	Jul 8, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4 SURR	5	91.0	Jul 8, 1992
4-BROMOFLUOROBENZENE SURR	5	112.0	Jul 8, 1992
TOLUENE-D8 SURR	5	97.0	Jul 8, 1992

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 1
Sample Name: TOL-SOIL 1
Date Sampled: June 29, 1992
Lab Sample ID: P206058-01 Analysis Lab: PONCA CITY

Method Number: NAP418_1 Prep Method: 3550

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS	220	1100		220	MG/KG	Jul 10, 1992

Comments:

EMPLOYEE SAMPLING WAS NOT NOTED ON CHAIN OF CUSTODY.
8240: DILUTION REQUIRED DUE TO HIGH LEVELS OF NONTARGET COMPOUNDS.

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 2
Sample Name: TOL-SOIL 2
Date Sampled: June 29, 1992
Lab Sample ID: P206058-02 Analysis Lab: PONCA CITY

Method Number: 8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1,2,2-TETRACHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1,2-TRICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1-DICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1-DICHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
1,2-DICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,2-DICHLOROPROPANE	125	< 620		620	UG/KG	Jul 10, 1992
2-BUTANONE	125	< 12000		12000	UG/KG	Jul 10, 1992
2-HEXANONE	125	< 6200		6200	UG/KG	Jul 10, 1992
4-METHYL-2-PENTANONE	125	< 6200		6200	UG/KG	Jul 10, 1992
ACETONE	125	< 12000		12000	UG/KG	Jul 10, 1992
BENZENE	125	< 620		620	UG/KG	Jul 10, 1992
BROMODICHLOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
BROMOFORM	125	< 620		620	UG/KG	Jul 10, 1992
BROMOMETHANE	125	< 1200		1200	UG/KG	Jul 10, 1992
CARBON DISULFIDE	125	< 620		620	UG/KG	Jul 10, 1992
CARBON TETRACHLORIDE	125	< 620		620	UG/KG	Jul 10, 1992
CHLOROBENZENE	125	< 620		620	UG/KG	Jul 10, 1992
CHLOROETHANE	125	< 1200		1200	UG/KG	Jul 10, 1992
CHLOROFORM	125	< 620		620	UG/KG	Jul 10, 1992
CHLOROMETHANE	125	< 1200		1200	UG/KG	Jul 10, 1992
CIS-1,3-DICHLOROPROPENE	125	< 620		620	UG/KG	Jul 10, 1992
DIBROMOCHLOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
DICHLORODIFLUOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
ETHYLBENZENE	125	< 620		620	UG/KG	Jul 10, 1992
METHYLENE CHLORIDE	125	< 620		620	UG/KG	Jul 10, 1992
STYRENE	125	< 620		620	UG/KG	Jul 10, 1992
TETRACHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
TOLUENE	125	< 620		620	UG/KG	Jul 10, 1992
TOTAL XYLENES	125	< 620		620	UG/KG	Jul 10, 1992
TRANS-1,2-DICHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
TRANS-1,3-DICHLOROPROPENE	125	< 620		620	UG/KG	Jul 10, 1992
TRICHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
TRICHLOROFLUOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
VINYL ACETATE	125	< 6200		6200	UG/KG	Jul 10, 1992
VINYL CHLORIDE	125	< 1200		1200	UG/KG	Jul 10, 1992

Tentatively Identified Compounds:

UNKNOWN AROMATIC	TIC 1	65000			UG/KG	Jul 10, 1992
UNKNOWN	TIC 2	41000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 3	32000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 4	18000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 5	12000			UG/KG	Jul 10, 1992
UNKNOWN C-5 AROMATIC	TIC 6	12000			UG/KG	Jul 10, 1992
NAPTHALENE, DECAHYDRO-	TIC 7	9200			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 8	8000			UG/KG	Jul 10, 1992
UNKNOWN	TIC 9	5700			UG/KG	Jul 10, 1992
UNKNOWN	TIC 10	5600			UG/KG	Jul 10, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4 SURR	125	100.0	Jul 10, 1992
4-BROMOFLUOROBENZENE SURR	125	114.0	Jul 10, 1992
TOLUENE-D8 SURR	125	109.0	Jul 10, 1992

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 2
Sample Name: TOL-SOIL 2
Date Sampled: June 29, 1992
Lab Sample ID: P206058-02 Analysis Lab: PONCA CITY

Method Number: NAP418_1 Prep Method: 3550

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS	1100	7900		1100	MG/KG	Jul 10, 1992

Comments:

EMPLOYEE SAMPLING WAS NOT NOTED ON CHAIN OF CUSTODY.
8240: DILUTION REQUIRED DUE TO HIGH LEVELS OF NONTARGET COMPOUNDS.

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 3
Sample Name: TOL-SOIL 3
Date Sampled: June 29, 1992
Lab Sample ID: P206058-03 Analysis Lab: PONCA CITY

Method Number: 8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 5		5	UG/KG	Jul 8, 1992
1,1,2,2-TETRACHLOROETHANE	1	< 5		5	UG/KG	Jul 8, 1992
1,1,2-TRICHLOROETHANE	1	< 5		5	UG/KG	Jul 8, 1992
1,1-DICHLOROETHANE	1	< 5		5	UG/KG	Jul 8, 1992
1,1-DICHLOROETHYLENE	1	< 5		5	UG/KG	Jul 8, 1992
1,2-DICHLOROETHANE	1	< 5		5	UG/KG	Jul 8, 1992
1,2-DICHLOROPROPANE	1	< 5		5	UG/KG	Jul 8, 1992
2-BUTANONE	1	< 100		100	UG/KG	Jul 8, 1992
2-HEXANONE	1	< 50		50	UG/KG	Jul 8, 1992
4-METHYL-2-PENTANONE	1	< 50		50	UG/KG	Jul 8, 1992
ACETONE	1	< 100		100	UG/KG	Jul 8, 1992
BENZENE	1	< 5		5	UG/KG	Jul 8, 1992
BROMODICHLOROMETHANE	1	< 5		5	UG/KG	Jul 8, 1992
BROMOFORM	1	< 5		5	UG/KG	Jul 8, 1992
BROMOMETHANE	1	< 10		10	UG/KG	Jul 8, 1992
CARBON DISULFIDE	1	< 5		5	UG/KG	Jul 8, 1992
CARBON TETRACHLORIDE	1	< 5		5	UG/KG	Jul 8, 1992
CHLOROBENZENE	1	< 5		5	UG/KG	Jul 8, 1992
CHLOROETHANE	1	< 10		10	UG/KG	Jul 8, 1992
CHLOROFORM	1	< 5		5	UG/KG	Jul 8, 1992
CHLOROMETHANE	1	< 10		10	UG/KG	Jul 8, 1992
CIS-1,3-DICHLOROPROPENE	1	< 5		5	UG/KG	Jul 8, 1992
DIBROMOCHLOROMETHANE	1	< 5		5	UG/KG	Jul 8, 1992
DICHLORODIFLUOROMETHANE	1	< 5		5	UG/KG	Jul 8, 1992
ETHYLBENZENE	1	< 5		5	UG/KG	Jul 8, 1992
METHYLENE CHLORIDE	1	< 5		5	UG/KG	Jul 8, 1992
STYRENE	1	< 5		5	UG/KG	Jul 8, 1992
TETRACHLOROETHYLENE	1	< 5		5	UG/KG	Jul 8, 1992
TOLUENE	1	< 5		5	UG/KG	Jul 8, 1992
TOTAL XYLENES	1	< 5		5	UG/KG	Jul 8, 1992
TRANS-1,2-DICHLOROETHYLENE	1	< 5		5	UG/KG	Jul 8, 1992
TRANS-1,3-DICHLOROPROPENE	1	< 5		5	UG/KG	Jul 8, 1992
TRICHLOROETHYLENE	1	< 5		5	UG/KG	Jul 8, 1992
TRICHLOROFLUOROMETHANE	1	< 5		5	UG/KG	Jul 8, 1992
VINYL ACETATE	1	< 50		50	UG/KG	Jul 8, 1992
VINYL CHLORIDE	1	< 10		10	UG/KG	Jul 8, 1992

Tentatively Identified Compounds:

UNKNOWN	TIC 1	21			UG/KG	Jul 8, 1992
UNKNOWN HYDROCARBON	TIC 2	15			UG/KG	Jul 8, 1992
UNKNOWN HYDROCARBON	TIC 3	8			UG/KG	Jul 8, 1992
UNKNOWN HYDROCARBON	TIC 4	6			UG/KG	Jul 8, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4 SURR	1	85.0	Jul 8, 1992
4-BROMOFLUOROBENZENE SURR	1	105.0	Jul 8, 1992
TOLUENE-D8 SURR	1	94.0	Jul 8, 1992

Method Number: NAP418_1 Prep Method: 3550

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 3
Sample Name: TOL-SOIL 3
Date Sampled: June 29, 1992
Lab Sample ID: P206058-03 Analysis Lab: PONCA CITY

TOTAL PETROLEUM HYDROCARBONS	1	220	18	MG/KG	Jul 10, 1992

mments:

EMPLOYEE SAMPLING WAS NOT NOTED ON CHAIN OF CUSTODY.

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 4
Sample Name: TOL-SOIL 4
Date Sampled: June 29, 1992
Lab Sample ID: P206058-04 Analysis Lab: PONCA CITY

Method Number: 8240

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1,2,2-TETRACHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1,2-TRICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1-DICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,1-DICHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
1,2-DICHLOROETHANE	125	< 620		620	UG/KG	Jul 10, 1992
1,2-DICHLOROPROPANE	125	< 620		620	UG/KG	Jul 10, 1992
2-BUTANONE	125	< 12000		12000	UG/KG	Jul 10, 1992
2-HEXANONE	125	< 6200		6200	UG/KG	Jul 10, 1992
4-METHYL-2-PENTANONE	125	< 6200		6200	UG/KG	Jul 10, 1992
ACETONE	125	< 12000		12000	UG/KG	Jul 10, 1992
BENZENE	125	< 620		620	UG/KG	Jul 10, 1992
BROMODICHLOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
BROMOFORM	125	< 620		620	UG/KG	Jul 10, 1992
BROMOMETHANE	125	< 1200		1200	UG/KG	Jul 10, 1992
CARBON DISULFIDE	125	< 620		620	UG/KG	Jul 10, 1992
CARBON TETRACHLORIDE	125	< 620		620	UG/KG	Jul 10, 1992
CHLOROBENZENE	125	< 620		620	UG/KG	Jul 10, 1992
CHLOROETHANE	125	< 1200		1200	UG/KG	Jul 10, 1992
CHLOROFORM	125	< 620		620	UG/KG	Jul 10, 1992
CHLOROMETHANE	125	< 1200		1200	UG/KG	Jul 10, 1992
CIS-1,3-DICHLOROPROPENE	125	< 620		620	UG/KG	Jul 10, 1992
DIBROMOCHLOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
DICHLORODIFLUOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
ETHYLBENZENE	125	< 620		620	UG/KG	Jul 10, 1992
METHYLENE CHLORIDE	125	< 620		620	UG/KG	Jul 10, 1992
STYRENE	125	< 620		620	UG/KG	Jul 10, 1992
TETRACHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
TOLUENE	125	< 620		620	UG/KG	Jul 10, 1992
TOTAL XYLENES	125	< 620		620	UG/KG	Jul 10, 1992
TRANS-1,2-DICHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
TRANS-1,3-DICHLOROPROPENE	125	< 620		620	UG/KG	Jul 10, 1992
TRICHLOROETHYLENE	125	< 620		620	UG/KG	Jul 10, 1992
TRICHLOROFLUOROMETHANE	125	< 620		620	UG/KG	Jul 10, 1992
VINYL ACETATE	125	< 6200		6200	UG/KG	Jul 10, 1992
VINYL CHLORIDE	125	< 1200		1200	UG/KG	Jul 10, 1992

Tentatively Identified Compounds:

UNKNOWN C-5 AROMATIC	TIC 1	97000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 2	68000			UG/KG	Jul 10, 1992
UNKNOWN	TIC 3	53000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 4	41000			UG/KG	Jul 10, 1992
UNKNOWN	TIC 5	31000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 6	30000			UG/KG	Jul 10, 1992
UNKNOWN C-4 AROMATIC	TIC 7	18000			UG/KG	Jul 10, 1992
NAPTHALENE, DECAHYDRO-	TIC 8	16000			UG/KG	Jul 10, 1992
UNKNOWN C-5 AROMATIC	TIC 9	14000			UG/KG	Jul 10, 1992
UNKNOWN C-3 AROMATIC	TIC 10	14000			UG/KG	Jul 10, 1992

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4 SURR	125	94.0	Jul 10, 1992
4-BROMOFLUOROBENZENE SURR	125	117.0	Jul 10, 1992
TOLUENE-D8 SURR	125	105.0	Jul 10, 1992

Location: TOLEDO
Project Name: UST REMOVAL
Sample Source: TOL-SOIL 4
Sample Name: TOL-SOIL 4
Date Sampled: June 29, 1992
Lab Sample ID: P206058-04 Analysis Lab: PONCA CITY

Method Number: NAP418_1 Prep Method: 3550

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS	4400	24000		4400	MG/KG	Jul 10, 1992

Comments:

EMPLOYEE SAMPLING WAS NOT NOTED ON CHAIN OF CUSTODY.
8240: DILUTION REQUIRED DUE TO HIGH LEVELS OF NONTARGET COMPOUNDS.

Conoco Environmental Services
Lab Analysis Report
Summary of Analyte Results Exceeding PQL

Location: TOLEDO
Project Name: UST REMOVAL
Date Sampled: Jun 29, 1992

Analyte/Parameter	Result	Unit	MDL	PQL	Method No.	Analyzed	Sample Name
UNKNOWN	6200	UG/KG			8240	92-07-08	TOL-SOIL 1
UNKNOWN C-4 AROMATIC	1800	UG/KG			8240	92-07-08	TOL-SOIL 1
UNKNOWN C-5 AROMATIC	5500	UG/KG			8240	92-07-08	TOL-SOIL 1
TOTAL PETROLEUM HYDROCARBONS	1100	MG/KG		220	NAP418_1	92-07-10	TOL-SOIL 1
NAPTHALENE, DECAHYDRO-	9200	UG/KG			8240	92-07-10	TOL-SOIL 2
UNKNOWN	41000	UG/KG			8240	92-07-10	TOL-SOIL 2
UNKNOWN AROMATIC	65000	UG/KG			8240	92-07-10	TOL-SOIL 2
UNKNOWN C-4 AROMATIC	32000	UG/KG			8240	92-07-10	TOL-SOIL 2
UNKNOWN C-5 AROMATIC	12000	UG/KG			8240	92-07-10	TOL-SOIL 2
TOTAL PETROLEUM HYDROCARBONS	7900	MG/KG		1100	NAP418_1	92-07-10	TOL-SOIL 2
UNKNOWN	21	UG/KG			8240	92-07-08	TOL-SOIL 3
UNKNOWN HYDROCARBON	15	UG/KG			8240	92-07-08	TOL-SOIL 3
TOTAL PETROLEUM HYDROCARBONS	220	MG/KG		18	NAP418_1	92-07-10	TOL-SOIL 3
NAPTHALENE, DECAHYDRO-	16000	UG/KG			8240	92-07-10	TOL-SOIL 4
UNKNOWN	53000	UG/KG			8240	92-07-10	TOL-SOIL 4
UNKNOWN C-3 AROMATIC	14000	UG/KG			8240	92-07-10	TOL-SOIL 4
UNKNOWN C-4 AROMATIC	68000	UG/KG			8240	92-07-10	TOL-SOIL 4
UNKNOWN C-5 AROMATIC	97000	UG/KG			8240	92-07-10	TOL-SOIL 4
TOTAL PETROLEUM HYDROCARBONS	24000	MG/KG		4400	NAP418_1	92-07-10	TOL-SOIL 4

TOL-SOIL 1
Lab Sample ID: P206058-01 Analysis Lab: PONCA CITY

Method Number: 8240
Batch Start Date: 08-JUL-92 Instrument: FINN4 Batch Number: 1

Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1-DICHLOROETHYLENE	72.0	P206058-03 PONCA CITY
BENZENE	103.0	P206058-03 PONCA CITY
CHLOROBENZENE	92.0	P206058-03 PONCA CITY
TOLUENE	82.0	P206058-03 PONCA CITY
TRICHLOROETHYLENE	88.0	P206058-03 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	92.0	P206058-03 PONCA CITY
4-BROMOFLUOROBENZENE SURR	105.0	P206058-03 PONCA CITY
TOLUENE-D8 SURR	90.0	P206058-03 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1-DICHLOROETHYLENE	76.0	6.0	P206058-03 PONCA CITY
BENZENE	98.0	6.0	P206058-03 PONCA CITY
CHLOROBENZENE	88.0	4.0	P206058-03 PONCA CITY
TOLUENE	82.0	1.0	P206058-03 PONCA CITY
TRICHLOROETHYLENE	84.0	5.0	P206058-03 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	93.0	P206058-03 PONCA CITY
4-BROMOFLUOROBENZENE SURR	104.0	P206058-03 PONCA CITY
TOLUENE-D8 SURR	91.0	P206058-03 PONCA CITY

Method Number: NAP418_1 Prep Method: 3550
Batch Start Date: 09-JUL-92 Instrument: PEIR2 Batch Number: 3

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	90.0	LCS -01 PONCA CITY

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	79.0	LCSD -01 PONCA CITY

Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	69.0	P207004-04 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	24.0	2.0	P207004-04 PONCA CITY

TOL-SOIL 2
Lab Sample ID: P206058-02 Analysis Lab: PONCA CITY

Method Number: 8240
Batch Start Date: 10-JUL-92 Instrument: FINN4 Batch Number: 1

Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1-DICHLOROETHYLENE	84.0	P206058-02 PONCA CITY
BENZENE	102.0	P206058-02 PONCA CITY
CHLOROBENZENE	95.0	P206058-02 PONCA CITY
TOLUENE	86.0	P206058-02 PONCA CITY
TRICHLOROETHYLENE	92.0	P206058-02 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	100.0	P206058-02 PONCA CITY
4-BROMOFLUOROBENZENE SURR	108.0	P206058-02 PONCA CITY
TOLUENE-D8 SURR	87.0	P206058-02 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1-DICHLOROETHYLENE	82.0	2.0	P206058-02 PONCA CITY
BENZENE	100.0	3.0	P206058-02 PONCA CITY
CHLOROBENZENE	97.0	2.0	P206058-02 PONCA CITY
TOLUENE	91.0	6.0	P206058-02 PONCA CITY
TRICHLOROETHYLENE	93.0	2.0	P206058-02 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	90.0	P206058-02 PONCA CITY
4-BROMOFLUOROBENZENE SURR	101.0	P206058-02 PONCA CITY
TOLUENE-D8 SURR	94.0	P206058-02 PONCA CITY

Method Number: NAP418_1 Prep Method: 3550
Batch Start Date: 09-JUL-92 Instrument: PEIR2 Batch Number: 3

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	90.0	LCS -01 PONCA CITY

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	79.0	LCSD -01 PONCA CITY

Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	69.0	P207004-04 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	24.0	2.0	P207004-04 PONCA CITY

TOL-SOIL 3
Lab Sample ID: P206058-03 Analysis Lab: PONCA CITY

Method Number: 8240
Batch Start Date: 08-JUL-92 Instrument: FINN4 Batch Number: 1

Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1-DICHLOROETHYLENE	72.0	P206058-03 PONCA CITY
BENZENE	103.0	P206058-03 PONCA CITY
CHLOROBENZENE	92.0	P206058-03 PONCA CITY
TOLUENE	82.0	P206058-03 PONCA CITY
TRICHLOROETHYLENE	88.0	P206058-03 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	92.0	P206058-03 PONCA CITY
4-BROMOFLUOROBENZENE SURR	105.0	P206058-03 PONCA CITY
TOLUENE-D8 SURR	90.0	P206058-03 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1-DICHLOROETHYLENE	76.0	6.0	P206058-03 PONCA CITY
BENZENE	98.0	6.0	P206058-03 PONCA CITY
CHLOROBENZENE	88.0	4.0	P206058-03 PONCA CITY
TOLUENE	82.0	1.0	P206058-03 PONCA CITY
TRICHLOROETHYLENE	84.0	5.0	P206058-03 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	93.0	P206058-03 PONCA CITY
4-BROMOFLUOROBENZENE SURR	104.0	P206058-03 PONCA CITY
TOLUENE-D8 SURR	91.0	P206058-03 PONCA CITY

Method Number: NAP418_1 Prep Method: 3550
Batch Start Date: 09-JUL-92 Instrument: PEIR2 Batch Number: 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	97.0	LCS -01 PONCA CITY

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	99.0	LCSD -01 PONCA CITY

TOL-SOIL 4
Lab Sample ID: P206058-04 Analysis Lab: PONCA CITY

Method Number: 8240
Batch Start Date: 10-JUL-92 Instrument: FINN4 Batch Number: 1

Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1-DICHLOROETHYLENE	84.0	P206058-02 PONCA CITY
BENZENE	102.0	P206058-02 PONCA CITY
CHLOROBENZENE	95.0	P206058-02 PONCA CITY
TOLUENE	86.0	P206058-02 PONCA CITY
TRICHLOROETHYLENE	92.0	P206058-02 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	100.0	P206058-02 PONCA CITY
4-BROMOFLUOROBENZENE SURR	108.0	P206058-02 PONCA CITY
TOLUENE-D8 SURR	87.0	P206058-02 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1-DICHLOROETHYLENE	82.0	2.0	P206058-02 PONCA CITY
BENZENE	100.0	3.0	P206058-02 PONCA CITY
CHLOROBENZENE	97.0	2.0	P206058-02 PONCA CITY
TOLUENE	91.0	6.0	P206058-02 PONCA CITY
TRICHLOROETHYLENE	93.0	2.0	P206058-02 PONCA CITY

Surrogates:

1,2-DICHLOROETHANE-D4 SURR	90.0	P206058-02 PONCA CITY
4-BROMOFLUOROBENZENE SURR	101.0	P206058-02 PONCA CITY
TOLUENE-D8 SURR	94.0	P206058-02 PONCA CITY

Method Number: NAP418_1 Prep Method: 3550
Batch Start Date: 09-JUL-92 Instrument: PEIR2 Batch Number: 3

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	90.0	LCS -01 PONCA CITY

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	79.0	LCSD -01 PONCA CITY

Spike:

Analyte/Parameter	RPR	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	69.0	P207004-04 PONCA CITY

Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
TOTAL PETROLEUM HYDROCARBONS	24.0	2.0	P207004-04 PONCA CITY

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Research and Engineering

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P2-06-058

Project Number: 6190-11-T4

Type or Print Data

Facility Name	Telephone Number	Transporter Name	Telephone Number
DUPONT TOLEDO	(419) 478- 4870	FEDERAL EXPRESS	( )

Facility Address	Transporter Address
1930 TREMAINSVILLE - TOLEDO, OH 43613	

Facility Supervisor	Method of Shipping
DENISE CLEMENT	OVERNIGHT AIR

Process Producing Sample	Special Shipping Instructions
UST REMOVAL	PACK IN WET ICE TO PONCA CITY

Employee(s) Sampling	Remarks

Other Employee(s) Handling	

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	8240S	KVH ~~8270S~~ TPH	KWH ~~3550S~~
TOL-SOIL 1	6/29/92	1415	SOIL	250 ML	WM/G	2	NONE	X	X	X
TOL-SOIL 2	6/29/92	1427	SOIL	250 ML	WM/G	2	NONE	X	X	X
TOL-SOIL 3	6/29/92	1442	SOIL	250 ML	WM/G	2	NONE	X	X	X
TOL-SOIL 4	6/29/92	1446	SOIL	250 ML	WM/G	2	NONE	X	X	X

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
E. Duncan	6/19/92 0900	Denise Fulbri-Clement	6/24/92 1300	
Relinquished by: Denise Fulbri-Clement	Date/Time: 6/29/92 1512	Received by: K Hodge	Date/Time: 6/30/92 1115	Good
Relinquished by	Date/Time	Received by	Date/Time	Signature: K Hodge — Date: 6/30/92
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	4°C
Relinquished by	Date/Time	Received by	Date/Time	Signature: K Hodge — Date: 6/30/92

5-157 X3, 10-91

ANALYZING LAB COPY

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Thomas R. Uhler, P.E., vice president Technical Services
Daniel A. Kaniarz, P.E., chief Geotechnical Division

ded in 1927

Toledo Testing Laboratory, Inc.

FILE

September 14, 1988

Mr. Jean Reinhart
E.I. DuPont DeNemours & Company
P.O. Box 953
Toledo, Ohio 43695

RE: POWER HOUSE SOLVENT TANK
E.I. DU POINT DE NEMOURS & COMPANY
TREMAINSVILLE ROAD
TOLEDO, OHIO
P.O. NO. LOOT 89615-V
T.T.L. JOB NO. DR-9876

Dear Mr. Reinhart:

This letter report presents the results of a soil investigation performed at the above referenced project. The site of the proposed tank is located 20 feet west and 15 feet north of Building 56 within the limits of the existing DuPont Plant in Toledo, Ohio. Present plans call for the construction of a 15,000 gallon storage tank. The limits of the site is shown on the Test Boring Location Plan, Plate 1.

The purpose of this investigation is to obtain subsurface data to define the general physical characteristics of the subsoils, and to evaluate such data with the respect to the foundation and site development requirements for the proposed project. Specifically, this report presents recommendations relating to the most feasible foundation type, allowable bearing pressure, groundwater conditions and control, earthwork operations to prepare subgrades for the support of any pavement or slabs, together with other related and pertinent construction procedures.

On September 2, 1988, a field investigation consisting of two test borings was performed at the subject site by our drilling personnel. The test borings were drilled at the locations shown on the Test Boring Location Plan, Plate 1. The test borings were drilled with an all terrain track mounted rotary drilling rig utilizing four inch diameter solid-stem augers to a depth of fifteen feet below the ground surface. Soil samples were generally taken at 2.5 foot intervals in the upper 10 feet and at 5 foot intervals below that depth.

Samples were obtained by the Standard Penetration Test Method (ASTM D 1586) which consists of driving a two inch outside diameter split-barrel sampler into the soil with a 140 pound weight falling freely through a distance of thirty inches. The sampler is driven in three successive six inch increments with the number of blows per each increment being recorded. The number of blows required to advance the sampler the last twelve inches is termed the Standard Penetration Resistance (N) and is presented on the individual Logs of Test Boring. The split-barrel sampler contained a 1.375 inch inside diameter and three inch long liner insert. Soil samples recovered in these housel liners are designated as "LS" on the Tabulation of Test Data. All soil samples obtained with the split-barrel sampler were sealed in glass jar containers and transported to our laboratory for further classification and testing.

Soil conditions encountered in the test borings have been evaluated and are presented in the form of Logs of Test Boring, Figures 1 through 3. In addition, the boring logs present information relating to sample data, standard penetration test results, water conditions observed in the borings, personnel involved and other pertinent data. It should be noted that the logs included with the report have been prepared on the basis of laboratory classification and testing as well as field logs of the soils encountered.

Selected liner samples of the subsoils were tested in the laboratory for natural moisture content, in-place dry density and unconfined compressive strength. All test results are presented on the Tabulation of Test Data, Figure 4.

Based on the field investigation and laboratory test data for the test borings, the subsoils appear to be generally uniform. The site is blanketed with crushed stone and fill materials about 2 inches to 4 feet thick. The fill consists of soft to very stiff brown and grey to black clayey silt to silty clay with trace of sand and varying amounts of organic matter. Underlying the surface material is a native cohesive strata of soft to medium stiff brown and grey silty clay to clayey silt with varying amounts of sand which was found down to 8 foot depth. Next is a stratum of soft to medium stiff grey clayey silt which was encountered down to 10.5 foot depth. Below this stratum and extending throughout the remainder of each test boring is a deposit of very soft grey clayey silt with trace of sand. Groundwater was encountered in both test borings at a 4.5 to 8.0 foot depth during drilling operations. Groundwater levels were found to rise to a 4.3 to 6.2 foot depth upon completion of the drilling operations.

With the exception of any topsoil or highly organic fill deposits not identified by the borings, the surface native and fill soils encountered over the site, if properly prepared and conditioned, as outlined in this report, should be suitable for the direct support of new pavements and floor slabs. However, due to the

variable nature of the fill and its noncontrolled placement it is not considered suitable for the support of the building foundations. The underlying native subsoils are considered suitable for the direct support of light to moderate loads provided that appropriate soil bearing pressures are utilized for foundation design.

At the start of site preparation operations, any topsoil and fill deposits with high organic content should be removed to their entirety from the proposed structure and pavement areas. Any exposed soil areas should then be thoroughly proof-rolled with a heavy rubber-tire roller or heavy earthmoving equipment of not less than ten ton rated weight. The vehicle should make a minimum of five passes in each of two perpendicular directions covering the proposed development area. Any areas that exhibit excessive pumping and yielding during proof-rolling should be stabilized by aeration and compaction if weather conditions permit, or the removal of the yielding soils and their replacement with engineered backfill. In addition to detecting unstable areas, the proof-rolling operation is expected to densify the upper deposits and thereby improve their bearing and settlement characteristics.

Material for engineered backfill or fill required to achieve design grades may consist of any nonorganic soils. The on-site soils that are free of organic matter, excessive moisture and debris may be used as engineered fill materials. The fill should be placed in uniform layers of not more than eight inches in thickness each. Within building areas and the upper eighteen inches of pavement subgrades the fill should be compacted to achieve a density of not less than ninety-five percent of the maximum dry density as established by ASTM D 1557 (Modified Proctor). Below the eighteen inch depth of pavement subgrades, the fill should be compacted to not less than ninety percent of the same standard.

The on-site soils consist of cohesive soils necessitating sheeps-foot type of soil compaction. In narrow utility or footing excavations, the cohesive material may be difficult to compact, therefore, granular material may be required in these areas. All fill material should be at approximately the optimum moisture content during compaction. Furthermore, fill material should not be frozen nor be placed on a frozen base. It is recommended that all earthwork and site preparation activities be conducted under adequate specifications and properly controlled in the field by a geotechnical engineering testing firm.

Following the satisfactory completion of the site preparation and proof-rolling operations, it is recommended that the proposed structure be supported on spread or strip footings, a ring foundation or a mat foundation bearing on native soils. Due to the varying strength of the soil at different depths it is recommended the foundations be designed as follows:

Mr. Jean Reinhart
E.I. DuPont DeNemours & Company
Toledo, Ohio 43695

Bearing Depth	Soil Type	Allowable Bearing Pressure
3' to 8'	Medium stiff brown and grey clayey silt to silty clay	1,000 psf
Below 8'	Very soft to medium stiff grey clayey silt	600 psf

The width of strip footings or ring foundation should not be less than twelve inches regardless of the resulting soil bearing pressure. In addition to providing adequate footing depth to resist uplift forces, footings should be constructed at a minimum frost penetration depth of 3'6" below exposed finished grades. Utilizing the above bearing pressures, the total and differential settlements should be minimal and well within tolerable limits for a structure of this type.

As stated previously, groundwater seepage was found in both test borings. Thus, in excavations for the structure little to no water seepage should be encountered. Any water seepage should be easily controllable by the use of conventional field pumping from prepared sump pits. It is known that groundwater table varies throughout the year and over a period of years. This has been a dry summer and it appears that the water table is near its low point.

The subgrades that would result upon the satisfactory completion of site preparation and proof-rolling operations are considered acceptable for the support of pavements. The pavement subgrade soils are expected to consist of predominantly clayey silt or sandy silt which are considered to be very susceptible to frost penetration. Therefore, it is recommended that the pavement areas and drives be properly graded to promote effective drainage of water and prevent ponding of surface water on the pavement areas.

The evaluations and recommendations presented in this report have been formulated on the basis of reported or assumed data relating to the location, type and finished grades for the proposed structure. Any significant change in this data in the final design plans should be brought to our attention for review and evaluation with respect to the prevailing subsoil conditions.

It should be noted that the design recommendations presented in this letter report are limited due to the depth of the test borings. Higher allowable bearing pressures may be achieved with a further geotechnical investigation, including deeper test borings and additional laboratory and engineering analysis. This office should be contacted if such information is desired.

Mr. Jean Reinhart
E.I. DuPont DeNemours & Company
Toledo, Ohio 43695

September 14, 1988
T.T.L. Job No. DR-9876

Experience indicates that the actual subsoil conditions at a site could vary from those generalized on the basis of test borings made at specific locations. Therefore, it is essential that a geotechnical engineer be retained to provide soil engineering services during the site preparation, excavations and foundation phases of the proposed project. This is to observe compliance with the design concepts, specifications and recommendations and to allow design changes in the event that subsurface conditions differ from those anticipated prior to the start of construction.

Soil samples collected during this investigation will be stored at our laboratory for a period of ninety days from the date of this report. The samples will be discarded after this time unless you request that the samples be saved or delivered to you.

It is hoped that the data and recommendations presented herein are sufficient to fulfill your present requirements. Should you have any questions or require additional information, please contact our office.

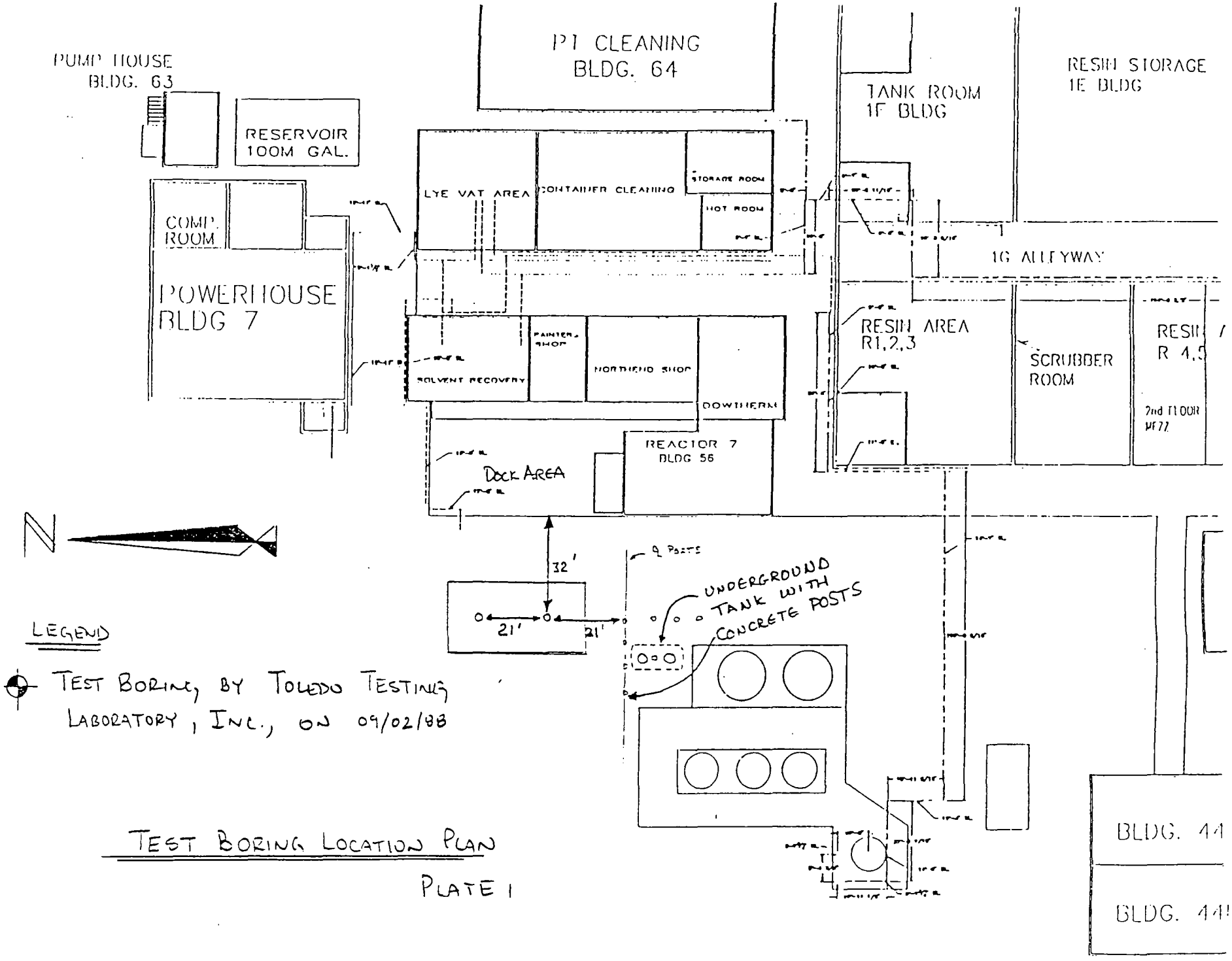
Very truly yours,

TOLEDO TESTING LABORATORY, INC.
Ernest C. Enrique, M.S., E.I.T.
Geotechnical Engineer

Richard L. Johnson

Richard L. Johnson, P.E.
Chief Geotechnical Engineer

RLJ/ECE/dmr



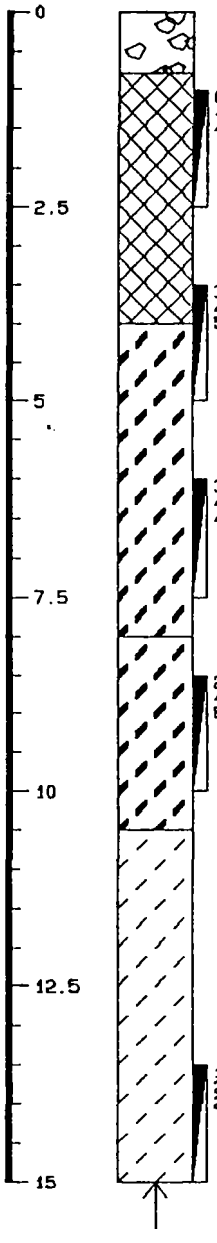
TEST BORING LOCATION PLAN

PLATE 1

LOG OF TEST BORING

BORING 1

PROJECT: DR 9876 | DATE: 9-02-88
BORING NO.: 1 | ELEV.:
BORING LOCATION: SEE BORING LOCATION PLAN
DRILL METHOD: CME 55 7-58" H.S.A. | DRILLERS: N.W./J.W.
ENCOUNTERED WATER DEPTH: 8.0' | COMPLETION: 6'2"
DEPTH OF WATER WHEN CHECKED ON: | WAS:



ELEVATION / DEPTH	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	Description	Moist %	Density pcf	Unconfined Strength psf
		Crushed stone			
		Fill: Soft to medium stiff black clayey silt w/little organic and trace of sand.	29.4	88.6	
			17.7	112.1	1.675
		Medium stiff brown to grey silty clay to clayey silt with little sand			
			22.9	105.0	1.345
		Medium stiff grey clayey silt			
			23.8	100.6	1.945
		Very soft grey clayey silt with trace of sand			
			30.6	95.3	425

(1) symbol indicates the depth of caving

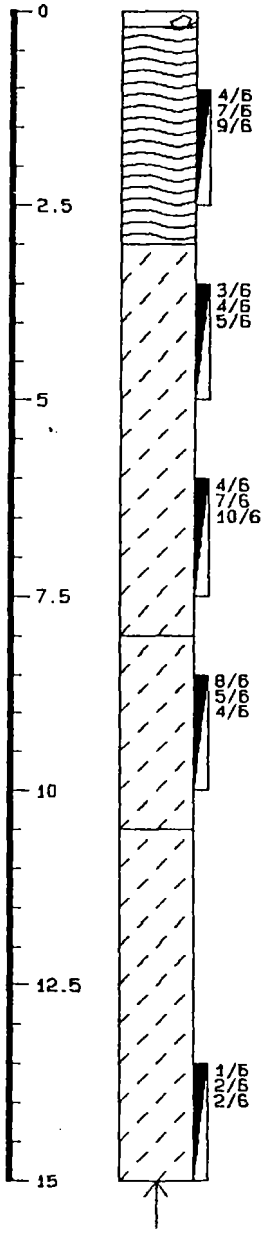
Figure Number 1

LOG OF TEST BORING

BORING 2

PROJECT: DR 9876
BORING NO.: 2
BORING LOCATION: SEE BORING LOCATION PLAN
DRILL METHOD: CME 55 7-58" H.S.A.
ENCOUNTERED WATER DEPTH: 4'6"
DEPTH OF WATER WHEN CHECKED ON:

DATE: 9-02-88
ELEV.:
DRILLERS: N.W./J.W.
COMPLETION: 4'3"
WAS:



ELEVATION / DEPTH	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	Description	Moist %	Density pcf	Unconfined Strength psf
		Crushed stone			
		Fill: Very stiff grey and brown silty clay w/traces of sand and organic matter	20.3	105.0	6,610
		Soft to medium stiff brown and grey clayey silt with traces of sand and gravel	26.0	99.2	780
			24.1	101.4	
		Soft grey clayey silt	27.3	99.2	835
		Very soft grey clayey silt	29.7	95.6	465

(1) symbol indicates the depth of caving

Figure Number 2

Toledo Testing Laboratory, Inc.

Legend:

Symbol:	Description:	Symbol:	Description:
	Crushed stone		
	Fill: Soft to medium stiff black clayey silt w/little organic and trace of sand.		
	Medium stiff grey clayey silt		
	Very soft grey clayey silt with trace of sand		
	Fill: Very stiff grey and brown silty clay w/traces of sand and organic matter		
7/6 5/6	Standard penetration test. 140 lb. hammer dropped 30"		end of boring

Notes:

1. Exploratory borings were drilled on September 2, 1988 using 7-5/8 inches outside diameter hollow stem augers.

2. Groundwater seepage was encountered in both test borings during drilling operations.

3. These logs are subject to the limitations, conclusions, and recommendations in this report.

4. Results of tests conducted on samples recovered are reported on the logs. Abbreviations used are:

DD	= natural dry density (pcf)	LL	= Liquid limit
WC	= natural moisture content (%)	PI	= Plasticity index
UC	= Unconfined compression (psf)	pH	= soil pH (%)
-200	= percent passing #200 sieve (%)	SS	= Soluable sulfates
SR	= Soil resistivity (ohm-cm)		

Project No. DR-9876

TOLEDO TESTING LABORATORY, INC.

TABULATION OF TEST DATA

Test Boring or Test Pit Number	Sample Number	Depth of Sample Tip	Elevation of Sample Tip	Standard Penetration (Number of Blows/Foot Unless Otherwise Stated)	Natural Water Content (Percent of Dry Weight)	In-Place Dry Density (Pounds per Cubic Foot)	Unconfined Compressive Strength (PSF)		Particle Size Distribution: Gravel (Percent)	Coarse Sand (Percent)	Medium Sand (Percent)	Fine Sand (Percent)	Silt (Percent)	Clay (Percent)	Colloids (Percent)	Atterberg Limits: Liquid Limit (Percent)	Plastic Limit (Percent)	Plasticity Index (Percent)	Group Designation and Index (AASHTO)
1	LS-1	2.5		8	29.4	88.6													
	LS-2	5.0		9	17.7	112.1	1,675												
	LS-3	7.5		8	22.9	105.0	1,345												
	LS-4	10.0		10	23.8	100.6	1,945												
	LS-5	15.0		4	30.6	95.3	425												
2	LS-1	2.5		16	20.3	105.0	6,610												
	LS-2	5.0		9	26.0	99.2	780												
	LS-3	7.5		17	24.1	101.4													
	LS-4	10.0		9	27.3	99.2	835												
	LS-5	15.0		4	29.7	95.6	465												

Figure 4