108, 09

DATE: August 13 2002

TETRA TECH
200 E. RANDOLPH DRIVE
SUITE 4700
CHICAGO, IL 60601

Attn: ERIC MONCHEIN

SITE NAME: Sauget Site H & I

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
30721	Clayton	19	E21K0	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

AUG 1 2 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on August 1, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: Tetra Tech

We have reviewed the data for the following case:

Site name: Sauget Site H & I (IL)

Case number: 30721 SDG Number: E21K0

Number and Type of Samples: 19 soil samples

Sample Numbers: E21K0-E21K9, E21L1-E21L9

Laboratory: Clayton Hrs. for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen soil samples (E21K1-E21K9 and E21L1-E21L9) were collected on 07/13-15/2002. The laboratory received the samples on 07/16-17/2002. All samples were analyzed for the full list of organic analytes according to CLP SOW OLMO4.2 5/99.

Samples E21L7-E21L9 were received in good condition. Samples E21L1 to E21L6 were 8.8°C upon receipt. Samples E21K0-E21K9 and E21L0 were 8.5°C upon receipt.

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

1. HOLDING TIME

No problems were found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Trichlorofluoromethane
E21K7, E21K7RE, E21K8DL, E21L9, VBLKKI

Acetone, 2-Butanone
E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K6DL, E21K7, E21K7RE, E21K8, E21K8DL, E21L1, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L6DL, E21L7, E21L8, E21L9, VBLKKC, VBLKKH, VBLKKI, VBLKKJ, VHBLKKA

4-Methyl-2-pentanone, 2-Hexanone
E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K7, E21K7RE, E21K8DL, E21L9, VBLKKC, VBLKKI

1,2-Dibromo-3-chloropropane
E21K6, E21K7, E21K7RE, E21K8DL, E21K9, E21L6, E21L9, VBLKKD, VBLKKI

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2,2'-oxybis(1-Chloropropane)
E21K0, E21K0DL, E21K1, E21K1DL, E21K2, E21K3, E21K3DL, E21K4, E21K5, E21K6, E21K7, E21K7DL, E21K8, E21K9, E21L1, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L5DL, E21L6, E21L7, E21L8, E21L8DL, E21L9, SBLKS1, SBLKS2

Hexachlorocyclopentadiene
E21K0DL, E21K1, E21K1DL, E21K2, E21K3, E21K3DL, E21K6, E21K7DL, E21K8, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L5DL, E21L6, E21L7, E21L8DL, E21L9, SBLKS2

2-Nitroaniline
E21K0, E21K4, E21K5, E21K7, E21K9, E21L1, E21L8, SBLKS1

2,4-Dinitrophenol, Pentachlorophenol

E21K0DL, E21K1, E21K2, E21K3, E21K3DL, E21K6, E21K7DL, E21K8, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L6, E21L7, E21L8DL, E21L9, SBLKS2

Atrazine
E21K0DL, E21K2, E21K3, E21K7DL, E21K8, E21L2, E21L2MS, E21L8DL

3,3'-Dichlorobenzidine
E21K0, E21K0DL, E21K1DL, E21K2, E21K3, E21K4, E21K5, E21K7, E21K7DL, E21K8, E21K9, E21L1, E21L2, E21L2MS, E21L5DL, E21L8, E21L8DL, SBLKS1

4. METHOD BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

1,2,4-Trichlorobenzene
E21L8

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

1,2,4-Trichlorobenzene
E21K6, E21K6DL, E21K7, E21K9, E21L1, E21L2, E21L2MSD, E21L3, E21L4, E21L5, E21L6, E21L6DL, VHBLKKA

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Acetone
E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K6, E21K6DL, E21K7, E21K7RE, E21K8, E21K8DL, E21K9, E21L1, E21L2, E21L2MS, E21L3, E21L4, E21L5, E21L6, E21L7, E21L8, E21L9, VHBLKKA

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Surrogate recoveries for VOA sample E21K7RE was not reported on Form II. Raw data indicates the surrogate recoveries for E21K7RE were within the QC limits.

The following semivolatile samples have surrogate recoveries of less than 10% and a dilution factor which exceeds criteria. Hits and non-detects are not flagged due to sample dilution.

E21L5DL

The following semivolatile samples have two or more base/neutral surrogate recoveries below the lower limit of the criteria window and greater than 10%. Hits and non-detects are not flagged due to sample dilution.

E21L8DL, E21K8

The following semivolatile samples have one surrogate recovery in each fraction exceeds criteria. Hits and non-detects are not flagged since the protocol allows at least two surrogates in either the base/neutral or acid fraction to be out of control before a reanalysis or qualification of the results is required.

E21L8, E21K3DL

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E21K1, E21K6, E21L3, E21L4

The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

E21K2

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits and non-detects are qualified below.

E21K0

The following pesticide samples have surrogate recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

E21K0, E21K7

The following pesticide samples have surrogate percent recoveries outside the QC limits. Hits and non-detects are not flagged due to sample dilution.

E21K7DL, E21K8, E21K8DL, E21L1, E21L1DL, E21L2, E21L2DL, E21L2MS, E21L2MSD, E21L4DL, E21L5, E21L5DL, E21L6, E21L6DL, E21L7, E21L7DL, E21L9, E21L9DL

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compounds in the unspiked sample E21L2 are estimated "J" and non-detects are not qualified.

E21L2MS, E21L2MSD
Chlorobenzene

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample E21L2 are estimated "J" and non-detects are estimated "UJ".

E21L2MS, E21L2MSD
Pentachlorophenol

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Hits and non-detects in the unspiked sample E21L2 are not flagged due to sample dilution and matrix interference.

E21L2MS, E21L2MSD
Heptachlor, 4,4'-DDT

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits and non-detects in the unspiked sample E21L2 are not flagged due to sample dilution and matrix interference.

E21L2MS, E21L2MSD
gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin, 4,4'-DDT

7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this data set were identified as trip blanks, field blanks or field duplicates.

8. INTERNAL STANDARDS

No problems were found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E21K0
Methylene chloride, Cyclohexane, Trichloroethene, Methylcyclohexane, Tetrachloroethene, 1,2-

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

Dichlorobenzene

E21K1
Methylene chloride, Toluene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

E21K2
Methylene chloride, Benzene, Methylcyclohexane, Tetrachloroethene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

E21K3
Vinyl chloride, Methylene chloride, Trichloroethene, Ethylbenzene, Isopropylbenzene

E21K4
Vinyl chloride, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene chloride, Trans-1,2-Dichloroethene, Methyl tert-Butyl Ether, 2-Butanone, Cyclohexane, Methylcyclohexane, Toluene, 1,1,2-Trichloroethene, Tetrachloroethene, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylene(total), Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

E21K5
Cis-1,2-Dichloroethene, Trichloroethene, 1,2,4-Trichlorobenzene

E21K6
1,1-Dichloroethene, 1,1-Dichloroethane, 1,1,1-Trichloroethane, Cyclohexane, Methylcyclohexane, Ethylbenzene, 1,2-Dichlorobenzene

E21K6DL
Vinyl chloride, Benzene, Trichloroethene, Tetrachloroethene, Xylene(total), 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21K7
Benzene, Trichloroethene, 4-Methyl-2-pentanone, Tetrachloroethene, Ethylbenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21K7RE
Benzene, Trichloroethene, 4-Methyl-2-pentanone, Tetrachloroethene, Ethylbenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

E21K8
2-Butanone, Benzene, Trichloroethene, 4-Methyl-2-pentanone, Tetrachloroethene

E21K8DL
Benzene, 4-Methyl-2-pentanone, Toluene, Ethylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

E21K9
Benzene, Chlorobenzene, 1,4-Dichlorobenzene

E21L1
Methyl Acetate, Methylene chloride, Benzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L2
Methylene chloride, Benzene, Methylcyclohexane, Ethylbenzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L2MS
2-Butanone, Methylcyclohexane, Ethylbenzene, Xylene(total), 1,2-Dichlorobenzene

E21L2MSD
Methylcyclohexane, Ethylbenzene, Xylene(total), 1,2-Dichlorobenzene

E21L3
Vinyl chloride, Cis-1,2-Dichloroethene, Benzene, Tetrachloroethene, Xylene(total), 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21L4
Methylene chloride, Methylcyclohexane, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L5
2-Butanone, Toluene, Ethylbenzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L6
Methylcyclohexane, Xylene(total), Isopropylbenzene, 1,2-Dichlorobenzene

E21L6DL
Methylene chloride, Ethylbenzene, Isopropylbenzene, 1,3-Dichlorobenzene

E21L7
Methylene chloride, Cyclohexane, Methylcyclohexane, Toluene, Ethylbenzene, Xylene(totoal), Isopropylbenzene, 1,3-Dichlorobenzene

E21L8
Methyl Acetate, Benzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L9
Tetrachloroethene, Ethylbenzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

VBLKKC
Acetone

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

VBLKKD
Acetone, Methylene chloride, 2-Butanone, 1,2, 4-Trichlorobenzene

VBLKKH, VBLKKI, VBLKKJ
Acetone, 1,2, 4-Trichlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E21K0
Phenol, Nitrobenzene, 2,4-Dichlorophenol, 2-Nitroaniline, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Chrysene

E21K0DL
Nitrobenzene, 2,4-Dichlorophenol, Naphthalene, 1,1'-Biphenyl , 2-Nitroaniline, Pentachlorophenol, Phenanthrene, Chrysene

E21K1
Phenol, 2,4-Dichlorophenol, Naphthalene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,1'-Biphenyl , Hexachlorobenzene, Phenanthrene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Chrysene

E21K1DL
Chrysene

E21K2
Pentachlorophenol, Di-n-butylphthalate

E21K3
Phenol, 2-Methylphenol, Acetophenone, 4-Methylphenol, Pentachlorophenol, bis(2-Ethylhexyl)phthalate

E21K3DL
Acetophenone, Pentachlorophenol

E21K4
Phenanthrene, Di-n-octylphthalate

E21K5
4-Chloroaniline, N-Nitrosodiphenylamine, Pentachlorophenol

E21K6
2,4-Dichlorophenol, Naphthalene, 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluorene, Pentachlorophenol, Anthracene, Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-

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SDG Number: E21K0
Laboratory: Clayton

Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

E21K7
Nitrobenzene, 2,4-Dichlorophenol, Hexachlorobutadiene, 2,4,6-Trichlorophenol, 1,1'-Biphenyl

E21K7DL
Nitrobenzene, 1,1'-Biphenyl

E21K8
Naphthalene, 4-Chloroaniline, Di-n-butylphthalate

E21K9
2,4-Dichlorophenol, 4-Chloroaniline

E21L1
2-Chlorophenol, 4-Chloroaniline, Pentachlorophenol

E21L2
Naphthalene, 4-Chloroaniline, Phenanthrene, Fluoranthene, Pyrene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene

E21L2MS
N-Nitroso-di-n-propylamine, Naphthalene, 4-Chloroaniline, 1,1'-Biphenyl, 4-Nitrophenol, Pentachlorophenol, Phenanthrene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene

E21L2MSD
N-Nitroso-di-n-propylamine, Naphthalene, 4-Chloroaniline, 1,1'-Biphenyl, 4-Nitrophenol, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene, Di-n-butylphthalate, Fluoranthene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

E21L3
Naphthalene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

E21L4
4-Chloroaniline, Phenanthrene, Pyrene, Chrysene

E21L5
2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol

E21L6
Phenanthrene

Reviewed By: Steffanie Tobin (IITRI/ESAT)
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Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

E21L7
Benzaldehyde, Phenol, 2-Methylphenol, 2,4-Dichlorophenol, Naphthalene, Fluorene, Phenanthrene, Di-n-butylphthalate, Pyrene, Chrysene

E21L8
Phenol, 2-Chlorophenol, Pentachlorophenol, Di-n-octylphthalate

E21L8DL
2,4,6-Trichlorophenol, Pentachlorophenol, Di-n-octylphthalate

E21L9
Phenol, 2,4-Dichlorophenol, 4-Chloroaniline, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, Acenaphthene, Dibenzofuran, Fluorene, N-Nitrosodiphenylamine, Pentachlorophenol, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E21K1
Heptachlor, Endosulfan sulfate

E21K3
beta-BHC, Heptachlor epoxide, Dieldrin

E21K7
alpha-BHC

E21K7DL
delta-BHC, Endosulfan I, Methoxychlor

E21K8
Heptachlor, Methoxychlor, alpha-Chlordane

E21K8DL
Aroclor-1242

E21L1
Endosulfan II, Endosulfan sulfate, Methoxychlor

E21L1DL
4,4'-DDD, Aroclor-1260

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

E21L2, E21L9
beta-BHC

E21L2DL
Endosulfan II, Endosulfan sulfate, Aroclor-1242

E21L4
Heptachlor

E21L4DL
Methoxychlor, Endrin ketone

E21L6
Methoxychlor

E21L6DL
Heptachlor, 4,4'-DDT, Aroclor-1260

E21L7, E21L8
Endosulfan sulfate, Methoxychlor, Endrin ketone

E21L7DL
4,4'-DDE, Aroclor-1254, Aroclor-1260

E21L9DL
Heptachlor, Aroclor-1242, Aroclor-1260

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

E21K0
Heptachlor, Methoxychlor, Endrin ketone, Endrin aldehyde, Aroclor-1242, Aroclor-1260

E21K1
Heptachlor, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Aroclor-1242, Aroclor-1260

E21K2
Heptachlor, Endosulfan I, Endrin ketone, Aroclor-1242, Aroclor-1260

E21K3
alpha-BHC, beta-BHC, Heptachlor epoxide, Dieldrin, Aroclor-1260

E21K5

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

Case Number : 30721
Site Name: Sauget Site H & I (IL)

SDG Number: E21K0
Laboratory: Clayton

delta-BHC

E21K6
4,4'-DDE, 4,4'-DDD, 4,4'-DDT

E21K7
alpha-BHC, delta-BHC, Heptachlor, Endosulfan I, Endrin ketone, Aroclor-1242

E21K7DL
delta-BHC, Heptachlor, Endosulfan I, Methoxychlor, Aroclor-1242, Aroclor-1254, Aroclor-1260

E21K8
Heptachlor, Methoxychlor, alpha-Chlordane, Aroclor-1242, Aroclor-1254

E21L1
Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Aroclor-1260

E21L1DL
4,4'-DDD, 4,4'-DDT, Aroclor-1260

E21L2
Heptachlor, Endosulfan I, 4,4'-DDE, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Aroclor-1260

E21L2DL
Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Endrin aldehyde, Aroclor-1260

E21L2MS
Heptachlor, Endosulfan I, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Methoxychlor, Endrin ketone, Aroclor-1254, Aroclor-1260

E21L2MSD
Heptachlor, Endosulfan I, Endosulfan II, 4,4'-DDD, 4,4'-DDT, Endosulfan sulfate, Methoxychlor, Aroclor-1254, Aroclor-1260

E21L3
4,4'-DDE, 4,4'-DDD

E21L4
Heptachlor, Endosulfan I, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, Aroclor-1260

E21L4DL
Methoxychlor, Endrin ketone, Aroclor-1260

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

E21L6
Heptachlor, Endosulfan I, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Aroclor-1242, Aroclor-1260

E21L6DL
Heptachlor, Endosulfan I, 4,4'-DDT, Aroclor-1242, Aroclor-1260

E21L7
beta-BHC, Heptachlor, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Aroclor-1254

E21L7DL
Aroclor-1254, Aroclor-1260

E21L8
Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, alpha-Chlordane, Aroclor-1254, Aroclor-1260

E21L9
beta-BHC, Heptachlor, Endosulfan II, Methoxychlor, Aroclor-1254, Aroclor-1260

E21L9DL
Aroclor-1242, Aroclor-1260

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

For the VOA fraction, the results of the following analytes were quantitated outside the calibration range:

E21K6, E21L6: Chlorobenzene
E21K8: 1,2,4-Trichlorobenzene

For the SVOA fraction, the results of the following analytes were quantitated outside the calibration range:

E21K0: 4-Chloroaniline
E21K1: 4-Chloroaniline, Pentachlorophenol
E21K3: Naphthalene
E21K7, E21L5: Pentachlorophenol
E21L8: 2,4-Dichlorophenol

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

Case Number : 30721 **SDG Number: E21K0**
Site Name: Sauget Site H & I (IL) **Laboratory: Clayton**

For the Pest/PCB fraction, the results of the following analytes were quantitated outside the calibration range:

E21K7: Heptachlor, Endrin, Endrin Aldehyde
E21L1, E21L2: 4,4'-DDT
E21L4: Aroclor-1254, Aroclor-1260
E21L7: 4,4'-DDD, 4,4'-DDT
E21L9: 4,4'-DDD

For the analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

For Pest/PCB fraction, samples E21L5 and E21L6 were analyzed with further dilutions due to matrix interference. The results for E21L5DL and E21L6DL should be used for result validations.

The result of 4,4'-DDT for E21L8 was quantitated outside the calibration range. No further dilution was analyzed. The result for 4,4'-DDT of E21L8 is estimated "J".

The results of Chlorobenzene for the VOA matrix spike/matrix spike duplicate (E21L2MS and E21L2MSD); the results of Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Endrin ketone for the Pest/PCB matrix spike (E21L2MS) and 4,4'-DDD, 4,4'-DDT for the Pest/PCB matrix spike duplicate (E21L2MSD) were quantitated outside the calibration range. No further dilutions were analyzed since these samples were used for QC purposes only.

All data for CADRE narrative and spreadsheets of the VOA and Pest/PCB fractions were entered by the data reviewer. This was because % moisture was not reported by the laboratory.

Samples E21L7-E21L9 were received in good condition. Samples E21L1 to E21L6 were 8.8°C upon receipt. Samples E21K0-E21K9 and E21L0 were 8.5°C upon receipt.

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: August 12, 2002

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Volatile Analysis Data - VBLKKC
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.74)	4.74	860.000	J

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99 PAGE: 1

Volatile Analysis Data - E21K0
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000110-83-8	CYCLOHEXENE	9.97	170000.000	NJ
000095-51-2	BENZENAMINE, 2-CHLORO-	20.55	16000.000	NJ
000614-72-2	BENZENE, 1-CHLORO-2-ETHOXY-	20.62	35000.000	NJ
000108-70-3	BENZENE, 1,3,5-TRICHLORO-	21.61	29000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	22.93	25000.000	NJ
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO-	23.45	38000.000	NJ

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99 PAGE: 2

Volatile Analysis Data - E21K1
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.99)	4.99	9300.000	J
000110-83-8	CYCLOHEXENE	9.96	12000.000	NJ

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99 PAGE: 3

Volatile Analysis Data - E21K2
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000110-83-8	CYCLOHEXENE	9.97	62000.000	NJ
000611-14-3	BENZENE, 1-ETHYL-2-METHYL- (16.39)	16.39	45000.000	NJ
000095-63-6	BENZENE, 1,2,4-TRIMETHYL-	16.53	22000.000	NJ
000611-14-3	BENZENE, 1-ETHYL-2-METHYL- (16.86)	16.86	23000.000	NJ
000526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.12	79000.000	NJ
	UNKNOWN (17.37)	17.37	20000.000	J
	UNKNOWN (17.45)	17.45	14000.000	J
001074-43-7	BENZENE, 1-METHYL-3-PROPYL-	18.04	21000.000	NJ
	UNKNOWN (18.13)	18.13	110000.000	J
000934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHYL- (18.62)	18.62	52000.000	NJ
000934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHYL- (18.72)	18.72	51000.000	NJ
	UNKNOWN (18.97)	18.97	46000.000	J
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL-	19.23	32000.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL- (19.37)	19.37	35000.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL- (19.45)	19.45	65000.000	NJ
	UNKNOWN (19.89)	19.89	31000.000	J
000488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL-	20.11	76000.000	NJ
	UNKNOWN (20.62)	20.62	39000.000	J
000095-15-8	BENZO(B)THIOPHENE	21.44	23000.000	NJ

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99 PAGE: 4

Volatile Analysis Data - E21K3
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000620-14-4	BENZENE, 1-ETHYL-3-METHYL-	16.39	190000.000	NJ
000095-63-6	BENZENE, 1,2,4-TRIMETHYL-	16.53	200000.000	NJ
000108-67-8	BENZENE, 1,3,5-TRIMETHYL-	17.12	850000.000	NJ
000526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.78	390000.000	NJ
001074-43-7	BENZENE, 1-METHYL-3-PROPYL-	18.05	850000.000	NJ
000141-93-5	BENZENE, 1,3-DIETHYL-	18.13	1800000.000	NJ
001074-17-5	BENZENE, 1-METHYL-2-PROPYL-	18.45	470000.000	NJ
001758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHYL-	18.57	940000.000	NJ
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL- (18.72)	18.72	1600000.000	NJ
	UNKNOWN (18.9)	18.90	760000.000	J
	UNKNOWN (19.02)	19.02	250000.000	J
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL- (19.23)	19.23	730000.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL- (19.37)	19.37	1600000.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL- (19.44)	19.44	4200000.000	NJ
	UNKNOWN (19.77)	19.77	640000.000	J
000824-22-6	1H-INDENE, 2,3-DIHYDRO-4-METHYL-	19.89	1100000.000	NJ
	UNKNOWN (19.96)	19.96	680000.000	J
000488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL-	20.12	2400000.000	NJ
	UNKNOWN (20.47)	20.47	350000.000	J
025550-13-4	BENZENE, DIETHYLMETHYL-	20.64	2100000.000	NJ
017851-27-3	BENZENE, 1-ETHYL-2,4,5-TRIMETHYL-	20.83	1100000.000	NJ
004218-48-8	BENZENE, 1-ETHYL-4-(1-METHYLETHYL)-	21.09	230000.000	NJ
006682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (21.72)	21.72	400000.000	NJ
	UNKNOWN (21.91)	21.91	160000.000	J
006682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (22.03)	22.03	220000.000	NJ
000700-12-9	BENZENE, PENTAMETHYL-	22.24	490000.000	NJ
001075-22-5	INDAN, 5,6-DIMETHYL-	22.40	160000.000	NJ

Volatile Analysis Data - E21K4
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (5.02)	5.02	680.000	J
000488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL-	19.35	860.000	NJ
	UNKNOWN (19.42)	19.42	650.000	J
	UNKNOWN (20.1)	20.10	1200.000	J

Volatile Analysis Data - E21K5
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (5.03)	5.03	11000.000	J

Volatile Analysis Data - VBLKKD
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.74)	4.74	790.000	J
	UNKNOWN (5.07)	5.07	2100.000	J
000156-43-4	BENZENAMINE, 4-ETHOXY-	23.11	3900.000	NJ

Volatile Analysis Data - E21K6
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000110-83-8	CYCLOHEXENE	9.97	1200000.000	NJ
	UNKNOWN (23.1)	23.10	64000.000	J

Volatile Analysis Data - E21K9
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (23.11)	23.11	42000.000	J

Volatile Analysis Data - E21L6
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000103-65-1	BENZENE, PROPYL-	16.29	65000.000	NJ
000135-98-8	BENZENE, (1-METHYLPROPYL)-	17.37	27000.000	NJ
000104-51-8	BENZENE, BUTYL-	18.19	72000.000	NJ
	UNKNOWN (18.95)	18.95	13000.000	J
000538-68-1	BENZENE, PENTYL-	19.89	35000.000	NJ
000119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-	20.45	280000.000	NJ
067519-35-1	2-METHYL-1,2,3,4-TERAHYDRONAPHTHALENE	21.28	50000.000	NJ
001559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1-METHYL	21.44	17000.000	NJ
	UNKNOWN (21.53)	21.53	17000.000	J
002809-64-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-5-METHYL	22.08	27000.000	NJ
	UNKNOWN (23.13)	23.13	21000.000	J

Volatile Analysis Data - E21K6DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000110-83-8	CYCLOHEXENE	9.98	820000.000	NJ

Volatile Analysis Data - E21K8
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (5.12)	5.12	3800.000	J
000110-83-8	CYCLOHEXENE	9.97	2600.000	NJ
	UNKNOWN (15.63)	15.63	1400.000	J
000611-14-3	BENZENE, 1-ETHYL-2-METHYL- (16.41)	16.41	1900.000	NJ
000095-63-6	BENZENE, 1,2,4-TRIMETHYL-	16.53	880.000	NJ
000611-14-3	BENZENE, 1-ETHYL-2-METHYL- (16.86)	16.86	990.000	NJ
000526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.12	3400.000	NJ
	UNKNOWN (18.13)	18.13	4600.000	J
000874-41-9	BENZENE, 1-ETHYL-2,4-DIMETHYL-	18.64	2600.000	NJ
001758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHYL-	18.74	2600.000	NJ
	UNKNOWN (18.97)	18.97	2200.000	J
000527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	19.23	1900.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL- (19.37)	19.37	2300.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL- (19.45)	19.45	3700.000	NJ
	UNKNOWN (19.78)	19.78	860.000	J
001587-04-8	BENZENE, 1-METHYL-2-(2-PROPENYL)-	19.90	1600.000	NJ
000934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHYL-	20.13	4500.000	NJ
000614-72-2	BENZENE, 1-CHLORO-2-ETHOXY-	20.64	11000.000	NJ
000108-70-3	BENZENE, 1,3,5-TRICHLORO-	21.63	29000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO- (22.53)	22.53	2100.000	NJ
000000-00-0	2,4,5-TRICHLORTOLUENE	22.88	1900.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO- (22.95)	22.95	1600.000	NJ
002077-46-5	BENZENE, 1,2,4-TRICHLORO-3-METHYL-	23.09	1300.000	NJ
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO-	23.47	59000.000	NJ

Volatile Analysis Data - VIBLKKA
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-94-3	BENZENE, 1,2,4,5-TETRACHLORO-	23.45	1200.000	NJ

Volatile Analysis Data - E21L2
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.74)	4.74	2600.000	J
	UNKNOWN (5.04)	5.04	8300.000	J
	UNKNOWN (15.35)	15.35	3200.000	J
000526-73-8	BENZENE, 1,2,3-TRIMETHYL-	17.13	3200.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	23.44	5600.000	NJ

Volatile Analysis Data - E21L1
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (5.04)	5.04	8300.000	J
000100-66-3	BENZENE, METHOXY-	15.86	11000.000	NJ
000090-05-1	PHENOL, 2-METHOXY-	19.61	15000.000	NJ
000766-51-8	BENZENE, 1-CHLORO-2-METHOXY-	19.86	10000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	23.46	7600.000	NJ

Volatile Analysis Data - E21L3
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000110-83-8	CYCLOHEXENE	9.97	790000.000	NJ

Volatile Analysis Data - E21L5
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.76)	4.76	2600.000	J
	UNKNOWN (5.05)	5.05	7900.000	J

Volatile Analysis Data - E21L6DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (16.29)	16.29	93000.000	J
000104-51-8	BENZENE, BUTYL-	18.18	120000.000	NJ
000538-68-1	BENZENE, PENTYL-	19.90	75000.000	NJ
000119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-	20.44	390000.000	NJ
067519-35-1	2-METHYL-1,2,3,4-TERAHYDRONAPHTHALENE	21.30	100000.000	NJ
001077-16-3	BENZENE, HEXYL-	21.52	75000.000	NJ
001680-51-9	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-6-METHYL	22.08	81000.000	NJ

Volatile Analysis Data - E21L7
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (12.55)	12.55	34000.000	J
	UNKNOWN (12.81)	12.81	69000.000	J
	UNKNOWN (13.1)	13.10	160000.000	J
	UNKNOWN (13.28)	13.28	83000.000	J
000000-00-0	DIMETHYL-3,5 HEPTENE-3	13.52	610000.000	NJ
	UNKNOWN (13.75)	13.75	440000.000	J
	UNKNOWN (13.87)	13.87	60000.000	J
	UNKNOWN (13.92)	13.92	65000.000	J
	UNKNOWN (14.15)	14.15	69000.000	J
	UNKNOWN (14.25)	14.25	290000.000	J
	UNKNOWN (14.76)	14.76	68000.000	J
	UNKNOWN (15.11)	15.11	49000.000	J
	UNKNOWN (15.44)	15.44	230000.000	J
	UNKNOWN (15.61)	15.61	130000.000	J
	UNKNOWN (16.08)	16.08	69000.000	J
	UNKNOWN (16.29)	16.29	35000.000	J
000464-17-5	BORNYLENE	17.47	57000.000	NJ
000104-51-8	BENZENE, BUTYL-	18.18	69000.000	NJ
006669-13-2	BENZENE, (1,1-DIMETHYLETHOXY)-	19.37	71000.000	NJ
000538-68-1	BENZENE, PENTYL-	19.91	34000.000	NJ
000119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-	20.44	200000.000	NJ
003877-19-8	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-2-METHYL	21.30	91000.000	NJ
074646-38-1	TETRACYCLO(5.2.1.0(2,6).0(3,5))DECANE, 4	21.54	48000.000	NJ
000087-61-6	BENZENE, 1,2,3-TRICHLORO-	21.63	61000.000	NJ
	UNKNOWN (22.06)	22.06	85000.000	J
	UNKNOWN (23.24)	23.24	38000.000	J
000095-94-3	BENZENE, 1,2,4,5-TETRACHLORO-	23.47	140000.000	NJ

Volatile Analysis Data - E21L8
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000644-08-6	1,14-BIPHENYL, 4-METHYL-	16.90	3500.000	NJ

Volatile Analysis Data - E21L9
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000080-56-8	,ALPHA.-PINENE, (-)-	15.63	84000.000	NJ
000079-92-5	CAMPHENE	16.08	340000.000	NJ
	UNKNOWN (16.48)	16.48	27000.000	J
020536-41-8	EXOISOCAMPHANE	16.65	100000.000	NJ
000527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	17.56	130000.000	NJ
000120-82-1	BENZENE, 1,2,4-TRICHLORO-	21.63	35000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	23.47	65000.000	NJ

Volatile Analysis Data - E21K7
Tentatively Identified Compounds

CASE NO: 30721
SDG NO: E21K0
LABORATORY: CLAYTON GROUP SERVICES

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	22.53	71000.000	NJ

Volatile Analysis Data - E21K8DL
Tentatively Identified Compounds

CASE NO: 30721
SDG NO: E21K0
LABORATORY: CLAYTON GROUP SERVICES

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.74)	4.74	2600.000	J
	UNKNOWN (5.04)	5.04	3700.000	J
000614-72-2	BENZENE, 1-CHLORO-2-ETHOXY-	20.64	5400.000	NJ
000087-61-6	BENZENE, 1,2,3-TRICHLORO-	21.63	14000.000	NJ
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO-	23.47	28000.000	NJ

Volatile Analysis Data - E21K7RE
Tentatively Identified Compounds

CASE NO: 30721
SDG NO: E21K0
LABORATORY: CLAYTON GROUP SERVICES

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000110-83-8	CYCLOHEXENE	9.97	31000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	22.53	78000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	22.95	22000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	23.47	22000.000	NJ

Volatile Analysis Data - VBLKKJ
Tentatively Identified Compounds

CASE NO: 30721
SDG NO: E21K0
LABORATORY: CLAYTON GROUP SERVICES

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (7.12)	7.12	750.000	J

Volatile Analysis Data - VHBLKKA
Tentatively Identified Compounds

CASE NO: 30721
SDG NO: E21K0
LABORATORY: CLAYTON GROUP SERVICES

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (4.74)	4.74	640.000	J

Semivolatile Analysis Data - E21K4
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (19.74)	19.74	1200.000	J
	UNKNOWN (23.65)	23.65	1300.000	J

Semivolatile Analysis Data - E21L8
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (9.73)	9.73	14000.000	J
000087-65-0	PHENOL, 2,6-DICHLORO-	10.20	7800.000	NJ
000148-24-3	8-QUINOLINOL	12.82	3500.000	NJ
	UNKNOWN (13.46)	13.46	4500.000	J
000122-88-3	ACETIC ACID, (4-CHLOROPHENOXY)- (14.31)	14.31	290000.000	NJ
000122-88-3	ACETIC ACID, (4-CHLOROPHENOXY)- (14.46)	14.46	12000.000	NJ
001928-38-7	ACETIC ACID, (2,4-DICHLOROPHENOXY)-, MET	15.01	560000.000	NJ
000094-75-7	ACETIC ACID, (2,4-DICHLOROPHENOXY)- (15.93)	15.93	940000.000	NJ
	UNKNOWN (15.98)	15.98	53000.000	J
000094-75-7	ACETIC ACID, (2,4-DICHLOROPHENOXY)- (16.16)	16.16	280000.000	NJ
	UNKNOWN (16.97)	16.97	2800.000	J
	UNKNOWN (17.3)	17.30	3700.000	J
	UNKNOWN (17.51)	17.51	3700.000	J
	UNKNOWN (17.6)	17.60	4100.000	J
000582-54-7	2,5-DICHLOROPHENOXYACETIC ACID	18.06	3200.000	NJ
	UNKNOWN (18.44)	18.44	3900.000	J
	UNKNOWN (18.6)	18.60	3800.000	J
	UNKNOWN (19.37)	19.37	2800.000	J
	UNKNOWN (19.66)	19.66	9600.000	J
	UNKNOWN (19.76)	19.76	13000.000	J
000000-00-0	1,2,4,5-TETRACHLORO-3,6-BIS-(DICHLOROMET	20.25	16000.000	NJ
	UNKNOWN (20.37)	20.37	3300.000	J
	UNKNOWN (21.15)	21.15	9200.000	J
	UNKNOWN (23.07)	23.07	7200.000	J
	UNKNOWN (23.22)	23.22	4800.000	J
	UNKNOWN (23.34)	23.34	7400.000	J
	UNKNOWN (23.51)	23.51	7700.000	J
	UNKNOWN (23.65)	23.65	8100.000	J
	UNKNOWN (23.81)	23.81	4900.000	J
	UNKNOWN (23.93)	23.93	3400.000	J

Semivolatile Analysis Data - E21K9
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000094-70-2	BENZENAMINE, 2-ETHOXY-	10.61	2700.000	NJ
	UNKNOWN (14.07)	14.07	2300.000	J
	UNKNOWN (14.47)	14.47	3100.000	J
	UNKNOWN (15.08)	15.08	3300.000	J
	UNKNOWN (15.35)	15.35	3400.000	J
004542-57-8	DODECANE, 1,14-OXYBIS-	15.62	5400.000	NJ
	UNKNOWN (16.16)	16.16	8200.000	J
	UNKNOWN (16.3)	16.30	14000.000	J
	UNKNOWN (16.77)	16.77	5100.000	J
	UNKNOWN (30.33)	30.33	4200.000	J

Semivolatile Analysis Data - E21K7
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO-	9.04	790000.000	NJ
001863-63-4	BENZOIC ACID	9.29	290000.000	NJ
	UNKNOWN (10.12)	10.12	57000.000	J
000121-73-3	BENZENE, 1-CHLORO-3-NITRO-	10.63	190000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.80	1300000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.92	640000.000	NJ
000085-44-9	1,3-ISOBENZOFURANDIONE	11.83	100000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO-	11.98	840000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO-	12.28	530000.000	NJ
000091-64-5	2H-1-BENZOPYRAN-2-ONE (12.93)	12.93	100000.000	NJ
000130-15-4	1,4-NAPHTHALENEDIONE	13.01	330000.000	NJ
000626-43-7	BENZENAMINE, 3,5-DICHLORO- (PURITY?)	13.15	70000.000	NJ
000091-64-5	2H-1-BENZOPYRAN-2-ONE (13.33)	13.33	470000.000	NJ
000085-41-6	1H-ISOINDOLE-1,3(2H)-DIONE	13.40	48000.000	NJ
000100-29-8	BENZENE, 1-ETHOXY-4-NITRO-	13.50	160000.000	NJ
000058-27-5	1,4-NAPHTHALENEDIONE, 2-METHYL-	14.09	48000.000	NJ
000083-72-7	1,4-NAPHTHALENEDIONE, 2-HYDROXY-	14.38	55000.000	NJ
000935-95-5	PHENOL, 2,3,5,6-TETRACHLORO-	14.43	53000.000	NJ
000140-66-9	PHENOL, 4-(1,1,3,3-TETRAMETHYLBUTYL)-	14.68	59000.000	NJ
000088-19-7	2-TOLUENESULFONAMIDE	15.02	91000.000	NJ
000070-55-3	4-TOLUENESULFONAMIDE	15.34	63000.000	NJ
000086-00-0	1,14-BIPHENYL, 2-NITRO-	15.66	270000.000	NJ
	UNKNOWN (16.39)	16.39	47000.000	J
000092-93-3	1,14-BIPHENYL, 4-NITRO-	16.96	230000.000	NJ
062796-65-0	1,14-BIPHENYL, 2,24,4,6-TETRACHLORO-	17.54	48000.000	NJ
000084-65-1	9,10-ANTHRACENEDIONE	17.94	130000.000	NJ
025429-29-2	1,14-BIPHENYL, PENTACHLORO- (18.47)	18.47	100000.000	NJ
025429-29-2	1,14-BIPHENYL, PENTACHLORO- (18.74)	18.74	62000.000	NJ
037680-73-2	1,14-BIPHENYL, 2,24,4,5,54-PENTACHLORO-	19.60	120000.000	NJ
002498-66-0	BENZ(A)ANTHRACENE-7,12-DIONE	23.26	58000.000	NJ

Semivolatile Analysis Data - E21K0
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO-	9.07	2700000.000	NJ
000140-29-4	BENZENEACETONITRILE	9.12	180000.000	NJ
000106-47-8	BENZENAMINE, 4-CHLORO-(TCL)	10.13	66000.000	NJ
000087-61-6	BENZENE, 1,2,3-TRICHLORO-	10.49	230000.000	NJ
000121-73-3	BENZENE, 1-CHLORO-3-NITRO-	10.64	180000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.81	1100000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.98	4000000.000	NJ
	UNKNOWN (11.11)	11.11	54000.000	J
000095-76-1	BENZENAMINE, 3,4-DICHLORO- (12.01)	12.01	2300000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO-	12.29	1200000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	12.68	2100000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO- (13.16)	13.16	510000.000	NJ
	UNKNOWN (13.51)	13.51	180000.000	J
000000-00-0	OCTYL PHENOL ISOMER	14.69	220000.000	NJ
000090-41-5	(1,14-BIPHENYL)-2-AMINE	14.73	350000.000	NJ
000086-00-0	1,14-BIPHENYL, 2-NITRO-	15.67	520000.000	NJ
002243-47-2	(1,14-BIPHENYL)-3-AMINE	16.11	160000.000	NJ
	UNKNOWN (16.4)	16.40	33000.000	J
	UNKNOWN (16.85)	16.85	110000.000	J
000092-93-3	1,14-BIPHENYL, 4-NITRO-	16.97	830000.000	NJ
	UNKNOWN (17.02)	17.02	44000.000	J
	UNKNOWN (17.28)	17.28	140000.000	J
	UNKNOWN (18.44)	18.44	160000.000	J

Semivolatile Analysis Data - E21K5
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000062-53-3	BENZENAMINE	6.79	100000.000	NJ
	UNKNOWN (11.03)	11.03	130000.000	J
000622-62-8	PHENOL, 4-ETHOXY-	11.17	130000.000	NJ
000156-43-4	BENZENAMINE, 4-ETHOXY-	11.42	37000000.000	NJ
000000-00-0	N-ETHYL-P-PHENETIDINE	12.97	1400000.000	NJ
	UNKNOWN (14.61)	14.61	140000.000	J
	UNKNOWN (15.02)	15.02	190000.000	J
	UNKNOWN (15.15)	15.15	200000.000	J
000062-44-2	PHENACETIN	15.52	420000.000	NJ
	UNKNOWN (15.56)	15.56	130000.000	J
000534-85-0	1,2-BENZENEDIAMINE, N-PHENYL-	16.72	180000.000	NJ
	UNKNOWN (17.42)	17.42	180000.000	J
000101-54-2	1,4-BENZENEDIAMINE, N-PHENYL-	17.60	1100000.000	NJ
	UNKNOWN (18.45)	18.45	210000.000	J
	UNKNOWN (18.55)	18.55	250000.000	J
000101-80-4	BENZENAMINE, 4,44-OXYBIS-	18.68	500000.000	NJ
075830-33-0	4-FORMYL-5-HYDROXY-(.DELTA.9,9A)-1,2-DIH	19.00	160000.000	NJ
	UNKNOWN (19.22)	19.22	150000.000	J
	UNKNOWN (19.31)	19.31	210000.000	J
	UNKNOWN (19.48)	19.48	7200000.000	J
	UNKNOWN (19.71)	19.71	12000000.000	J
	UNKNOWN (20.17)	20.17	240000.000	J
	UNKNOWN (20.47)	20.47	500000.000	J
	UNKNOWN (20.57)	20.57	93000.000	J
	UNKNOWN (21.55)	21.55	3800000.000	J
	UNKNOWN (21.77)	21.77	96000.000	J
	UNKNOWN (26.47)	26.47	150000.000	J
	UNKNOWN (27.25)	27.25	460000.000	J
	UNKNOWN (30.59)	30.59	400000.000	J
	UNKNOWN (32.67)	32.67	2400000.000	J

Semivolatile Analysis Data - E21L1
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000090-05-1	PHENOL, 2-METHOXY-	8.28	890000.000	NJ
000095-51-2	BENZENAMINE, 2-CHLORO-	9.04	670000.000	NJ
	UNKNOWN (9.13)	9.13	230000.000	J
	UNKNOWN (16.15)	16.15	3500000.000	J
001655-70-5	BENZENE, 1,14-OXYBIS(2-METHOXY-	16.30	2700000.000	NJ
	UNKNOWN (16.44)	16.44	2400000.000	J
	UNKNOWN (16.78)	16.78	260000.000	J
000000-00-0	P-HYDROXYPHENYL PHENYLSULFONE	17.25	240000.000	NJ
	UNKNOWN (17.44)	17.44	4900000.000	J
	UNKNOWN (17.65)	17.65	6400000.000	J
	UNKNOWN (17.69)	17.69	290000.000	J
080569-37-5	2-(4-METHOXYPHENYL)-N,N,2-TRIMETHYL-1-PY	17.91	3000000.000	NJ
	UNKNOWN (18.38)	18.38	410000.000	J
004433-09-4	(1,14-BIPHENYL)-4,44-DIOL, 3,34-DIMETHOX	19.31	180000.000	NJ
068454-44-4	METHYL 8-METHOXYBENZO(1,2-B:5,4-B4)DIFUR	19.55	210000.000	NJ
	UNKNOWN (19.65)	19.65	240000.000	J
	UNKNOWN (19.75)	19.75	420000.000	J
	UNKNOWN (20.64)	20.64	300000.000	J
089148-83-4	6,12-DIHYDRO-3,10-DIMETHOXY-11H-BENZO(B) (21.47)	21.47	530000.000	NJ
	UNKNOWN (21.59)	21.59	190000.000	J
	UNKNOWN (22.13)	22.13	330000.000	J
	UNKNOWN (22.2)	22.20	170000.000	J
089148-83-4	6,12-DIHYDRO-3,10-DIMETHOXY-11H-BENZO(B) (22.3)	22.30	190000.000	NJ
083375-26-2	11-HYDROXY-3,10-DIMETHOXY-1-METHYL-12H-B	22.71	190000.000	NJ
	UNKNOWN (22.76)	22.76	330000.000	J
028344-36-7	ANDROSTAN-17-ONE, 5,6-EPOXY-3-FLUORO-, (	23.31	380000.000	NJ
	UNKNOWN (23.53)	23.53	170000.000	J
	UNKNOWN (24.43)	24.43	180000.000	J
	UNKNOWN (24.48)	24.48	210000.000	J
	UNKNOWN (25.04)	25.04	260000.000	J

Semivolatile Analysis Data - E21K3
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000611-14-3	BENZENE, 1-ETHYL-2-METHYL-	7.40	690000.000	NJ
001074-43-7	BENZENE, 1-METHYL-3-PROPYL-	7.71	1800000.000	NJ
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL- (7.79)	7.79	2800000.000	NJ
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL- (8.09)	8.09	2100000.000	NJ
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL- (8.13)	8.13	1400000.000	NJ
000099-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	8.23	3300000.000	NJ
	UNKNOWN HYDROCARBON (8.42)	8.42	370000.000	J
	UNKNOWN HYDROCARBON (8.45)	8.45	460000.000	J
002870-04-4	BENZENE, 2-ETHYL-1,3-DIMETHYL- (8.6)	8.60	1400000.000	NJ
000488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL-	8.74	4700000.000	NJ
000095-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	8.82	4800000.000	NJ
	UNKNOWN HYDROCARBON (8.97)	8.97	950000.000	J
	UNKNOWN (9.09)	9.09	2200000.000	J
	UNKNOWN HYDROCARBON (9.21)	9.21	3500000.000	J
	UNKNOWN HYDROCARBON (9.34)	9.34	920000.000	J
	UNKNOWN HYDROCARBON (9.41)	9.41	6400000.000	J
002049-95-8	BENZENE, (1,1-DIMETHYLPROPYL)-	9.48	1100000.000	NJ
004132-72-3	BENZENE, 1,4-DIMETHYL-2-(1-METHYLETHYL)-	9.53	1000000.000	NJ
	UNKNOWN HYDROCARBON (9.63)	9.63	2900000.000	J
	UNKNOWN HYDROCARBON (9.85)	9.85	680000.000	J
	UNKNOWN (9.94)	9.94	2400000.000	J
000700-12-9	BENZENE, PENTAMETHYL- (10.19)	10.19	1700000.000	NJ
000000-00-0	BENZENE, 1,3,5-TRIMETHYL-2-PROPYL-	10.32	280000.000	NJ
	UNKNOWN HYDROCARBON (10.63)	10.63	510000.000	J
006682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (10.86)	10.86	330000.000	NJ
006682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (11.08)	11.08	370000.000	NJ
000098-51-1	BENZENE, 1-(1,1-DIMETHYLETHYL)-4-METHYL-	11.17	390000.000	NJ
000700-12-9	BENZENE, PENTAMETHYL- (11.27)	11.27	870000.000	NJ
	UNKNOWN (11.54)	11.54	340000.000	J
000085-44-9	1,3-ISOBENZOFURANDIONE	11.83	870000.000	NJ

Semivolatile Analysis Data - E21L8DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000122-88-3	ACETIC ACID, (4-CHLOROPHENOXY)-	14.24	160000.000	NJ
001928-38-7	ACETIC ACID, (2,4-DICHLOROPHENOXY)-, MET	14.98	880000.000	NJ
	UNKNOWN (15.51)	15.51	20000.000	J
000094-75-7	ACETIC ACID, (2,4-DICHLOROPHENOXY)-	15.95	4400000.000	NJ
	UNKNOWN (19.64)	19.64	12000.000	J
	UNKNOWN (19.75)	19.75	17000.000	J
	UNKNOWN (20.22)	20.22	13000.000	J
	UNKNOWN (21.13)	21.13	11000.000	J
	UNKNOWN (23.06)	23.06	11000.000	J
	UNKNOWN (23.34)	23.34	11000.000	J
	UNKNOWN (23.48)	23.48	12000.000	J
	UNKNOWN (23.65)	23.65	14000.000	J

Semivolatile Analysis Data - E21K0DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO-	9.05	3100000.000	NJ
000140-29-4	BENZENEACETONITRILE	9.10	220000.000	NJ
000108-70-3	BENZENE, 1,3,5-TRICHLORO-	9.88	540000.000	NJ
000087-61-6	BENZENE, 1,2,3-TRICHLORO-	10.47	260000.000	NJ
000121-73-3	BENZENE, 1-CHLORO-3-NITRO-	10.62	200000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.78	1300000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.94	5000000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO- (11.99)	11.99	2600000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	12.04	430000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO-	12.28	1300000.000	NJ
000095-94-3	BENZENE, 1,2,4,5-TETRACHLORO-	12.67	2000000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO- (13.14)	13.14	470000.000	NJ
000100-29-8	BENZENE, 1-ETHOXY-4-NITRO-	13.50	180000.000	NJ
	UNKNOWN (14.68)	14.68	190000.000	J
	UNKNOWN (14.73)	14.73	380000.000	J
000086-00-0	1,14-BIPHENYL, 2-NITRO-	15.66	680000.000	NJ
002243-47-2	(1,14-BIPHENYL)-3-AMINE	16.11	160000.000	NJ
000092-93-3	1,14-BIPHENYL, 4-NITRO-	16.97	1100000.000	NJ
	UNKNOWN (17.26)	17.26	180000.000	J
	UNKNOWN (27.36)	27.36	100000.000	J

Semivolatile Analysis Data - E21K8
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO-	9.02	23000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.78	7500.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.88	14000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO- (11.98)	11.98	48000.000	NJ
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO- (12.03)	12.03	5500.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO- (12.26)	12.26	28000.000	NJ
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO- (12.63)	12.63	30000.000	NJ
000130-15-4	1,4-NAPHTHALENEDIONE	13.01	7100.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO-	13.14	10000.000	NJ
000091-64-5	2H-1-BENZOPYRAN-2-ONE	13.31	8800.000	NJ
000100-29-8	BENZENE, 1-ETHOXY-4-NITRO-	13.50	5400.000	NJ
000140-66-9	PHENOL, 4-(1,1,3,3-TETRAMETHYLBUTYL)-	14.68	36000.000	NJ
	UNKNOWN (14.76)	14.76	17000.000	J
000103-50-4	BENZENE, 1,14-(OXYBIS(METHYLENE))BIS-	15.17	12000.000	NJ
000086-00-0	1,14-BIPHENYL, 2-NITRO-	15.66	15000.000	NJ
	UNKNOWN (16.11)	16.11	5400.000	J
	UNKNOWN (16.38)	16.38	43000.000	J
000092-93-3	1,14-BIPHENYL, 4-NITRO-	16.96	41000.000	NJ
062796-65-0	1,14-BIPHENYL, 2,24,4,6-TETRACHLORO-	17.53	6400.000	NJ
	UNKNOWN (17.87)	17.87	10000.000	J
	UNKNOWN (17.94)	17.94	17000.000	J
	UNKNOWN (18.11)	18.11	8100.000	J
026914-33-0	1,14-BIPHENYL, TETRACHLORO-	18.46	5600.000	NJ
038380-03-9	1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	19.27	6600.000	NJ
032598-14-4	1,14-BIPHENYL, 2,3,34,4,44-PENTACHLORO-	19.59	11000.000	NJ
000620-40-6	BENZENEMETHANAMINE, N,N-BIS(PHENYLMETHYL	19.73	19000.000	NJ
	UNKNOWN (19.83)	19.83	17000.000	J
074472-35-8	1,14-BIPHENYL, 2,3,34,4,6-PENTACHLORO-	19.98	8600.000	NJ
052663-72-6	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO	20.29	5300.000	NJ
	UNKNOWN (26.3)	26.30	13000.000	J

Semivolatile Analysis Data - E21K7DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO- (9.02)	9.02	830000.000	NJ
001863-63-4	BENZOIC ACID	9.21	160000.000	NJ
000095-51-2	BENZENAMINE, 2-CHLORO- (10.12)	10.12	49000.000	NJ
000121-73-3	BENZENE, 1-CHLORO-3-NITRO-	10.62	220000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.78	1500000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.89	700000.000	NJ
000085-44-9	1,3-ISOBENZOFURANDIONE	11.81	120000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO- (11.98)	11.98	760000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO- (12.26)	12.26	460000.000	NJ
	UNKNOWN (12.6)	12.60	57000.000	J
000091-64-5	2H-1-BENZOPYRAN-2-ONE (12.92)	12.92	90000.000	NJ
000130-15-4	1,4-NAPHTHALENEDIONE	13.01	320000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO-	13.14	67000.000	NJ
000091-64-5	2H-1-BENZOPYRAN-2-ONE (13.33)	13.33	420000.000	NJ
000100-29-8	BENZENE, 1-ETHOXY-4-NITRO-	13.50	140000.000	NJ
000058-27-5	1,4-NAPHTHALENEDIONE, 2-METHYL-	14.09	43000.000	NJ
000088-19-7	2-TOLUENESULFONAMIDE	15.00	73000.000	NJ
000070-55-3	4-TOLUENESULFONAMIDE	15.34	56000.000	NJ
000086-00-0	1,14-BIPHENYL, 2-NITRO-	15.66	270000.000	NJ
	UNKNOWN (16.38)	16.38	40000.000	J
000092-93-3	1,14-BIPHENYL, 4-NITRO-	16.94	180000.000	NJ
052663-59-9	1,14-BIPHENYL, 2,24,3,4-TETRACHLORO-	17.53	44000.000	NJ
000084-65-1	9,10-ANTHRACENEDIONE	17.94	100000.000	NJ
039485-83-1	1,14-BIPHENYL, 2,24,4,44,6-PENTACHLORO- (18.46)	18.46	87000.000	NJ
039485-83-1	1,14-BIPHENYL, 2,24,4,44,6-PENTACHLORO- (18.73)	18.73	55000.000	NJ
038380-03-9	1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	19.27	52000.000	NJ
074472-37-0	2,3,4,44,5-PENTACHLOROBIPHENYL	19.59	140000.000	NJ
002498-66-0	BENZ(A)ANTHRACENE-7,12-DIONE	23.26	64000.000	NJ

Semivolatile Analysis Data - E21K2
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO-	9.02	370000.000	NJ
000140-29-4	BENZENEACETONITRILE	9.11	15000.000	NJ
000065-85-0	BENZOIC ACID	9.17	11000.000	NJ
000614-72-2	BENZENE, 1-CHLORO-2-ETHOXY-	9.61	10000.000	NJ
000106-47-8	BENZENAMINE, 4-CHLORO-	10.12	13000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.76	20000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.88	26000.000	NJ
000085-44-9	1,3-ISOBENZOFURANDIONE	11.81	29000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO-	11.96	92000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO-	12.27	57000.000	NJ
000091-64-5	2H-1-BENZOPYRAN-2-ONE (12.92)	12.92	32000.000	NJ
000130-15-4	1,4-NAPHTHALENEDIONE	13.01	48000.000	NJ
000091-64-5	2H-1-BENZOPYRAN-2-ONE (13.33)	13.33	180000.000	NJ
000058-27-5	1,4-NAPHTHALENEDIONE, 2-METHYL-	14.09	13000.000	NJ
000088-19-7	2-TOLUENESULFONAMIDE	15.00	30000.000	NJ
000070-55-3	4-TOLUENESULFONAMIDE	15.34	22000.000	NJ
	UNKNOWN (16.39)	16.39	62000.000	J
000092-93-3	1,14-BIPHENYL, 4-NITRO-	16.94	12000.000	NJ
041464-42-0	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO-	17.54	12000.000	NJ
000084-65-1	9,10-ANTHRACENEDIONE	17.94	38000.000	NJ
031508-00-6	1,14-BIPHENYL, 2,34,4,44,5-PENTACHLORO- (18.46)	18.46	27000.000	NJ
038380-01-7	1,14-BIPHENYL, 2,24,4,44,5-PENTACHLORO-	18.73	16000.000	NJ
	UNKNOWN (18.85)	18.85	12000.000	J
038380-03-9	1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	19.26	14000.000	NJ
	UNKNOWN (19.6)	19.60	51000.000	J
000620-40-6	BENZENEMETHANAMINE, N,N-BIS(PHENYLMETHYL	19.73	26000.000	NJ
026601-64-9	1,14-BIPHENYL, HEXACHLORO-	19.85	12000.000	NJ
031508-00-6	1,14-BIPHENYL, 2,34,4,44,5-PENTACHLORO- (19.98)	19.98	12000.000	NJ
032774-16-6	3,4,5,34,44,54-HEXACHLOROBIPHENYL	20.29	18000.000	NJ
002498-66-0	BENZ(A)ANTHRACENE-7,12-DIONE	23.26	17000.000	NJ

Semivolatile Analysis Data - E21L2
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
004537-14-8	BENZENE, (1-PENTYLHEXYL)-	14.75	38000.000	NJ
	UNKNOWN HYDROCARBON (14.78)	14.78	38000.000	J
004536-86-1	BENZENE, (1-PROPYLOCTYL)-	14.88	30000.000	NJ
	UNKNOWN HYDROCARBON (15.09)	15.09	42000.000	J
	UNKNOWN HYDROCARBON (15.39)	15.39	56000.000	J
	UNKNOWN HYDROCARBON (15.71)	15.71	27000.000	J
002400-00-2	BENZENE, (1-ETHYLDECYL)-	15.90	32000.000	NJ
	UNKNOWN (16.12)	16.12	27000.000	J
	UNKNOWN HYDROCARBON (16.2)	16.20	54000.000	J
004534-49-0	BENZENE, (1-PENTYLOCTYL)-	16.30	53000.000	NJ
	UNKNOWN HYDROCARBON (16.94)	16.94	46000.000	J
	UNKNOWN (17.4)	17.40	52000.000	J
041411-62-5	1,14-BIPHENYL, 2,3,34,4,5,6-HEXACHLORO-	19.56	27000.000	NJ
000072-54-8	P,P4-DDD	19.66	26000.000	NJ
052663-72-6	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (19.85)	19.85	67000.000	NJ
052663-72-6	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (20.29)	20.29	110000.000	NJ
052663-65-7	1,14-BIPHENYL, 2,24,3,34,4,6,64-HEPTACHL	20.51	74000.000	NJ
039635-31-9	1,14-BIPHENYL, 2,3,34,4,44,5,54-HEPTACHL (20.59)	20.59	43000.000	NJ
074472-51-8	1,14-BIPHENYL, 2,3,34,4,5,54,6-HEPTACHLO (20.91)	20.91	110000.000	NJ
052663-69-1	1,14-BIPHENYL, 2,24,3,4,44,54,6-HEPTACHL	21.01	83000.000	NJ
052663-72-6	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (21.1)	21.10	71000.000	NJ
074472-49-4	1,14-BIPHENYL, 2,24,3,4,5,6,64-HEPTACHLO	21.22	54000.000	NJ
039635-31-9	1,14-BIPHENYL, 2,3,34,4,44,5,54-HEPTACHL (21.98)	21.98	530000.000	NJ
042740-50-1	1,14-BIPHENYL, 2,24,3,34,4,44,5,64-OCTAC	22.10	180000.000	NJ
052663-78-2	1,14-BIPHENYL, 2,24,3,34,4,44,5,6-OCTACH (22.21)	22.21	250000.000	NJ
074472-51-8	1,14-BIPHENYL, 2,3,34,4,5,54,6-HEPTACHLO (22.5)	22.50	43000.000	NJ
052663-78-2	1,14-BIPHENYL, 2,24,3,34,4,44,5,6-OCTACH (22.94)	22.94	160000.000	NJ
052663-78-2	1,14-BIPHENYL, 2,24,3,34,4,44,5,6-OCTACH (23.35)	23.35	570000.000	NJ
074472-52-9	1,14-BIPHENYL, 2,24,3,4,44,5,6,64-OCTACH	23.48	39000.000	NJ
	UNKNOWN (24.97)	24.97	44000.000	J

Semivolatile Analysis Data - E21K3DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-63-6	BENZENE, 1,2,4-TRIMETHYL-	7.38	600000.000	NJ
001074-43-7	BENZENE, 1-METHYL-3-PROPYL-	7.67	1600000.000	NJ
000934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHYL-	7.75	2500000.000	NJ
001758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHYL-	8.06	1800000.000	NJ
000095-93-2	BENZENE, 1,2,4,5-TETRAMETHYL-	8.09	1300000.000	NJ
000099-87-6	BENZENE, 1-METHYL-4-(1-METHYLETHYL)-	8.17	2900000.000	NJ
	UNKNOWN HYDROCARBON (8.38)	8.38	330000.000	J
	UNKNOWN HYDROCARBON (8.41)	8.41	410000.000	J
000527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	8.55	1200000.000	NJ
000527-53-7	BENZENE, 1,2,3,5-TETRAMETHYL-	8.70	4100000.000	NJ
000488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL-	8.76	5000000.000	NJ
	UNKNOWN HYDROCARBON (8.93)	8.93	820000.000	J
	UNKNOWN HYDROCARBON (9.03)	9.03	1800000.000	J
000874-35-1	1H-INDENE, 2,3-DIHYDRO-5-METHYL-	9.17	3100000.000	NJ
	UNKNOWN (9.29)	9.29	670000.000	J
000934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHYL-	9.36	6200000.000	NJ
	UNKNOWN HYDROCARBON (9.44)	9.44	810000.000	J
	UNKNOWN HYDROCARBON (9.49)	9.49	1000000.000	J
	UNKNOWN HYDROCARBON (9.59)	9.59	2400000.000	J
	UNKNOWN HYDROCARBON (9.81)	9.81	490000.000	J
	UNKNOWN (9.9)	9.90	2000000.000	J
000700-12-9	BENZENE, PENTAMETHYL-	10.15	1500000.000	NJ
025550-13-4	BENZENE, DIETHYLMETHYL-	10.32	480000.000	NJ
004706-90-5	BENZENE, 1,3-DIMETHYL-5-(1-METHYLETHYL)- (10.59)	10.59	480000.000	NJ
006682-71-9	1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	10.83	300000.000	NJ
	UNKNOWN HYDROCARBON (11.04)	11.04	340000.000	J
	UNKNOWN (11.13)	11.13	350000.000	J
004706-90-5	BENZENE, 1,3-DIMETHYL-5-(1-METHYLETHYL)- (11.23)	11.23	860000.000	NJ
	UNKNOWN (11.48)	11.48	320000.000	J
000085-44-9	1,3-ISOBENZOFURANDIONE	11.79	980000.000	NJ

Semivolatile Analysis Data - E21L9
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000079-92-5	CAMPHENE	6.45	99000.000	NJ
000527-84-4	BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	7.31	65000.000	NJ
000087-61-6	BENZENE, 1,2,3-TRICHLORO-	10.44	80000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO- (12.01)	12.01	510000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO- (12.63)	12.63	940000.000	NJ
000101-81-5	BENZENE, 1,14-METHYLENEBIS-	12.72	270000.000	NJ
000000-00-0	M-CHLORO-N,N-DIETHYLANILINE	13.09	63000.000	NJ
	UNKNOWN (13.23)	13.23	520000.000	J
	UNKNOWN (13.38)	13.38	34000.000	J
000644-08-6	1,14-BIPHENYL, 4-METHYL-	13.63	190000.000	NJ
	UNKNOWN (14.41)	14.41	250000.000	J
	UNKNOWN (14.85)	14.85	270000.000	J
	UNKNOWN (15.05)	15.05	29000.000	J
	UNKNOWN (15.12)	15.12	34000.000	J
	UNKNOWN (15.2)	15.20	460000.000	J
000120-51-4	BENZYL BENZOATE	16.10	530000.000	NJ
	UNKNOWN (16.32)	16.32	32000.000	J
000120-32-1	PHENOL, 4-CHLORO-2-(PHENYLMETHYL)-	17.11	87000.000	NJ
	UNKNOWN (17.43)	17.43	370000.000	J
000090-47-1	9H-XANTHEN-9-ONE	17.77	31000.000	NJ
	UNKNOWN (19.51)	19.51	46000.000	J
000072-54-8	P,P4-DDD	19.61	30000.000	NJ
000115-86-6	PHOSPHORIC ACID, TRIPHENYL ESTER	20.30	260000.000	NJ
	UNKNOWN (21.77)	21.77	260000.000	J
	UNKNOWN (21.84)	21.84	47000.000	J
	UNKNOWN HYDROCARBON	22.06	85000.000	J
	UNKNOWN (22.28)	22.28	27000.000	J
	UNKNOWN (22.77)	22.77	43000.000	J
	UNKNOWN (23.21)	23.21	89000.000	J

Semivolatile Analysis Data - E21L6
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000101-81-5	BENZENE, 1,14-METHYLENEBIS-	12.72	300000.000	NJ
055702-46-0	1,14-BIPHENYL, 2,3,4-TRICHLORO-	16.33	720000.000	NJ
055702-45-9	1,14-BIPHENYL, 2,3,6-TRICHLORO-	16.64	470000.000	NJ
038444-86-9	1,14-BIPHENYL, 24,3,4-TRICHLORO- (17.01)	17.01	760000.000	NJ
038444-86-9	1,14-BIPHENYL, 24,3,4-TRICHLORO- (17.04)	17.04	980000.000	NJ
015968-05-5	1,14-BIPHENYL, 2,24,6,64-TETRACHLORO-	17.19	910000.000	NJ
052663-58-8	1,14-BIPHENYL, 2,3,44,6-TETRACHLORO- (17.28)	17.28	500000.000	NJ
062796-65-0	1,14-BIPHENYL, 2,24,4,6-TETRACHLORO- (17.5)	17.50	1300000.000	NJ
041464-42-0	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO- (17.58)	17.58	1900000.000	NJ
041464-42-0	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO- (17.63)	17.63	1800000.000	NJ
052663-58-8	1,14-BIPHENYL, 2,3,44,6-TETRACHLORO- (17.83)	17.83	530000.000	NJ
062796-65-0	1,14-BIPHENYL, 2,24,4,6-TETRACHLORO- (17.89)	17.89	500000.000	NJ
041464-42-0	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO- (17.99)	17.99	710000.000	NJ
025429-29-2	1,14-BIPHENYL, PENTACHLORO- (18.31)	18.31	300000.000	NJ
041464-49-7	1,14-BIPHENYL, 2,3,34,54-TETRACHLORO-	18.36	490000.000	NJ
032598-12-2	1,14-BIPHENYL, 2,4,44,6-TETRACHLORO-	18.43	1400000.000	NJ
025429-29-2	1,14-BIPHENYL, PENTACHLORO- (18.53)	18.53	600000.000	NJ
073575-56-1	1,14-BIPHENYL, 2,24,3,5,6-PENTACHLORO-	18.61	430000.000	NJ
038380-03-9	1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	18.71	1100000.000	NJ
070424-70-3	1,14-BIPHENYL, 24,3,4,5,54-PENTACHLORO-	18.78	450000.000	NJ
074472-35-8	1,14-BIPHENYL, 2,3,34,4,6-PENTACHLORO-	19.22	800000.000	NJ
052663-72-6	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (19.37)	19.37	350000.000	NJ
041411-62-5	1,14-BIPHENYL, 2,3,34,4,5,6-HEXACHLORO-	19.49	410000.000	NJ
026601-64-9	1,14-BIPHENYL, HEXACHLORO-	19.54	760000.000	NJ
052712-04-6	1,14-BIPHENYL, 2,24,3,4,5,54-HEXACHLORO-	19.73	430000.000	NJ
052663-72-6	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (19.81)	19.81	600000.000	NJ
032774-16-6	3,4,5,34,44,54-HEXACHLOROBIPHENYL	20.23	470000.000	NJ
074472-49-4	1,14-BIPHENYL, 2,24,3,4,5,6,64-HEPTACHLO	20.45	350000.000	NJ
	UNKNOWN PCB	20.98	270000.000	J
	UNKNOWN	23.22	240000.000	J

Semivolatile Analysis Data - E21K1
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (9)	9.00	150000.000	J
	UNKNOWN (9.05)	9.05	47000.000	J
000121-73-3	BENZENE, 1-CHLORO-3-NITRO-	10.61	24000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.76	160000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.89	180000.000	NJ
	UNKNOWN (11.53)	11.53	37000.000	J
	UNKNOWN (11.81)	11.81	70000.000	J
000095-76-1	BENZENAMINE, 3,4-DICHLORO-	11.96	160000.000	NJ
000095-94-3	BENZENE, 1,2,4,5-TETRACHLORO-	12.62	23000.000	NJ
000626-43-7	BENZENAMINE, 3,5-DICHLORO- (PURITY?)	13.12	68000.000	NJ
	UNKNOWN PHENOLIC COMPOUND (14.14)	14.14	55000.000	J
	UNKNOWN (15.23)	15.23	9500000.000	J
	UNKNOWN (15.45)	15.45	430000.000	J
	UNKNOWN (15.64)	15.64	220000.000	J
	UNKNOWN PHENOLIC COMPOUND (15.84)	15.84	65000.000	J
	UNKNOWN (16.18)	16.18	67000.000	J
	UNKNOWN PHENOLIC COMPOUND (16.43)	16.43	18000.000	J
000090-45-9	9-ACRIDINAMINE	17.43	31000.000	NJ
	UNKNOWN (17.6)	17.60	22000.000	J
	UNKNOWN (17.72)	17.72	37000.000	J
	UNKNOWN (18.11)	18.11	130000.000	J
	UNKNOWN (18.39)	18.39	37000.000	J
	UNKNOWN (18.85)	18.85	18000.000	J
000000-00-0	DI-P-TOLYL-SULFONE	19.22	86000.000	NJ
	UNKNOWN (22.68)	22.68	31000.000	J
083324-62-3	4,6-DICHLORO-5-METHYL-2-OCTYL-1,3-CYCLOH (24.34)	24.34	57000.000	NJ
083324-62-3	4,6-DICHLORO-5-METHYL-2-OCTYL-1,3-CYCLOH (25.5)	25.50	110000.000	NJ
	UNKNOWN (27.16)	27.16	130000.000	J
	UNKNOWN (27.75)	27.75	21000.000	J
	UNKNOWN (28.86)	28.86	21000.000	J

Semivolatile Analysis Data - E21L3
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (14.11)	14.11	45000.000	J
	UNKNOWN HYDROCARBON (14.6)	14.60	49000.000	J
000000-00-0	OCTYL PHENOL ISOMER	14.65	88000.000	NJ
	UNKNOWN HYDROCARBON (14.9)	14.90	120000.000	J
	UNKNOWN (15)	15.00	79000.000	J
	UNKNOWN HYDROCARBON (15.05)	15.05	49000.000	J
	UNKNOWN HYDROCARBON (15.19)	15.19	84000.000	J
027854-41-7	TRIDECANE, 2-METHYL-2-PHENYL-	15.46	36000.000	NJ
027854-40-6	BENZENE, (1,1-DIMETHYLDECYL)-	15.54	35000.000	NJ
	UNKNOWN (16.81)	16.81	120000.000	J
002050-77-3	DECANE, 1-IODO-	17.10	58000.000	NJ
	UNKNOWN (18.09)	18.09	140000.000	J
	UNKNOWN (18.4)	18.40	250000.000	J

Semivolatile Analysis Data - E21L4
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000106-48-9	PHENOL, 4-CHLORO-	9.76	40000.000	NJ
000000-00-0	OCTYL PHENOL ISOMER	14.65	63000.000	NJ
004537-15-9	BENZENE, (1-BUTYLHEPTYL)-	14.75	120000.000	NJ
004536-86-1	BENZENE, (1-PROPYLOCTYL)-	14.85	58000.000	NJ
	UNKNOWN HYDROCARBON (15.05)	15.05	78000.000	J
	UNKNOWN HYDROCARBON (15.36)	15.36	110000.000	J
002719-62-2	BENZENE, (1-PENTYLHEPTYL)-	15.52	31000.000	NJ
	UNKNOWN HYDROCARBON (15.56)	15.56	42000.000	J
002400-00-2	BENZENE, (1-ETHYLDECYL)-	15.86	60000.000	NJ
	UNKNOWN HYDROCARBON (16.17)	16.17	120000.000	J
	UNKNOWN HYDROCARBON (16.27)	16.27	100000.000	J
	UNKNOWN	17.04	66000.000	J
002136-71-2	ETHANOL, 2-(HEXADECYLOXY)-	17.23	100000.000	NJ

Semivolatile Analysis Data - E21L7
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN (6.2)	6.20	47000.000	J
000059-50-7	PHENOL,4-CHLORO-3-METHYL- (TCL)	10.90	800000.000	J
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO- (12)	12.00	86000.000	NJ
000634-90-2	BENZENE, 1,2,3,5-TETRACHLORO- (12.6)	12.60	81000.000	NJ
000101-81-5	BENZENE, 1,14-METHYLENEBIS-	12.72	1000000.000	NJ
000643-58-3	1,14-BIPHENYL, 2-METHYL-	13.63	550000.000	NJ
000120-51-4	BENZYL BENZOATE	16.08	720000.000	NJ
	UNKNOWN HYDROCARBON	17.16	70000.000	J
	UNKNOWN (21.86)	21.86	220000.000	J
	UNKNOWN (25.24)	25.24	170000.000	J
	UNKNOWN (28.45)	28.45	110000.000	J
	UNKNOWN (28.7)	28.70	84000.000	J

Semivolatile Analysis Data - E21K6
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000062-53-3	BENZENAMINE	6.77	14000.000	NJ
000095-51-2	BENZENAMINE, 2-CHLORO-	8.99	210000.000	NJ
000106-47-8	BENZENAMINE, 4-CHLORO-(TCL)	10.13	49000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO- (11.94)	11.94	65000.000	NJ
000608-31-1	BENZENAMINE, 2,6-DICHLORO- (12.23)	12.23	130000.000	NJ
000634-93-5	BENZENAMINE, 2,4,6-TRICHLORO-	12.90	24000.000	NJ
000554-00-7	BENZENAMINE, 2,4-DICHLORO-	13.11	42000.000	NJ
000000-00-0	OCTYL PHENOL ISOMER	14.64	49000.000	NJ
	UNKNOWN HYDROCARBON	16.06	17000.000	J
004536-30-5	ETHANOL, 2-(DODECYLOXY)-	16.96	290000.000	NJ
	UNKNOWN	18.11	150000.000	J

Semivolatile Analysis Data - E21L5
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000608-93-5	BENZENE, PENTACHLORO-	14.15	35000.000	NJ
004901-51-3	PHENOL, 2,3,4,5-TETRACHLORO-	14.32	1200000.000	NJ
000058-90-2	PHENOL, 2,3,4,6-TETRACHLORO-	14.49	14000000.000	NJ
000087-86-5	PHENOL, PENTACHLORO-	16.58	120000000.000	NJ
	UNKNOWN (17.18)	17.18	400000.000	J
	UNKNOWN (23.26)	23.26	68000.000	J
	UNKNOWN (23.36)	23.36	140000.000	J
058802-08-7	1,2,4,7,8-PENTACHLORDIBENZO-P-DIOXIN	23.48	62000.000	NJ
040321-76-4	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	23.56	280000.000	NJ
	UNKNOWN (23.92)	23.92	170000.000	J
	UNKNOWN (25.17)	25.17	47000.000	J
067562-39-4	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	25.69	42000.000	NJ
058200-70-7	1,2,3,4,6,7,9-HEPTACHLORODIBENZO-P-DIOXI (25.99)	25.99	2500000.000	NJ
058802-51-0	1,2,3,6,7,9- OR 1,2,3,6,8,9-HEXACHLOROBE	26.21	1700000.000	NJ
000634-66-2	BENZENE, 1,2,3,4-TETRACHLORO-	26.33	310000.000	NJ
058200-70-7	1,2,3,4,6,7,9-HEPTACHLORODIBENZO-P-DIOXI (26.72)	26.72	1700000.000	NJ
	UNKNOWN (29.13)	29.13	750000.000	J
003268-87-9	DIBENZO(B,E)(1,4)DIOXIN, OCTACHLORO-	30.20	6700000.000	NJ
039001-02-0	DIBENZOFURAN, OCTACHLORO-	30.28	190000.000	NJ
	UNKNOWN (30.42)	30.42	35000.000	J

Semivolatile Analysis Data - E21K1DL
Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
000095-51-2	BENZENAMINE, 2-CHLORO-	8.99	94000.000	NJ
003320-83-0	BENZENE, 1-CHLORO-2-ISOCYANATO-	9.06	63000.000	NJ
000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.75	180000.000	NJ
000088-73-3	2-CHLORONITROBENZENE	10.87	230000.000	NJ
000102-36-3	3,4-DICHLOROPHENYL ISOCYANATE	11.59	150000.000	NJ
	UNKNOWN (11.79)	11.79	73000.000	J
000608-31-1	BENZENAMINE, 2,6-DICHLORO-	11.95	300000.000	NJ
000095-76-1	BENZENAMINE, 3,4-DICHLORO-	12.23	140000.000	NJ
000626-43-7	BENZENAMINE, 3,5-DICHLORO- (PURITY?)	13.11	250000.000	NJ
	UNKNOWN (14.13)	14.13	120000.000	J
	UNKNOWN (14.5)	14.50	63000.000	J
	UNKNOWN (14.8)	14.80	37000000.000	J
	UNKNOWN (15.14)	15.14	120000.000	J
	UNKNOWN (15.19)	15.19	1700000.000	J
	UNKNOWN (15.34)	15.34	120000.000	J
	UNKNOWN (15.44)	15.44	350000.000	J
	UNKNOWN (15.71)	15.71	130000.000	J
	UNKNOWN (16.08)	16.08	140000.000	J
	UNKNOWN (17.28)	17.28	49000.000	J
	UNKNOWN (17.69)	17.69	48000.000	J
059224-76-9	12,13-DIHYDROBENZO(A,F)QUINOLIZIN-6-ONE	18.06	610000.000	NJ
	UNKNOWN (18.36)	18.36	83000.000	J
	UNKNOWN (18.55)	18.55	73000.000	J
	UNKNOWN (21.76)	21.76	42000.000	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K0		E21K1		E21K2		E21K3		E21K4	
Sampling Location :	WS-01-01		WS-01-02		WS-01-03		WS-01-04		WS-01-05	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	10:32		10:32		10:32		14:20		14:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	25000	U	13000	U	25000	U	25000	U	1300	U
Chloromethane	25000	U	13000	U	25000	U	25000	U	1300	U
Vinyl Chloride	25000	U	13000	U	25000	U	2600	J	440	J
Bromomethane	25000	U	13000	U	25000	U	25000	U	1300	U
Chloroethane	25000	U	13000	U	25000	U	25000	U	1300	U
Trichlorofluoromethane	25000	U	13000	U	25000	U	25000	U	160	J
1,1-Dichloroethene	25000	U	13000	U	25000	U	25000	U	1300	U
1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U	13000	U	25000	U	25000	U	190	J
Acetone	25000	UJ	13000	UJ	25000	UJ	25000	UJ	1300	UJ
Carbon Disulfide	25000	U	13000	U	25000	U	25000	U	1300	U
Methyl Acetate	25000	U	13000	U	25000	U	25000	U	510	J
Methylene Chloride	5700	J	3500	J	6100	J	5600	J	150	J
trans-1,2-Dichloroethene	25000	U	13000	U	25000	U	25000	U	170	J
Methyl tert-Butyl Ether	25000	U	13000	U	25000	U	25000	U	260	J
1,1-Dichloroethane	25000	U	13000	U	25000	U	25000	U	1300	U
cis-1,2-Dichloroethene	25000	U	13000	U	25000	U	25000	U	2100	
2-Butanone	25000	UJ	13000	UJ	25000	UJ	25000	UJ	280	J
Chloroform	25000	U	13000	U	25000	U	25000	U	1300	U
1,1,1-Trichloroethane	25000	U	13000	U	25000	U	25000	U	1300	U
Cyclohexane	4200	J	13000	U	25000	U	25000	U	490	J
Carbon Tetrachloride	25000	U	13000	U	25000	U	25000	U	1300	U
Benzene	35000		13000	U	12000	J	25000	U	1300	U
1,2-Dichloroethane	25000	U	13000	U	25000	U	25000	U	1300	U
Trichloroethene	3900	J	13000	U	25000	U	4000	J	7500	
Methylcyclohexane	5900	J	13000	U	2600	J	25000	U	590	J
1,2-Dichloropropane	25000	U	13000	U	25000	U	25000	U	1300	U
Bromodichloromethane	25000	U	13000	U	25000	U	25000	U	1300	U
cis-1,3-Dichloropropene	25000	U	13000	U	25000	U	25000	U	1300	U
4-Methyl-2-pentanone	25000	UJ	13000	UJ	25000	UJ	25000	UJ	1300	UJ
Toluene	110000		2000	J	59000		25000	U	140	J
trans-1,3-Dichloropropene	25000	U	13000	U	25000	U	25000	U	1300	U
1,1,2-Trichloroethane	25000	U	13000	U	25000	U	25000	U	150	J
Tetrachloroethene	6800	J	13000	U	4600	J	25000	U	360	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K0		E21K1		E21K2		E21K3		E21K4	
Sampling Location :	WS-01-01		WS-01-02		WS-01-03		WS-01-04		WS-01-05	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	10:32		10:32		10:32		14:20		14:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	25000	UJ	13000	UJ	25000	UJ	25000	UJ	1300	UJ
Dibromochloromethane	25000	U	13000	U	25000	U	25000	U	160	J
1,2-Dibromoethane	25000	U	13000	U	25000	U	25000	U	1100	J
Chlorobenzene	110000		31000		180000		25000	U	200	J
Ethylbenzene	100000		13000	U	66000		17000	J	160	J
Xylenes (total)	280000		13000	U	250000		390000		490	J
Styrene	25000	U	13000	U	25000	U	25000	U	170	J
Bromoform	25000	U	13000	U	25000	U	25000	U	190	J
Isopropylbenzene	25000	U	13000	U	25000	U	23000	J	840	J
1,1,2,2-Tetrachloroethane	25000	U	13000	U	25000	U	25000	U	170	J
1,3-Dichlorobenzene	25000	U	13000	U	25000	U	25000	U	1300	
1,4-Dichlorobenzene	30000		3000	J	11000	J	25000	U	1400	
1,2-Dichlorobenzene	14000	J	3100	J	4700	J	25000	U	1200	J
1,2-Dibromo-3-chloropropane	25000	U	13000	U	25000	U	25000	U	1200	J
1,2,4-Trichlorobenzene	96000		6800	J	19000	J	25000	U	1200	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K5		E21K6		E21K6DL		E21K7		E21K7RE	
Sampling Location :	WS-01-06		WS-01-07		WS-01-07		WS-01-08		WS-01-08	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	15:10		15:52		15:52		16:15		16:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		20.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	13000	U	25000	U	130000	U	38000	U	38000	U
Chloromethane	13000	U	25000	U	130000	U	38000	U	38000	U
Vinyl Chloride	13000	U	36000		31000	J	38000	U	38000	U
Bromomethane	13000	U	25000	U	130000	U	38000	U	38000	U
Chloroethane	13000	U	25000	U	130000	U	38000	U	38000	U
Trichlorofluoromethane	13000	U	25000	U	130000	U	38000	UJ	38000	UJ
1,1-Dichloroethene	13000	U	2900	J	130000	U	38000	U	38000	U
1,1,2-Trichloro-1,2,2-trifluoroethane	13000	U	25000	U	130000	U	38000	U	38000	U
Acetone	13000	UJ	25000	U	130000	UJ	38000	UJ	38000	UJ
Carbon Disulfide	13000	U	25000	U	130000	U	38000	U	38000	U
Methyl Acetate	13000	U	25000	U	130000	U	38000	U	38000	U
Methylene Chloride	13000	U	25000	U	130000	U	38000	U	38000	U
trans-1,2-Dichloroethene	13000	U	25000	U	130000	U	38000	U	38000	U
Methyl tert-Butyl Ether	13000	U	25000	U	130000	U	38000	U	38000	U
1,1-Dichloroethane	13000	U	3000	J	130000	U	38000	U	38000	U
cis-1,2-Dichloroethene	1500	J	160000		130000		38000	U	38000	U
2-Butanone	13000	UJ	25000	U	130000	UJ	38000	UJ	38000	UJ
Chloroform	13000	U	25000	U	130000	U	38000	U	38000	U
1,1,1-Trichloroethane	13000	U	8100	J	130000	U	38000	U	38000	U
Cyclohexane	13000	U	5800	J	130000	U	38000	U	38000	U
Carbon Tetrachloride	13000	U	25000	U	130000	U	38000	U	38000	U
Benzene	13000	U	110000		95000	J	14000	J	16000	J
1,2-Dichloroethane	13000	U	25000	U	130000	U	38000	U	38000	U
Trichloroethene	2700	J	27000		24000	J	5600	J	7500	J
Methylcyclohexane	13000	U	5400	J	130000	U	38000	U	38000	U
1,2-Dichloropropane	13000	U	25000	U	130000	U	38000	U	38000	U
Bromodichloromethane	13000	U	25000	U	130000	U	38000	U	38000	U
cis-1,3-Dichloropropene	13000	U	25000	U	130000	U	38000	U	38000	U
4-Methyl-2-pentanone	13000	UJ	25000	U	130000	U	12000	J	14000	J
Toluene	13000	U	260000		220000		47000		55000	
trans-1,3-Dichloropropene	13000	U	25000	U	130000	U	38000	U	38000	U
1,1,2-Trichloroethane	13000	U	25000	U	130000	U	38000	U	38000	U
Tetrachloroethene	13000	U	120000		110000	J	12000	J	14000	J

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K5		E21K6		E21K6DL		E21K7		E21K7RE	
Sampling Location :	WS-01-06		WS-01-07		WS-01-07		WS-01-08		WS-01-08	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	15:10		15:52		15:52		16:15		16:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		20.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	13000	UJ	25000	U	130000	U	38000	UJ	38000	UJ
Dibromochloromethane	13000	U	25000	U	130000	U	38000	U	38000	U
1,2-Dibromoethane	13000	U	25000	U	130000	U	38000	U	38000	U
Chlorobenzene	13000	U	1100000		990000		190000		220000	
Ethylbenzene	13000	U	12000	J	130000	U	16000	J	21000	J
Xylenes (total)	13000	U	34000		25000	J	62000		74000	
Styrene	13000	U	25000	U	130000	U	38000	U	38000	U
Bromoform	13000	U	25000	U	130000	U	38000	U	38000	U
Isopropylbenzene	13000	U	25000	U	130000	U	38000	U	38000	U
1,1,2,2-Tetrachloroethane	13000	U	25000	U	130000	U	38000	U	38000	U
1,3-Dichlorobenzene	13000	U	25000	U	130000	U	38000	U	38000	U
1,4-Dichlorobenzene	13000	U	30000		35000	J	12000	J	8100	J
1,2-Dichlorobenzene	13000	U	24000	J	27000	J	4500	J	4400	J
1,2-Dibromo-3-chloropropane	13000	U	25000	UJ	130000	U	38000	UJ	38000	UJ
1,2,4-Trichlorobenzene	1700	J	25000	U	130000	U	38000	U	32000	J

Analytical Results (Qualified Data)

Case # 30721 SDG E21K0
Site SAUGET SITES H & I
Lab. CLAYTON
Reviewer S. Tobin
Date 08-12-2002

Number of Soil Samples 19
Number of Water Samples 0

Sample Number	E21K8		E21K8DL		E21K9		E21L1		E21L2	
Sampling Location	WS-01-09		WS-01-09		WS-02-01		WS-03-01		WS-03-02	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	07/13/2002		07/13/2002		07/14/2002		07/14/2002		07/14/2002	
Time Sampled	16:25		16:25		10:15		14:17		14:19	
%Moisture	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1300	U	5000	U	25000	U	13000	U	5000	U
Chloromethane	1300	U	5000	U	25000	U	13000	U	5000	U
Vinyl Chloride	1300	U	5000	U	25000	U	13000	U	5000	U
Bromomethane	1300	U	5000	U	25000	U	13000	U	5000	U
Chloroethane	1300	U	5000	U	25000	U	13000	U	5000	U
Trichlorofluoromethane	1300	U	5000	UJ	25000	U	13000	U	5000	U
1,1-Dichloroethene	1300	U	5000	U	25000	U	13000	U	5000	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U	5000	U	25000	U	13000	U	5000	U
Acetone	1300	UJ	5000	UJ	25000	U	13000	UJ	5000	UJ
Carbon Disulfide	1300	U	5000	U	25000	U	13000	U	5000	U
Methyl Acetate	1300	U	5000	U	25000	U	12000	J	5000	U
Methylene Chloride	1300	U	5000	U	25000	U	2300	J	1100	J
trans-1,2-Dichloroethene	1300	U	5000	U	25000	U	13000	U	5000	U
Methyl tert-Butyl Ether	1300	U	5000	U	25000	U	13000	U	5000	U
1,1-Dichloroethane	1300	U	5000	U	25000	U	13000	U	5000	U
cis-1,2-Dichloroethene	1300	U	5000	U	25000	U	13000	U	5000	U
2-Butanone	370	J	5000	UJ	25000	U	13000	UJ	5000	UJ
Chloroform	1300	U	5000	U	25000	U	13000	U	5000	U
1,1,1-Trichloroethane	1300	U	5000	U	25000	U	13000	U	5000	U
Cyclohexane	1300	U	5000	U	25000	U	13000	U	5000	U
Carbon Tetrachloride	1300	U	5000	U	25000	U	13000	U	5000	U
Benzene	590	J	660	J	3400	J	5200	J	1700	J
1,2-Dichloroethane	1300	U	5000	U	25000	U	13000	U	5000	U
Trichloroethene	180	J	5000	U	25000	U	13000	U	5000	U
Methylcyclohexane	1300	U	5000	U	25000	U	13000	U	880	J
1,2-Dichloropropane	1300	U	5000	U	25000	U	13000	U	5000	U
Bromodichloromethane	1300	U	5000	U	25000	U	13000	U	5000	U
cis-1,3-Dichloropropene	1300	U	5000	U	25000	U	13000	U	5000	U
4-Methyl-2-pentanone	480	J	500	J	25000	U	13000	U	5000	U
Toluene	3300		3000	J	25000	U	13000	U	5000	U
trans-1,3-Dichloropropene	1300	U	5000	U	25000	U	13000	U	5000	U
1,1,2-Trichloroethane	1300	U	5000	U	25000	U	13000	U	5000	U
Tetrachloroethene	220	J	5000	U	25000	U	13000	U	5000	U

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K8		E21K8DL		E21K9		E21L1		E21L2	
Sampling Location :	WS-01-09		WS-01-09		WS-02-01		WS-03-01		WS-03-02	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/14/2002		07/14/2002		07/14/2002	
Time Sampled :	16:25		16:25		10:15		14:17		14:19	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	1300	U	5000	UJ	25000	U	13000	U	5000	U
Dibromochloromethane	1300	U	5000	U	25000	U	13000	U	5000	U
1,2-Dibromoethane	1300	U	5000	U	25000	U	13000	U	5000	U
Chlorobenzene	8100		7100		3900	J	100000		63000	J
Ethylbenzene	3100		3000	J	25000	U	13000	U	590	J
Xylenes (total)	12000		11000		25000	U	13000	U	5000	U
Styrene	1300	U	5000	U	25000	U	13000	U	5000	U
Bromoform	1300	U	5000	U	25000	U	13000	U	5000	U
Isopropylbenzene	1300	U	5000	U	25000	U	13000	U	5000	U
1,1,2,2-Tetrachloroethane	1300	U	5000	U	25000	U	13000	U	5000	U
1,3-Dichlorobenzene	1300	U	520	J	25000	U	4800	J	4400	J
1,4-Dichlorobenzene	3400		3500	J	6300	J	30000		33000	
1,2-Dichlorobenzene	1900		1800	J	25000	U	2100	J	2200	J
1,2-Dibromo-3-chloropropane	1300	U	5000	UJ	25000	UJ	13000	U	5000	U
1,2,4-Trichlorobenzene	40000		33000		25000	U	13000	U	5000	U

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L2MS		E21L2MSD		E21L3		E21L4		E21L5	
Sampling Location :	WS-03-02		WS-03-02		WS-01		H/WS-01-01		H/WS-01-02	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/14/2002		07/14/2002		07/13/2002		07/15/2002		07/15/2002	
Time Sampled :	14:19		14:19		15:52		11:15		11:20	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5000	U	5000	U	250000	U	50000	U	5000	U
Chloromethane	5000	U	5000	U	250000	U	50000	U	5000	U
Vinyl Chloride	5000	U	5000	U	26000	J	50000	U	5000	U
Bromomethane	5000	U	5000	U	250000	U	50000	U	5000	U
Chloroethane	5000	U	5000	U	250000	U	50000	U	5000	U
Trichlorofluoromethane	5000	U	5000	U	250000	U	50000	U	5000	U
1,1-Dichloroethene	27000		30000		250000	U	50000	U	5000	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U	5000	U	250000	U	50000	U	5000	U
Acetone	5000	UJ	5000	UJ	250000	UJ	50000	UJ	5000	UJ
Carbon Disulfide	5000	U	5000	U	250000	U	50000	U	5000	U
Methyl Acetate	5000	U	5000	U	250000	U	50000	U	5000	U
Methylene Chloride	5000	U	5000	U	250000	U	11000	J	5000	U
trans-1,2-Dichloroethene	5000	U	5000	U	250000	U	50000	U	5000	U
Methyl tert-Butyl Ether	5000	U	5000	U	250000	U	50000	U	5000	U
1,1-Dichloroethane	5000	U	5000	U	250000	U	50000	U	5000	U
cis-1,2-Dichloroethene	5000	U	5000	U	140000	J	50000	U	5000	U
2-Butanone	850	J	5000	UJ	250000	UJ	50000	UJ	560	J
Chloroform	5000	U	5000	U	250000	U	50000	U	5000	U
1,1,1-Trichloroethane	5000	U	5000	U	250000	U	50000	U	5000	U
Cyclohexane	5000	U	5000	U	250000	U	50000	U	5000	U
Carbon Tetrachloride	5000	U	5000	U	250000	U	50000	U	5000	U
Benzene	29000		29000		96000	J	97000		63000	
1,2-Dichloroethane	5000	U	5000	U	250000	U	50000	U	5000	U
Trichloroethene	25000		25000		250000	U	50000	U	5000	U
Methylcyclohexane	1100	J	950	J	250000	U	6700	J	5000	U
1,2-Dichloropropane	5000	U	5000	U	250000	U	50000	U	5000	U
Bromodichloromethane	5000	U	5000	U	250000	U	50000	U	5000	U
cis-1,3-Dichloropropene	5000	U	5000	U	250000	U	50000	U	5000	U
4-Methyl-2-pentanone	5000	U	5000	U	250000	U	50000	U	5000	U
Toluene	29000		28000		290000		50000	U	800	J
trans-1,3-Dichloropropene	5000	U	5000	U	250000	U	50000	U	5000	U
1,1,2-Trichloroethane	5000	U	5000	U	250000	U	50000	U	5000	U
Tetrachloroethene	5000	U	5000	U	85000	J	50000	U	5000	U

Analytical Results (Qualified Data)

Case # 30721 SDG E21K0
Site : SAUGET SITES H & I
Lab : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L2MS		E21L2MSD		E21L3		E21L4		E21L5	
Sampling Location :	WS-03-02		WS-03-02		WS-01		H/WS-01-01		H/WS-01-02	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/14/2002		07/14/2002		07/13/2002		07/15/2002		07/15/2002	
Time Sampled :	14:19		14:19		15:52		11:15		11:20	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	5000	U	5000	U	250000	U	50000	U	5000	U
Dibromochloromethane	5000	U	5000	U	250000	U	50000	U	5000	U
1,2-Dibromoethane	5000	U	5000	U	250000	U	50000	U	5000	U
Chlorobenzene	110000		110000		1500000		580000		13000	
Ethylbenzene	750	J	760	J	250000	U	50000	U	740	J
Xylenes (total)	670	J	660	J	35000	J	50000	U	5000	U
Styrene	5000	U	5000	U	250000	U	50000	U	5000	U
Bromoform	5000	U	5000	U	250000	U	50000	U	5000	U
Isopropylbenzene	5000	U	5000	U	250000	U	50000	U	5000	U
1,1,2,2-Tetrachloroethane	5000	U	5000	U	250000	U	50000	U	5000	U
1,3-Dichlorobenzene	5800		6000		250000	U	18000	J	800	J
1,4-Dichlorobenzene	48000		47000		68000	J	92000		10000	
1,2-Dichlorobenzene	3100	J	2700	J	45000	J	12000	J	1500	J
1,2-Dibromo-3-chloropropane	5000	U	5000	U	250000	U	50000	U	5000	U
1,2,4-Trichlorobenzene	5400		5000	U	250000	U	50000	U	5000	U

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L6		E21L6DL		E21L7		E21L8		E21L9	
Sampling Location :	H/WS-01-03		H/WS-01-03		H/WS-01-04		H/WS-01-05		H/WS-02-06	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/15/2002		07/15/2002		07/15/2002		07/15/2002		07/15/2002	
Time Sampled :	11:52		11:52		14:10		14:25		15:32	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	25000	U	130000	U	25000	U	2500	U	50000	U
Chloromethane	25000	U	130000	U	25000	U	2500	U	50000	U
Vinyl Chloride	25000	U	130000	U	25000	U	2500	U	50000	U
Bromomethane	25000	U	130000	U	25000	U	2500	U	50000	U
Chloroethane	25000	U	130000	U	25000	U	2500	U	50000	U
Trichlorofluoromethane	25000	U	130000	U	25000	U	2500	U	50000	UJ
1,1-Dichloroethene	25000	U	130000	U	25000	U	2500	U	50000	U
1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U	130000	U	25000	U	2500	U	50000	U
Acetone	25000	U	130000	UJ	25000	UJ	2500	UJ	50000	UJ
Carbon Disulfide	25000	U	130000	U	25000	U	2500	U	50000	U
Methyl Acetate	25000	U	130000	U	25000	U	450	J	50000	U
Methylene Chloride	25000	U	13000	J	2700	J	2500	U	50000	U
trans-1,2-Dichloroethene	25000	U	130000	U	25000	U	2500	U	50000	U
Methyl tert-Butyl Ether	25000	U	130000	U	25000	U	2500	U	50000	U
1,1-Dichloroethane	25000	U	130000	U	25000	U	2500	U	50000	U
cis-1,2-Dichloroethene	25000	U	130000	U	25000	U	2500	U	50000	U
2-Butanone	25000	U	130000	UJ	25000	UJ	2500	UJ	50000	UJ
Chloroform	25000	U	130000	U	25000	U	2500	U	50000	U
1,1,1-Trichloroethane	25000	U	130000	U	25000	U	2500	U	50000	U
Cyclohexane	25000	U	130000	U	5600	J	2500	U	50000	U
Carbon Tetrachloride	25000	U	130000	U	25000	U	2500	U	50000	U
Benzene	320000		340000		120000		430	J	180000	
1,2-Dichloroethane	25000	U	130000	U	25000	U	2500	U	50000	U
Trichloroethene	25000	U	130000	U	25000	U	2500	U	50000	U
Methylcyclohexane	5800	J	130000	U	8800	J	2500	U	50000	U
1,2-Dichloropropane	25000	U	130000	U	25000	U	2500	U	50000	U
Bromodichloromethane	25000	U	130000	U	25000	U	2500	U	50000	U
cis-1,3-Dichloropropene	25000	U	130000	U	25000	U	2500	U	50000	U
4-Methyl-2-pentanone	25000	U	130000	U	25000	U	2500	U	50000	UJ
Toluene	25000	U	130000	U	6400	J	2500	U	86000	
trans-1,3-Dichloropropene	25000	U	130000	U	25000	U	2500	U	50000	U
1,1,2-Trichloroethane	25000	U	130000	U	25000	U	2500	U	50000	U
Tetrachloroethene	25000	U	130000	U	25000	U	2500	U	12000	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab CLAYTON
Reviewer S. Tobin
Date : 08-12-2002

Number of Soil Samples 19
Number of Water Samples 0

Sample Number :	E21L6		E21L6DL		E21L7		E21L8		E21L9	
Sampling Location :	H/WS-01-03		H/WS-01-03		H/WS-01-04		H/WS-01-05		H/WS-02-06	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/15/2002		07/15/2002		07/15/2002		07/15/2002		07/15/2002	
Time Sampled :	11:52		11:52		14:10		14:25		15:32	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	25000	U	130000	U	25000	U	2500	U	50000	UJ
Dibromochloromethane	25000	U	130000	U	25000	U	2500	U	50000	U
1,2-Dibromoethane	25000	U	130000	U	25000	U	2500	U	50000	U
Chlorobenzene	720000		680000		500000		2600		570000	
Ethylbenzene	70000		63000	J	15000	J	2500	U	5700	J
Xylenes (total)	13000	J	130000	U	4300	J	2500	U	50000	U
Styrene	25000	U	130000	U	25000	U	2500	U	50000	U
Bromoform	25000	U	130000	U	25000	U	2500	U	50000	U
Isopropylbenzene	20000	J	20000	J	5000	J	2500	U	50000	U
1,1,2,2-Tetrachloroethane	25000	U	130000	U	25000	U	2500	U	50000	U
1,3-Dichlorobenzene	47000	J	58000	J	21000	J	770	J	25000	J
1,4-Dichlorobenzene	330000		320000		270000		3400		350000	
1,2-Dichlorobenzene	9700	J	130000	U	37000		470	J	37000	J
1,2-Dibromo-3-chloropropane	25000	UJ	130000	U	25000	U	2500	U	50000	UJ
1,2,4-Trichlorobenzene	25000	U	130000	U	200000		2700	U	100000	

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	VBLKKC		VBLKKD		VBLKKH		VBLKKI		VBLKKJ	
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1200	U	1200	U	1200	U	1200	U	1200	U
Chloromethane	1200	U	1200	U	1200	U	1200	U	1200	U
Vinyl Chloride	1200	U	1200	U	1200	U	1200	U	1200	U
Bromomethane	1200	U	1200	U	1200	U	1200	U	1200	U
Chloroethane	1200	U	1200	U	1200	U	1200	U	1200	U
Trichlorofluoromethane	1200	U	1200	U	1200	U	1200	UJ	1200	U
1,1-Dichloroethene	1200	U	1200	U	1200	U	1200	U	1200	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1200	U	1200	U	1200	U	1200	U	1200	U
Acetone	490	J	230	J	330	J	490	J	270	J
Carbon Disulfide	1200	U	1200	U	1200	U	1200	U	1200	U
Methyl Acetate	1200	U	1200	U	1200	U	1200	U	1200	U
Methylene Chloride	1200	U	130	J	1200	U	1200	U	1200	U
trans-1,2-Dichloroethene	1200	U	1200	U	1200	U	1200	U	1200	U
Methyl tert-Butyl Ether	1200	U	1200	U	1200	U	1200	U	1200	U
1,1-Dichloroethane	1200	U	1200	U	1200	U	1200	U	1200	U
cis-1,2-Dichloroethene	1200	U	1200	U	1200	U	1200	U	1200	U
2-Butanone	1200	UJ	240	J	1200	UJ	1200	UJ	1200	UJ
Chloroform	1200	U	1200	U	1200	U	1200	U	1200	U
1,1,1-Trichloroethane	1200	U	1200	U	1200	U	1200	U	1200	U
Cyclohexane	1200	U	1200	U	1200	U	1200	U	1200	U
Carbon Tetrachloride	1200	U	1200	U	1200	U	1200	U	1200	U
Benzene	1200	U	1200	U	1200	U	1200	U	1200	U
1,2-Dichloroethane	1200	U	1200	U	1200	U	1200	U	1200	U
Trichloroethene	1200	U	1200	U	1200	U	1200	U	1200	U
Methylcyclohexane	1200	U	1200	U	1200	U	1200	U	1200	U
1,2-Dichloropropane	1200	U	1200	U	1200	U	1200	U	1200	U
Bromodichloromethane	1200	U	1200	U	1200	U	1200	U	1200	U
cis-1,3-Dichloropropene	1200	U	1200	U	1200	U	1200	U	1200	U
4-Methyl-2-pentanone	1200	UJ	1200	U	1200	U	1200	UJ	1200	U
Toluene	1200	U	1200	U	1200	U	1200	U	1200	U
trans-1,3-Dichloropropene	1200	U	1200	U	1200	U	1200	U	1200	U
1,1,2-Trichloroethane	1200	U	1200	U	1200	U	1200	U	1200	U
Tetrachloroethene	1200	U	1200	U	1200	U	1200	U	1200	U

Analytical Results (Qualified Data)

Case #: 30721 SDG: E21K0
Site: SAUGET SITES H & I
Lab.: CLAYTON
Reviewer: S. Tobin
Date: 08-12-2002

Number of Soil Samples: 19
Number of Water Samples: 0

Sample Number:	VBLKKC		VBLKKD		VBLKKH		VBLKKI		VBLKKJ	
Sampling Location:										
Matrix:	Soil		Soil		Soil		Soil		Soil	
Units:	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled:										
Time Sampled:										
%Moisture:	N/A		N/A		N/A		N/A		N/A	
pH:										
Dilution Factor:	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	1200	UJ	1200	U	1200	U	1200	UJ	1200	U
Dibromochloromethane	1200	U	1200	U	1200	U	1200	U	1200	U
1,2-Dibromoethane	1200	U	1200	U	1200	U	1200	U	1200	U
Chlorobenzene	1200	U	1200	U	1200	U	1200	U	1200	U
Ethylbenzene	1200	U	1200	U	1200	U	1200	U	1200	U
Xylenes (total)	1200	U	1200	U	1200	U	1200	U	1200	U
Styrene	1200	U	1200	U	1200	U	1200	U	1200	U
Bromoform	1200	U	1200	U	1200	U	1200	U	1200	U
Isopropylbenzene	1200	U	1200	U	1200	U	1200	U	1200	U
1,1,2,2-Tetrachloroethane	1200	U	1200	U	1200	U	1200	U	1200	U
1,3-Dichlorobenzene	1200	U	1200	U	1200	U	1200	U	1200	U
1,4-Dichlorobenzene	1200	U	1200	U	1200	U	1200	U	1200	U
1,2-Dichlorobenzene	1200	U	1200	U	1200	U	1200	U	1200	U
1,2-Dibromo-3-chloropropane	1200	U	1200	UJ	1200	U	1200	UJ	1200	U
1,2,4-Trichlorobenzene	1200	U	350	J	340	J	210	J	270	J

Analytical Results (Qualified Data)

Case #: 30721
SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	VHBLKKA									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1300	U								
Chloromethane	1300	U								
Vinyl Chloride	1300	U								
Bromomethane	1300	U								
Chloroethane	1300	U								
Trichlorofluoromethane	1300	U								
1,1-Dichloroethene	1300	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U								
Acetone	1300	UJ								
Carbon Disulfide	1300	U								
Methyl Acetate	1300	U								
Methylene Chloride	1300	U								
trans-1,2-Dichloroethene	1300	U								
Methyl tert-Butyl Ether	1300	U								
1,1-Dichloroethane	1300	U								
cis-1,2-Dichloroethene	1300	U								
2-Butanone	1300	UJ								
Chloroform	1300	U								
1,1,1-Trichloroethane	1300	U								
Cyclohexane	1300	U								
Carbon Tetrachloride	1300	U								
Benzene	1300	U								
1,2-Dichloroethane	1300	U								
Trichloroethene	1300	U								
Methylcyclohexane	1300	U								
1,2-Dichloropropane	1300	U								
Bromodichloromethane	1300	U								
cis-1,3-Dichloropropene	1300	U								
4-Methyl-2-pentanone	1300	U								
Toluene	1300	U								
trans-1,3-Dichloropropene	1300	U								
1,1,2-Trichloroethane	1300	U								
Tetrachloroethene	1300	U								

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	VHBLKKA									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	1300	U								
Dibromochloromethane	1300	U								
1,2-Dibromoethane	1300	U								
Chlorobenzene	1300	U								
Ethylbenzene	1300	U								
Xylenes (total)	1300	U								
Styrene	1300	U								
Bromoform	1300	U								
Isopropylbenzene	1300	U								
1,1,2,2-Tetrachloroethane	1300	U								
1,3-Dichlorobenzene	1300	U								
1,4-Dichlorobenzene	1300	U								
1,2-Dichlorobenzene	1300	U								
1,2-Dibromo-3-chloropropane	1300	U								
1,2,4-Trichlorobenzene	1300	U								

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K0		E21K0DL		E21K1		E21K1DL		E21K2	
Sampling Location :	WS-01-01		WS-01-01		WS-01-02		WS-01-02		WS-01-03	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	10:32		10:32		10:32		10:32		10:32	
%Moisture :	0		0		0		0		0	
pH :	0.0		0.0		7.5		7.5		0.0	
Dilution Factor :	5.0		10.0		1.0		20.0		10.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	74000	U	150000	U	9900	U	200000	U	50000	U
Phenol	4800	J	150000	U	1200	J	200000	U	50000	U
bis-(2-Chloroethyl) ether	74000	U	150000	U	9900	U	200000	U	50000	U
2-Chlorophenol	74000	U	150000	U	9900	U	200000	U	50000	U
2-Methylphenol	74000	U	150000	U	9900	U	200000	U	50000	U
2,2'-oxybis(1-Chloropropane)	74000	UJ	150000	UJ	9900	UJ	200000	UJ	50000	UJ
Acetophenone	74000	U	150000	U	9900	U	200000	U	50000	U
4-Methylphenol	74000	U	150000	U	9900	U	200000	U	50000	U
N-Nitroso-di-n-propylamine	74000	U	150000	U	9900	U	200000	U	50000	U
Hexachloroethane	74000	U	150000	U	9900	U	200000	U	50000	U
Nitrobenzene	52000	J	52000	J	10000		200000	U	50000	U
Isophorone	74000	U	150000	U	9900	U	200000	U	50000	U
2-Nitrophenol	74000	U	150000	U	9900	U	200000	U	50000	U
2,4-Dimethylphenol	74000	U	150000	U	9900	U	200000	U	50000	U
bis(2-Chloroethoxy)methane	74000	U	150000	U	9900	U	200000	U	50000	U
2,4-Dichlorophenol	5900	J	9100	J	3300	J	200000	U	50000	U
Naphthalene	74000	U	25000	J	1400	J	200000	U	110000	
4-Chloroaniline	920000		920000		96000		200000		160000	
Hexachlorobutadiene	74000	U	150000	U	9900	U	200000	U	50000	U
Caprolactam	74000	U	150000	U	9900	U	200000	U	50000	U
4-Chloro-3-methylphenol	74000	U	150000	U	9900	U	200000	U	50000	U
2-Methylnaphthalene	74000	U	150000	U	9900	U	200000	U	50000	U
Hexachlorocyclopentadiene	74000	U	150000	UJ	9900	UJ	200000	UJ	50000	UJ
2,4,6-Trichlorophenol	74000	U	150000	U	1400	J	200000	U	50000	U
2,4,5-Trichlorophenol	190000	U	370000	U	810	J	500000	U	120000	U
1,1'-Biphenyl	78000		84000	J	3800	J	200000	U	50000	U
2-Chloronaphthalene	74000	U	150000	U	9900	U	200000	U	50000	U
2-Nitroaniline	37000	J	38000	J	25000	U	500000	U	120000	U
Dimethylphthalate	74000	U	150000	U	9900	U	200000	U	50000	U
2,6-Dinitrotoluene	74000	U	150000	U	9900	U	200000	U	50000	U
Acenaphthylene	74000	U	150000	U	9900	U	200000	U	50000	U
3-Nitroaniline	190000	U	370000	U	25000	U	500000	U	120000	U
Acenaphthene	74000	U	150000	U	9900	U	200000	U	50000	U

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date . 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K0		E21K0DL		E21K1		E21K1DL		E21K2	
Sampling Location :	WS-01-01		WS-01-01		WS-01-02		WS-01-02		WS-01-03	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	10:32		10:32		10:32		10:32		10:32	
%Moisture :	0		0		0		0		0	
pH :	0.0		0.0		7.5		7.5		0.0	
Dilution Factor :	5.0		10.0		1.0		20.0		10.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	190000	U	370000	UJ	25000	UJ	500000	U	120000	UJ
4-Nitrophenol	190000	U	370000	U	25000	U	500000	U	120000	U
Dibenzofuran	74000	U	150000	U	9900	U	200000	U	50000	U
2,4-Dinitrotoluene	74000	U	150000	U	9900	U	200000	U	50000	U
Diethylphthalate	74000	U	150000	U	9900	U	200000	U	50000	U
Fluorene	74000	U	150000	U	9900	U	200000	U	50000	U
4-Chlorophenyl-phenyl ether	74000	U	150000	U	9900	U	200000	U	50000	U
4-Nitroaniline	190000	U	370000	U	25000	U	500000	U	120000	U
4,6-Dinitro-2-methylphenol	190000	U	370000	U	25000	UJ	500000	U	120000	U
N-Nitrosodiphenylamine	5400	J	150000	U	9900	U	200000	U	50000	U
4-Bromophenyl-phenylether	74000	U	150000	U	9900	U	200000	U	50000	U
Hexachlorobenzene	74000	U	150000	U	1200	J	200000	U	50000	U
Atrazine	74000	U	150000	UJ	9900	U	200000	U	50000	UJ
Pentachlorophenol	49000	J	10000	J	860000	J	1000000		72000	J
Phenanthrene	15000	J	14000	J	1500	J	200000	U	50000	U
Anthracene	74000	U	150000	U	9900	U	200000	U	50000	U
Carbazole	74000	U	150000	U	1300	J	200000	U	50000	U
Di-n-butylphthalate	74000	U	150000	U	780	J	200000	U	44000	J
Fluoranthene	74000	U	150000	U	1400	J	200000	U	50000	U
Pyrene	74000	U	150000	U	1600	J	200000	U	50000	U
Butylbenzylphthalate	74000	U	150000	U	1000	J	200000	U	50000	U
3,3'-Dichlorobenzidine	74000	UJ	150000	UJ	9900	U	200000	UJ	50000	UJ
Benzo(a)anthracene	74000	U	150000	U	9900	U	200000	U	50000	U
Chrysene	13000	J	13000	J	8800	J	13000	J	50000	U
bis(2-Ethylhexyl)phthalate	74000	U	150000	U	30000		200000	U	50000	U
Di-n-octylphthalate	74000	U	150000	U	9900	U	200000	U	50000	U
Benzo(b)fluoranthene	74000	U	150000	U	9900	U	200000	U	50000	U
Benzo(k)fluoranthene	74000	U	150000	U	9900	U	200000	U	50000	U
Benzo(a)pyrene	74000	U	150000	U	9900	U	200000	U	50000	U
Indeno(1,2,3-cd)pyrene	74000	U	150000	U	9900	U	200000	U	50000	U
Dibenzo(a,h)anthracene	74000	U	150000	U	9900	U	200000	U	50000	U
Benzo(g,h,i)perylene	74000	U	150000	U	9900	U	200000	U	50000	U

July 18, 2002

Ms. Cecilia Moore
USEPA Region V, CAAS
77 West Jackson Blvd. (SMF-4J)
Chicago, IL 60604

Re: Waiver Request

Contract No.: 68-W-99-069
Delivery Order No.: 03
Case No.: 30721
SDG: E21K0 and E21M0
Original Due Date: 07/24/02
Turnaround time: 7 days

Dear Ms. Moore:

The laboratory is in the process of analyzing SDGs E21K0 and E21M0. We have encountered problems with the samples in this Case and are requesting a waiver.

All samples in this Case, except for one, are waste samples, not soil/sediment samples. All twenty-two samples are emitting very strong odors (some are solvent- or hydrocarbon-like).

As three analysts were prepping the samples for the VOA analysis and the Pesticide extraction, they were affected by the fumes from the samples. At this point, the laboratory halted the prep work on July 17, 2002, due to concerns for the safety of the analysts. Dyncorp was notified immediately and asked by the laboratory to find out any background information regarding the origin of the samples.

The sampler informed Dyncorp that these samples were from a landfill, so there is no history on the samples.

Dyncorp and Region 5 asked the laboratory what analysis could not be safely analyzed for. The laboratory informed the Region and Dyncorp that because these are waste samples, the laboratory is concerned about health issues, contaminating the GPC instrument and also the analytical instruments, if the samples were analyzed as low-level samples.

Also, the laboratory did not want to perform the percent moisture analysis. To determine percent moisture, samples are dried in an oven. There was a possibility that these samples would flash (or explode/ignite) due to the strong solvent odors.

On July 18, 2002, the laboratory and the Region agreed that to safely analyze these samples, the VOA, BNA and PEST analyses should be done as medium-level analyses. The Region also agreed that percent moisture should not be done.

Extractions were started for the BNA and PEST analyses on July 18, 2002.

On July 18, 2002, the laboratory also had the screening results for the VOA analysis. All samples were prepared for medium-level analysis. The screen results indicate that many samples will require at least a 1000 times or greater dilution. Some samples are foaming in the instrument, which is causing delays. Many samples contain forms of Chlorobenzene at significant levels, which could also affect the (chlorinated) PEST analysis. There is also indication that there are heavy compounds present, which will affect the BNA and PEST analyses.

The VOA samples will require numerous runs - due to high concentrations of target and non-target compounds and also due to poor QC because of matrix (if a samples fails the QC, it must be re-analyzed to prove its matrix interference, per the SOW). It is strongly believed that the BNA and PEST analyses will also require numerous runs for each sample for the same reasons.

Because these waste samples will require more than one analytical run per sample, per fraction, the laboratory will be unable to meet the required turnaround time. The laboratory is asking for a waiver. Since the BNA and PEST analyses have not been started yet (only the extractions), the laboratory is projecting that it will require at least an additional five working days to complete the analyses and data package. The laboratory is very aware that this Case needs to be done as soon as possible and every effort is being made to get the Case done quickly.

An E-mail is attached that includes physical descriptions of all the samples in this Case and the record of communication.

If you have any further questions, please feel free to contact me at (248) 344-2671.

Sincerely,

Karen Coonan
CLP Program Manager
kcoonan@claytongrp.com

attachment

From: Karen Coonan
To: "Jessica.Brown@dyncorp.com"@CGS_Inet.GWIA6; "John...
Date: Thu, Jul 18, 2002 11:10 AM
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Hi Holly,

Because these are waste samples, not soil or sediment samples, this is how the lab would like to proceed (since waste samples are not covered in the SOW):

Volatiles: All samples were prepared as medium-level samples. Analysis has already started for these, since the samples had already been prepped before we "stopped all work". The analysts are finding that many samples have to be done with further dilutions (possibly 1000 times or greater). All samples will be done as medium-levels. They are finding forms of Chlorobenzene (possibly what you might find in pesticides). The analysts feel, though, that what they are seeing does not account for the strong odors that are present in the samples (ie, the odors could be from heavier compounds that will be found during the BNA and PEST analysis).

Since these are waste samples, the lab is concerned about contaminating the GPC and the other instruments. Also, the medium-level VOAs are indicating that there are also heavier compounds present. Therefore, the lab would like to do the following:

BNA: The lab would extract these samples as medium-level samples.

PEST/PCB: The lab would like to extract these as medium-level samples. The samples would be extracted using the same weight as BNA medium-level samples. Since there is not a method for medium-level PEST, the Region would have to approve this.

Percent moisture should not be done on most of these samples. There is a concern that these samples will flash in the oven while drying.

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

>>> "Brown, Jessica" <Jessica.Brown@dyncorp.com> 07/17 5:36 PM >>>
This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

Following is a record of communication regarding samples that CLAYTN received for Case 30721.

7/17
5:02pm -- Phone conversation between Loren Minnich, SMO, and Mike Johnson, EPA AOC, regarding this issue. Mike requested that SMO send him the record of communication for this issue, including all contacts involved.

4:36pm -- Holly Rogers, SMO, received a voice mail from Cecilia Moore, PO Region 5. Per the Region, SMO should contact CLAYTN to determine which compounds the lab absolutely can not analyze and which compounds they are

most concerned about. SMO should also contact Terry Smith, or whoever is covering for him at Headquarters to obtain the next course of action contractually.

4:06pm -- Holly Rogers, SMO, left a voice mail for Cecilia Moore, PO Region 5, regarding the sampler's response to this issue.

2:20pm -- Phone conversation between Holly Rogers, SMO, and Brandt Brown, Tetra Tech EMI. The sampler would like to know what information the lab requires. He said that the samples are from a landfill site and he doesn't know what's in them - that's why the samples are being sent for analysis.

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, July 17, 2002 1:55 PM
To: Brandt Brown (E-mail); Eric Monschein (E-mail)
Cc: Cecilia Moore (E-mail)
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Eric and Brandt,

Following is an email from CLAYTN regarding multiple issues for samples received for Case 30721. The lab has halted analysis of these samples until more information is given regarding the samples because the lab is worried about health risks to their employees. This Case is for a 7-day TAT.

Please see the email from the lab below and advise on how the lab should proceed.

Thanks,
Holly

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Wednesday, July 17, 2002 1:54 PM
To: Karen Coonan
Cc: Rogers, Holly
Subject: Re: Case 30721

My responses are below. (Holly Rogers, SMO, has indicated the Region's comments with an asterisk * to avoid confusion)

-----Original Message-----
From: Rogers, Holly
Sent: Wednesday, July 17, 2002 1:38 PM
To: Brown, Jessica
Subject: FW: Case 30721

7/17
1:32pm -- Phone conversation with Karen Coonan, CLAYTN. The lab would like to make SMO aware of the email below. The samples for this Case are not really soil samples. The lab has numerous concerns and has, at present, halted the analysis due to noxious fumes. The lab noted these problems when they began to weigh and prep the samples.

Holly Rogers
DynCorp Systems and Solutions LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com <mailto:holly.rogers@dyncorp.com>

-----Original Message-----
From: Karen Coonan [mailto:KCoonan@claytongrp.com]
Sent: Wednesday, July 17, 2002 1:23 PM
To: Rogers, Holly
Cc: moore.cecilia@epa.gov
Subject: Case 30721

Hi Holly,

We received the second set of samples today. We have some questions and concerns regarding the samples for this case.

1. Samples that were shipped on 7/15/02 did not have a signature in the "Sampler Signature" box. There was a "Relinquished by" signature. (Samples shipped 7/16/02 did have the sampler signature.)

I believe this is a Standard Answer and you can just note the discrepancy in the narrative and proceed with analysis.

2. The Traffic Report received today indicates that the case is not complete. However, the shipping notification form indicated that the case is now closed.

Holly, please check with the sampler as to whether the case is complete or not and then have the lab proceed per the sampler's instructions.

3. Twenty-two samples have been received. These were placed into two SDGs. There were no samples designated as QC. Does the Region want the lab to choose two samples for QC? The last five samples on the TR had three jars collected for each sample (whereas all the other samples had only two jars). So two of these five samples should probably be chosen for BNA and PEST (VOA would rather choose a sample where the odor is not so strong).

Unless you hear differently from the sampler, please have the lab select QC samples.

Note: ALL twenty-two samples emitted very strong odors (solvent- or hydrocarbon-like), indicating probable matrix interference. (The odors caused three analysts to feel lightheaded and nauseous after weighing up the samples in a hood). Also, these samples are not soils. At this point the lab is holding any further analysis. We need to know where these samples came from and what they might contain. The lab is very concerned about the health risks until we have some background information about these samples.

PLEASE HAVE THE SAMPLER INDICATE THE NATURE OF THE SAMPLES AND LET THEM KNOW THAT ANALYSIS WILL BE SUSPENDED UNTIL THAT INFORMATION IS PROVIDED.

The following are physical descriptions:

E21K0: Brown solid (fine sand or filter cake-like) and paper (very noxious

odor)
E21K1: Black crystals (dissolved completely in Methanol when prepping for VOA)
E21K2: Black, thick fabric
E21K3: Thick brown sticky resin/solvent with brown solids (when prepping for PEST extractions, the Sodium sulfate was coating the outside of the sample and would not break-up)
E21K4: Hard brown-black solid pieces (slag); does not have as strong of an odor
E21K5: Black sticky tar-like (dissolved completely in Methanol when prepping for VOA, then it appeared ink-like)
E21K6: Brown solid (fine sand or filter cake-like) and paper (very noxious odor)
E21K7: Dark purple/black moist solids, like a filter cake (dissolved completely in Methanol when prepping for VOA)
E21K8: Black rocks (VOA jar also contained black crystals)
E21K9: Mixed black/white/brown moist solid (like a filter-cake) (very noxious odor)
E21L0: Concrete (no odor)
E21L1: Large shiny black chunks (like coal)
E21L2: Black oily, rocky, mud-like solid
E21L3: Tan-brown moist crumbly solids, filter cake-like (very noxious odor)
E21L4: Crumbly moist brown solids
E21L5: Grayish- pink soft rock-like
E21L6: Moist black solids and beads
E21L7: Brown moist solids (very noxious odor)
E21L8: Moist, off-white sand-like granules smells like a weed-killer (dissolved completely in Methanol when prepping for VOA)
E21L9: Black moist soil and rocks
E21M0: Black solids, soil-like
E21M1: Brown rocks and brown solids (smells like amines)

Once we know more about the samples, we have the following issues:

4. Because of the odors/matrix, the VOA lab will analyze these samples first as medium-levels. If there is nothing present, then they will go back and analyze as low-levels. For those samples that will be reported as medium-level samples, does the Region want a medium-level MS/MSD?

I need Holly to confirm this, but, I think the SOW requires a medium-level MS/MSD with any medium-level analysis. Additionally, I think the SOW requires low level be performed at no additional cost if the lab opts to analyze as medium-level without screening. I have not checked the SOW due to time, so, the final answer is to proceed per the current SOW.

5. Because of the matrix, two of the samples, E21K3 and E21K5, will cause problems when trying to go through the GPC (see descriptions above). This type of matrix will clog up the column in the GPC, which in turn will shut the instrument down. The lab would like permission to skip the GPC part of the BNA/PEST extraction for these two samples. Is that possible?

If the current SOW allows, the lab may skip the GPC.

6. Because these are bulk samples, do the results still need to be reported

on a dry-weight basis? The lab is concerned about running the percent moistures which is needed in the calculation. The samples are placed in an oven and dried over a period of time. Even if the oven is placed in a hood, the lab is concerned about the fumes - many of the odors are solvents which could ignite when heated and then there is also the health concern of the employees.

Please get a recommendation from the sampler and the lab may proceed per the sampler's recommendation as long as the sampler as provided the potential contaminants for these samples.

Please advise as soon as possible since this is a seven day case.

Thank you,

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

CC: "brownb@ttemi.com"@CGS_Inet.GWIA6; "monsche@ttemi...

From: Karen Coonan
To: Ed David
Date: Fri, Jul 19, 2002 3:33 PM
Subject: Cover Sheets for Case 30721

Ed-

Here are the cover sheets and Traffic Reports for Case 30721, SDGs E21K0 and E21M0.

All samples for this case will be analyzed as medium-level samples. Also, sample E21I) was cancelled by the Region. (Holly has the e-mail).

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

From: <Moore.Cecilia@epamail.epa.gov>
To: <kcoonan@claytongrp.com>
Date: Wed, Jul 24, 2002 7:28 AM
Subject: Re: Clayton Waiver Request

FYI

The waiver was approved.

Cecilia
----- Forwarded by Cecilia Moore/R5/USEPA/US on 07/24/02 06:27 AM -----

Thomas Valentino
07/23/02 01:54 PM
To: Cecilia Moore/R5/USEPA/US@EPA
cc: minnichl@dyncorp.com, Terry Smith/DC/USEPA/US@EPA
Subject: Re: Clayton Waiver Request(Document link: CECILIA MOORE)

cecilia, i signed this waiver this afternoon, and faxed to you, terry and sean K. - tom

Cecilia Moore
07/22/02 11:11 AM
To: Thomas Valentino/DC/USEPA/US@EPA
cc: Terry Smith/DC/USEPA/US@EPA, minnichl@dyncorp.com
Subject: Clayton Waiver Request

Tom:

Attached is the waiver request and additional documentation from Clayton for the case Mike Johnson discussed with you last week. Please let me know if you have any questions. Thanks.

Cecilia
(See attached file: cltynwvr.72202.wpd)(See attached file: 30721.doc)

From: "Rogers, Holly" <Holly.Rogers@dyncorp.com>
To: "Erica Yates (E-mail)" <eyates@claytongrp.com>, "K...
Date: Mon, Jul 29, 2002 3:34 PM
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Sample Condition | FINAL

Erica,

Below is the resolution from Region 5 regarding the matrix and pH issues for Case 30721. Per the Region, the lab should list the samples as soil samples, not waste samples. Also, the lab will have to contact their CLP PO for a waiver request for the pH issue to avoid CCS defects.

Please let me know if you have any other questions or problems.

Thanks,
Holly

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Monday, July 29, 2002 2:04 PM
To: Rogers, Holly
Cc: kcoonan@claytongrp.com
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Holly:

Please have the lab list the samples as soil and have the lab submit a waiver request for the pH issue. Thanks.

Cecilia

From: "Rogers, Holly"<Holly.Rogers@dyncorp.com>

To: Cecilia Moore/R5/USEPA/US@EPA
cc:
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

07/29/02 11:29 AM

Cecilia,

I spoke with SMO CCS regarding this issue and I was informed that the lab will have to submit a waiver request for the pH issue. Also, CCS informed me that, because of a problem with the electronic deliverable, the lab does not have the option to list "waste" as a matrix for the samples for this Case. The only options for matrix for CLP samples is soil or water.

This information can be found in the OLM04.2 SOW in exhibit H, page H-14. Please let me know how the Region would like to proceed and I will contact the lab.

Thanks,
Holly

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Monday, July 29, 2002 11:18 AM
To: Rogers, Holly
Cc: eyates@claytongrp.com; Brown, Jessica; Kcoonan@claytongrp.com
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Holly:

I sent an e-mail to Karen this morning directing her to list the samples as waste and note the pH problem in the narrative. Do I need to submit a new waiver request to have CCS defects removed for the lack of pH? Please advise. Thanks.

Cecilia

From: "Rogers, Holly"<Holly.Rogers@dyncorp.com>
To: Cecilia Moore/R5/USEPA/US@EPA, "Erica Yates (E-mail)" <eyates@claytongrp.com>, "Karen Coonan (E-mail)" <Kcoonan@claytongrp.com>
cc: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple
07/29/02 09:35 AM

Karen and Cecilia,

This is Holly Rogers. Since this Case is so complicated, Jessica asked that I follow up with the lab and the Region.

Would you please forward the Region's response to the issues below?

Thanks,
Holly

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----

From: Brown, Jessica
Sent: Monday, July 29, 2002 10:30 AM
To: Rogers, Holly
Subject: RE: Case 30721

Do you know what is going on w/this?

-----Original Message-----
From: Rogers, Holly
Sent: Friday, July 26, 2002 4:03 PM
To: Brown, Jessica; Minnich, Loren
Subject: FW: Case 30721

FYI -- This is more on Case 30721 for CLAYTN with the garbage samples. The lab sent the email to Cecilia Moore (their CLP PO).

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----
From: Karen Coonan [mailto:KCoonan@claytongrp.com]
Sent: Friday, July 26, 2002 3:45 PM
To: Rogers, Holly; moore.cecilia@epa.gov
Subject: Case 30721

Hi Cecilia,

Case 30721 is the case that was all waste samples. I was just notified by the laboratory that pH's could not be done on several of these samples. This was due to matrix - either because of the strong odors (health concerns) or due to the type of waste that the samples were (ie - tar, grease, etc.)

The samples that we were not able to do the pH's: E21K0, E21K2, E21K3, E21K5, E21K6, E21K8, E21K9, E21L3, E21L4, E21L6, E21L7, E21M1.

(pH's were done on nine samples.)

I also had a question regarding the narrative. On the first page of our narrative, we are to list each sample, the matrix and the analysis. For matrix, we have always put either aqueous or soil. For these samples should I list soil (this is what was on scheduling form) or should I list waste (since this is more the type of matrix)?

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

CC: "Cecilia Moore (E-mail)" <moore.cecilia@epa.gov>, ...

From: <Moore.Cecilia@epamail.epa.gov>
To: Karen Coonan <KCoonan@claytongrp.com>
Date: Mon, Jul 29, 2002 10:16 AM
Subject: Re: Case 30721

Karen:

List the samples as waste samples. I'll see if I can add the pH problem to your waiver.

Cecilia

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	30721
DAS No:	
SDG No:	E21K0

L

Date Shipped:	7/15/2002
Carrier Name:	FedEx
Airbill:	827673148935
Shipped to:	Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Annie Pesta	7/15/02 1930		
2		Erica Jones	7-16-02 9:52 AM
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: 68W99069

Unit Price: $ 649.00

Transfer To:

Lab Contract No:

Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21K0	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598804 (Ice Only), 598805 (Ice Only) (2)	WS-01-01	S: 7/13/2002 10:32	ME21K0	
E21K1	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598807 (Ice Only), 598808 (Ice Only) (2)	WS-01-02	S: 7/13/2002 10:32	ME21K1	
E21K2	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598810 (Ice Only), 598811 (Ice Only) (2)	WS-01-03	S: 7/13/2002 10:32	ME21K2	
E21K3	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598813 (Ice Only), 598814 (Ice Only) (2)	WS-01-04	S: 7/13/2002 14:20	ME21K3	
E21K4	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598816 (Ice Only), 598817 (Ice Only) (2)	WS-01-05	S: 7/13/2002 14:45	ME21K4	
E21K5	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598819 (Ice Only), 598820 (Ice Only) (2)	WS-01-06	S: 7/13/2002 15:10	ME21K5	
E21K6	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598822 (Ice Only), 598823 (Ice Only) (2)	WS-01-07	S: 7/13/2002 15:52	ME21K6	
E21K7	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598825 (Ice Only), 598826 (Ice Only) (2)	WS-01-08	S: 7/13/2002 16:15	ME21K7	
E21K8	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598828 (Ice Only), 598829 (Ice Only) (2)	WS-01-09	S: 7/13/2002 16:25	ME21K8	
E21K9	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598831 (Ice Only), 598832 (Ice Only) (2)	WS-02-01	S: 7/14/2002 10:15	ME21K9	

0003

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 8.5°C	Chain of Custody Seal Number: 87112/87113
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles

TR Number: 5-343595582-071402-0001

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Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	30721
DAS No:	
SDG No:	E21K0

L

Date Shipped:	7/15/2002
Carrier Name:	FedEx
Airbill:	827673148935
Shipped to:	Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Annie Pesto	7/15/02 1930		
2		Erica Yoder	7-16-02 9:50AM
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99069
Unit Price:	$649.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21L0	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598834 (Ice Only), 598835 (Ice Only) (2)	WS-02-02	S: 7/14/2002 10:57	ME21L0	

0004

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 8.5°C	Chain of Custody Seal Number: 87112/87113
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles				

TR Number: 5-343595582-071402-0001

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PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 30721
DAS No:
SDG No: E21K0

L

Date Shipped: 7/16/2002	**Chain of Custody Record**	Sampler Signature: [illegible]	**For Lab Use Only**
Carrier Name: FedEx	Relinquished By (Date / Time)	Received By (Date / Time)	Lab Contract No: 68W99069
Airbill: 827673148924	1 [illegible] 7/16/02 1300		Unit Price: $649.00
Shipped to: Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770	2	Erica [illegible] 7-17-02 10:02 am	Transfer To:
	3		Lab Contract No:
	4		Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21L1	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598837 (Ice Only), 598838 (Ice Only) (2)	WS-03-01	S:	7/14/2002	14:17	ME21L1	
E21L2	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598840 (Ice Only), 598841 (Ice Only) (2)	WS-03-02	S:	7/14/2002	14:19	ME21L2	
E21L3	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598843 (Ice Only), 598844 (Ice Only) (2)	WS-01	S:	7/13/2002	15:52	ME21L3	
						E:		15:52		
E21L4	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598846 (Ice Only), 598847 (Ice Only) (2)	H/WS-01-01	S:	7/15/2002	11:15	ME21L4	
E21L5	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598849 (Ice Only), 598850 (Ice Only) (2)	H/WS-01-02	S:	7/15/2002	11:20	ME21L5	
E21L6	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598852 (Ice Only), 598853 (Ice Only) (2)	H/WS-01-03	S:	7/15/2002	11:52	ME21L6	

0005

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 8.8°C	Chain of Custody Seal Number: 87120 87121
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles				

TR Number: 5-343595582-071602-0002

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 30721
DAS No:
SDG No: E21K0

L

Date Shipped:	7/16/2002
Carrier Name:	FedEx
Airbill:	827673148902
Shipped to:	Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770

Chain of Custody Record

Sampler Signature: Annie Pesto

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Annie Pesto	7/16/02 1300		
2		Eric Cayatey	7-17-02 10:02am
3			
4			

For Lab Use Only

Lab Contract No: 68W99069
Unit Price: $649.00
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION		SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21L7	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598855 (Ice Only), 598856 (Ice Only), 598857 (Ice Only) (3)	H/WS-01-04	S:	7/15/2002	14:10	ME21L7	
E21L8	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598859 (Ice Only), 598860 (Ice Only), 598861 (Ice Only) (3)	H/WS-01-05	S:	7/15/2002	14:25	ME21L8	
* E21L9	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598863 (Ice Only), 598864 (Ice Only), 598865 (Ice Only) (3)	H/WS-02-06	S:	7/15/2002	15:32	ME21L9	
E21M0	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598867 (Ice Only), 598868 (Ice Only), 598869 (Ice Only) (3)	H/WS-02-07	S:	7/15/2002	15:32	ME21M0	
E21M1	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598871 (Ice Only), 598872 (Ice Only), 598873 (Ice Only) (3)	H/WS-02-08	S:	7/15/2002	15:32	ME21M1	

0006

Last sample in SDG E 7-17-02

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.0°C	Chain of Custody Seal Number: 87124/87125
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number: 5-343595582-071602-0004

LABORATORY COPY

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Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKKC	100	94	100		0
02	E21K0	92	92	100		0
03	E21K1	106	97	98		0
04	E21K2	92	92	92		0
05	E21K3	92	92	92		0
06	E21K4	90	84	79		0
07	E21K5	90	86	78		0
08	VBLKKD	108	98	113		0
09	E21K6	100	100	115		0
10	E21K9	100	100	115		0
11	E21L6	108	100	115		0
12	VBLKKH	94	98	103		0
13	E21K6DL	94	95	105		0
14	E21K8	95	105	97		0
15	VIBLKKA	95	100	98		0
16	E21L2	100	104	100		0
17	E21L1	94	98	102		0
18	E21L3	92	100	100		0
19	E21L4	100	100	108		0
20	E21L5	96	100	108		0
21	E21L6DL	94	100	102		0
22	E21L7	92	108	100		0
23	E21L8	92	85	77		0
24	VBLKKI	103	110	110		0
25	E21L9	108	112	116		0
26	E21K7	105	111	121		0
27	E21K8DL	100	112	116		0
28	VBLKKJ	98	94	97		0
29	E21L2MS	100	100	100		0

			QC Limit
SMC1	(TOL)	= Toluene-d8	(84-138)
SMC2	(BFB)	= Bromofluorobenzene	(59-113)
SMC3	(DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
31	VIBLKKB	102	97	103		0
32	E21L2MSD	100	96	108		0
33	VHBLKKA	98	92	102		0

			QC Limit
SMC1	(TOL)	= Toluene-d8	(84-138)
SMC2	(BFB)	= Bromofluorobenzene	(59-113)
SMC3	(DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix Spike - EPA Sample No.: E21L2 Level:(low/med) MED

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	25000	0	27000	108	59-172
Trichloroethene	25000	0	25000	100	62-137
Benzene	25000	1700	29000	109	66-142
Toluene	25000	0	29000	116	59-139
Chlorobenzene	25000	63000	110000	188*	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25000	30000	120	11	22	59-172
Trichloroethene	25000	25000	100	0	24	62-137
Benzene	25000	29000	109	0	21	66-142
Toluene	25000	28000	112	4	21	59-139
Chlorobenzene	25000	110000	188*	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

FORM III VOA-2 OLM04.2

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKC

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6702.D Lab Sample ID: 02070399-013A

Date Analyzed: 07/17/02 Time Analyzed: 12:37

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21K0	02070399-001A	K6704.D	14:28
02	E21K1	02070399-002A	K6705.D	15:07
03	E21K2	02070399-003A	K6706.D	15:48
04	E21K3	02070399-004A	K6707.D	16:23
05	E21K4	02070399-005A	K6710.D	18:28
06	E21K5	02070399-006A	K6711.D	19:02

COMMENTS: _____

_____

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6715.D Lab Sample ID: 02070399-013B

Date Analyzed: 07/17/02 Time Analyzed: 21:36

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21K6	02070399-007A	K6717.D	22:45
02	E21K9	02070399-010A	K6720.D	00:26
03	E21L6	02070399-021A	K6725.D	03:13

07-30-02

COMMENTS: _____

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FORM IV VOA OLM04.2

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKH

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6736.D Lab Sample ID: 02070399-013C

Date Analyzed: 07/18/02 Time Analyzed: 10:52

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21K6DL	02070399-007A	K6737.D	11:32
02	E21K8	02070399-009A	K6738.D	12:05
03	VIBLKKA	02070399-025A	K6741.D	14:39
04	E21L2	02070399-017A	K6742.D	15:33
05	E21L1	02070399-016A	K6743.D	16:07
06	E21L3	02070399-018A	K6744.D	16:42
07	E21L4	02070399-019A	K6745.D	17:17
08	E21L5	02070399-020A	K6746.D	17:52
09	E21L6DL	02070399-021A	K6747.D	18:31
10	E21L7	02070399-022A	K6748.D	19:08
11	E21L8	02070399-023A	K6749.D	19:41

COMMENTS: _____

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FORM IV VOA OLM04.2

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKI

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6755.D Lab Sample ID: 02070399-013D

Date Analyzed: 07/19/02 Time Analyzed: 09:26 07-30-02PL

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21L9	02070399-024A	K6756.D	10:03
02	E21K7	02070399-008A	K6757.D	10:40
03	E21K8DL	02070399-009A	K6758.D	11:13
04	E21K7RE	02070399-008A	K6759.D	11:46

COMMENTS: _____

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKJ

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6765.D Lab Sample ID: 02070399-013E

Date Analyzed: 07/19/02 Time Analyzed: 15:43

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21L2MS	02070399-017C	K6770.D	18:34
02	VIBLKKB	02070399-025B	K6772.D	19:43
03	E21L2MSD	02070399-017D	K6773.D	20:21
04	VHBLKKA	02070399-012A	K6777.D	23:01

COMMENTS: _____

_____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6704.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	25000 ~~12000~~	~~J~~ B
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	5700	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	4200	J
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	35000	
107-06-2	1,2-Dichloroethane	25000	U

8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6704.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	3900	J
108-87-2	Methylcyclohexane	5900	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	110000	
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	6800	J
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	110000	
100-41-4	Ethylbenzene	100000	
1330-20-7	Xylene (total)	280000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	30000	
95-50-1	1,2-Dichlorobenzene	14000	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	96000	

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6704.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 6 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-83-8	Cyclohexene	9.97	170000	NJ
2. 000095-51-2	Benzenamine, 2-chloro-	20.55	16000	NJ
3. 000614-72-2	Benzene, 1-chloro-2-ethoxy-	20.62	35000	NJ
4. 000108-70-3	Benzene, 1,3,5-trichloro-	21.61	29000	NJ
5. 000088-73-3	2-Chloronitrobenzene	22.93	25000	NJ
6. 000634-90-2	Benzene, 1,2,3,5-tetrachloro-	23.45	38000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6705.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13000	U
74-87-3	Chloromethane	13000	U
75-01-4	Vinyl Chloride	13000	U
74-83-9	Bromomethane	13000	U
75-00-3	Chloroethane	13000	U
75-69-4	Trichlorofluoromethane	13000	U
75-35-4	1,1-Dichloroethene	13000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13000	U
67-64-1	Acetone	~~4400~~ 13000	~~J~~ B
75-15-0	Carbon Disulfide	13000	U
79-20-9	Methyl Acetate	13000	U
75-09-2	Methylene Chloride	3500	J
156-60-5	trans-1,2-Dichloroethene	13000	U
1634-04-4	Methyl tert-Butyl Ether	13000	U
75-34-3	1,1-Dichloroethane	13000	U
156-59-2	cis-1,2-Dichloroethene	13000	U
78-93-3	2-Butanone	13000	U
67-66-3	Chloroform	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
110-82-7	Cyclohexane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
71-43-2	Benzene	13000	U
107-06-2	1,2-Dichloroethane	13000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6705.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	13000	U
108-87-2	Methylcyclohexane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
75-27-4	Bromodichloromethane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
108-10-1	4-Methyl-2-pentanone	13000	U
108-88-3	Toluene	2000	J
10061-02-6	trans-1,3-Dichloropropene	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
127-18-4	Tetrachloroethene	13000	U
591-78-6	2-Hexanone	13000	U
124-48-1	Dibromochloromethane	13000	U
106-93-4	1,2-Dibromoethane	13000	U
108-90-7	Chlorobenzene	31000	
100-41-4	Ethylbenzene	13000	U
1330-20-7	Xylene (total)	13000	U
100-42-5	Styrene	13000	U
75-25-2	Bromoform	13000	U
98-82-8	Isopropylbenzene	13000	U
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	3000	J
95-50-1	1,2-Dichlorobenzene	3100	J
96-12-8	1,2-Dibromo-3-chloropropane	13000	U
120-82-1	1,2,4-Trichlorobenzene	6800	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6705.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 10 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (4.99)	4.99	9300	J
2. 000110-83-8	Cyclohexene	9.96	12000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6706.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~10000~~ 25000	~~J~~B U
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	6100	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	25000	U
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	12000	J
107-06-2	1,2-Dichloroethane	25000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6706.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	25000	U
108-87-2	Methylcyclohexane	2600	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	59000	
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	4600	J
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	180000	
100-41-4	Ethylbenzene	66000	
1330-20-7	Xylene (total)	250000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	11000	J
95-50-1	1,2-Dichlorobenzene	4700	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	19000	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6706.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 19 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-83-8	Cyclohexene	9.97	62000	NJ
2. 000611-14-3	Benzene, 1-ethyl-2-methyl- (16.	16.39	45000	NJ
3. 000095-63-6	Benzene, 1,2,4-trimethyl-	16.53	22000	NJ
4. 000611-14-3	Benzene, 1-ethyl-2-methyl- (16.	16.86	23000	NJ
5. 000526-73-8	Benzene, 1,2,3-trimethyl-	17.12	79000	NJ
6.	Unknown (17.37)	17.37	20000	J
7.	Unknown (17.45)	17.45	14000	J
8. 001074-43-7	Benzene, 1-methyl-3-propyl-	18.04	21000	NJ
9.	Unknown (18.13)	18.13	110000	J
10. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	18.62	52000	NJ
11. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	18.72	51000	NJ
12.	Unknown (18.97)	18.97	46000	J
13. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	19.23	32000	NJ
14. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.37	35000	NJ
15. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.45	65000	NJ
16.	Unknown (19.89)	19.89	31000	J
17. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	20.11	76000	NJ
18.	Unknown (20.62)	20.62	39000	J
19. 000095-15-8	Benzo(b)thiophene	21.44	23000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6707.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	2600	J
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~9400~~ 25000	~~J~~ B 8/6/02
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	5600	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	25000	U
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	25000	U
107-06-2	1,2-Dichloroethane	25000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6707.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	4000	J
108-87-2	Methylcyclohexane	25000	U
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	25000	U
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	25000	U
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	25000	U
100-41-4	Ethylbenzene	17000	J
1330-20-7	Xylene (total)	390000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	23000	J
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	25000	U
95-50-1	1,2-Dichlorobenzene	25000	U
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	25000	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6707.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 27 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000620-14-4	Benzene, 1-ethyl-3-methyl-	16.39	190000	NJ
2. 000095-63-6	Benzene, 1,2,4-trimethyl-	16.53	200000	NJ
3. 000108-67-8	Benzene, 1,3,5-trimethyl-	17.12	850000	NJ
4. 000526-73-8	Benzene, 1,2,3-trimethyl-	17.78	390000	NJ
5. 001074-43-7	Benzene, 1-methyl-3-propyl-	18.05	850000	NJ
6. 000141-93-5	Benzene, 1,3-diethyl-	18.13	1800000	NJ
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	18.45	470000	NJ
8. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	18.57	940000	NJ
9. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	18.72	1600000	NJ
10.	Unknown (18.9)	18.90	760000	J
11.	Unknown (19.02)	19.02	250000	J
12. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	19.23	730000	NJ
13. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.37	1600000	NJ
14. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.44	4200000	NJ
15.	Unknown (19.77)	19.77	640000	J
16. 000824-22-6	1H-Indene, 2,3-dihydro-4-methyl	19.89	1100000	NJ
17.	Unknown (19.96)	19.96	680000	J
18. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	20.12	2400000	NJ
19.	Unknown (20.47)	20.47	350000	J
20. 025550-13-4	Benzene, diethylmethyl-	20.64	2100000	NJ
21. 017851-27-3	Benzene, 1-ethyl-2,4,5-trimethy	20.83	1100000	NJ
22. 004218-48-8	Benzene, 1-ethyl-4-(1-methyleth	21.09	230000	NJ
23. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	21.72	400000	NJ
24.	Unknown (21.91)	21.91	160000	J
25. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	22.03	220000	NJ
26. 000700-12-9	Benzene, pentamethyl-	22.24	490000	NJ
27. 001075-22-5	Indan, 5,6-dimethyl-	22.40	160000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6710.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	440	J
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	160	J
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	190	J
67-64-1	Acetone	~~190~~ 1300	~~J~~ B U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	510	J
75-09-2	Methylene Chloride	150	J
156-60-5	trans-1,2-Dichloroethene	170	J
1634-04-4	Methyl tert-Butyl Ether	260	J
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	2100	
78-93-3	2-Butanone	280	J
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	490	J
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6710.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	7500	
108-87-2	Methylcyclohexane	590	J
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	140	J
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	150	J
127-18-4	Tetrachloroethene	360	J
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	160	J
106-93-4	1,2-Dibromoethane	1100	J
108-90-7	Chlorobenzene	200	J
100-41-4	Ethylbenzene	160	J
1330-20-7	Xylene (total)	490	J
100-42-5	Styrene	170	J
75-25-2	Bromoform	190	J
98-82-8	Isopropylbenzene	840	J
79-34-5	1,1,2,2-Tetrachloroethane	170	J
541-73-1	1,3-Dichlorobenzene	1300	
106-46-7	1,4-Dichlorobenzene	1400	
95-50-1	1,2-Dichlorobenzene	1200	J
96-12-8	1,2-Dibromo-3-chloropropane	1200	J
120-82-1	1,2,4-Trichlorobenzene	1200	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6710.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.02)	5.02	680	J
2. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	19.35	860	NJ
3.	Unknown (19.42)	19.42	650	J
4.	unknown (20.1)	20.10	1200	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6711.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13000	U
74-87-3	Chloromethane	13000	U
75-01-4	Vinyl Chloride	13000	U
74-83-9	Bromomethane	13000	U
75-00-3	Chloroethane	13000	U
75-69-4	Trichlorofluoromethane	13000	U
75-35-4	1,1-Dichloroethene	13000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13000	U
67-64-1	Acetone	~~2100~~ 13000	~~J~~BU
75-15-0	Carbon Disulfide	13000	U
79-20-9	Methyl Acetate	13000	U
75-09-2	Methylene Chloride	13000	U
156-60-5	trans-1,2-Dichloroethene	13000	U
1634-04-4	Methyl tert-Butyl Ether	13000	U
75-34-3	1,1-Dichloroethane	13000	U
156-59-2	cis-1,2-Dichloroethene	1500	J
78-93-3	2-Butanone	13000	U
67-66-3	Chloroform	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
110-82-7	Cyclohexane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
71-43-2	Benzene	13000	U
107-06-2	1,2-Dichloroethane	13000	U

JT 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6711.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	2700	J
108-87-2	Methylcyclohexane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
75-27-4	Bromodichloromethane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
108-10-1	4-Methyl-2-pentanone	13000	U
108-88-3	Toluene	13000	U
10061-02-6	trans-1,3-Dichloropropene	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
127-18-4	Tetrachloroethene	13000	U
591-78-6	2-Hexanone	13000	U
124-48-1	Dibromochloromethane	13000	U
106-93-4	1,2-Dibromoethane	13000	U
108-90-7	Chlorobenzene	13000	U
100-41-4	Ethylbenzene	13000	U
1330-20-7	Xylene (total)	13000	U
100-42-5	Styrene	13000	U
75-25-2	Bromoform	13000	U
98-82-8	Isopropylbenzene	13000	U
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	13000	U
95-50-1	1,2-Dichlorobenzene	13000	U
96-12-8	1,2-Dibromo-3-chloropropane	13000	U
120-82-1	1,2,4-Trichlorobenzene	1700	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6711.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 10 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.03)	5.03	11000	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6717.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 1 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	36000	
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	2900	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~4700~~ 25000	~~B~~ U
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	25000	U
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	3000	J
156-59-2	cis-1,2-Dichloroethene	160000	
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	8100	J
110-82-7	Cyclohexane	5800	J
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	110000	
107-06-2	1,2-Dichloroethane	25000	U

8/14/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6717.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 1 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	27000	
108-87-2	Methylcyclohexane	5400	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	260000	
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	120000	
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	1100000	E
100-41-4	Ethylbenzene	12000	J
1330-20-7	Xylene (total)	34000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	30000	
95-50-1	1,2-Dichlorobenzene	24000	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	~~3600~~ 25000	~~B~~ U

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8/6/02

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6717.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 1 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (4.74)	4.74	13000	~~BJ~~ U ST
2. 000110-83-8	Cyclohexene	9.97	1200000	NJ
3.	unknown (23.1)	23.10	64000	J 8/6/02

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6710.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	440	J
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	160	J
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	190	J
67-64-1	Acetone	~~190~~ 1300	~~J~~ B U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	510	J
75-09-2	Methylene Chloride	150	J
156-60-5	trans-1,2-Dichloroethene	170	J
1634-04-4	Methyl tert-Butyl Ether	260	J
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	2100	
78-93-3	2-Butanone	280	J
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	490	J
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

ST 8/16/02

From: Karen Coonan
To: "Jessica.Brown@dyncorp.com"@CGS_Inet.GWIA6; "John...
Date: Thu, Jul 18, 2002 11:10 AM
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Hi Holly,

Because these are waste samples, not soil or sediment samples, this is how the lab would like to proceed (since waste samples are not covered in the SOW):

Volatiles: All samples were prepared as medium-level samples. Analysis has already started for these, since the samples had already been prepped before we "stopped all work". The analysts are finding that many samples have to be done with further dilutions (possibly 1000 times or greater). All samples will be done as medium-levels. They are finding forms of Chlorobenzene (possibly what you might find in pesticides). The analysts feel, though, that what they are seeing does not account for the strong odors that are present in the samples (ie, the odors could be from heavier compounds that will be found during the BNA and PEST analysis).

Since these are waste samples, the lab is concerned about contaminating the GPC and the other instruments. Also, the medium-level VOAs are indicating that there are also heavier compounds present. Therefore, the lab would like to do the following:

BNA: The lab would extract these samples as medium-level samples.

PEST/PCB: The lab would like to extract these as medium-level samples. The samples would be extracted using the same weight as BNA medium-level samples. Since there is not a method for medium-level PEST, the Region would have to approve this.

Percent moisture should not be done on most of these samples. There is a concern that these samples will flash in the oven while drying.

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

>>> "Brown, Jessica" <Jessica.Brown@dyncorp.com> 07/17 5:36 PM >>>
This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

Following is a record of communication regarding samples that CLAYTN received for Case 30721.

7/17
5:02pm -- Phone conversation between Loren Minnich, SMO, and Mike Johnson, EPA AOC, regarding this issue. Mike requested that SMO send him the record of communication for this issue, including all contacts involved.

4:36pm -- Holly Rogers, SMO, received a voice mail from Cecilia Moore, PO Region 5. Per the Region, SMO should contact CLAYTN to determine which compounds the lab absolutely can not analyze and which compounds they are

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6715.D Lab Sample ID: 02070399-013B

Date Analyzed: 07/17/02 Time Analyzed: 21:36

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21K6	02070399-007A	K6717.D	22:45
02	E21K9	02070399-010A	K6720.D	00:26
03	E21L6	02070399-021A	K6725.D	03:13

07-30-02

COMMENTS: _____

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FORM IV VOA OLM04.2

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
31	VIBLKKB	102	97	103		0
32	E21L2MSD	100	96	108		0
33	VHBLKKA	98	92	102		0

			QC Limit
SMC1	(TOL)	= Toluene-d8	(84-138)
SMC2	(BFB)	= Bromofluorobenzene	(59-113)
SMC3	(DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix Spike - EPA Sample No.: E21L2 Level:(low/med) MED

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	25000	0	27000	108	59-172
Trichloroethene	25000	0	25000	100	62-137
Benzene	25000	1700	29000	109	66-142
Toluene	25000	0	29000	116	59-139
Chlorobenzene	25000	63000	110000	188*	60-133

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25000	30000	120	11	22	59-172
Trichloroethene	25000	25000	100	0	24	62-137
Benzene	25000	29000	109	0	21	66-142
Toluene	25000	28000	112	4	21	59-139
Chlorobenzene	25000	110000	188*	0	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

FORM III VOA-2 OLM04.2

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKC

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6702.D Lab Sample ID: 02070399-013A

Date Analyzed: 07/17/02 Time Analyzed: 12:37

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21K0	02070399-001A	K6704.D	14:28
02	E21K1	02070399-002A	K6705.D	15:07
03	E21K2	02070399-003A	K6706.D	15:48
04	E21K3	02070399-004A	K6707.D	16:23
05	E21K4	02070399-005A	K6710.D	18:28
06	E21K5	02070399-006A	K6711.D	19:02

COMMENTS: _____

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FORM IV VOA OLM04.2

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKH

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6736.D Lab Sample ID: 02070399-013C

Date Analyzed: 07/18/02 Time Analyzed: 10:52

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21K6DL	02070399-007A	K6737.D	11:32
02	E21K8	02070399-009A	K6738.D	12:05
03	VIBLKKA	02070399-025A	K6741.D	14:39
04	E21L2	02070399-017A	K6742.D	15:33
05	E21L1	02070399-016A	K6743.D	16:07
06	E21L3	02070399-018A	K6744.D	16:42
07	E21L4	02070399-019A	K6745.D	17:17
08	E21L5	02070399-020A	K6746.D	17:52
09	E21L6DL	02070399-021A	K6747.D	18:31
10	E21L7	02070399-022A	K6748.D	19:08
11	E21L8	02070399-023A	K6749.D	19:41

COMMENTS: _____

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FORM IV VOA OLM04.2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6704.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	25000 ~~12000~~	~~JB~~ M
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	5700	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	4200	J
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	35000	
107-06-2	1,2-Dichloroethane	25000	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6704.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	3900	J
108-87-2	Methylcyclohexane	5900	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	110000	
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	6800	J
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	110000	
100-41-4	Ethylbenzene	100000	
1330-20-7	Xylene (total)	280000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	30000	
95-50-1	1,2-Dichlorobenzene	14000	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	96000	

1F

EPA SAMPLE NO.

E21K0

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6704.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 6 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-83-8	Cyclohexene	9.97	170000	NJ
2. 000095-51-2	Benzenamine, 2-chloro-	20.55	16000	NJ
3. 000614-72-2	Benzene, 1-chloro-2-ethoxy-	20.62	35000	NJ
4. 000108-70-3	Benzene, 1,3,5-trichloro-	21.61	29000	NJ
5. 000088-73-3	2-Chloronitrobenzene	22.93	25000	NJ
6. 000634-90-2	Benzene, 1,2,3,5-tetrachloro-	23.45	38000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6705.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13000	U
74-87-3	Chloromethane	13000	U
75-01-4	Vinyl Chloride	13000	U
74-83-9	Bromomethane	13000	U
75-00-3	Chloroethane	13000	U
75-69-4	Trichlorofluoromethane	13000	U
75-35-4	1,1-Dichloroethene	13000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13000	U
67-64-1	Acetone	~~1400~~ 13000	~~J~~ B4
75-15-0	Carbon Disulfide	13000	U
79-20-9	Methyl Acetate	13000	U
75-09-2	Methylene Chloride	3500	J
156-60-5	trans-1,2-Dichloroethene	13000	U
1634-04-4	Methyl tert-Butyl Ether	13000	U
75-34-3	1,1-Dichloroethane	13000	U
156-59-2	cis-1,2-Dichloroethene	13000	U
78-93-3	2-Butanone	13000	U
67-66-3	Chloroform	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
110-82-7	Cyclohexane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
71-43-2	Benzene	13000	U
107-06-2	1,2-Dichloroethane	13000	U

SC 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6705.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	13000	U
108-87-2	Methylcyclohexane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
75-27-4	Bromodichloromethane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
108-10-1	4-Methyl-2-pentanone	13000	U
108-88-3	Toluene	2000	J
10061-02-6	trans-1,3-Dichloropropene	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
127-18-4	Tetrachloroethene	13000	U
591-78-6	2-Hexanone	13000	U
124-48-1	Dibromochloromethane	13000	U
106-93-4	1,2-Dibromoethane	13000	U
108-90-7	Chlorobenzene	31000	
100-41-4	Ethylbenzene	13000	U
1330-20-7	Xylene (total)	13000	U
100-42-5	Styrene	13000	U
75-25-2	Bromoform	13000	U
98-82-8	Isopropylbenzene	13000	U
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	3000	J
95-50-1	1,2-Dichlorobenzene	3100	J
96-12-8	1,2-Dibromo-3-chloropropane	13000	U
120-82-1	1,2,4-Trichlorobenzene	6800	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6705.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 10 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (4.99)	4.99	9300	J
2. 000110-83-8	Cyclohexene	9.96	12000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6706.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~10000~~ 25000	~~J~~BU
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	6100	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	25000	U
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	12000	J
107-06-2	1,2-Dichloroethane	25000	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6706.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	25000	U
108-87-2	Methylcyclohexane	2600	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	59000	
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	4600	J
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	180000	
100-41-4	Ethylbenzene	66000	
1330-20-7	Xylene (total)	250000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	11000	J
95-50-1	1,2-Dichlorobenzene	4700	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	19000	J

1F

EPA SAMPLE NO.

E21K2

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6706.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

Number TICs found: 19

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-83-8	Cyclohexene	9.97	62000	NJ
2. 000611-14-3	Benzene, 1-ethyl-2-methyl- (16.	16.39	45000	NJ
3. 000095-63-6	Benzene, 1,2,4-trimethyl-	16.53	22000	NJ
4. 000611-14-3	Benzene, 1-ethyl-2-methyl- (16.	16.86	23000	NJ
5. 000526-73-8	Benzene, 1,2,3-trimethyl-	17.12	79000	NJ
6.	Unknown (17.37)	17.37	20000	J
7.	Unknown (17.45)	17.45	14000	J
8. 001074-43-7	Benzene, 1-methyl-3-propyl-	18.04	21000	NJ
9.	Unknown (18.13)	18.13	110000	J
10. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	18.62	52000	NJ
11. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	18.72	51000	NJ
12.	Unknown (18.97)	18.97	46000	J
13. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	19.23	32000	NJ
14. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.37	35000	NJ
15. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.45	65000	NJ
16.	Unknown (19.89)	19.89	31000	J
17. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	20.11	76000	NJ
18.	Unknown (20.62)	20.62	39000	J
19. 000095-15-8	Benzo(b)thiophene	21.44	23000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6707.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	2600	J
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~9400~~ 25000	~~J~~ B U 8/6/02
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	5600	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	25000	U
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	25000	U
107-06-2	1,2-Dichloroethane	25000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6707.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	4000	J
108-87-2	Methylcyclohexane	25000	U
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	25000	U
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	25000	U
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	25000	U
100-41-4	Ethylbenzene	17000	J
1330-20-7	Xylene (total)	390000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	23000	J
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	25000	U
95-50-1	1,2-Dichlorobenzene	25000	U
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	25000	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6707.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 27 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000620-14-4	Benzene, 1-ethyl-3-methyl-	16.39	190000	NJ
2. 000095-63-6	Benzene, 1,2,4-trimethyl-	16.53	200000	NJ
3. 000108-67-8	Benzene, 1,3,5-trimethyl-	17.12	850000	NJ
4. 000526-73-8	Benzene, 1,2,3-trimethyl-	17.78	390000	NJ
5. 001074-43-7	Benzene, 1-methyl-3-propyl-	18.05	850000	NJ
6. 000141-93-5	Benzene, 1,3-diethyl-	18.13	1800000	NJ
7. 001074-17-5	Benzene, 1-methyl-2-propyl-	18.45	470000	NJ
8. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	18.57	940000	NJ
9. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	18.72	1600000	NJ
10.	Unknown (18.9)	18.90	760000	J
11.	Unknown (19.02)	19.02	250000	J
12. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	19.23	730000	NJ
13. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.37	1600000	NJ
14. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.44	4200000	NJ
15.	Unknown (19.77)	19.77	640000	J
16. 000824-22-6	1H-Indene, 2,3-dihydro-4-methyl	19.89	1100000	NJ
17.	Unknown (19.96)	19.96	680000	J
18. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	20.12	2400000	NJ
19.	Unknown (20.47)	20.47	350000	J
20. 025550-13-4	Benzene, diethylmethyl-	20.64	2100000	NJ
21. 017851-27-3	Benzene, 1-ethyl-2,4,5-trimethy	20.83	1100000	NJ
22. 004218-48-8	Benzene, 1-ethyl-4-(1-methyleth	21.09	230000	NJ
23. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	21.72	400000	NJ
24.	Unknown (21.91)	21.91	160000	J
25. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	22.03	220000	NJ
26. 000700-12-9	Benzene, pentamethyl-	22.24	490000	NJ
27. 001075-22-5	Indan, 5,6-dimethyl-	22.40	160000	NJ

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKKI

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6755.D Lab Sample ID: 02070399-013D

Date Analyzed: 07/19/02 Time Analyzed: 09:26 07-30-02

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21L9	02070399-024A	K6756.D	10:03
02	E21K7	02070399-008A	K6757.D	10:40
03	E21K8DL	02070399-009A	K6758.D	11:13
04	E21K7RE	02070399-008A	K6759.D	11:46

COMMENTS: _____

_____

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLKKJ

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Lab File ID: K6765.D Lab Sample ID: 02070399-013E

Date Analyzed: 07/19/02 Time Analyzed: 15:43

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MS HP11K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E21L2MS	02070399-017C	K6770.D	18:34
02	VIBLKKB	02070399-025B	K6772.D	19:43
03	E21L2MSD	02070399-017D	K6773.D	20:21
04	VHBLKKA	02070399-012A	K6777.D	23:01

COMMENTS:

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6710.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	7500	
108-87-2	Methylcyclohexane	590	J
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	140	J
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	150	J
127-18-4	Tetrachloroethene	360	J
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	160	J
106-93-4	1,2-Dibromoethane	1100	J
108-90-7	Chlorobenzene	200	J
100-41-4	Ethylbenzene	160	J
1330-20-7	Xylene (total)	490	J
100-42-5	Styrene	170	J
75-25-2	Bromoform	190	J
98-82-8	Isopropylbenzene	840	J
79-34-5	1,1,2,2-Tetrachloroethane	170	J
541-73-1	1,3-Dichlorobenzene	1300	
106-46-7	1,4-Dichlorobenzene	1400	
95-50-1	1,2-Dichlorobenzene	1200	J
96-12-8	1,2-Dibromo-3-chloropropane	1200	J
120-82-1	1,2,4-Trichlorobenzene	1200	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6710.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.02)	5.02	680	J
2. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	19.35	860	NJ
3.	Unknown (19.42)	19.42	650	J
4.	unknown (20.1)	20.10	1200	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6711.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13000	U
74-87-3	Chloromethane	13000	U
75-01-4	Vinyl Chloride	13000	U
74-83-9	Bromomethane	13000	U
75-00-3	Chloroethane	13000	U
75-69-4	Trichlorofluoromethane	13000	U
75-35-4	1,1-Dichloroethene	13000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13000	U
67-64-1	Acetone	~~2200~~ 13000	~~J~~BU
75-15-0	Carbon Disulfide	13000	U
79-20-9	Methyl Acetate	13000	U
75-09-2	Methylene Chloride	13000	U
156-60-5	trans-1,2-Dichloroethene	13000	U
1634-04-4	Methyl tert-Butyl Ether	13000	U
75-34-3	1,1-Dichloroethane	13000	U
156-59-2	cis-1,2-Dichloroethene	1500	J
78-93-3	2-Butanone	13000	U
67-66-3	Chloroform	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
110-82-7	Cyclohexane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
71-43-2	Benzene	13000	U
107-06-2	1,2-Dichloroethane	13000	U

ST 8/16/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6711.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	2700	J
108-87-2	Methylcyclohexane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
75-27-4	Bromodichloromethane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
108-10-1	4-Methyl-2-pentanone	13000	U
108-88-3	Toluene	13000	U
10061-02-6	trans-1,3-Dichloropropene	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
127-18-4	Tetrachloroethene	13000	U
591-78-6	2-Hexanone	13000	U
124-48-1	Dibromochloromethane	13000	U
106-93-4	1,2-Dibromoethane	13000	U
108-90-7	Chlorobenzene	13000	U
100-41-4	Ethylbenzene	13000	U
1330-20-7	Xylene (total)	13000	U
100-42-5	Styrene	13000	U
75-25-2	Bromoform	13000	U
98-82-8	Isopropylbenzene	13000	U
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
541-73-1	1,3-Dichlorobenzene	13000	U
106-46-7	1,4-Dichlorobenzene	13000	U
95-50-1	1,2-Dichlorobenzene	13000	U
96-12-8	1,2-Dibromo-3-chloropropane	13000	U
120-82-1	1,2,4-Trichlorobenzene	1700	J

1F

EPA SAMPLE NO.

E21K5

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6711.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 10 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (5.03)	5.03	11000	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6717.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 1 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	36000	
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	2900	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~4700~~ 25000	~~B~~ U
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	25000	U
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	3000	J
156-59-2	cis-1,2-Dichloroethene	160000	
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	8100	J
110-82-7	Cyclohexane	5800	J
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	110000	
107-06-2	1,2-Dichloroethane	25000	U

8/14/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6717.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 1 (µL)

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	27000	
108-87-2	Methylcyclohexane	5400	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	260000	
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	120000	
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	1100000	E
100-41-4	Ethylbenzene	12000	J
1330-20-7	Xylene (total)	34000	
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	30000	
95-50-1	1,2-Dichlorobenzene	24000	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	~~3600~~ 25000	~~B~~ U

5
8/6/02

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6717.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 1 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (4.74)	4.74	13000	~~BJ~~ U
2. 000110-83-8	Cyclohexene	9.97	1200000	NJ
3.	unknown (23.1)	23.10	64000	J

ST

8/16/02

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site SAUGET SITES H & I
Lab CLAYTON
Reviewer S. Tobin
Date 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number	E21K3		E21K3DL		E21K4		E21K5		E21K6	
Sampling Location	WS-01-04		WS-01-04		WS-01-05		WS-01-06		WS-01-07	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled	14:20		14:20		14:45		15:10		15:52	
%Moisture	0		0		0		0		0	
pH	0.0		0.0		6.4		0.0		0.0	
Dilution Factor	20.0		50.0		1.0		20.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	200000	U	500000	U	5000	U	300000	U	50000	U
Phenol	15000	J	500000	U	5000	U	300000	U	50000	U
bis-(2-Chloroethyl) ether	200000	U	500000	U	5000	U	300000	U	50000	U
2-Chlorophenol	200000	U	500000	U	5000	U	300000	U	50000	U
2-Methylphenol	11000	J	500000	U	5000	U	300000	U	50000	U
2,2'-oxybis(1-Chloropropane)	200000	UJ	500000	UJ	5000	UJ	300000	UJ	50000	UJ
Acetophenone	58000	J	64000	J	5000	U	300000	U	50000	U
4-Methylphenol	21000	J	500000	U	5000	U	300000	U	50000	U
N-Nitroso-di-n-propylamine	200000	U	500000	U	5000	U	300000	U	50000	U
Hexachloroethane	200000	U	500000	U	5000	U	300000	U	50000	U
Nitrobenzene	200000	U	500000	U	5000	U	300000	U	50000	U
Isophorone	200000	U	500000	U	5000	U	300000	U	50000	U
2-Nitrophenol	200000	U	500000	U	5000	U	300000	U	50000	U
2,4-Dimethylphenol	200000	U	500000	U	5000	U	300000	U	50000	U
bis(2-Chloroethoxy)methane	200000	U	500000	U	5000	U	300000	U	50000	U
2,4-Dichlorophenol	200000	U	500000	U	5000	U	300000	U	3200	J
Naphthalene	3400000		3500000		5000	U	300000	U	24000	J
4-Chloroaniline	200000	U	500000	U	5000	U	100000	J	290000	
Hexachlorobutadiene	200000	U	500000	U	5000	U	300000	U	50000	U
Caprolactam	200000	U	500000	U	5000	U	300000	U	50000	U
4-Chloro-3-methylphenol	200000	U	500000	U	5000	U	300000	U	50000	U
2-Methylnaphthalene	640000		590000		5000	U	300000	U	4900	J
Hexachlorocyclopentadiene	200000	UJ	500000	UJ	5000	U	300000	U	50000	UJ
2,4,6-Trichlorophenol	200000	U	500000	U	5000	U	300000	U	50000	U
2,4,5-Trichlorophenol	500000	U	1200000	U	12000	U	750000	U	120000	U
1,1'-Biphenyl	200000	U	500000	U	5000	U	300000	U	50000	U
2-Chloronaphthalene	200000	U	500000	U	5000	U	300000	U	50000	U
2-Nitroaniline	500000	U	1200000	U	12000	UJ	750000	UJ	120000	U
Dimethylphthalate	200000	U	500000	U	5000	U	300000	U	50000	U
2,6-Dinitrotoluene	200000	U	500000	U	5000	U	300000	U	50000	U
Acenaphthylene	200000	U	500000	U	5000	U	300000	U	50000	U
3-Nitroaniline	500000	U	1200000	U	12000	U	750000	U	120000	U
Acenaphthene	200000	U	500000	U	5000	U	300000	U	7600	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K3		E21K3DL		E21K4		E21K5		E21K6	
Sampling Location :	WS-01-04		WS-01-04		WS-01-05		WS-01-06		WS-01-07	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	14:20		14:20		14:45		15:10		15:52	
%Moisture :	0		0		0		0		0	
pH :	0.0		0.0		6.4		0.0		0.0	
Dilution Factor :	20.0		50.0		1.0		20.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	500000	UJ	1200000	UJ	12000	U	750000	U	120000	UJ
4-Nitrophenol	500000	U	1200000	U	12000	U	750000	U	120000	U
Dibenzofuran	200000	U	500000	U	5000	U	300000	U	6100	J
2,4-Dinitrotoluene	200000	U	500000	U	5000	U	300000	U	50000	U
Diethylphthalate	200000	U	500000	U	5000	U	300000	U	50000	U
Fluorene	200000	U	500000	U	5000	U	300000	U	9500	J
4-Chlorophenyl-phenyl ether	200000	U	500000	U	5000	U	300000	U	50000	U
4-Nitroaniline	500000	U	1200000	U	12000	U	750000	U	120000	U
4,6-Dinitro-2-methylphenol	500000	U	1200000	U	12000	U	750000	U	120000	U
N-Nitrosodiphenylamine	200000	U	500000	U	5000	U	17000	J	50000	U
4-Bromophenyl-phenylether	200000	U	500000	U	5000	U	300000	U	50000	U
Hexachlorobenzene	200000	U	500000	U	5000	U	300000	U	50000	U
Atrazine	200000	UJ	500000	U	5000	U	300000	U	50000	U
Pentachlorophenol	12000	J	40000	J	12000	U	41000	J	12000	J
Phenanthrene	200000	U	500000	U	400	J	300000	U	62000	
Anthracene	200000	U	500000	U	5000	U	300000	U	14000	J
Carbazole	200000	U	500000	U	5000	U	300000	U	5100	J
Di-n-butylphthalate	200000	U	500000	U	5000	U	300000	U	50000	U
Fluoranthene	200000	U	500000	U	5000	U	300000	U	43000	J
Pyrene	200000	U	500000	U	5000	U	300000	U	38000	J
Butylbenzylphthalate	200000	U	500000	U	5000	U	300000	U	50000	U
3,3'-Dichlorobenzidine	200000	UJ	500000	U	5000	UJ	300000	UJ	50000	U
Benzo(a)anthracene	200000	U	500000	U	5000	U	300000	U	18000	J
Chrysene	200000	U	500000	U	5000	U	300000	U	35000	J
bis(2-Ethylhexyl)phthalate	15000	J	500000	U	5000	U	300000	U	7200	J
Di-n-octylphthalate	200000	U	500000	U	300	J	300000	U	50000	U
Benzo(b)fluoranthene	200000	U	500000	U	5000	U	300000	U	11000	J
Benzo(k)fluoranthene	200000	U	500000	U	5000	U	300000	U	12000	J
Benzo(a)pyrene	200000	U	500000	U	5000	U	300000	U	10000	J
Indeno(1,2,3-cd)pyrene	200000	U	500000	U	5000	U	300000	U	50000	U
Dibenzo(a,h)anthracene	200000	U	500000	U	5000	U	300000	U	50000	U
Benzo(g,h,i)perylene	200000	U	500000	U	5000	U	300000	U	50000	U

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site SAUGET SITES H & I
Lab CLAYTON
Reviewer S. Tobin
Date 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number	E21K7		E21K7DL		E21K8		E21K9		E21L1	
Sampling Location	WS-01-08		WS-01-08		WS-01-09		WS-02-01		WS-03-01	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	07/13/2002		07/13/2002		07/13/2002		07/14/2002		07/14/2002	
Time Sampled	16:15		16:15		16:25		10:15		14:17	
%Moisture	0		0		0		0		0	
pH	7.2		7.2		0.0		0.0		2.9	
Dilution Factor	20.0		40.0		5.0		1.0		20.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	99000	U	200000	U	25000	U	9900	U	300000	U
Phenol	99000	U	200000	U	25000	U	9900	U	300000	U
bis-(2-Chloroethyl) ether	99000	U	200000	U	25000	U	9900	U	300000	U
2-Chlorophenol	99000	U	200000	U	25000	U	9900	U	16000	J
2-Methylphenol	99000	U	200000	U	25000	U	9900	U	300000	U
2,2'-oxybis(1-Chloropropane)	99000	UJ	200000	UJ	25000	UJ	9900	UJ	300000	UJ
Acetophenone	99000	U	200000	U	25000	U	9900	U	300000	U
4-Methylphenol	99000	U	200000	U	25000	U	9900	U	300000	U
N-Nitroso-di-n-propylamine	99000	U	200000	U	25000	U	9900	U	300000	U
Hexachloroethane	99000	U	200000	U	25000	U	9900	U	300000	U
Nitrobenzene	51000	J	45000	J	25000	U	9900	U	300000	U
Isophorone	99000	U	200000	U	25000	U	9900	U	300000	U
2-Nitrophenol	99000	U	200000	U	25000	U	9900	U	300000	U
2,4-Dimethylphenol	99000	U	200000	U	25000	U	9900	U	300000	U
bis(2-Chloroethoxy)methane	99000	U	200000	U	25000	U	9900	U	300000	U
2,4-Dichlorophenol	7200	J	200000	U	25000	U	1100	J	300000	U
Naphthalene	660000		580000		7800	J	9900	U	300000	U
4-Chloroaniline	350000		340000		23000	J	3200	J	80000	J
Hexachlorobutadiene	6300	J	200000	U	25000	U	9900	U	300000	U
Caprolactam	99000	U	200000	U	25000	U	9900	U	300000	U
4-Chloro-3-methylphenol	99000	U	200000	U	25000	U	9900	U	300000	U
2-Methylnaphthalene	99000	U	200000	U	25000	U	9900	U	300000	U
Hexachlorocyclopentadiene	99000	U	200000	UJ	25000	UJ	9900	U	300000	U
2,4,6-Trichlorophenol	7900	J	200000	U	25000	U	9900	U	300000	U
2,4,5-Trichlorophenol	250000	U	500000	U	62000	U	25000	U	750000	U
1,1'-Biphenyl	44000	J	39000	J	25000	U	9900	U	300000	U
2-Chloronaphthalene	99000	U	200000	U	25000	U	9900	U	300000	U
2-Nitroaniline	250000	UJ	500000	U	62000	U	25000	UJ	750000	UJ
Dimethylphthalate	99000	U	200000	U	25000	U	9900	U	300000	U
2,6-Dinitrotoluene	99000	U	200000	U	25000	U	9900	U	300000	U
Acenaphthylene	99000	U	200000	U	25000	U	9900	U	300000	U
3-Nitroaniline	250000	U	500000	U	62000	U	25000	U	750000	U
Acenaphthene	99000	U	200000	U	25000	U	9900	U	300000	U

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site : SAUGET SITES H & I | Number of Soil Samples : 19
Lab : CLAYTON | Number of Water Samples 0
Reviewer : S. Tobin
Date : 08-12-2002

Sample Number :	E21K7		E21K7DL		E21K8		E21K9		E21L1	
Sampling Location :	WS-01-08		WS-01-08		WS-01-09		WS-02-01		WS-03-01	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/14/2002		07/14/2002	
Time Sampled :	16:15		16:15		16:25		10:15		14:17	
%Moisture :	0		0		0		0		0	
pH :	7.2		7.2		0.0		0.0		2.9	
Dilution Factor :	20.0		40.0		5.0		1.0		20.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	250000	U	500000	UJ	62000	U	25000	U	750000	U
4-Nitrophenol	250000	U	500000	U	62000	U	25000	U	750000	U
Dibenzofuran	99000	U	200000	U	25000	U	9900	U	300000	U
2,4-Dinitrotoluene	99000	U	200000	U	25000	U	9900	U	300000	U
Diethylphthalate	99000	U	200000	U	25000	U	9900	U	300000	U
Fluorene	99000	U	200000	U	25000	U	9900	U	300000	U
4-Chlorophenyl-phenyl ether	99000	U	200000	U	25000	U	9900	U	300000	U
4-Nitroaniline	250000	U	500000	U	62000	U	25000	U	750000	U
4,6-Dinitro-2-methylphenol	250000	U	500000	U	62000	U	25000	U	750000	U
N-Nitrosodiphenylamine	99000	U	200000	U	25000	U	9900	U	300000	U
4-Bromophenyl-phenylether	99000	U	200000	U	25000	U	9900	U	300000	U
Hexachlorobenzene	99000	U	200000	U	25000	U	9900	U	300000	U
Atrazine	99000	U	200000	UJ	25000	UJ	9900	U	300000	U
Pentachlorophenol	1400000		960000	J	62000	J	25000	U	27000	J
Phenanthrene	99000	U	200000	U	25000	U	9900	U	300000	U
Anthracene	99000	U	200000	U	25000	U	9900	U	300000	U
Carbazole	99000	U	200000	U	25000	U	9900	U	300000	U
Di-n-butylphthalate	99000	U	200000	U	3300	J	9900	U	300000	U
Fluoranthene	99000	U	200000	U	25000	U	9900	U	300000	U
Pyrene	99000	U	200000	U	25000	U	9900	U	300000	U
Butylbenzylphthalate	99000	U	200000	U	25000	U	9900	U	300000	U
3,3'-Dichlorobenzidine	99000	UJ	200000	UJ	25000	UJ	9900	UJ	300000	UJ
Benzo(a)anthracene	99000	U	200000	U	25000	U	9900	U	300000	U
Chrysene	99000	U	200000	U	25000	U	9900	U	300000	U
bis(2-Ethylhexyl)phthalate	99000	U	200000	U	25000	U	9900	U	300000	U
Di-n-octylphthalate	99000	U	200000	U	25000	U	9900	U	300000	U
Benzo(b)fluoranthene	99000	U	200000	U	25000	U	9900	U	300000	U
Benzo(k)fluoranthene	99000	U	200000	U	25000	U	9900	U	300000	U
Benzo(a)pyrene	99000	U	200000	U	25000	U	9900	U	300000	U
Indeno(1,2,3-cd)pyrene	99000	U	200000	U	25000	U	9900	U	300000	U
Dibenzo(a,h)anthracene	99000	U	200000	U	25000	U	9900	U	300000	U
Benzo(g,h,i)perylene	99000	U	200000	U	25000	U	9900	U	300000	U

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site : SAUGET SITES H & I | Number of Soil Samples : 19
Lab : CLAYTON | Number of Water Samples : 0
Reviewer : S. Tobin
Date : 08-12-2002

Sample Number	E21L2		E21L2MS		E21L2MSD		E21L3		E21L4	
Sampling Location	WS-03-02		WS-03-02		WS-03-02		WS-01		H/WS-01-01	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	07/14/2002		07/14/2002		07/14/2002		07/13/2002		07/15/2002	
Time Sampled	14:19		14:19		14:19		15:52		11:15	
%Moisture	0		0		0		0		0	
pH	7.9		7.9		7.9		0.0		0.0	
Dilution Factor	5.0		5.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	25000	U	25000	U	25000	U	99000	U	99000	U
Phenol	25000	U	37000		31000		99000	U	99000	U
bis-(2-Chloroethyl) ether	25000	U	25000	U	25000	U	99000	U	99000	U
2-Chlorophenol	25000	U	35000		32000		99000	U	99000	U
2-Methylphenol	25000	U	25000	U	25000	U	99000	U	99000	U
2,2'-oxybis(1-Chloropropane)	25000	UJ	25000	UJ	25000	UJ	99000	UJ	99000	UJ
Acetophenone	25000	U	25000	U	25000	U	99000	U	99000	U
4-Methylphenol	25000	U	25000	U	25000	U	99000	U	99000	U
N-Nitroso-di-n-propylamine	25000	U	23000	J	22000	J	99000	U	99000	U
Hexachloroethane	25000	U	25000	U	25000	U	99000	U	99000	U
Nitrobenzene	25000	U	25000	U	25000	U	99000	U	99000	U
Isophorone	25000	U	25000	U	25000	U	99000	U	99000	U
2-Nitrophenol	25000	U	25000	U	25000	U	99000	U	99000	U
2,4-Dimethylphenol	25000	U	25000	U	25000	U	99000	U	99000	U
bis(2-Chloroethoxy)methane	25000	U	25000	U	25000	U	99000	U	99000	U
2,4-Dichlorophenol	25000	U	25000	U	25000	U	99000	U	99000	U
Naphthalene	1800	J	2100	J	2800	J	8200	J	99000	U
4-Chloroaniline	5100	J	13000	J	13000	J	99000	U	23000	J
Hexachlorobutadiene	25000	U	25000	U	25000	U	99000	U	99000	U
Caprolactam	25000	U	25000	U	25000	U	99000	U	99000	U
4-Chloro-3-methylphenol	25000	U	41000		43000		99000	U	99000	U
2-Methylnaphthalene	25000	U	25000	U	25000	U	99000	U	99000	U
Hexachlorocyclopentadiene	25000	UJ	25000	UJ	25000	UJ	99000	UJ	99000	UJ
2,4,6-Trichlorophenol	25000	U	25000	U	25000	U	99000	U	99000	U
2,4,5-Trichlorophenol	62000	U	62000	U	62000	U	250000	U	250000	U
1,1'-Biphenyl	25000	U	2200	J	2400	J	99000	U	99000	U
2-Chloronaphthalene	25000	U	25000	U	25000	U	99000	U	99000	U
2-Nitroaniline	62000	U	62000	U	62000	U	250000	U	250000	U
Dimethylphthalate	25000	U	25000	U	25000	U	99000	U	99000	U
2,6-Dinitrotoluene	25000	U	25000	U	25000	U	99000	U	99000	U
Acenaphthylene	25000	U	25000	U	25000	U	99000	U	99000	U
3-Nitroaniline	62000	U	62000	U	62000	U	250000	U	250000	U
Acenaphthene	25000	U	29000		30000		99000	U	99000	U

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. CLAYTON
Reviewer S. Tobin
Date . 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L2		E21L2MS		E21L2MSD		E21L3		E21L4	
Sampling Location :	WS-03-02		WS-03-02		WS-03-02		WS-01		H/WS-01-01	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/14/2002		07/14/2002		07/14/2002		07/13/2002		07/15/2002	
Time Sampled	14:19		14:19		14:19		15:52		11:15	
%Moisture :	0		0		0		0		0	
pH :	7.9		7.9		7.9		0.0		0.0	
Dilution Factor :	5.0		5.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	62000	UJ	62000	UJ	62000	UJ	250000	UJ	250000	UJ
4-Nitrophenol	62000	U	39000	J	37000	J	250000	U	250000	U
Dibenzofuran	25000	U	25000	U	25000	U	99000	U	99000	U
2,4-Dinitrotoluene	25000	U	25000		28000		99000	U	99000	U
Diethylphthalate	25000	U	25000	U	25000	U	99000	U	99000	U
Fluorene	25000	U	25000	U	1500	J	6300	J	99000	U
4-Chlorophenyl-phenyl ether	25000	U	25000	U	25000	U	99000	U	99000	U
4-Nitroaniline	62000	U	62000	U	62000	U	250000	U	250000	U
4,6-Dinitro-2-methylphenol	62000	U	62000	U	62000	U	250000	U	250000	U
N-Nitrosodiphenylamine	25000	U	25000	U	25000	U	99000	U	99000	U
4-Bromophenyl-phenylether	25000	U	25000	U	25000	U	99000	U	99000	U
Hexachlorobenzene	25000	U	25000	U	25000	U	99000	U	99000	U
Atrazine	25000	UJ	25000	UJ	25000	U	99000	U	99000	U
Pentachlorophenol	62000	UJ	17000	J	43000	J	12000	J	250000	UJ
Phenanthrene	3000	J	4300	J	6400	J	46000	J	7400	J
Anthracene	25000	U	25000	U	1300	J	8500	J	99000	U
Carbazole	25000	U	25000	U	25000	U	99000	U	99000	U
Di-n-butylphthalate	25000	U	5500	J	12000	J	99000	U	99000	U
Fluoranthene	2500	J	3300	J	6800	J	35000	J	99000	U
Pyrene	2400	J	33000		32000		31000	J	5300	J
Butylbenzylphthalate	25000	U	1700	J	25000	U	99000	U	99000	U
3,3'-Dichlorobenzidine	25000	UJ	25000	UJ	25000	U	99000	U	99000	U
Benzo(a)anthracene	25000	U	1500	J	2000	J	13000	J	99000	U
Chrysene	2400	J	2100	J	3400	J	29000	J	18000	J
bis(2-Ethylhexyl)phthalate	1700	J	4000	J	5300	J	99000	U	99000	U
Di-n-octylphthalate	25000	U	25000	U	25000	U	99000	U	99000	U
Benzo(b)fluoranthene	4500	J	1700	J	2300	J	7700	J	99000	U
Benzo(k)fluoranthene	25000	U	25000	U	1600	J	8800	J	99000	U
Benzo(a)pyrene	25000	U	25000	U	1800	J	7300	J	99000	U
Indeno(1,2,3-cd)pyrene	25000	U	25000	U	25000	U	99000	U	99000	U
Dibenzo(a,h)anthracene	25000	U	25000	U	25000	U	99000	U	99000	U
Benzo(g,h,i)perylene	25000	U	25000	U	25000	U	99000	U	99000	U

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L5		E21L5DL		E21L6		E21L7		E21L8	
Sampling Location :	H/WS-01-02		H/WS-01-02		H/WS-01-03		H/WS-01-04		H/WS-01-05	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/15/2002		07/15/2002		07/15/2002		07/15/2002		07/15/2002	
Time Sampled :	11:20		11:20		11:52		14:10		14:25	
%Moisture	0		0		0		0		0	
pH	6.4		6.4		0.0		0.0		3.1	
Dilution Factor :	1.0		1000.0		20.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	99000	U	99000000	U	300000	U	5400	J	9900	U
Phenol	99000	U	99000000	U	300000	U	34000	J	830	J
bis-(2-Chloroethyl) ether	99000	U	99000000	U	300000	U	99000	U	9900	U
2-Chlorophenol	99000	U	99000000	U	300000	U	99000	U	940	J
2-Methylphenol	99000	U	99000000	U	300000	U	80000	J	9900	U
2,2'-oxybis(1-Chloropropane)	99000	UJ	99000000	UJ	300000	UJ	99000	UJ	9900	UJ
Acetophenone	99000	U	99000000	U	300000	U	99000	U	9900	U
4-Methylphenol	99000	U	99000000	U	300000	U	99000	U	9900	U
N-Nitroso-di-n-propylamine	99000	U	99000000	U	300000	U	99000	U	9900	U
Hexachloroethane	99000	U	99000000	U	300000	U	99000	U	9900	U
Nitrobenzene	99000	U	99000000	U	300000	U	99000	U	9900	U
Isophorone	99000	U	99000000	U	300000	U	99000	U	9900	U
2-Nitrophenol	99000	U	99000000	U	300000	U	99000	U	9900	U
2,4-Dimethylphenol	99000	U	99000000	U	300000	U	99000	U	9900	U
bis(2-Chloroethoxy)methane	99000	U	99000000	U	300000	U	99000	U	9900	U
2,4-Dichlorophenol	14000	J	99000000	U	300000	U	16000	J	160000	
Naphthalene	99000	U	99000000	U	300000	U	12000	J	9900	U
4-Chloroaniline	99000	U	99000000	U	300000	U	99000	U	9900	U
Hexachlorobutadiene	99000	U	99000000	U	300000	U	99000	U	9900	U
Caprolactam	99000	U	99000000	U	300000	U	99000	U	9900	U
4-Chloro-3-methylphenol	99000	U	99000000	U	300000	U	99000	U	9900	U
2-Methylnaphthalene	99000	U	99000000	U	300000	U	99000	U	9900	U
Hexachlorocyclopentadiene	99000	UJ	99000000	UJ	300000	UJ	99000	UJ	9900	U
2,4,6-Trichlorophenol	46000	J	99000000	U	300000	U	99000	U	18000	
2,4,5-Trichlorophenol	29000	J	250000000	U	750000	U	250000	U	25000	U
1,1'-Biphenyl	99000	U	99000000	U	360000		570000		9900	U
2-Chloronaphthalene	99000	U	99000000	U	300000	U	99000	U	9900	U
2-Nitroaniline	250000	U	250000000	U	750000	U	250000	U	25000	UJ
Dimethylphthalate	99000	U	99000000	U	300000	U	99000	U	9900	U
2,6-Dinitrotoluene	99000	U	99000000	U	300000	U	99000	U	9900	U
Acenaphthylene	99000	U	99000000	U	300000	U	99000	U	9900	U
3-Nitroaniline	250000	U	250000000	U	750000	U	250000	U	25000	U
Acenaphthene	99000	U	99000000	U	300000	U	99000	U	9900	U

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site SAUGET SITES H & I
Lab CLAYTON
Reviewer S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L5		E21L5DL		E21L6		E21L7		E21L8	
Sampling Location :	H/WS-01-02		H/WS-01-02		H/WS-01-03		H/WS-01-04		H/WS-01-05	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/15/2002		07/15/2002		07/15/2002		07/15/2002		07/15/2002	
Time Sampled :	11:20		11:20		11:52		14:10		14:25	
%Moisture :	0		0		0		0		0	
pH :	6.4		6.4		0.0		0.0		3.1	
Dilution Factor :	1.0		1000.0		20.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	250000	UJ	250000000	U	750000	UJ	250000	UJ	25000	U
4-Nitrophenol	250000	U	250000000	U	750000	U	250000	U	25000	U
Dibenzofuran	99000	U	99000000	U	300000	U	99000	U	9900	U
2,4-Dinitrotoluene	99000	U	99000000	U	300000	U	99000	U	9900	U
Diethylphthalate	99000	U	99000000	U	300000	U	99000	U	9900	U
Fluorene	99000	U	99000000	U	300000	U	21000	J	9900	U
4-Chlorophenyl-phenyl ether	99000	U	99000000	U	300000	U	99000	U	9900	U
4-Nitroaniline	250000	U	250000000	U	750000	U	250000	U	25000	U
4,6-Dinitro-2-methylphenol	250000	U	250000000	U	750000	U	250000	U	25000	U
N-Nitrosodiphenylamine	99000	U	99000000	U	300000	U	99000	U	9900	U
4-Bromophenyl-phenylether	99000	U	99000000	U	300000	U	99000	U	9900	U
Hexachlorobenzene	130000		99000000	U	300000	U	99000	U	9900	U
Atrazine	99000	U	99000000	U	300000	U	99000	U	9900	U
Pentachlorophenol	210000000	J	720000000		750000	UJ	250000	UJ	3700	J
Phenanthrene	99000	U	99000000	U	15000	J	15000	J	9900	U
Anthracene	99000	U	99000000	U	300000	U	99000	U	9900	U
Carbazole	99000	U	99000000	U	300000	U	99000	U	9900	U
Di-n-butylphthalate	99000	U	99000000	U	300000	U	7100	J	9900	U
Fluoranthene	99000	U	99000000	U	300000	U	99000	U	9900	U
Pyrene	99000	U	99000000	U	300000	U	5500	J	9900	U
Butylbenzylphthalate	99000	U	99000000	U	300000	U	99000	U	9900	U
3,3'-Dichlorobenzidine	99000	U	99000000	UJ	300000	U	99000	U	9900	UJ
Benzo(a)anthracene	99000	U	99000000	U	300000	U	99000	U	9900	U
Chrysene	99000	U	99000000	U	300000	U	13000	J	9900	U
bis(2-Ethylhexyl)phthalate	99000	U	99000000	U	300000	U	99000	U	9900	U
Di-n-octylphthalate	99000	U	99000000	U	300000	U	99000	U	5300	J
Benzo(b)fluoranthene	99000	U	99000000	U	300000	U	99000	U	9900	U
Benzo(k)fluoranthene	99000	U	99000000	U	300000	U	99000	U	9900	U
Benzo(a)pyrene	99000	U	99000000	U	300000	U	99000	U	9900	U
Indeno(1,2,3-cd)pyrene	99000	U	99000000	U	300000	U	99000	U	9900	U
Dibenzo(a,h)anthracene	99000	U	99000000	U	300000	U	99000	U	9900	U
Benzo(g,h,i)perylene	99000	U	99000000	U	300000	U	99000	U	9900	U

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site : SAUGET SITES H & I | Number of Soil Samples : 19
Lab : CLAYTON | Number of Water Samples : 0
Reviewer S. Tobin
Date : 08-12-2002

Sample Number :	E21L8DL		E21L9		SBLKS1		SBLKS2			
Sampling Location :	H/WS-01-05		H/WS-02-06							
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled	07/15/2002		07/15/2002							
Time Sampled :	14:25		15:32							
%Moisture :	0		0		N/A		N/A			
pH :	3.1		0.0		6.4		6.4			
Dilution Factor :	4.0		4.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	40000	U	40000	U	5000	U	5000	U		
Phenol	40000	U	20000	J	5000	U	5000	U		
bis-(2-Chloroethyl) ether	40000	U	40000	U	5000	U	5000	U		
2-Chlorophenol	40000	U	40000	U	5000	U	5000	U		
2-Methylphenol	40000	U	40000	U	5000	U	5000	U		
2,2'-oxybis(1-Chloropropane)	40000	UJ	40000	UJ	5000	UJ	5000	UJ		
Acetophenone	40000	U	40000	U	5000	U	5000	U		
4-Methylphenol	40000	U	40000	U	5000	U	5000	U		
N-Nitroso-di-n-propylamine	40000	U	40000	U	5000	U	5000	U		
Hexachloroethane	40000	U	40000	U	5000	U	5000	U		
Nitrobenzene	40000	U	40000	U	5000	U	5000	U		
Isophorone	40000	U	40000	U	5000	U	5000	U		
2-Nitrophenol	40000	U	40000	U	5000	U	5000	U		
2,4-Dimethylphenol	40000	U	40000	U	5000	U	5000	U		
bis(2-Chloroethoxy)methane	40000	U	40000	U	5000	U	5000	U		
2,4-Dichlorophenol	110000	U	11000	J	5000	U	5000	U		
Naphthalene	40000	U	200000		5000	U	5000	U		
4-Chloroaniline	40000	U	16000	J	5000	U	5000	U		
Hexachlorobutadiene	40000	U	40000	U	5000	U	5000	U		
Caprolactam	40000	U	40000	U	5000	U	5000	U		
4-Chloro-3-methylphenol	40000	U	40000	U	5000	U	5000	U		
2-Methylnaphthalene	40000	U	15000	J	5000	U	5000	U		
Hexachlorocyclopentadiene	40000	UJ	40000	UJ	5000	U	5000	UJ		
2,4,6-Trichlorophenol	14000	J	19000	J	5000	U	5000	U		
2,4,5-Trichlorophenol	100000	U	100000	U	12000	U	12000	U		
1,1'-Biphenyl	40000	U	120000		5000	U	5000	U		
2-Chloronaphthalene	40000	U	40000	U	5000	U	5000	U		
2-Nitroaniline	100000	U	100000	U	12000	UJ	12000	U		
Dimethylphthalate	40000	U	40000	U	5000	U	5000	U		
2,6-Dinitrotoluene	40000	U	40000	U	5000	U	5000	U		
Acenaphthylene	40000	U	40000	U	5000	U	5000	U		
3-Nitroaniline	100000	U	100000	U	12000	U	12000	U		
Acenaphthene	40000	U	18000	J	5000	U	5000	U		

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site : SAUGET SITES H & I | Number of Soil Samples : 19
Lab. : CLAYTON | Number of Water Samples : 0
Reviewer S. Tobin
Date : 08-12-2002

Sample Number :	E21L8DL		E21L9		SBLKS1		SBLKS2			
Sampling Location :	H/WS-01-05		H/WS-02-06							
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :	07/15/2002		07/15/2002							
Time Sampled :	14:25		15:32							
%Moisture :	0		0		N/A		N/A			
pH :	3.1		0.0		6.4		6.4			
Dilution Factor :	4.0		4.0		1.0		1.0			
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	100000	UJ	100000	UJ	12000	U	12000	UJ		
4-Nitrophenol	100000	U	100000	U	12000	U	12000	U		
Dibenzofuran	40000	U	32000	J	5000	U	5000	U		
2,4-Dinitrotoluene	40000	U	40000	U	5000	U	5000	U		
Diethylphthalate	40000	U	40000	U	5000	U	5000	U		
Fluorene	40000	U	25000	J	5000	U	5000	U		
4-Chlorophenyl-phenyl ether	40000	U	40000	U	5000	U	5000	U		
4-Nitroaniline	100000	U	100000	U	12000	U	12000	U		
4,6-Dinitro-2-methylphenol	100000	U	100000	U	12000	U	12000	U		
N-Nitrosodiphenylamine	40000	U	4900	J	5000	U	5000	U		
4-Bromophenyl-phenylether	40000	U	40000	U	5000	U	5000	U		
Hexachlorobenzene	40000	U	40000	U	5000	U	5000	U		
Atrazine	40000	UJ	40000	U	5000	U	5000	U		
Pentachlorophenol	21000	J	52000	J	12000	U	12000	UJ		
Phenanthrene	40000	U	88000		5000	U	5000	U		
Anthracene	40000	U	24000	J	5000	U	5000	U		
Carbazole	40000	U	24000	J	5000	U	5000	U		
Di-n-butylphthalate	40000	U	9600	J	5000	U	5000	U		
Fluoranthene	40000	U	26000	J	5000	U	5000	U		
Pyrene	40000	U	19000	J	5000	U	5000	U		
Butylbenzylphthalate	40000	U	40000	U	5000	U	5000	U		
3,3'-Dichlorobenzidine	40000	UJ	40000	U	5000	UJ	5000	U		
Benzo(a)anthracene	40000	U	6000	J	5000	U	5000	U		
Chrysene	40000	U	8500	J	5000	U	5000	U		
bis(2-Ethylhexyl)phthalate	40000	U	40000	U	5000	U	5000	U		
Di-n-octylphthalate	3200	J	40000	U	5000	U	5000	U		
Benzo(b)fluoranthene	40000	U	4200	J	5000	U	5000	U		
Benzo(k)fluoranthene	40000	U	4400	J	5000	U	5000	U		
Benzo(a)pyrene	40000	U	5000	J	5000	U	5000	U		
Indeno(1,2,3-cd)pyrene	40000	U	2800	J	5000	U	5000	U		
Dibenzo(a,h)anthracene	40000	U	40000	U	5000	U	5000	U		
Benzo(g,h,i)perylene	40000	U	3600	J	5000	U	5000	U		

Analytical Results (Qualified Data)

Case # 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K0		E21K1		E21K2		E21K3		E21K4	
Sampling Location :	WS-01-01		WS-01-02		WS-01-03		WS-01-04		WS-01-05	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	10:32		10:32		10:32		14:20		14:45	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :			7.5						6.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	51	R	51	U	51	UJ	160	J	51	U
beta-BHC	51	R	51	U	51	UJ	42	J	51	U
delta-BHC	51	R	51	U	51	UJ	51	U	51	U
gamma-BHC (Lindane)	51	R	51	U	51	UJ	51	U	51	U
Heptachlor	110	J	26	J	97	J	51	U	51	U
Aldrin	51	R	51	U	51	UJ	51	U	51	U
Heptachlor epoxide	51	R	51	U	51	UJ	35	J	51	U
Endosulfan I	51	R	51	U	74	J	51	U	51	U
Dieldrin	99	R	99	U	99	UJ	50	J	99	U
4,4'-DDE	99	R	99	U	99	UJ	99	U	99	U
Endrin	99	R	99	U	99	UJ	99	U	99	U
Endosulfan II	99	R	110	J	99	UJ	99	U	99	U
4,4'-DDD	99	R	240	J	99	UJ	99	U	99	U
Endosulfan sulfate	99	R	43	J	99	UJ	99	U	99	U
4,4'-DDT	99	R	700	J	99	UJ	99	U	99	U
Methoxychlor	2400	J	510	U	510	UJ	510	U	510	U
Endrin ketone	340	J	280	J	170	J	300		99	U
Endrin aldehyde	310	J	99	U	99	UJ	99	U	99	U
alpha-Chlordane	51	R	51	U	51	UJ	51	U	51	U
gamma-Chlordane	51	R	51	U	51	UJ	51	U	51	U
Toxaphene	5100	R	5100	U	5100	UJ	5100	U	5100	U
Aroclor-1016	990	R	990	U	990	UJ	990	U	990	U
Aroclor-1221	2000	R	2000	U	2000	UJ	2000	U	2000	U
Aroclor-1232	990	R	990	U	990	UJ	990	U	990	U
Aroclor-1242	11000	J	2600	J	13000	J	990	U	990	U
Aroclor-1248	990	R	990	U	990	UJ	990	U	990	U
Aroclor-1254	29000	J	9500	J	40000	J	990	U	990	U
Aroclor-1260	34000	J	3300	J	17000	J	6400	J	990	U

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K5		E21K6		E21K7		E21K7DL		E21K8	
Sampling Location :	WS-01-06		WS-01-07		WS-01-08		WS-01-08		WS-01-09	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/13/2002		07/13/2002		07/13/2002		07/13/2002		07/13/2002	
Time Sampled :	15:10		15:52		16:15		16:15		16:25	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :					7.2		7.2			
Dilution Factor :	1.0		1.0		1.0		10.0		5.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	51	U	51	U	39	J	510	U	260	U
beta-BHC	51	U	51	U	51	R	510	U	260	U
delta-BHC	52	J	51	U	410	J	250	J	260	U
gamma-BHC (Lindane)	51	U	51	U	51	R	510	U	260	U
Heptachlor	51	U	51	U	730	J	630	J	150	J
Aldrin	51	U	51	U	51	R	510	U	260	U
Heptachlor epoxide	51	U	51	U	51	R	510	U	260	U
Endosulfan I	51	U	51	U	320	J	290	J	260	U
Dieldrin	99	U	99	U	99	R	990	U	500	U
4,4'-DDE	99	U	190	J	99	R	990	U	500	U
Endrin	99	U	99	U	7900	J	990	U	500	U
Endosulfan II	99	U	99	U	99	R	990	U	500	U
4,4'-DDD	99	U	360	J	99	R	990	U	500	U
Endosulfan sulfate	99	U	99	U	99	R	990	U	500	U
4,4'-DDT	99	U	420	J	99	R	990	U	500	U
Methoxychlor	510	U	510	U	510	R	3300	J	1100	J
Endrin ketone	99	U	99	U	1200	J	990	U	500	U
Endrin aldehyde	99	U	99	U	1900	J	990	U	500	U
alpha-Chlordane	51	U	51	U	51	R	510	U	83	J
gamma-Chlordane	51	U	51	U	51	R	510	U	260	U
Toxaphene	5100	U	5100	U	5100	R	51000	U	26000	U
Aroclor-1016	990	U	990	U	990	R	9900	U	5000	U
Aroclor-1221	2000	U	2000	U	2000	R	20000	U	10000	U
Aroclor-1232	990	U	990	U	990	R	9900	U	5000	U
Aroclor-1242	990	U	990	U	71000	J	89000	J	26000	J
Aroclor-1248	990	U	990	U	990	R	9900	U	5000	U
Aroclor-1254	990	U	990	U	200000	J	220000	J	60000	J
Aroclor-1260	990	U	990	U	67000	J	22000	J	5000	U

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site | SAUGET SITES H & I
Lab | CLAYTON
Reviewer | S. Tobin
Date | 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21K8DL		E21K9		E21L1		E21L1DL		E21L2	
Sampling Location :	WS-01-09		WS-02-01		WS-03-01		WS-03-01		WS-03-02	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	07/13/2002		07/14/2002		07/14/2002		07/14/2002		07/14/2002	
Time Sampled :	16:25		10:15		14:17		14:17		14:19	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :					2.9		2.9		7.9	
Dilution Factor :	50.0		1.0		10.0		100.0		10.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2600	U	51	U	510	U	5100	U	510	U
beta-BHC	2600	U	51	U	510	U	5100	U	130	J
delta-BHC	2600	U	51	U	510	U	5100	U	510	U
gamma-BHC (Lindane)	2600	U	51	U	510	U	5100	U	510	U
Heptachlor	2600	U	51	U	510	U	5100	U	620	J
Aldrin	2600	U	51	U	510	U	5100	U	510	U
Heptachlor epoxide	2600	U	51	U	510	U	5100	U	510	U
Endosulfan I	2600	U	51	U	510	U	5100	U	640	J
Dieldrin	5000	U	99	U	990	U	9900	U	990	U
4,4'-DDE	5000	U	99	U	990	U	9900	U	1700	J
Endrin	5000	U	99	U	990	U	9900	U	990	U
Endosulfan II	5000	U	99	U	840	J	9900	U	3500	J
4,4'-DDD	5000	U	99	U	3200	J	4000	J	12000	J
Endosulfan sulfate	5000	U	99	U	660	J	9900	U	2800	J
4,4'-DDT	5000	U	99	U	35000	J	38000	J	86000	J
Methoxychlor	26000	U	510	U	2600	J	51000	U	8000	J
Endrin ketone	5000	U	99	U	1200	J	9900	U	3500	J
Endrin aldehyde	5000	U	99	U	990	U	9900	U	990	U
alpha-Chlordane	2600	U	51	U	510	U	5100	U	510	U
gamma-Chlordane	2600	U	51	U	510	U	5100	U	510	U
Toxaphene	260000	U	5100	U	51000	U	510000	U	51000	U
Aroclor-1016	50000	U	990	U	9900	U	99000	U	9900	U
Aroclor-1221	100000	U	2000	U	20000	U	200000	U	20000	U
Aroclor-1232	50000	U	990	U	9900	U	99000	U	9900	U
Aroclor-1242	29000	J	990	U	9900	U	99000	U	46000	
Aroclor-1248	50000	U	990	U	9900	U	99000	U	9900	U
Aroclor-1254	89000		990	U	9900	U	99000	U	130000	
Aroclor-1260	50000	U	990	U	110000	J	61000	J	330000	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab. : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L2DL		E21L2MS		E21L2MSD		E21L3		E21L4	
Sampling Location :	WS-03-02		WS-03-02		WS-03-02		WS-01		H/WS-01-01	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/14/2002		07/14/2002		07/14/2002		07/13/2002		07/15/2002	
Time Sampled :	14:19		14:19		14:19		15:52		11:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	7.9		7.9		7.9					
Dilution Factor :	100.0		10.0		10.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	5100	U	510	U	510	U	51	U	51	U
beta-BHC	5100	U	510	U	510	U	51	U	51	U
delta-BHC	5100	U	510	U	510	U	51	U	51	U
gamma-BHC (Lindane)	5100	U	510	U	510	U	51	U	51	U
Heptachlor	5100	U	640	J	590	J	51	U	28	J
Aldrin	5100	U	510	U	510	U	51	U	51	U
Heptachlor epoxide	5100	U	510	U	510	U	51	U	51	U
Endosulfan I	5100	U	510	J	660	J	51	U	93	J
Dieldrin	9900	U	990	U	990	U	99	U	99	U
4,4'-DDE	9900	U	11000		4400		220	J	99	U
Endrin	9900	U	990	U	990	U	99	U	99	U
Endosulfan II	3700	J	22000	J	6700	J	99	U	99	U
4,4'-DDD	11000	J	63000	J	26000	J	130	J	99	U
Endosulfan sulfate	2700	J	18000	J	5500	J	99	U	1300	J
4,4'-DDT	120000		990	U	120000	J	980	J	99	U
Methoxychlor	51000	U	47000	J	17000	J	510	U	510	U
Endrin ketone	9900	U	20000	J	990	U	99	U	980	J
Endrin aldehyde	10000	J	990	U	990	U	99	U	750	J
alpha-Chlordane	5100	U	510	U	510	U	51	U	51	U
gamma-Chlordane	5100	U	510	U	510	U	51	U	51	U
Toxaphene	510000	U	51000	U	51000	U	5100	U	5100	U
Aroclor-1016	99000	U	9900	U	9900	U	990	U	990	U
Aroclor-1221	200000	U	20000	U	20000	U	2000	U	2000	U
Aroclor-1232	99000	U	9900	U	9900	U	990	U	990	U
Aroclor-1242	65000	J	57000		49000		990	U	990	U
Aroclor-1248	99000	U	9900	U	9900	U	990	U	990	U
Aroclor-1254	160000		190000	J	130000	J	990	U	110000	J
Aroclor-1260	590000	J	2500000	J	910000	J	990	U	95000	J

Analytical Results (Qualified Data)

Case #: 30721 SDG : E21K0
Site : SAUGET SITES H & I
Lab : CLAYTON
Reviewer S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	E21L4DL		E21L5		E21L5DL		E21L6		E21L6DL	
Sampling Location :	H/WS-01-01		H/WS-01-02		H/WS-01-02		H/WS-01-03		H/WS-01-03	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/15/2002		07/15/2002		07/15/2002		07/15/2002		07/15/2002	
Time Sampled :	11:15		11:20		11:20		11:52		11:52	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :			6.4		6.4					
Dilution Factor :	10.0		100.0		1000.0		100.0		1000.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	510	U	5100	U	51000	U	5100	U	51000	U
beta-BHC	510	U	5100	U	51000	U	5100	U	51000	U
delta-BHC	510	U	5100	U	51000	U	5100	U	51000	U
gamma-BHC (Lindane)	510	U	5100	U	51000	U	5100	U	51000	U
Heptachlor	510	U	5100	U	51000	U	42000	J	45000	J
Aldrin	510	U	5100	U	51000	U	5100	U	51000	U
Heptachlor epoxide	510	U	5100	U	51000	U	5100	U	51000	U
Endosulfan I	510	U	5100	U	51000	U	50000	J	51000	J
Dieldrin	990	U	9900	U	99000	U	9900	U	99000	U
4,4'-DDE	990	U	9900	U	99000	U	9900	U	99000	U
Endrin	990	U	9900	U	99000	U	9900	U	99000	U
Endosulfan II	990	U	9900	U	99000	U	16000	J	99000	U
4,4'-DDD	990	U	9900	U	99000	U	9900	U	99000	U
Endosulfan sulfate	990	U	9900	U	99000	U	12000	J	99000	U
4,4'-DDT	990	U	9900	U	99000	U	81000	J	82000	J
Methoxychlor	3200	J	51000	U	510000	U	38000	J	510000	U
Endrin ketone	770	J	9900	U	99000	U	9900	U	99000	U
Endrin aldehyde	990	U	9900	U	99000	U	9900	U	99000	U
alpha-Chlordane	510	U	5100	U	51000	U	5100	U	51000	U
gamma-Chlordane	510	U	5100	U	51000	U	5100	U	51000	U
Toxaphene	51000	U	510000	U	5100000	U	510000	U	5100000	U
Aroclor-1016	9900	U	99000	U	990000	U	99000	U	990000	U
Aroclor-1221	20000	U	200000	U	2000000	U	200000	U	2000000	U
Aroclor-1232	9900	U	99000	U	990000	U	99000	U	990000	U
Aroclor-1242	9900	U	99000	U	990000	U	4000000	J	4800000	J
Aroclor-1248	9900	U	99000	U	990000	U	99000	U	990000	U
Aroclor-1254	150000		99000	U	990000	U	99000	U	990000	U
Aroclor-1260	87000	J	99000	U	990000	U	1000000	J	690000	J

Analytical Results (Qualified Data)

Case # 30721 | SDG : E21K0
Site : SAUGET SITES H & I | Number of Soil Samples : 19
Lab. : CLAYTON | Number of Water Samples : 0
Reviewer : S. Tobin
Date : 08-12-2002

Sample Number :	E21L7		E21L7DL		E21L8		E21L9		E21L9DL	
Sampling Location :	H/WS-01-04		H/WS-01-04		H/WS-01-05		H/WS-02-06		H/WS-02-06	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	07/15/2002		07/15/2002		07/15/2002		07/15/2002		07/15/2002	
Time Sampled :	14:10		14:10		14:25		15:32		15:32	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :							7.3		7.3	
Dilution Factor :	10.0		100.0		1.0		10.0		100.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	510	U	5100	U	51	U	510	U	5100	U
beta-BHC	560	J	5100	U	51	U	190	J	5100	U
delta-BHC	510	U	5100	U	51	U	510	U	5100	U
gamma-BHC (Lindane)	510	U	5100	U	51	U	510	U	5100	U
Heptachlor	510	J	5100	U	51	U	570	J	650	J
Aldrin	510	U	5100	U	51	U	510	U	5100	U
Heptachlor epoxide	510	U	5100	U	51	U	510	U	5100	U
Endosulfan I	510	U	5100	U	51	U	510	U	5100	U
Dieldrin	990	U	9900	U	99	U	990	U	9900	U
4,4'-DDE	8200		7900	J	99	U	990	U	9900	U
Endrin	990	U	9900	U	99	U	990	U	9900	U
Endosulfan II	1400	J	9900	U	99	U	1800	J	9900	U
4,4'-DDD	27000	J	30000		99	U	31000		26000	
Endosulfan sulfate	250	J	9900	U	73	J	990	U	9900	U
4,4'-DDT	25000	J	30000		1700	J	990	U	9900	U
Methoxychlor	1800	J	51000	U	150	J	5100	J	51000	U
Endrin ketone	560	J	9900	U	51	J	990	U	9900	U
Endrin aldehyde	990	U	9900	U	99	U	990	U	9900	U
alpha-Chlordane	510	U	5100	U	60	J	510	U	5100	U
gamma-Chlordane	510	U	5100	U	51	U	510	U	5100	U
Toxaphene	51000	U	510000	U	5100	U	51000	U	510000	U
Aroclor-1016	9900	U	99000	U	990	U	9900	U	99000	U
Aroclor-1221	20000	U	200000	U	2000	U	20000	U	200000	U
Aroclor-1232	9900	U	99000	U	990	U	9900	U	99000	U
Aroclor-1242	30000		99000	U	990	U	35000		40000	J
Aroclor-1248	9900	U	99000	U	990	U	9900	U	99000	U
Aroclor-1254	43000	J	49000	J	6900	J	87000	J	100000	
Aroclor-1260	68000		86000	J	4700	J	63000	J	71000	J

Analytical Results (Qualified Data)

Case # 30721
SDG : E21K0
Site : SAUGET SITES H & I
Lab : CLAYTON
Reviewer : S. Tobin
Date : 08-12-2002

Number of Soil Samples : 19
Number of Water Samples : 0

Sample Number :	PBLK1S									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :	6.4									
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	51	U								
beta-BHC	51	U								
delta-BHC	51	U								
gamma-BHC (Lindane)	51	U								
Heptachlor	51	U								
Aldrin	51	U								
Heptachlor epoxide	51	U								
Endosulfan I	51	U								
Dieldrin	99	U								
4,4'-DDE	99	U								
Endrin	99	U								
Endosulfan II	99	U								
4,4'-DDD	99	U								
Endosulfan sulfate	99	U								
4,4'-DDT	99	U								
Methoxychlor	510	U								
Endrin ketone	99	U								
Endrin aldehyde	99	U								
alpha-Chlordane	51	U								
gamma-Chlordane	51	U								
Toxaphene	5100	U								
Aroclor-1016	990	U								
Aroclor-1221	2000	U								
Aroclor-1232	990	U								
Aroclor-1242	990	U								
Aroclor-1248	990	U								
Aroclor-1254	990	U								
Aroclor-1260	990	U								

AUG 01 2002

SDG NARRATIVE

Lab Name: Clayton Group Services (CLAYTN)

Contract No.: 68-W-99069

Case No.: 30721

SDG No.: E21K0

Clayton Work Order No.: 2070399
DO#: 3
Turnaround Requirements: 7 Day

	EPA Sample Number	Matrix	Analysis
1	E21K0	Soil	Full Organics
2	E21K1	Soil	Full Organics
3	E21K2	Soil	Full Organics
4	E21K3	Soil	Full Organics
5	E21K4	Soil	Full Organics
6	E21K5	Soil	Full Organics
7	E21K6	Soil	Full Organics
8	E21K7	Soil	Full Organics
9	E21K8	Soil	Full Organics
10	E21K9	Soil	Full Organics
11	E21L1	Soil	Full Organics
12	E21L2*	Soil	Full Organics
13	E21L3	Soil	Full Organics
14	E21L4	Soil	Full Organics
15	E21L5	Soil	Full Organics
16	E21L6	Soil	Full Organics
17	E21L7	Soil	Full Organics
18	E21L8	Soil	Full Organics
19	E21L9	Soil	Full Organics

*MS/MSD

Sample Information

A sample was not designated as the QC sample on the Traffic Report. Dyncorp was notified on July 17, 2002. The laboratory was instructed to choose a QC sample.

Sample E21L2 was chosen as the MS/MSD for the soil samples.

The VOA jar for sample E21K8 contained rocks and black crystals/soil. For sample E21L0, the VOA jar and the BNA/PEST jar contained only concrete. Dyncorp was notified on July 16, 2002, that the laboratory would be unable to analyze the concrete and the rocks because of the type of matrix.

On July 17, 2002, the Region cancelled the analysis of sample E21L0 for VOA, BNA and PEST. For VOA sample E21K8, the laboratory was instructed to analyze only the solids that are in the jar, not the rocks.

Special Matrix Information

These samples were originally scheduled as soil samples. Cecilia Moore, USEPA Region 5 TPO, confirmed that there were 50 soil samples and 20 sludge samples scheduled. When the twenty-two samples arrived (SDGs E21K0 and E21M0), these samples were waste samples, not soils. The samples emitted very strong odors. (A list of the physical descriptions for all the samples is attached.)

Analysts began working on the samples. The odors from the samples caused three analysts to become ill after weighing up samples in hoods. The laboratory halted the analyses on July 17, 2002, until further information could be obtained. The laboratory sent to Dyncorp on July 17, 2002, detailed descriptions of the samples and the problems encountered. Since the Statement of Work is written for soil and water samples only, the laboratory asked Dyncorp for recommendations on how to handle these samples.

The sampler indicated to Dyncorp that the samples were from a landfill, so there was no background information or history.

The Region asked the laboratory what analysis could not be done. The laboratory explained that all samples for all analyses should be done as medium-level samples. There was health concerns for employees and there was also concern that the samples could contaminate the laboratory and the instrumentation. Also, due to the strong odors (many were solvent-like), there was a concern that the samples would flash when heated for the percent moisture.

On July 18, 2002, the Region instructed the laboratory to analyze all samples as medium-levels. Also, the laboratory would not be required to do clean-ups (GPC) on the samples, nor would the laboratory be required to analyzed for percent moisture.

On July 26, 2002, the laboratory informed Dyncorp, that because of the sample matrix, the laboratory could not do the pH on samples E21K0, E21K2, E21K3, E21K5, E21K6, E21K8, E21K9, E21L3, E21L4, E21L6 and E21L7.

On July 26, 2002, the laboratory also asked Dyncorp what matrix should be listed on the above table. Dyncorp informed the laboratory that due to the constraints of the electronic program, the reported matrix should be soil, not waste.

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99069

Case No.:30721 SDG No.: E21K0 Clayton Work Order No.: 2070399

Shipment Information

Eleven soil samples for Full Organics analysis were received on July 16, 2002, under Federal Express airbill no. 8276-7314-8935. The samples were received intact. The temperature of the cooler was 8.5°C

On the Traffic Report, there was not a signature in the "Sampler Signature" box, for the samples received July 16, 2002. Dyncorp was notified on July 17, 2002. The laboratory was instructed to proceed with the analysis.

Six soil samples for Full Organics analysis were received on July 17, 2002, under Federal Express airbill no. 8276-7314-8924. The samples were received intact. The temperature of the cooler was 8.8°C

Three soil samples for Full Organics analysis were received on July 17, 2002, under Federal Express airbill no. 8276-7314-8902. The samples were received intact. The temperature of the cooler was 5.0°C

The Traffic Report also indicated that the Case was not complete, however, the Shipping Notification form indicated that the Case was complete. Dyncorp was notified of the discrepancy on July 17, 2002. The sampler confirmed that the Case was complete.

Date Recv'd:	Cooler #:	Airbill #:	Sample ID:	Temperature (C):*
7/16/02	1	8276-7314-8935	E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K6, E21K7, E21K8, E21K9, E21L0	8.5
7/17/02	1	8276-7314-8924	E21L1, E21L2, E21L3, E21L4, E21L5, E21L6	8.8
7/17/02	2	8276-7314-8902	E21L7, E21L8, E21L9	5.0

*For the samples received in cooler 1 on July 17, 2002 a temperature blank was provided; however, it was located at the bottom of the cooler. According to the SOW, the temperature should be measured "prior to unpacking the samples or removing the packing material". The temperature blank was not used; the temperature was measured using an IR gun to comply with SOW requirements.

Analytical Information

VOA

Samples were extracted as medium-level samples (four grams of sample in ten milliliters of Methanol), with approval from the Region on July 18, 2002. Also, the percent moisture was not done on the samples, with the Region's approval. (Therefore, results are reported on a wet-weight basis.)

Sample E21K7 was prepared as a medium-level soil by extracting four grams of sample in fifteen milliliters of Methanol. A larger volume of Methanol was required since the sample completely absorbed the initial ten milliliters of Methanol.

The following samples foamed during purging: E21K1, E21K5, E21K9 and E21L8. The foaming prevented the analysis of these samples at a smaller dilution.

Manual integrations were performed on samples E21K1, E21K5, E21K6DL, E21L7 and VIBLKKB.

Samples E21K6 and E21L6 required a second dilution due to Chlorobenzene exceeded the instrument linear range. The results are reported as E21K6DL and E21L6DL.

In sample E21K8, the concentration of 1,2,4-Trichlorobenzene exceeded the instrument linear range. The sample was diluted and analyzed (E21K8DL).

In sample E21K7, the surrogates Bromofluorobenzene and 1,2-Dichloroethene-d4 were above the control limit. The sample was re-analyzed. In sample E21K7RE, the recovery of Bromofluorobenzene also exceeded the control limit.

In samples E21L2MS and E21L2MSD, the recovery of Chlorobenzene exceeded the advisory limit.

BNA

Among the target compounds in BNA analysis Indeno[1,2,3-cd]pyrene and Dibenzo[a,h]anthracene co-eluted. Both compounds share ions 278 and 139. Fortunately, there is no ion 276 in Dibenzo[a,h]anthracene, and there is only 6% of ion 278 (relative to ion 276); and only 3% of ion 139 (relative to ion 138) present in Indeno[1,2,3-cd]pyrene. When ion 276 is used as a quant ion for Indeno[1,2,3-cd]pyrene, there should not be any interference problem. However, there will be a 6% overlap of ion 278 which will cause less accuracy for Dibenzo[a,h]anthracene. To guard against this deficiency, we include the secondary ion of 279 and 139 for the compound Dibenzo[a,h]anthracene in the method used as a further qualitative tool because there is no ion 279 present in the Indeno[1,2,3-cd]pyrene.

Samples were extracted as medium-level samples, with approval from the Region on July 18, 2002. One gram of sample was used to extract. Also, the GPC clean-up and the percent moisture were not done on the samples, with the Region's approval. Therefore, the reporting limits will be affected by the lack of the GPC factor and the results are reported on a wet-weight basis.

Samples E21K0, E21K2, E21K3, E21K5, E21K6, E21K8, E21K9, E21L3, E21L4, E21L6 and E21L7 were not suitable for the pH analysis. Dyncorp was notified on July 26, 2002.

Manual integrations were performed on samples E21K1, E21K3, E21K3DL, E21K6, E21K8, E21L2, E21L2MS, E21L2MSD, E21L3, E21L5 and E21L7.

Results for samples E21K0, E21K2, E21K3, E21K5, E21K7, E21K8, E21L1, E21L2, E21L6 and E21L9 are reported from diluted runs, due to sample matrix. A further dilution was also required for E21K0, E21K3 and E21K7 due to a target compound exceeding instrument linearity. Results are reported in E21K0DL, E21K3DL, E21K7DL.

For samples E21K1, E21L5 and E21L8, the reported results are from an undiluted run. A further dilution was required, and is reported in E21K1DL, E21L5DL and E21L8DL.

Results for samples E21K0, E21K0DL, E21K6, E21K9, E21L3, E21L4 and E21L7 indicate C_{17} to C_{35} hydrocarbons present. (It is possibly either fuel or oil that is present in the sample matrix.)

Due to the extremely large dilution that was required in sample E21L5DL, the recoveries of the surrogate compounds were diluted out.

A Tentatively Identified Compound (TIC) was identified by the library search program as a target compound. The actual retention time of the target compound is known to be different than the TIC. The laboratory suspects that the TIC is an isomer of the particular target compound. This situation occurred in the following samples:
E21K0 (retention time of TIC = 10.13 minutes)
E21K2 (retention time of TIC = 10.12 minutes)
E21K6 (retention time of TIC = 10.13 minutes)
E21L7 (retention time of TIC = 10.9 minutes)

Pest/PCB

Channel A is the designation on the pesticides data from instrument PP-HP4D, which uses the DB-5MS column.
Channel B is the designation on the pesticides data from instrument PP-HP4D, which uses the DB-608 column.

Samples were extracted as medium-level samples, with approval from the Region on July 18, 2002. One gram of sample was used to extract. Also, the GPC clean-up and the percent moisture were not done on the samples, with the Region's approval. (Therefore, results are reported on a wet-weight basis.)

Samples E21K0, E21K2, E21K3, E21K5, E21K6, E21K8, E21K9, E21L3, E21L4, E21L6 and E21L7 were not suitable for the pH analysis. Dyncorp was notified on July 26, 2002.

Sample E21K7 was analyzed straight and at a dilution, due to the concentration of Heptachlor, Endrin and Aroclors 1242, 1254. The single component Pesticides detected are Aroclor peaks, in the opinion of the data reviewer. The peaks are reported as Pesticides to comply with the Statement of Work requirements.

GC/MS confirmation was performed on samples E21K2, E21K7, E21K8, E21L2, E21L4 and E21L6, using a library search. The GC/MS confirmation data is located in the Pesticide Sample Data section. All Aroclors were confirmed in these samples. Also, in sample E21L2, 4,4'-DDD was confirmed.

In samples E21K0 and E21K7, the Tetrachloro-m-xylene peak coeluted with an interfering peak, on column DB-608. Therefore, the retention time and the percent recovery are reported as 0 on Form II PEST-2 and Form VIII PEST.

In sample E21L4, the concentration of Aroclor 1254 and Aroclor 1260 exceeded the instrument linear range. The sample was diluted and analyzed (E21L4DL).

Sample E21L5 was analyzed at a one to one hundred dilution and a one to one thousand dilution, due to the poor sample matrix.

Sample E21L6 was analyzed at a one to one hundred dilution and a one to one thousand dilution, due to the high concentration of Aroclors 1242 and 1260. In the opinion of the data reviewer, the single component Pesticides detected are Aroclor peaks.

Sample E21K8 was analyzed at a one to five dilution and a one to fifty dilution, due to the sample matrix. Distorted patterns for Aroclors 1242 and 1254 were detected in the sample.

Sample E21L1 was analyzed at a one to ten dilution and a one to one hundred dilution, due to the matrix and also due to the concentration of 4,4'-DDT.

Sample E21L2 was analyzed at a one to ten dilution and a one to one hundred dilution, due to the matrix and also due to the concentration of 4,4'-DDT. In the opinion of the data reviewer, the single component Pesticides detected, including 4,4'-DDT, are part of the Aroclors (1242, 1254, 1260) detected in the sample.

In samples E21L2MS and E21L2MSD, the spiked Pesticide compounds were not recovered due to matrix interferences and the dilution that was required.

Sample E21L9 was analyzed at a one to ten dilution and a one to one hundred dilution, due to the matrix and also due to the concentration of 4,4'-DDD. Aroclors 1242, 1254 and 1260 are detected in this sample along with single component pesticides. In the opinion of the data reviewer, the single component Pesticides detected, are Aroclor peaks. The peaks are reported as Pesticides to comply with the Statement of Work requirements.

4,4'-DDD was confirmed by a GC/MS library search, for sample E21L9.

Sample E21L7 was analyzed at a one to ten dilution and a one to one hundred dilution, due to the matrix and also due to the concentration of 4,4'-DDT and 4,4'-DDD. 4,4'-DDD and 4,4'-DDT were confirmed by a GC/MS library search. The GC/MS confirmation data is included in the Pesticide Sample Data section.

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99069

Case No.:30721 SDG No.: E21K0 Clayton Work Order No.: 2070399

GC Columns

Instrument ID	Column Serial #	Brand Name	Internal Diameter (mm)	Length (Meters)	Coating Material	Film Thickness (µm)
VOA						
MS-HP11K	451951	Restek	0.25	60	RTX-624	1.4
BNA						
MS-HP7G	221311	Restek	0.25	30	XTI-5	1
Pesticides						
PP-HP4D	9255825	J & W Scientific	0.53	30	DB-5MS	1.5
PP-HP4D	0503115	J & W Scientific	0.53	30	DB-608	0.83

VOA Traps

Trap Name	Packing Material/ Brand Name	Composition	Amount/Length (cm)
Supelco Purge & Trap K Vocarb 3000	Supelco	Carbopak B	10 cm
		Carboxen 1000	6 cm
		Carboxen 1001	1 cm

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99069

Case No.:30721 SDG No.: E21K0 Clayton Work Order No.: 2070399

Tentatively Identified Alkanes of Volatiles Analysis

EPA Sample No.	n-Alkane (ug/Kg)	Branched Alkane (ug/Kg)	Cyclic Alkane (ug/Kg)
E21K0	0	0	0
E21K1	0	0	0
E21K2	94,000	20,000	0
E21K3	0	45,000	0
E21K4	0	0	0
E21K5	0	0	0
E21K6	16,000	0	16,000
E21K6DL		0	0
E21K7	0	0	0
E21K7RE	0	0	0
E21K8	2500	0	1000
E21K8DL	0	0	0
E21K9	0	0	0
E21L1	0	0	0
E21L2	2700	8200	2600
E21L2MS			
E21L2MSD			
E21L3	0	0	0
E21L4	0	0	140,000
E21L5	0	0	0
E21L6	0	0	0
E21L6DL	0	0	0
E21L7	15,000	120,000	470,000
E21L8	0	0	0
E21L9	0	0	110,000
VBLKKC	0	0	0
VBLKKD	0	0	0
VBLKKH	0	0	0
VBLKKI	0	0	0
VBLKKJ	0	0	0
VHBLKKA	0	0	0
VIBLKKA	0	0	0
VIBLKKB	0	0	0

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99069

Case No.:30721 SDG No.: E21K0 Clayton Work Order No.: 2070399

Tentatively Identified Alkanes of Semivolatile Analysis

EPA Sample No.	n-Alkane (ug/Kg)	Branched Alkane (ug/Kg)	Cyclic Alkane (ug/Kg)
E21K0	7,900,000	1,500,000	210,000
E21K0DL	14,000,000	3,500,000	0
E21K1	31,000	0	6000
E21K1DL	94,000	40,000	0
E21K2	12,000	0	0
E21K3	0	0	0
E21K3DL	0	0	0
E21K4	0	1700	0
E21K5	0	0	0
E21K6	9,700,000	1,000,000	0
E21K7	0	0	0
E21K7DL	0	0	0
E21K8	62,000	9100	0
E21K9	890,000	330,000	0
E21L1	0	0	0
E21L2	43,000	33,000	0
E21L2MS			
E21L2MSD			
E21L3	9,300,000	3,500,000	0
E21L4	14,000,000	2,600,000	0
E21L5	0	0	0
E21L5DL	0	0	0
E21L6	1,700,000	310,000	0
E21L7	14,000,000	5,000,000	0
E21L8	0	0	0
E21L8DL	0	0	0
E21L9	230,000	0	28,000
SBLKS1	0	0	0
SBLKS2	0	0	0

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99069

Case No.:30721 SDG No.: E21K0 Clayton Work Order No.: 2070399

Technical/Administrative Problems and Corrective Actions

For the VOA and BNA analysis, the Hewlett-Packard software flags all manual edits or any compounds affected by the manual edit of an internal standard with an "m" on the reports. The peak is displayed with the baseline of the manual edits and is documented along with the associated "m" flag on the quant report and spectra report. These edits were necessary due to poor computer integration.

For the pesticide/PCB analysis, all manual edits are documented in the Timed Event Table and are flagged with a capital "M." The time with a "M" indicates the start time and a -M indicates the stop time of the integration. The baseline is then drawn and displayed on the corresponding chromatogram. These manual integrations were necessary due to poor computer integration.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Karen Coorau for Date 7/31/02

Tim Fields
Organic Laboratory Manager

Lab Name: Clayton Group Services (CLAYTN) Contract No.: 68-W-99069

Case No.:30721 SDG No.: E21K0 Clayton Work Order No.: 2070399

LABORATORY OBSERVATIONS

The following are physical descriptions for the samples in SDG E21K0:

E21K0: Brown solid (fine sand or filter cake-like) and paper (very noxious odor)
E21K1: Black crystals (dissolved completely in Methanol when prepping for VOA)
E21K2: Black, thick fabric
E21K3: Thick brown sticky resin/solvent with brown solids (when prepping for PEST extractions, the Sodium sulfate was coating the outside of the sample and would not break-up)
E21K4: Hard brown-black solid pieces (slag); does not have as strong of an odor
E21K5: Black sticky tar-like (dissolved completely in Methanol when prepping for VOA, then it appeared ink-like)
E21K6: Brown solid (fine sand or filter cake-like) and paper (very noxious odor)
E21K7: Dark purple/black moist solids, like a filter cake (dissolved completely in Methanol when prepping for VOA)
E21K8: Black rocks (VOA jar also contained black crystals)
E21K9: Mixed black/white/brown moist solid (like a filter-cake) (very noxious odor)
E21L0: Concrete (no odor)
E21L1: Large shiny black chunks (like coal)
E21L2: Black oily, rocky, mud-like solid
E21L3: Tan-brown moist crumbly solids, filter cake-like (very noxious odor)
E21L4: Crumbly moist brown solids
E21L5: Grayish- pink soft rock-like
E21L6: Moist black solids and beads
E21L7: Brown moist solids (very noxious odor)
E21L8: Moist, off-white sand-like granules smells like a weed-killer (dissolved completely in Methanol when prepping for VOA)
E21L9: Black moist soil and rocks
E21M0: Black solids, soil-like
E21M1: Brown rocks and brown solids (smells like amines)

Record of Communication
From Karen Coonan, Clayton Group Services

7/18/02 11:15PM - I spoke to Cecilia Moore, USEPA Region 5 PO, regarding Case 30721. Because of the hazardous nature of the samples, Cecilia said that Terry Smith, Mike Johnson and herself agreed that the laboratory should proceed as follows: all analyses should be done as medium-level analyses (for VOA, BNA and PEST). Also, the laboratory does not need to do clean-ups (GPC) because of the potential to contaminate equipment; the laboratory does not need to do percent moisture because of the concern that the samples will flash in the oven. The lab will need to submit a waiver so that there will be no screen errors for the GPC clean-up and percent moisture.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-010A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6720.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~5500~~ 25000	~~B~~ U ST 8/6/02
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	25000	U
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	25000	U
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	3400	J
107-06-2	1,2-Dichloroethane	25000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6757.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 15000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	38000	U
74-87-3	Chloromethane	38000	U
75-01-4	Vinyl Chloride	38000	U
74-83-9	Bromomethane	38000	U
75-00-3	Chloroethane	38000	U
75-69-4	Trichlorofluoromethane	38000	U
75-35-4	1,1-Dichloroethene	38000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	38000	U
67-64-1	Acetone	~~14000~~ 38000	~~BJ~~ U
75-15-0	Carbon Disulfide	38000	U
79-20-9	Methyl Acetate	38000	U
75-09-2	Methylene Chloride	38000	U
156-60-5	trans-1,2-Dichloroethene	38000	U
1634-04-4	Methyl tert-Butyl Ether	38000	U
75-34-3	1,1-Dichloroethane	38000	U
156-59-2	cis-1,2-Dichloroethene	38000	U
78-93-3	2-Butanone	38000	U
67-66-3	Chloroform	38000	U
71-55-6	1,1,1-Trichloroethane	38000	U
110-82-7	Cyclohexane	38000	U
56-23-5	Carbon Tetrachloride	38000	U
71-43-2	Benzene	14000	J
107-06-2	1,2-Dichloroethane	38000	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6757.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 15000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	5600	J
108-87-2	Methylcyclohexane	38000	U
78-87-5	1,2-Dichloropropane	38000	U
75-27-4	Bromodichloromethane	38000	U
10061-01-5	cis-1,3-Dichloropropene	38000	U
108-10-1	4-Methyl-2-pentanone	12000	J
108-88-3	Toluene	47000	
10061-02-6	trans-1,3-Dichloropropene	38000	U
79-00-5	1,1,2-Trichloroethane	38000	U
127-18-4	Tetrachloroethene	12000	J
591-78-6	2-Hexanone	38000	U
124-48-1	Dibromochloromethane	38000	U
106-93-4	1,2-Dibromoethane	38000	U
108-90-7	Chlorobenzene	190000	
100-41-4	Ethylbenzene	16000	J
1330-20-7	Xylene (total)	62000	
100-42-5	Styrene	38000	U
75-25-2	Bromoform	38000	U
98-82-8	Isopropylbenzene	38000	U
79-34-5	1,1,2,2-Tetrachloroethane	38000	U
541-73-1	1,3-Dichlorobenzene	38000	U
106-46-7	1,4-Dichlorobenzene	12000	J
95-50-1	1,2-Dichlorobenzene	4500	J
96-12-8	1,2-Dibromo-3-chloropropane	38000	U
120-82-1	1,2,4-Trichlorobenzene	~~14000~~ 38000	~~BJ~~ U

ST 8/6/02

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6757.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 15000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000100-00-5	Benzene, 1-chloro-4-nitro-	22.53	71000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7RE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6759.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 20.00

Soil Extract Volume: 15000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	38000	U
74-87-3	Chloromethane	38000	U
75-01-4	Vinyl Chloride	38000	U
74-83-9	Bromomethane	38000	U
75-00-3	Chloroethane	38000	U
75-69-4	Trichlorofluoromethane	38000	U
75-35-4	1,1-Dichloroethene	38000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	38000	U
67-64-1	Acetone	~~14000~~ 38000	~~B~~ U
75-15-0	Carbon Disulfide	38000	U
79-20-9	Methyl Acetate	38000	U
75-09-2	Methylene Chloride	38000	U
156-60-5	trans-1,2-Dichloroethene	38000	U
1634-04-4	Methyl tert-Butyl Ether	38000	U
75-34-3	1,1-Dichloroethane	38000	U
156-59-2	cis-1,2-Dichloroethene	38000	U
78-93-3	2-Butanone	38000	U
67-66-3	Chloroform	38000	U
71-55-6	1,1,1-Trichloroethane	38000	U
110-82-7	Cyclohexane	38000	U
56-23-5	Carbon Tetrachloride	38000	U
71-43-2	Benzene	16000	J
107-06-2	1,2-Dichloroethane	38000	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7RE

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6759.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 20.00

Soil Extract Volume: 15000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	7500	J
108-87-2	Methylcyclohexane	38000	U
78-87-5	1,2-Dichloropropane	38000	U
75-27-4	Bromodichloromethane	38000	U
10061-01-5	cis-1,3-Dichloropropene	38000	U
108-10-1	4-Methyl-2-pentanone	14000	J
108-88-3	Toluene	55000	
10061-02-6	trans-1,3-Dichloropropene	38000	U
79-00-5	1,1,2-Trichloroethane	38000	U
127-18-4	Tetrachloroethene	14000	J
591-78-6	2-Hexanone	38000	U
124-48-1	Dibromochloromethane	38000	U
106-93-4	1,2-Dibromoethane	38000	U
108-90-7	Chlorobenzene	220000	
100-41-4	Ethylbenzene	21000	J
1330-20-7	Xylene (total)	74000	
100-42-5	Styrene	38000	U
75-25-2	Bromoform	38000	U
98-82-8	Isopropylbenzene	38000	U
79-34-5	1,1,2,2-Tetrachloroethane	38000	U
541-73-1	1,3-Dichlorobenzene	38000	U
106-46-7	1,4-Dichlorobenzene	8100	J
95-50-1	1,2-Dichlorobenzene	4400	J
96-12-8	1,2-Dibromo-3-chloropropane	38000	U
120-82-1	1,2,4-Trichlorobenzene	~~32000~~ ~~38000~~ 32000	~~BJ~~ BJ

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ST 8/12/02 ST 8/12/02

1F

EPA SAMPLE NO.

E21K7RE

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6759.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 20.00

Soil Extract Volume: 15000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 4 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-83-8	Cyclohexene	9.97	31000	NJ
2. 000100-00-5	Benzene, 1-chloro-4-nitro-	22.53	78000	NJ
3. 000088-73-3	2-Chloronitrobenzene	22.95	22000	NJ
4. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	23.47	22000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6738.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	~~620~~ 1300	~~B~~ U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	370	J
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	590	J
107-06-2	1,2-Dichloroethane	1300	U

G 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6738.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	180	J
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	480	J
108-88-3	Toluene	3300	
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	220	J
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	8100	
100-41-4	Ethylbenzene	3100	
1330-20-7	Xylene (total)	12000	
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	3400	
95-50-1	1,2-Dichlorobenzene	1900	
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	40000	EB ✓

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6738.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 24 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (5.12)	5.12	3800	J
2. 000110-83-8	Cyclohexene	9.97	2600	NJ
3.	unknown (15.63)	15.63	1400	J
4. 000611-14-3	Benzene, 1-ethyl-2-methyl- (16.	16.41	1900	NJ
5. 000095-63-6	Benzene, 1,2,4-trimethyl-	16.53	880	NJ
6. 000611-14-3	Benzene, 1-ethyl-2-methyl- (16.	16.86	990	NJ
7. 000526-73-8	Benzene, 1,2,3-trimethyl-	17.12	3400	NJ
8.	unknown (18.13)	18.13	4600	J
9. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	18.64	2600	NJ
10. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	18.74	2600	NJ
11.	unknown (18.97)	18.97	2200	J
12. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	19.23	1900	NJ
13. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.37	2300	NJ
14. 000527-53-7	Benzene, 1,2,3,5-tetramethyl- (	19.45	3700	NJ
15.	unknown (19.78)	19.78	860	J
16. 001587-04-8	Benzene, 1-methyl-2-(2-propenyl	19.90	1600	NJ
17. 000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	20.13	4500	NJ
18. 000614-72-2	Benzene, 1-chloro-2-ethoxy-	20.64	11000	NJ
19. 000108-70-3	Benzene, 1,3,5-trichloro-	21.63	29000	NJ
20. 000100-00-5	Benzene, 1-chloro-4-nitro- (22.	22.53	2100	NJ
21. 000000-00-0	2,4,5-TRICHLORTOLUENE	22.88	1900	NJ
22. 000100-00-5	Benzene, 1-chloro-4-nitro- (22.	22.95	1600	NJ
23. 002077-46-5	Benzene, 1,2,4-trichloro-3-meth	23.09	1300	NJ
24. 000634-90-2	Benzene, 1,2,3,5-tetrachloro-	23.47	59000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6758.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	5000	U
75-01-4	Vinyl Chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-4	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	5000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	~~2400~~ 5000	~~DB~~ U
75-15-0	Carbon Disulfide	5000	U
79-20-9	Methyl Acetate	5000	U
75-09-2	Methylene Chloride	5000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
1634-04-4	Methyl tert-Butyl Ether	5000	U
75-34-3	1,1-Dichloroethane	5000	U
156-59-2	cis-1,2-Dichloroethene	5000	U
78-93-3	2-Butanone	5000	U
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	5000	U
110-82-7	Cyclohexane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
71-43-2	Benzene	660	DJ
107-06-2	1,2-Dichloroethane	5000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6758.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	5000	U
108-87-2	Methylcyclohexane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
75-27-4	Bromodichloromethane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	500	DJ
108-88-3	Toluene	3000	DJ
10061-02-6	trans-1,3-Dichloropropene	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	7100	D
100-41-4	Ethylbenzene	3000	DJ
1330-20-7	Xylene (total)	11000	D
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
541-73-1	1,3-Dichlorobenzene	520	DJ
106-46-7	1,4-Dichlorobenzene	3500	DJ
95-50-1	1,2-Dichlorobenzene	1800	DJ
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	33000	DB

1F

EPA SAMPLE NO.

E21K8DL

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6758.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 25 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (4.74)	4.74	2600	J
2.	unknown (5.04)	5.04	3700	J
3. 000614-72-2	Benzene, 1-chloro-2-ethoxy-	20.64	5400	NJ
4. 000087-61-6	Benzene, 1,2,3-trichloro-	21.63	14000	NJ
5. 000634-90-2	Benzene, 1,2,3,5-tetrachloro-	23.47	28000	NJ

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-016A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6743.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	13000	U
108-87-2	Methylcyclohexane	13000	U
78-87-5	1,2-Dichloropropane	13000	U
75-27-4	Bromodichloromethane	13000	U
10061-01-5	cis-1,3-Dichloropropene	13000	U
108-10-1	4-Methyl-2-pentanone	13000	U
108-88-3	Toluene	13000	U
10061-02-6	trans-1,3-Dichloropropene	13000	U
79-00-5	1,1,2-Trichloroethane	13000	U
127-18-4	Tetrachloroethene	13000	U
591-78-6	2-Hexanone	13000	U
124-48-1	Dibromochloromethane	13000	U
106-93-4	1,2-Dibromoethane	13000	U
108-90-7	Chlorobenzene	100000	
100-41-4	Ethylbenzene	13000	U
1330-20-7	Xylene (total)	13000	U
100-42-5	Styrene	13000	U
75-25-2	Bromoform	13000	U
98-82-8	Isopropylbenzene	13000	U
79-34-5	1,1,2,2-Tetrachloroethane	13000	U
541-73-1	1,3-Dichlorobenzene	4800	J
106-46-7	1,4-Dichlorobenzene	30000	
95-50-1	1,2-Dichlorobenzene	2100	J
96-12-8	1,2-Dibromo-3-chloropropane	13000	U
120-82-1	1,2,4-Trichlorobenzene	~~7300~~ 13000	~~B~~ U

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1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-016A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6743.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 10 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (5.04)	5.04	8300	J
2. 000100-66-3	Benzene, methoxy-	15.86	11000	NJ
3. 000090-05-1	Phenol, 2-methoxy-	19.61	15000	NJ
4. 000766-51-8	Benzene, 1-chloro-2-methoxy-	19.86	10000	NJ
5. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	23.46	7600	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6742.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	5000	U
75-01-4	Vinyl Chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-4	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	5000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	~~1700~~ 5000	~~BJ~~ U
75-15-0	Carbon Disulfide	5000	U
79-20-9	Methyl Acetate	5000	U
75-09-2	Methylene Chloride	1100	J
156-60-5	trans-1,2-Dichloroethene	5000	U
1634-04-4	Methyl tert-Butyl Ether	5000	U
75-34-3	1,1-Dichloroethane	5000	U
156-59-2	cis-1,2-Dichloroethene	5000	U
78-93-3	2-Butanone	5000	U
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	5000	U
110-82-7	Cyclohexane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
71-43-2	Benzene	1700	J
107-06-2	1,2-Dichloroethane	5000	U

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1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21K9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-010A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6720.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (23.11)	23.11	42000	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-016A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6743.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 10 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	13000	U
74-87-3	Chloromethane	13000	U
75-01-4	Vinyl Chloride	13000	U
74-83-9	Bromomethane	13000	U
75-00-3	Chloroethane	13000	U
75-69-4	Trichlorofluoromethane	13000	U
75-35-4	1,1-Dichloroethene	13000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13000	U
67-64-1	Acetone	~~3000~~ 13000	~~BJ~~ U
75-15-0	Carbon Disulfide	13000	U
79-20-9	Methyl Acetate	12000	J
75-09-2	Methylene Chloride	2300	J
156-60-5	trans-1,2-Dichloroethene	13000	U
1634-04-4	Methyl tert-Butyl Ether	13000	U
75-34-3	1,1-Dichloroethane	13000	U
156-59-2	cis-1,2-Dichloroethene	13000	U
78-93-3	2-Butanone	13000	U
67-66-3	Chloroform	13000	U
71-55-6	1,1,1-Trichloroethane	13000	U
110-82-7	Cyclohexane	13000	U
56-23-5	Carbon Tetrachloride	13000	U
71-43-2	Benzene	5200	J
107-06-2	1,2-Dichloroethane	13000	U

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1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6746.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 25 (µL)

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (4.76)	4.76	2600	J
2.	unknown (5.05)	5.05	7900	J

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6725.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	25000	U
108-87-2	Methylcyclohexane	5800	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	25000	U
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	25000	U
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	720000	E
100-41-4	Ethylbenzene	70000	
1330-20-7	Xylene (total)	13000	J
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	20000	J
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	47000	
106-46-7	1,4-Dichlorobenzene	330000	
95-50-1	1,2-Dichlorobenzene	9700	J
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	~~3600~~ 25000	~~BJ~~ U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6725.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~5200~~ 25000	~~B~~ U
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	25000	U
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	25000	U
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	320000	
107-06-2	1,2-Dichloroethane	25000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017D

Sample wt/vol: 4 (g/mL) G Lab File ID: K6773.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	25000	
108-87-2	Methylcyclohexane	950	J
78-87-5	1,2-Dichloropropane	5000	U
75-27-4	Bromodichloromethane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	28000	
10061-02-6	trans-1,3-Dichloropropene	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	110000	E
100-41-4	Ethylbenzene	760	J
1330-20-7	Xylene (total)	660	J
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
541-73-1	1,3-Dichlorobenzene	6000	
106-46-7	1,4-Dichlorobenzene	47000	
95-50-1	1,2-Dichlorobenzene	2700	J
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	~~3100~~ 5000	~~B~~ U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-018A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6744.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 0.5 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000110-83-8	Cyclohexene	9.97	790000	NJ

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6742.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 25 (µL)

CONCENTRATION UNITS:

Number TICs found: 5 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (4.74)	4.74	2600	J
2.	unknown (5.04)	5.04	8300	J
3.	unknown (15.35)	15.35	3200	J
4. 000526-73-8	Benzene, 1,2,3-trimethyl-	17.13	3200	NJ
5. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	23.44	5600	NJ

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017C

Sample wt/vol: 4 (g/mL) G Lab File ID: K6770.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	25000	
108-87-2	Methylcyclohexane	1100	J
78-87-5	1,2-Dichloropropane	5000	U
75-27-4	Bromodichloromethane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	29000	
10061-02-6	trans-1,3-Dichloropropene	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	110000	E
100-41-4	Ethylbenzene	750	J
1330-20-7	Xylene (total)	670	J
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
541-73-1	1,3-Dichlorobenzene	5800	
106-46-7	1,4-Dichlorobenzene	48000	
95-50-1	1,2-Dichlorobenzene	3100	J
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	5400	B ✓

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017C

Sample wt/vol: 4 (g/mL) G Lab File ID: K6770.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	5000	U
75-01-4	Vinyl Chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-4	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	27000	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	~~1200~~ 5000	~~B~~ U
75-15-0	Carbon Disulfide	5000	U
79-20-9	Methyl Acetate	5000	U
75-09-2	Methylene Chloride	5000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
1634-04-4	Methyl tert-Butyl Ether	5000	U
75-34-3	1,1-Dichloroethane	5000	U
156-59-2	cis-1,2-Dichloroethene	5000	U
78-93-3	2-Butanone	850	J
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	5000	U
110-82-7	Cyclohexane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
71-43-2	Benzene	29000	
107-06-2	1,2-Dichloroethane	5000	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017D

Sample wt/vol: 4 (g/mL) G Lab File ID: K6773.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	5000	U
75-01-4	Vinyl Chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-4	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	30000	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	5000	U
75-15-0	Carbon Disulfide	5000	U
79-20-9	Methyl Acetate	5000	U
75-09-2	Methylene Chloride	5000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
1634-04-4	Methyl tert-Butyl Ether	5000	U
75-34-3	1,1-Dichloroethane	5000	U
156-59-2	cis-1,2-Dichloroethene	5000	U
78-93-3	2-Butanone	5000	U
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	5000	U
110-82-7	Cyclohexane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
71-43-2	Benzene	29000	
107-06-2	1,2-Dichloroethane	5000	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-018A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6744.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 0.5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	250000	U
74-87-3	Chloromethane	250000	U
75-01-4	Vinyl Chloride	26000	J
74-83-9	Bromomethane	250000	U
75-00-3	Chloroethane	250000	U
75-69-4	Trichlorofluoromethane	250000	U
75-35-4	1,1-Dichloroethene	250000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250000	U
67-64-1	Acetone	~~72000~~ 250000	~~BJ~~ U
75-15-0	Carbon Disulfide	250000	U
79-20-9	Methyl Acetate	250000	U
75-09-2	Methylene Chloride	250000	U
156-60-5	trans-1,2-Dichloroethene	250000	U
1634-04-4	Methyl tert-Butyl Ether	250000	U
75-34-3	1,1-Dichloroethane	250000	U
156-59-2	cis-1,2-Dichloroethene	140000	J
78-93-3	2-Butanone	250000	U
67-66-3	Chloroform	250000	U
71-55-6	1,1,1-Trichloroethane	250000	U
110-82-7	Cyclohexane	250000	U
56-23-5	Carbon Tetrachloride	250000	U
71-43-2	Benzene	96000	J
107-06-2	1,2-Dichloroethane	250000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-018A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6744.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 0.5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	250000	U
108-87-2	Methylcyclohexane	250000	U
78-87-5	1,2-Dichloropropane	250000	U
75-27-4	Bromodichloromethane	250000	U
10061-01-5	cis-1,3-Dichloropropene	250000	U
108-10-1	4-Methyl-2-pentanone	250000	U
108-88-3	Toluene	290000	
10061-02-6	trans-1,3-Dichloropropene	250000	U
79-00-5	1,1,2-Trichloroethane	250000	U
127-18-4	Tetrachloroethene	85000	J
591-78-6	2-Hexanone	250000	U
124-48-1	Dibromochloromethane	250000	U
106-93-4	1,2-Dibromoethane	250000	U
108-90-7	Chlorobenzene	1500000	
100-41-4	Ethylbenzene	250000	U
1330-20-7	Xylene (total)	35000	J
100-42-5	Styrene	250000	U
75-25-2	Bromoform	250000	U
98-82-8	Isopropylbenzene	250000	U
79-34-5	1,1,2,2-Tetrachloroethane	250000	U
541-73-1	1,3-Dichlorobenzene	250000	U
106-46-7	1,4-Dichlorobenzene	68000	J
95-50-1	1,2-Dichlorobenzene	45000	J
96-12-8	1,2-Dibromo-3-chloropropane	250000	U
120-82-1	1,2,4-Trichlorobenzene	~~49000~~ 250000	~~BJ~~ U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-019A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6745.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 2.5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	50000	U
74-87-3	Chloromethane	50000	U
75-01-4	Vinyl Chloride	50000	U
74-83-9	Bromomethane	50000	U
75-00-3	Chloroethane	50000	U
75-69-4	Trichlorofluoromethane	50000	U
75-35-4	1,1-Dichloroethene	50000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50000	U
67-64-1	Acetone	~~12000~~ 50000	~~BJ~~ U
75-15-0	Carbon Disulfide	50000	U
79-20-9	Methyl Acetate	50000	U
75-09-2	Methylene Chloride	11000	J
156-60-5	trans-1,2-Dichloroethene	50000	U
1634-04-4	Methyl tert-Butyl Ether	50000	U
75-34-3	1,1-Dichloroethane	50000	U
156-59-2	cis-1,2-Dichloroethene	50000	U
78-93-3	2-Butanone	50000	U
67-66-3	Chloroform	50000	U
71-55-6	1,1,1-Trichloroethane	50000	U
110-82-7	Cyclohexane	50000	U
56-23-5	Carbon Tetrachloride	50000	U
71-43-2	Benzene	97000	
107-06-2	1,2-Dichloroethane	50000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-019A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6745.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 2.5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	50000	U
108-87-2	Methylcyclohexane	6700	J
78-87-5	1,2-Dichloropropane	50000	U
75-27-4	Bromodichloromethane	50000	U
10061-01-5	cis-1,3-Dichloropropene	50000	U
108-10-1	4-Methyl-2-pentanone	50000	U
108-88-3	Toluene	50000	U
10061-02-6	trans-1,3-Dichloropropene	50000	U
79-00-5	1,1,2-Trichloroethane	50000	U
127-18-4	Tetrachloroethene	50000	U
591-78-6	2-Hexanone	50000	U
124-48-1	Dibromochloromethane	50000	U
106-93-4	1,2-Dibromoethane	50000	U
108-90-7	Chlorobenzene	580000	
100-41-4	Ethylbenzene	50000	U
1330-20-7	Xylene (total)	50000	U
100-42-5	Styrene	50000	U
75-25-2	Bromoform	50000	U
98-82-8	Isopropylbenzene	50000	U
79-34-5	1,1,2,2-Tetrachloroethane	50000	U
541-73-1	1,3-Dichlorobenzene	16000	J
106-46-7	1,4-Dichlorobenzene	92000	
95-50-1	1,2-Dichlorobenzene	12000	J
96-12-8	1,2-Dibromo-3-chloropropane	50000	U
120-82-1	1,2,4-Trichlorobenzene	~~21000~~ 50000	~~BJ~~ U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-019A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6745.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 2.5 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6746.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	5000	U
74-87-3	Chloromethane	5000	U
75-01-4	Vinyl Chloride	5000	U
74-83-9	Bromomethane	5000	U
75-00-3	Chloroethane	5000	U
75-69-4	Trichlorofluoromethane	5000	U
75-35-4	1,1-Dichloroethene	5000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5000	U
67-64-1	Acetone	~~1600~~ 5000	~~BJ~~ U
75-15-0	Carbon Disulfide	5000	U
79-20-9	Methyl Acetate	5000	U
75-09-2	Methylene Chloride	5000	U
156-60-5	trans-1,2-Dichloroethene	5000	U
1634-04-4	Methyl tert-Butyl Ether	5000	U
75-34-3	1,1-Dichloroethane	5000	U
156-59-2	cis-1,2-Dichloroethene	5000	U
78-93-3	2-Butanone	560	J
67-66-3	Chloroform	5000	U
71-55-6	1,1,1-Trichloroethane	5000	U
110-82-7	Cyclohexane	5000	U
56-23-5	Carbon Tetrachloride	5000	U
71-43-2	Benzene	63000	
107-06-2	1,2-Dichloroethane	5000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6746.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	5000	U
108-87-2	Methylcyclohexane	5000	U
78-87-5	1,2-Dichloropropane	5000	U
75-27-4	Bromodichloromethane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	800	J
10061-02-6	trans-1,3-Dichloropropene	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	13000	
100-41-4	Ethylbenzene	740	J
1330-20-7	Xylene (total)	5000	U
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
541-73-1	1,3-Dichlorobenzene	800	J
106-46-7	1,4-Dichlorobenzene	10000	
95-50-1	1,2-Dichlorobenzene	1500	J
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	~~2300~~ 5000	~~BJ~~ U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6725.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 11 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000103-65-1	Benzene, propyl-	16.29	65000	NJ
2. 000135-98-8	Benzene, (1-methylpropyl)-	17.37	27000	NJ
3. 000104-51-8	Benzene, butyl-	18.19	72000	NJ
4.	unknown (18.95)	18.95	13000	J
5. 000538-68-1	Benzene, pentyl-	19.89	35000	NJ
6. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro	20.45	280000	NJ
7. 067519-35-1	2-Methyl-1,2,3,4-terahydronapht	21.28	50000	NJ
8. 001559-81-5	Naphthalene, 1,2,3,4-tetrahydro	21.44	17000	NJ
9.	unknown (21.53)	21.53	17000	J
10. 002809-64-5	Naphthalene, 1,2,3,4-tetrahydro	22.08	27000	NJ
11.	unknown (23.13)	23.13	21000	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6747.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 1 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	130000	U
74-87-3	Chloromethane	130000	U
75-01-4	Vinyl Chloride	130000	U
74-83-9	Bromomethane	130000	U
75-00-3	Chloroethane	130000	U
75-69-4	Trichlorofluoromethane	130000	U
75-35-4	1,1-Dichloroethene	130000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	130000	U
67-64-1	Acetone	130000	U
75-15-0	Carbon Disulfide	130000	U
79-20-9	Methyl Acetate	130000	U
75-09-2	Methylene Chloride	13000	DJ
156-60-5	trans-1,2-Dichloroethene	130000	U
1634-04-4	Methyl tert-Butyl Ether	130000	U
75-34-3	1,1-Dichloroethane	130000	U
156-59-2	cis-1,2-Dichloroethene	130000	U
78-93-3	2-Butanone	130000	U
67-66-3	Chloroform	130000	U
71-55-6	1,1,1-Trichloroethane	130000	U
110-82-7	Cyclohexane	130000	U
56-23-5	Carbon Tetrachloride	130000	U
71-43-2	Benzene	340000	D
107-06-2	1,2-Dichloroethane	130000	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6747.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 1 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	130000	U
108-87-2	Methylcyclohexane	130000	U
78-87-5	1,2-Dichloropropane	130000	U
75-27-4	Bromodichloromethane	130000	U
10061-01-5	cis-1,3-Dichloropropene	130000	U
108-10-1	4-Methyl-2-pentanone	130000	U
108-88-3	Toluene	130000	U
10061-02-6	trans-1,3-Dichloropropene	130000	U
79-00-5	1,1,2-Trichloroethane	130000	U
127-18-4	Tetrachloroethene	130000	U
591-78-6	2-Hexanone	130000	U
124-48-1	Dibromochloromethane	130000	U
106-93-4	1,2-Dibromoethane	130000	U
108-90-7	Chlorobenzene	680000	D
100-41-4	Ethylbenzene	63000	DJ
1330-20-7	Xylene (total)	130000	U
100-42-5	Styrene	130000	U
75-25-2	Bromoform	130000	U
98-82-8	Isopropylbenzene	20000	DJ
79-34-5	1,1,2,2-Tetrachloroethane	130000	U
541-73-1	1,3-Dichlorobenzene	58000	DJ
106-46-7	1,4-Dichlorobenzene	320000	D
95-50-1	1,2-Dichlorobenzene	130000	U
96-12-8	1,2-Dibromo-3-chloropropane	130000	U
120-82-1	1,2,4-Trichlorobenzene	~~23000~~ 130000	DB~~J~~U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L6DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6747.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 1 (µL)

CONCENTRATION UNITS:

Number TICs found: 7 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	unknown (16.29)	16.29	93000	J
2. 000104-51-8	Benzene, butyl-	18.18	120000	NJ
3. 000538-68-1	Benzene, pentyl-	19.90	75000	NJ
4. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro	20.44	390000	NJ
5. 067519-35-1	2-Methyl-1,2,3,4-terahydronapht	21.30	100000	NJ
6. 001077-16-3	Benzene, hexyl-	21.52	75000	NJ
7. 001680-51-9	Naphthalene, 1,2,3,4-tetrahydro	22.08	81000	NJ

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6742.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 25 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	5000	U
108-87-2	Methylcyclohexane	880	J
78-87-5	1,2-Dichloropropane	5000	U
75-27-4	Bromodichloromethane	5000	U
10061-01-5	cis-1,3-Dichloropropene	5000	U
108-10-1	4-Methyl-2-pentanone	5000	U
108-88-3	Toluene	5000	U
10061-02-6	trans-1,3-Dichloropropene	5000	U
79-00-5	1,1,2-Trichloroethane	5000	U
127-18-4	Tetrachloroethene	5000	U
591-78-6	2-Hexanone	5000	U
124-48-1	Dibromochloromethane	5000	U
106-93-4	1,2-Dibromoethane	5000	U
108-90-7	Chlorobenzene	63000	
100-41-4	Ethylbenzene	590	J
1330-20-7	Xylene (total)	5000	U
100-42-5	Styrene	5000	U
75-25-2	Bromoform	5000	U
98-82-8	Isopropylbenzene	5000	U
79-34-5	1,1,2,2-Tetrachloroethane	5000	U
541-73-1	1,3-Dichlorobenzene	4400	J
106-46-7	1,4-Dichlorobenzene	33000	
95-50-1	1,2-Dichlorobenzene	2200	J
96-12-8	1,2-Dibromo-3-chloropropane	5000	U
120-82-1	1,2,4-Trichlorobenzene	~~4700~~ 5000	~~BJ~~ U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-022A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6748.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	25000	U
74-87-3	Chloromethane	25000	U
75-01-4	Vinyl Chloride	25000	U
74-83-9	Bromomethane	25000	U
75-00-3	Chloroethane	25000	U
75-69-4	Trichlorofluoromethane	25000	U
75-35-4	1,1-Dichloroethene	25000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25000	U
67-64-1	Acetone	~~6400~~ 25000	~~BJ~~ U
75-15-0	Carbon Disulfide	25000	U
79-20-9	Methyl Acetate	25000	U
75-09-2	Methylene Chloride	2700	J
156-60-5	trans-1,2-Dichloroethene	25000	U
1634-04-4	Methyl tert-Butyl Ether	25000	U
75-34-3	1,1-Dichloroethane	25000	U
156-59-2	cis-1,2-Dichloroethene	25000	U
78-93-3	2-Butanone	25000	U
67-66-3	Chloroform	25000	U
71-55-6	1,1,1-Trichloroethane	25000	U
110-82-7	Cyclohexane	5600	J
56-23-5	Carbon Tetrachloride	25000	U
71-43-2	Benzene	120000	
107-06-2	1,2-Dichloroethane	25000	U

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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-022A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6748.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	25000	U
108-87-2	Methylcyclohexane	8800	J
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	6400	J
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	25000	U
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	500000	
100-41-4	Ethylbenzene	15000	J
1330-20-7	Xylene (total)	4300	J
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	5000	J
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	21000	J
106-46-7	1,4-Dichlorobenzene	270000	
95-50-1	1,2-Dichlorobenzene	37000	
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	200000	B

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-010A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6720.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	25000	U
108-87-2	Methylcyclohexane	25000	U
78-87-5	1,2-Dichloropropane	25000	U
75-27-4	Bromodichloromethane	25000	U
10061-01-5	cis-1,3-Dichloropropene	25000	U
108-10-1	4-Methyl-2-pentanone	25000	U
108-88-3	Toluene	25000	U
10061-02-6	trans-1,3-Dichloropropene	25000	U
79-00-5	1,1,2-Trichloroethane	25000	U
127-18-4	Tetrachloroethene	25000	U
591-78-6	2-Hexanone	25000	U
124-48-1	Dibromochloromethane	25000	U
106-93-4	1,2-Dibromoethane	25000	U
108-90-7	Chlorobenzene	3900	J
100-41-4	Ethylbenzene	25000	U
1330-20-7	Xylene (total)	25000	U
100-42-5	Styrene	25000	U
75-25-2	Bromoform	25000	U
98-82-8	Isopropylbenzene	25000	U
79-34-5	1,1,2,2-Tetrachloroethane	25000	U
541-73-1	1,3-Dichlorobenzene	25000	U
106-46-7	1,4-Dichlorobenzene	6300	J
95-50-1	1,2-Dichlorobenzene	25000	U
96-12-8	1,2-Dibromo-3-chloropropane	25000	U
120-82-1	1,2,4-Trichlorobenzene	~~5300~~ 25000	~~B~~ U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-022A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6748.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 5 (µL)

CONCENTRATION UNITS:

Number TICs found: 27 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1 .	unknown (12.55)	12.55	34000	J
2 .	unknown (12.81)	12.81	69000	J
3 .	unknown (13.1)	13.10	160000	J
4 .	unknown (13.28)	13.28	83000	J
5 . 000000-00-0	DIMETHYL-3,5 HEPTENE-3	13.52	610000	NJ
6 .	unknown (13.75)	13.75	440000	J
7 .	unknown (13.87)	13.87	60000	J
8 .	unknown (13.92)	13.92	65000	J
9 .	unknown (14.15)	14.15	69000	J
10 .	unknown (14.25)	14.25	290000	J
11 .	unknown (14.76)	14.76	68000	J
12 .	unknown (15.11)	15.11	49000	J
13 .	unknown (15.44)	15.44	230000	J
14 .	unknown (15.61)	15.61	130000	J
15 .	unknown (16.08)	16.08	69000	J
16 .	unknown (16.29)	16.29	35000	J
17 . 000464-17-5	Bornylene	17.47	57000	NJ
18 . 000104-51-8	Benzene, butyl-	18.18	69000	NJ
19 . 006669-13-2	Benzene, (1,1-dimethylethoxy)-	19.37	71000	NJ
20 . 000538-68-1	Benzene, pentyl-	19.91	34000	NJ
21 . 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro	20.44	200000	NJ
22 . 003877-19-8	Naphthalene, 1,2,3,4-tetrahydro	21.30	91000	NJ
23 . 074646-38-1	Tetracyclo(5.2.1.0(2,6).0(3,5))	21.54	48000	NJ
24 . 000087-61-6	Benzene, 1,2,3-trichloro-	21.63	61000	NJ
25 .	unknown (22.06)	22.06	85000	J
26 .	unknown (23.24)	23.24	38000	J
27 . 000095-94-3	Benzene, 1,2,4,5-tetrachloro-	23.47	140000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6749.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 50 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	2500	U
74-87-3	Chloromethane	2500	U
75-01-4	Vinyl Chloride	2500	U
74-83-9	Bromomethane	2500	U
75-00-3	Chloroethane	2500	U
75-69-4	Trichlorofluoromethane	2500	U
75-35-4	1,1-Dichloroethene	2500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2500	U
67-64-1	Acetone	~~540~~ 2500	~~B~~ U
75-15-0	Carbon Disulfide	2500	U
79-20-9	Methyl Acetate	450	J
75-09-2	Methylene Chloride	2500	U
156-60-5	trans-1,2-Dichloroethene	2500	U
1634-04-4	Methyl tert-Butyl Ether	2500	U
75-34-3	1,1-Dichloroethane	2500	U
156-59-2	cis-1,2-Dichloroethene	2500	U
78-93-3	2-Butanone	2500	U
67-66-3	Chloroform	2500	U
71-55-6	1,1,1-Trichloroethane	2500	U
110-82-7	Cyclohexane	2500	U
56-23-5	Carbon Tetrachloride	2500	U
71-43-2	Benzene	430	J
107-06-2	1,2-Dichloroethane	2500	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6749.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 50 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	2500	U
108-87-2	Methylcyclohexane	2500	U
78-87-5	1,2-Dichloropropane	2500	U
75-27-4	Bromodichloromethane	2500	U
10061-01-5	cis-1,3-Dichloropropene	2500	U
108-10-1	4-Methyl-2-pentanone	2500	U
108-88-3	Toluene	2500	U
10061-02-6	trans-1,3-Dichloropropene	2500	U
79-00-5	1,1,2-Trichloroethane	2500	U
127-18-4	Tetrachloroethene	2500	U
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	2500	U
106-93-4	1,2-Dibromoethane	2500	U
108-90-7	Chlorobenzene	2600	
100-41-4	Ethylbenzene	2500	U
1330-20-7	Xylene (total)	2500	U
100-42-5	Styrene	2500	U
75-25-2	Bromoform	2500	U
98-82-8	Isopropylbenzene	2500	U
79-34-5	1,1,2,2-Tetrachloroethane	2500	U
541-73-1	1,3-Dichlorobenzene	770	J
106-46-7	1,4-Dichlorobenzene	3400	
95-50-1	1,2-Dichlorobenzene	470	J
96-12-8	1,2-Dibromo-3-chloropropane	2500	U
120-82-1	1,2,4-Trichlorobenzene	2700	BU

ST 8/6/02

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6749.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 50 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000644-08-6	1,1'-Biphenyl, 4-methyl-	16.90	3500	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-024A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6756.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 2.5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	50000	U
74-87-3	Chloromethane	50000	U
75-01-4	Vinyl Chloride	50000	U
74-83-9	Bromomethane	50000	U
75-00-3	Chloroethane	50000	U
75-69-4	Trichlorofluoromethane	50000	U
75-35-4	1,1-Dichloroethene	50000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50000	U
67-64-1	Acetone	~~24000~~ 50000	~~BJ~~ U
75-15-0	Carbon Disulfide	50000	U
79-20-9	Methyl Acetate	50000	U
75-09-2	Methylene Chloride	50000	U
156-60-5	trans-1,2-Dichloroethene	50000	U
1634-04-4	Methyl tert-Butyl Ether	50000	U
75-34-3	1,1-Dichloroethane	50000	U
156-59-2	cis-1,2-Dichloroethene	50000	U
78-93-3	2-Butanone	50000	U
67-66-3	Chloroform	50000	U
71-55-6	1,1,1-Trichloroethane	50000	U
110-82-7	Cyclohexane	50000	U
56-23-5	Carbon Tetrachloride	50000	U
71-43-2	Benzene	180000	
107-06-2	1,2-Dichloroethane	50000	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-024A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6756.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 2.5 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	50000	U
108-87-2	Methylcyclohexane	50000	U
78-87-5	1,2-Dichloropropane	50000	U
75-27-4	Bromodichloromethane	50000	U
10061-01-5	cis-1,3-Dichloropropene	50000	U
108-10-1	4-Methyl-2-pentanone	50000	U
108-88-3	Toluene	86000	
10061-02-6	trans-1,3-Dichloropropene	50000	U
79-00-5	1,1,2-Trichloroethane	50000	U
127-18-4	Tetrachloroethene	12000	J
591-78-6	2-Hexanone	50000	U
124-48-1	Dibromochloromethane	50000	U
106-93-4	1,2-Dibromoethane	50000	U
108-90-7	Chlorobenzene	570000	
100-41-4	Ethylbenzene	5700	J
1330-20-7	Xylene (total)	50000	U
100-42-5	Styrene	50000	U
75-25-2	Bromoform	50000	U
98-82-8	Isopropylbenzene	50000	U
79-34-5	1,1,2,2-Tetrachloroethane	50000	U
541-73-1	1,3-Dichlorobenzene	25000	J
106-46-7	1,4-Dichlorobenzene	350000	
95-50-1	1,2-Dichlorobenzene	37000	J
96-12-8	1,2-Dibromo-3-chloropropane	50000	U
120-82-1	1,2,4-Trichlorobenzene	100000	B

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E21L9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-024A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6756.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 2.5 (µL)

CONCENTRATION UNITS:

Number TICs found: 7 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000080-56-8	.ALPHA.-PINENE, (-)-	15.63	84000	NJ
2. 000079-92-5	Camphene	16.08	340000	NJ
3.	unknown (16.48)	16.48	27000	J
4. 020536-41-8	EXOISOCAMPHANE	16.65	100000	NJ
5. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	17.56	130000	NJ
6. 000120-82-1	Benzene, 1,2,4-trichloro-	21.63	35000	NJ
7. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	23.47	65000	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKC

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6702.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	490	BJ
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKC

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6702.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKKC

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6702.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (4.74)	4.74	860	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013B

Sample wt/vol: 4 (g/mL) G Lab File ID: K6715.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone ✓	230	J ✓
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride ✓	130	J ✓
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone ✓	240	J ✓
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013B

Sample wt/vol: 4 (g/mL) G Lab File ID: K6715.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene ✓	350	J

1F

EPA SAMPLE NO.

VBLKKD

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013B

Sample wt/vol: 4 (g/mL) G Lab File ID: K6715.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/17/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 3 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (4.74)	4.74	790	J
2.	Unknown (5.07)	5.07	2100	J
3. 000156-43-4	Benzenamine, 4-ethoxy-	23.11	3900	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKH

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013C

Sample wt/vol: 4 (g/mL) G Lab File ID: K6736.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone ✓	330	J ✓
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKH

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013C

Sample wt/vol: 4 (g/mL) G Lab File ID: K6736.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	340	J

1F

EPA SAMPLE NO.

VBLKKH

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013C

Sample wt/vol: 4 (g/mL) G Lab File ID: K6736.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/18/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKI

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013D

Sample wt/vol: 4 (g/mL) G Lab File ID: K6755.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone ✓	490	J ✓
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKI

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013D

Sample wt/vol: 4 (g/mL) G Lab File ID: K6755.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	210	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKKI

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013D

Sample wt/vol: 4 (g/mL) G Lab File ID: K6755.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKJ

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013E

Sample wt/vol: 4 (g/mL) G Lab File ID: K6765.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	270	J
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKJ

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013E

Sample wt/vol: 4 (g/mL) G Lab File ID: K6765.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	270	J

1F

EPA SAMPLE NO.

VBLKKJ

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-013E

Sample wt/vol: 4 (g/mL) G Lab File ID: K6765.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (7.12)	7.12	750	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKKA

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-012A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6777.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	~~460~~ 1300	~~B~~ U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

ST 8/6/02

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKKA

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-012A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6777.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µL) Soil Aliquot Volume 100 (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	~~150~~ 1300	~~B~~ U

ST 8/16/02

1F

EPA SAMPLE NO.

VHBLKKA

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-012A

Sample wt/vol: 4 (g/mL) G Lab File ID: K6777.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: not dec. Date Analyzed: 07/19/02

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (µl) Soil Aliquot Volume: 100 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (4.74)	4.74	640	J

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKS1	58	60	66	60	60	67	63	62	0
02	E21K4	36	40	46	37	35	45	37	34	0
03	E21L8	22 *	30	44	32	29	48	21	24	1
04	E21K9	32	34	30	29	28	31	31	30	0
05	E21K7	40	48	40	40	33	49	40	30	0
06	E21K0	50	52	54	53	45	41	49	42	0
07	E21K5	34	32	38	35	35	36	35	32	0
08	E21L1	48	40	38	37	31	37	35	36	0
09	E21K3	100	30	34	27	25	31	27	26	0
10	E21L8DL	22 D	26 D	56	29	27	55	28	24	0
11	E21K0DL	48	54	58	51	44	24	49	42	0
12	E21K8	20 D	36	48	27	17 D	48	23	14 D	0
13	E21K7DL	36	42	42	36	32	37	35	30	0
14	E21K2	48	60	64	49	37	65	48	28	0
15	E21L2	42	50	48	44	41	33	43	36	0
16	E21L2MS	46	54	54	48	48	49	49	40	0
17	E21K3DL	92	24 D	28	25	23 D	24	24	20	0
18	E21L2MSD	42	50	50	41	43	68	44	38	0
19	E21L9	28	40	54	33	29	51	31	24	0
20	SBLKS2	66	76	88	68	67	77	71	70	0
21	E21L6	54	72	64	56	51	19	57	58	0
22	E21K1	80	94	58	76	67	71	76	76	0
23	E21L3	54	60	48	61	57	53	60	62	0
24	E21L4	56	60	46	59	61	56	61	62	0
25	E21L7	68	62	60	65	67	27	64	68	0
26	E21K6	72	76	60	75	71	76	73	74	0
27	E21L5	80	92	58	76	64	80	73	74	0
28	E21K1DL	66	76	74	68	63	80	71	74	0
29	E21L5DL	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0

			QC LIMITS	
S1	(NBZ)	= Nitrobenzene-d5	(23-120)	
S2	(FBP)	= 2-Fluorobiphenyl	(30-115)	
S3	(TPH)	= Terphenyl-d14	(18-137)	
S4	(PHL)	= Phenol-d5	(24-113)	
S5	(2FP)	= 2-Fluorophenol	(25-121)	
S6	(TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7	(2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8	(DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix Spike - EPA Sample No.: E21L2 Level:(low/med) MED

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	75000	0	37000	49	26-90
2-Chlorophenol	75000	0	35000	47	25-102
N-Nitroso-di-n-propylamine	50000	0	23000	46	41-126
4-Chloro-3-methylphenol	75000	0	41000	55	26-103
Acenaphthene	50000	0	29000	58	31-137
4-Nitrophenol	75000	0	39000	52	11-114
2,4-Dinitrotoluene	50000	0	25000	50	28-89
Pentachlorophenol	75000	0	17000	23	17-109
Pyrene	50000	2400	33000	61	35-142

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75000	31000	41	18	35	26-90
2-Chlorophenol	75000	32000	43	9	50	25-102
N-Nitroso-di-n-propylamine	50000	22000	44	4	38	41-126
4-Chloro-3-methylphenol	75000	43000	57	4	33	26-103
Acenaphthene	50000	30000	60	3	19	31-137
4-Nitrophenol	75000	37000	49	6	50	11-114
2,4-Dinitrotoluene	50000	28000	56	11	47	28-89
Pentachlorophenol	75000	43000	57	85*	47	17-109
Pyrene	50000	32000	59	3	36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SBLKS1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.:_____ SDG No.: E21K0

Lab File ID: G8555.D Lab Sample ID: 02070399-014A

Instrument ID: MS_HP7G Date Extracted: 07/22/02

Matrix: (soil/water) SOIL Date Analyzed: 07/22/02

Level:(low/med) MED Time Analyzed: 21:16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	E21K4	02070399-005B	G8557.D	07/22/02
2	E21L8	02070399-023B	G8558.D	07/22/02
3	E21K9	02070399-010B	G8559.D	07/22/02
4	E21K7	02070399-008B	G8563.D	07/23/02
5	E21K0	02070399-001B	G8565.D	07/23/02
6	E21K5	02070399-006B	G8567.D	07/23/02
7	E21L1	02070399-016B	G8569.D	07/23/02
8	E21K3	02070399-004B	G8572.D	07/23/02
9	E21L8DL	02070399-023B	G8576.D	07/23/02
10	E21K0DL	02070399-001B	G8577.D	07/23/02
11	E21K8	02070399-009B	G8579.D	07/23/02
12	E21K7DL	02070399-008B	G8580.D	07/23/02
13	E21K2	02070399-003B	G8581.D	07/23/02
14	E21L2	02070399-017B	G8587.D	07/24/02
15	E21L2MS	02070399-017E	G8588.D	07/24/02
16	E21K3DL	02070399-004B	G8594.D	07/24/02
17	E21L2MSD	02070399-017F	G8595.D	07/24/02
18	E21L9	02070399-024B	G8596.D	07/24/02

COMMENTS:

4B

EPA SAMPLE NO.

SEMIVOLATILE METHOD BLANK SUMMARY

SBLKS2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.:_____ SDG No.: E21K0

Lab File ID: G8601.D Lab Sample ID: 02070399-014B

Instrument ID: MS_HP7G Date Extracted: 07/24/02

Matrix: (soil/water) SOIL Date Analyzed: 07/24/02

Level:(low/med) MED Time Analyzed: 22:34

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	E21L6	02070399-021B	G8602.D	07/24/02
2	E21K1	02070399-002B	G8603.D	07/25/02
3	E21L3	02070399-018B	G8605.D	07/25/02
4	E21L4	02070399-019B	G8606.D	07/25/02
5	E21L7	02070399-022B	G8607.D	07/25/02
6	E21K6	02070399-007B	G8608.D	07/25/02
7	E21L5	02070399-020B	G8609.D	07/25/02
8	E21K1DL	02070399-002B	G8619.D	07/25/02
9	E21L5DL	02070399-020B	G8623.D	07/25/02

COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8565.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	74000	U
108-95-2	Phenol	4800	J
111-44-4	bis(2-Chloroethyl)ether	74000	U
95-57-8	2-Chlorophenol	74000	U
95-48-7	2-Methylphenol	74000	U
108-60-1	2,2´-oxybis(1-Chloropropane)	74000	U
98-86-2	Acetophenone	74000	U
106-44-5	4-Methylphenol	74000	U
621-64-7	N-Nitroso-di-n-propylamine	74000	U
67-72-1	Hexachloroethane	74000	U
98-95-3	Nitrobenzene	52000	J
78-59-1	Isophorone	74000	U
88-75-5	2-Nitrophenol	74000	U
105-67-9	2,4-Dimethylphenol	74000	U
111-91-1	bis(2-Chloroethoxy)methane	74000	U
120-83-2	2,4-Dichlorophenol	5900	J
91-20-3	Naphthalene	74000	U
106-47-8	4-Chloroaniline	920000	E
87-68-3	Hexachlorobutadiene	74000	U
105-60-2	Caprolactam	74000	U
59-50-7	4-Chloro-3-methylphenol	74000	U
91-57-6	2-Methylnaphthalene	74000	U
77-47-4	Hexachlorocyclopentadiene	74000	U
88-06-2	2,4,6-Trichlorophenol	74000	U
95-95-4	2,4,5-Trichlorophenol	190000	U
92-52-4	1,1´-Biphenyl	78000	
91-58-7	2-Chloronaphthalene	74000	U
88-74-4	2-Nitroaniline	37000	J
131-11-3	Dimethylphthalate	74000	U
606-20-2	2,6-Dinitrotoluene	74000	U
208-96-8	Acenaphthylene	74000	U
99-09-2	3-Nitroaniline	190000	U
83-32-9	Acenaphthene	74000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8565.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	190000	U
100-02-7	4-Nitrophenol	190000	U
132-64-9	Dibenzofuran	74000	U
121-14-2	2,4-Dinitrotoluene	74000	U
84-66-2	Diethylphthalate	74000	U
86-73-7	Fluorene	74000	U
7005-72-3	4-Chlorophenyl-phenylether	74000	U
100-01-6	4-Nitroaniline	190000	U
534-52-1	4,6-Dinitro-2-methylphenol	190000	U
86-30-6	N-Nitrosodiphenylamine (1)	5400	J
101-55-3	4-Bromophenyl-phenylether	74000	U
118-74-1	Hexachlorobenzene	74000	U
1912-24-9	Atrazine	74000	U
87-86-5	Pentachlorophenol	49000	J
85-01-8	Phenanthrene	15000	J
120-12-7	Anthracene	74000	U
86-74-8	Carbazole	74000	U
84-74-2	Di-n-butylphthalate	74000	U
206-44-0	Fluoranthene	74000	U
129-00-0	Pyrene	74000	U
85-68-7	Butylbenzylphthalate	74000	U
91-94-1	3,3'-Dichlorobenzidine	74000	U
56-55-3	Benzo(a)anthracene	74000	U
218-01-9	Chrysene	13000	J
117-81-7	bis(2-Ethylhexyl)phthalate	74000	U
117-84-0	Di-n-octylphthalate	74000	U
205-99-2	Benzo(b)fluoranthene	74000	U
207-08-9	Benzo(k)fluoranthene	74000	U
50-32-8	Benzo(a)pyrene	74000	U
193-39-5	Indeno(1,2,3-cd)pyrene	74000	U
53-70-3	Dibenzo(a,h)anthracene	74000	U
191-24-2	Benzo(g,h,i)perylene	74000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K0

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8565.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 23 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro-	9.07	2700000	NJ
2. 000140-29-4	Benzeneacetonitrile	9.12	180000	NJ
3. 000106-47-8	Benzenamine, 4-chloro-(TCL)	10.13	66000	NJ
4. 000087-61-6	Benzene, 1,2,3-trichloro-	10.49	230000	NJ
5. 000121-73-3	Benzene, 1-chloro-3-nitro-	10.64	180000	NJ
6. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.81	1100000	NJ
7. 000088-73-3	2-Chloronitrobenzene	10.98	4000000	NJ
8.	Unknown (11.11)	11.11	54000	J
9. 000095-76-1	Benzenamine, 3,4-dichloro- (12.	12.01	2300000	NJ
10. 000608-31-1	Benzenamine, 2,6-dichloro-	12.29	1200000	NJ
11. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	12.68	2100000	NJ
12. 000095-76-1	Benzenamine, 3,4-dichloro- (13.	13.16	510000	NJ
13.	Unknown (13.51)	13.51	180000	J
14. 000000-00-0	OCTYL PHENOL ISOMER	14.69	220000	NJ
15. 000090-41-5	(1,1'-Biphenyl)-2-amine	14.73	350000	NJ
16. 000086-00-0	1,1'-Biphenyl, 2-nitro-	15.67	520000	NJ
17. 002243-47-2	(1,1'-Biphenyl)-3-amine	16.11	160000	NJ
18.	Unknown (16.4)	16.40	33000	J
19.	Unknown (16.85)	16.85	110000	J
20. 000092-93-3	1,1'-Biphenyl, 4-nitro-	16.97	830000	NJ
21.	Unknown (17.02)	17.02	44000	J
22.	Unknown (17.28)	17.28	140000	J
23.	Unknown (18.44)	18.44	160000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8577.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	150000	U
108-95-2	Phenol	150000	U
111-44-4	bis(2-Chloroethyl)ether	150000	U
95-57-8	2-Chlorophenol	150000	U
95-48-7	2-Methylphenol	150000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	150000	U
98-86-2	Acetophenone	150000	U
106-44-5	4-Methylphenol	150000	U
621-64-7	N-Nitroso-di-n-propylamine	150000	U
67-72-1	Hexachloroethane	150000	U
98-95-3	Nitrobenzene	52000	DJ
78-59-1	Isophorone	150000	U
88-75-5	2-Nitrophenol	150000	U
105-67-9	2,4-Dimethylphenol	150000	U
111-91-1	bis(2-Chloroethoxy)methane	150000	U
120-83-2	2,4-Dichlorophenol	9100	DJ
91-20-3	Naphthalene	25000	DJ
106-47-8	4-Chloroaniline	920000	D
87-68-3	Hexachlorobutadiene	150000	U
105-60-2	Caprolactam	150000	U
59-50-7	4-Chloro-3-methylphenol	150000	U
91-57-6	2-Methylnaphthalene	150000	U
77-47-4	Hexachlorocyclopentadiene	150000	U
88-06-2	2,4,6-Trichlorophenol	150000	U
95-95-4	2,4,5-Trichlorophenol	370000	U
92-52-4	1,1'-Biphenyl	84000	DJ
91-58-7	2-Chloronaphthalene	150000	U
88-74-4	2-Nitroaniline	38000	DJ
131-11-3	Dimethylphthalate	150000	U
606-20-2	2,6-Dinitrotoluene	150000	U
208-96-8	Acenaphthylene	150000	U
99-09-2	3-Nitroaniline	370000	U
83-32-9	Acenaphthene	150000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8577.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	370000	U
100-02-7	4-Nitrophenol	370000	U
132-64-9	Dibenzofuran	150000	U
121-14-2	2,4-Dinitrotoluene	150000	U
84-66-2	Diethylphthalate	150000	U
86-73-7	Fluorene	150000	U
7005-72-3	4-Chlorophenyl-phenylether	150000	U
100-01-6	4-Nitroaniline	370000	U
534-52-1	4,6-Dinitro-2-methylphenol	370000	U
86-30-6	N-Nitrosodiphenylamine (1)	150000	U
101-55-3	4-Bromophenyl-phenylether	150000	U
118-74-1	Hexachlorobenzene	150000	U
1912-24-9	Atrazine	150000	U
87-86-5	Pentachlorophenol	10000	DJ
85-01-8	Phenanthrene	14000	DJ
120-12-7	Anthracene	150000	U
86-74-8	Carbazole	150000	U
84-74-2	Di-n-butylphthalate	150000	U
206-44-0	Fluoranthene	150000	U
129-00-0	Pyrene	150000	U
85-68-7	Butylbenzylphthalate	150000	U
91-94-1	3,3´-Dichlorobenzidine	150000	U
56-55-3	Benzo(a)anthracene	150000	U
218-01-9	Chrysene	13000	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	150000	U
117-84-0	Di-n-octylphthalate	150000	U
205-99-2	Benzo(b)fluoranthene	150000	U
207-08-9	Benzo(k)fluoranthene	150000	U
50-32-8	Benzo(a)pyrene	150000	U
193-39-5	Indeno(1,2,3-cd)pyrene	150000	U
53-70-3	Dibenzo(a,h)anthracene	150000	U
191-24-2	Benzo(g,h,i)perylene	150000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K0DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8577.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 20 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro-	9.05	3100000	NJ
2. 000140-29-4	Benzeneacetonitrile	9.10	220000	NJ
3. 000108-70-3	Benzene, 1,3,5-trichloro-	9.88	540000	NJ
4. 000087-61-6	Benzene, 1,2,3-trichloro-	10.47	260000	NJ
5. 000121-73-3	Benzene, 1-chloro-3-nitro-	10.62	200000	NJ
6. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.78	1300000	NJ
7. 000088-73-3	2-Chloronitrobenzene	10.94	5000000	NJ
8. 000095-76-1	Benzenamine, 3,4-dichloro- (11.	11.99	2600000	NJ
9. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	12.04	430000	NJ
10. 000608-31-1	Benzenamine, 2,6-dichloro-	12.28	1300000	NJ
11. 000095-94-3	Benzene, 1,2,4,5-tetrachloro-	12.67	2000000	NJ
12. 000095-76-1	Benzenamine, 3,4-dichloro- (13.	13.14	470000	NJ
13. 000100-29-8	Benzene, 1-ethoxy-4-nitro-	13.50	180000	NJ
14.	Unknown (14.68)	14.68	190000	J
15.	Unknown (14.73)	14.73	380000	J
16. 000086-00-0	1,1'-Biphenyl, 2-nitro-	15.66	680000	NJ
17. 002243-47-2	(1,1'-Biphenyl)-3-amine	16.11	160000	NJ
18. 000092-93-3	1,1'-Biphenyl, 4-nitro-	16.97	1100000	NJ
19.	Unknown (17.26)	17.26	180000	J
20.	Unknown (27.36)	27.36	100000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8603.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	1200	J
111-44-4	bis(2-Chloroethyl)ether	9900	U
95-57-8	2-Chlorophenol	9900	U
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	9900	U
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	10000	
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
120-83-2	2,4-Dichlorophenol	3300	J
91-20-3	Naphthalene	1400	J
106-47-8	4-Chloroaniline	96000	E
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	9900	U
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	1400	J
95-95-4	2,4,5-Trichlorophenol	810	J
92-52-4	1,1'-Biphenyl	3800	J
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	9900	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8603.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	9900	U
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	1200	J
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	860000	E
85-01-8	Phenanthrene	1500	J
120-12-7	Anthracene	9900	U
86-74-8	Carbazole	1300	J
84-74-2	Di-n-butylphthalate	780	J
206-44-0	Fluoranthene	1400	J
129-00-0	Pyrene	1600	J
85-68-7	Butylbenzylphthalate	1000	J
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	9900	U
218-01-9	Chrysene	8800	J
117-81-7	bis(2-Ethylhexyl)phthalate	30000	
117-84-0	Di-n-octylphthalate	9900	U
205-99-2	Benzo(b)fluoranthene	9900	U
207-08-9	Benzo(k)fluoranthene	9900	U
50-32-8	Benzo(a)pyrene	9900	U
193-39-5	Indeno(1,2,3-cd)pyrene	9900	U
53-70-3	Dibenzo(a,h)anthracene	9900	U
191-24-2	Benzo(g,h,i)perylene	9900	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8619.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	200000	U
108-95-2	Phenol	200000	U
111-44-4	bis(2-Chloroethyl)ether	200000	U
95-57-8	2-Chlorophenol	200000	U
95-48-7	2-Methylphenol	200000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200000	U
98-86-2	Acetophenone	200000	U
106-44-5	4-Methylphenol	200000	U
621-64-7	N-Nitroso-di-n-propylamine	200000	U
67-72-1	Hexachloroethane	200000	U
98-95-3	Nitrobenzene	200000	U
78-59-1	Isophorone	200000	U
88-75-5	2-Nitrophenol	200000	U
105-67-9	2,4-Dimethylphenol	200000	U
111-91-1	bis(2-Chloroethoxy)methane	200000	U
120-83-2	2,4-Dichlorophenol	200000	U
91-20-3	Naphthalene	200000	U
106-47-8	4-Chloroaniline	200000	D
87-68-3	Hexachlorobutadiene	200000	U
105-60-2	Caprolactam	200000	U
59-50-7	4-Chloro-3-methylphenol	200000	U
91-57-6	2-Methylnaphthalene	200000	U
77-47-4	Hexachlorocyclopentadiene	200000	U
88-06-2	2,4,6-Trichlorophenol	200000	U
95-95-4	2,4,5-Trichlorophenol	500000	U
92-52-4	1,1'-Biphenyl	200000	U
91-58-7	2-Chloronaphthalene	200000	U
88-74-4	2-Nitroaniline	500000	U
131-11-3	Dimethylphthalate	200000	U
606-20-2	2,6-Dinitrotoluene	200000	U
208-96-8	Acenaphthylene	200000	U
99-09-2	3-Nitroaniline	500000	U
83-32-9	Acenaphthene	200000	U

1G

EPA SAMPLE NO.

E21K1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8603.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.5 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (9)	9.00	150000	J
2.	Unknown (9.05)	9.05	47000	J
3. 000121-73-3	Benzene, 1-chloro-3-nitro-	10.61	24000	NJ
4. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.76	160000	NJ
5. 000088-73-3	2-Chloronitrobenzene	10.89	180000	NJ
6.	Unknown (11.53)	11.53	37000	J
7.	Unknown (11.81)	11.81	70000	J
8. 000095-76-1	Benzenamine, 3,4-dichloro-	11.96	160000	NJ
9. 000095-94-3	Benzene, 1,2,4,5-tetrachloro-	12.62	23000	NJ
10. 000626-43-7	Benzenamine, 3,5-dichloro- (Pur	13.12	68000	NJ
11.	Unknown phenolic compound (14.1	14.14	55000	J
12.	Unknown (15.23)	15.23	9500000	J
13.	Unknown (15.45)	15.45	430000	J
14.	Unknown (15.64)	15.64	220000	J
15.	Unknown phenolic compound (15.8	15.84	65000	J
16.	Unknown (16.18)	16.18	67000	J
17.	Unknown phenolic compound (16.4	16.43	18000	J
18. 000090-45-9	9-Acridinamine	17.43	31000	NJ
19.	Unknown (17.6)	17.60	22000	J
20.	Unknown (17.72)	17.72	37000	J
21.	Unknown (18.11)	18.11	130000	J
22.	Unknown (18.39)	18.39	37000	J
23.	Unknown (18.85)	18.85	18000	J
24. 000000-00-0	DI-P-TOLYL-SULFONE	19.22	86000	NJ
25.	Unknown (22.68)	22.68	31000	J
26. 083324-62-3	4,6-Dichloro-5-methyl-2-octyl-1	24.34	57000	NJ
27. 083324-62-3	4,6-Dichloro-5-methyl-2-octyl-1	25.50	110000	NJ
28.	Unknown (27.16)	27.16	130000	J
29.	Unknown (27.75)	27.75	21000	J
30.	Unknown (28.86)	28.86	21000	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8619.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	500000	U
100-02-7	4-Nitrophenol	500000	U
132-64-9	Dibenzofuran	200000	U
121-14-2	2,4-Dinitrotoluene	200000	U
84-66-2	Diethylphthalate	200000	U
86-73-7	Fluorene	200000	U
7005-72-3	4-Chlorophenyl-phenylether	200000	U
100-01-6	4-Nitroaniline	500000	U
534-52-1	4,6-Dinitro-2-methylphenol	500000	U
86-30-6	N-Nitrosodiphenylamine (1)	200000	U
101-55-3	4-Bromophenyl-phenylether	200000	U
118-74-1	Hexachlorobenzene	200000	U
1912-24-9	Atrazine	200000	U
87-86-5	Pentachlorophenol	1000000	D
85-01-8	Phenanthrene	200000	U
120-12-7	Anthracene	200000	U
86-74-8	Carbazole	200000	U
84-74-2	Di-n-butylphthalate	200000	U
206-44-0	Fluoranthene	200000	U
129-00-0	Pyrene	200000	U
85-68-7	Butylbenzylphthalate	200000	U
91-94-1	3,3´-Dichlorobenzidine	200000	U
56-55-3	Benzo(a)anthracene	200000	U
218-01-9	Chrysene	13000	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	200000	U
117-84-0	Di-n-octylphthalate	200000	U
205-99-2	Benzo(b)fluoranthene	200000	U
207-08-9	Benzo(k)fluoranthene	200000	U
50-32-8	Benzo(a)pyrene	200000	U
193-39-5	Indeno(1,2,3-cd)pyrene	200000	U
53-70-3	Dibenzo(a,h)anthracene	200000	U
191-24-2	Benzo(g,h,i)perylene	200000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K1DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8619.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 7.5 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 24 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro-	8.99	94000	NJ
2. 003320-83-0	Benzene, 1-chloro-2-isocyanato-	9.06	63000	NJ
3. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.75	180000	NJ
4. 000088-73-3	2-Chloronitrobenzene	10.87	230000	NJ
5. 000102-36-3	3,4-DICHLOROPHENYL ISOCYANATE	11.59	150000	NJ
6.	Unknown (11.79)	11.79	73000	J
7. 000608-31-1	Benzenamine, 2,6-dichloro-	11.95	300000	NJ
8. 000095-76-1	Benzenamine, 3,4-dichloro-	12.23	140000	NJ
9. 000626-43-7	Benzenamine, 3,5-dichloro- (Pur	13.11	250000	NJ
10.	Unknown (14.13)	14.13	120000	J
11.	Unknown (14.5)	14.50	63000	J
12.	Unknown (14.8)	14.80	37000000	J
13.	Unknown (15.14)	15.14	120000	J
14.	Unknown (15.19)	15.19	1700000	J
15.	Unknown (15.34)	15.34	120000	J
16.	Unknown (15.44)	15.44	350000	J
17.	Unknown (15.71)	15.71	130000	J
18.	Unknown (16.08)	16.08	140000	J
19.	Unknown (17.28)	17.28	49000	J
20.	Unknown (17.69)	17.69	48000	J
21. 059224-76-9	12,13-Dihydrobenzo(a,f)quinoliz	18.06	610000	NJ
22.	Unknown (18.36)	18.36	83000	J
23.	Unknown (18.55)	18.55	73000	J
24.	Unknown (21.76)	21.76	42000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8581.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	50000	U
108-95-2	Phenol	50000	U
111-44-4	bis(2-Chloroethyl)ether	50000	U
95-57-8	2-Chlorophenol	50000	U
95-48-7	2-Methylphenol	50000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	50000	U
98-86-2	Acetophenone	50000	U
106-44-5	4-Methylphenol	50000	U
621-64-7	N-Nitroso-di-n-propylamine	50000	U
67-72-1	Hexachloroethane	50000	U
98-95-3	Nitrobenzene	50000	U
78-59-1	Isophorone	50000	U
88-75-5	2-Nitrophenol	50000	U
105-67-9	2,4-Dimethylphenol	50000	U
111-91-1	bis(2-Chloroethoxy)methane	50000	U
120-83-2	2,4-Dichlorophenol	50000	U
91-20-3	Naphthalene	110000	
106-47-8	4-Chloroaniline	160000	
87-68-3	Hexachlorobutadiene	50000	U
105-60-2	Caprolactam	50000	U
59-50-7	4-Chloro-3-methylphenol	50000	U
91-57-6	2-Methylnaphthalene	50000	U
77-47-4	Hexachlorocyclopentadiene	50000	U
88-06-2	2,4,6-Trichlorophenol	50000	U
95-95-4	2,4,5-Trichlorophenol	120000	U
92-52-4	1,1'-Biphenyl	50000	U
91-58-7	2-Chloronaphthalene	50000	U
88-74-4	2-Nitroaniline	120000	U
131-11-3	Dimethylphthalate	50000	U
606-20-2	2,6-Dinitrotoluene	50000	U
208-96-8	Acenaphthylene	50000	U
99-09-2	3-Nitroaniline	120000	U
83-32-9	Acenaphthene	50000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8581.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	120000	U
100-02-7	4-Nitrophenol	120000	U
132-64-9	Dibenzofuran	50000	U
121-14-2	2,4-Dinitrotoluene	50000	U
84-66-2	Diethylphthalate	50000	U
86-73-7	Fluorene	50000	U
7005-72-3	4-Chlorophenyl-phenylether	50000	U
100-01-6	4-Nitroaniline	120000	U
534-52-1	4,6-Dinitro-2-methylphenol	120000	U
86-30-6	N-Nitrosodiphenylamine (1)	50000	U
101-55-3	4-Bromophenyl-phenylether	50000	U
118-74-1	Hexachlorobenzene	50000	U
1912-24-9	Atrazine	50000	U
87-86-5	Pentachlorophenol	72000	J
85-01-8	Phenanthrene	50000	U
120-12-7	Anthracene	50000	U
86-74-8	Carbazole	50000	U
84-74-2	Di-n-butylphthalate	44000	J
206-44-0	Fluoranthene	50000	U
129-00-0	Pyrene	50000	U
85-68-7	Butylbenzylphthalate	50000	U
91-94-1	3,3'-Dichlorobenzidine	50000	U
56-55-3	Benzo(a)anthracene	50000	U
218-01-9	Chrysene	50000	U
117-81-7	bis(2-Ethylhexyl)phthalate	50000	U
117-84-0	Di-n-octylphthalate	50000	U
205-99-2	Benzo(b)fluoranthene	50000	U
207-08-9	Benzo(k)fluoranthene	50000	U
50-32-8	Benzo(a)pyrene	50000	U
193-39-5	Indeno(1,2,3-cd)pyrene	50000	U
53-70-3	Dibenzo(a,h)anthracene	50000	U
191-24-2	Benzo(g,h,i)perylene	50000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-003B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8581.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 10.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro-	9.02	370000	NJ
2. 000140-29-4	Benzeneacetonitrile	9.11	15000	NJ
3. 000065-85-0	Benzoic acid	9.17	11000	NJ
4. 000614-72-2	Benzene, 1-chloro-2-ethoxy-	9.61	10000	NJ
5. 000106-47-8	Benzenamine, 4-chloro-	10.12	13000	NJ
6. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.76	20000	NJ
7. 000088-73-3	2-Chloronitrobenzene	10.88	26000	NJ
8. 000085-44-9	1,3-Isobenzofurandione	11.81	29000	NJ
9. 000095-76-1	Benzenamine, 3,4-dichloro-	11.96	92000	NJ
10. 000608-31-1	Benzenamine, 2,6-dichloro-	12.27	57000	NJ
11. 000091-64-5	2H-1-Benzopyran-2-one (12.92)	12.92	32000	NJ
12. 000130-15-4	1,4-Naphthalenedione	13.01	48000	NJ
13. 000091-64-5	2H-1-Benzopyran-2-one (13.33)	13.33	180000	NJ
14. 000058-27-5	1,4-Naphthalenedione, 2-methyl-	14.09	13000	NJ
15. 000088-19-7	2-TOLUENESULFONAMIDE	15.00	30000	NJ
16. 000070-55-3	4-TOLUENESULFONAMIDE	15.34	22000	NJ
17.	Unknown (16.39)	16.39	62000	J
18. 000092-93-3	1,1'-Biphenyl, 4-nitro-	16.94	12000	NJ
19. 041464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrac	17.54	12000	NJ
20. 000084-65-1	9,10-Anthracenedione	17.94	38000	NJ
21. 031508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pent	18.46	27000	NJ
22. 038380-01-7	1,1'-Biphenyl, 2,2',4,4',5-pent	18.73	16000	NJ
23.	Unknown (18.85)	18.85	12000	J
24. 038380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pent	19.26	14000	NJ
25.	Unknown (19.6)	19.60	51000	J
26. 000620-40-6	Benzenemethanamine, N,N-bis(phe	19.73	26000	NJ
27. 026601-64-9	1,1'-Biphenyl, hexachloro-	19.85	12000	NJ
28. 031508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pent	19.98	12000	NJ
29. 032774-16-6	3,4,5,3',4',5'-Hexachlorobiphen	20.29	18000	NJ
30. 002498-66-0	Benz(a)anthracene-7,12-dione	23.26	17000	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8572.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	200000	U
108-95-2	Phenol	15000	J
111-44-4	bis(2-Chloroethyl)ether	200000	U
95-57-8	2-Chlorophenol	200000	U
95-48-7	2-Methylphenol	11000	J
108-60-1	2,2'-oxybis(1-Chloropropane)	200000	U
98-86-2	Acetophenone	58000	J
106-44-5	4-Methylphenol	21000	J
621-64-7	N-Nitroso-di-n-propylamine	200000	U
67-72-1	Hexachloroethane	200000	U
98-95-3	Nitrobenzene	200000	U
78-59-1	Isophorone	200000	U
88-75-5	2-Nitrophenol	200000	U
105-67-9	2,4-Dimethylphenol	200000	U
111-91-1	bis(2-Chloroethoxy)methane	200000	U
120-83-2	2,4-Dichlorophenol	200000	U
91-20-3	Naphthalene	3400000	E
106-47-8	4-Chloroaniline	200000	U
87-68-3	Hexachlorobutadiene	200000	U
105-60-2	Caprolactam	200000	U
59-50-7	4-Chloro-3-methylphenol	200000	U
91-57-6	2-Methylnaphthalene	640000	
77-47-4	Hexachlorocyclopentadiene	200000	U
88-06-2	2,4,6-Trichlorophenol	200000	U
95-95-4	2,4,5-Trichlorophenol	500000	U
92-52-4	1,1'-Biphenyl	200000	U
91-58-7	2-Chloronaphthalene	200000	U
88-74-4	2-Nitroaniline	500000	U
131-11-3	Dimethylphthalate	200000	U
606-20-2	2,6-Dinitrotoluene	200000	U
208-96-8	Acenaphthylene	200000	U
99-09-2	3-Nitroaniline	500000	U
83-32-9	Acenaphthene	200000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8572.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	500000	U
100-02-7	4-Nitrophenol	500000	U
132-64-9	Dibenzofuran	200000	U
121-14-2	2,4-Dinitrotoluene	200000	U
84-66-2	Diethylphthalate	200000	U
86-73-7	Fluorene	200000	U
7005-72-3	4-Chlorophenyl-phenylether	200000	U
100-01-6	4-Nitroaniline	500000	U
534-52-1	4,6-Dinitro-2-methylphenol	500000	U
86-30-6	N-Nitrosodiphenylamine (1)	200000	U
101-55-3	4-Bromophenyl-phenylether	200000	U
118-74-1	Hexachlorobenzene	200000	U
1912-24-9	Atrazine	200000	U
87-86-5	Pentachlorophenol	12000	J
85-01-8	Phenanthrene	200000	U
120-12-7	Anthracene	200000	U
86-74-8	Carbazole	200000	U
84-74-2	Di-n-butylphthalate	200000	U
206-44-0	Fluoranthene	200000	U
129-00-0	Pyrene	200000	U
85-68-7	Butylbenzylphthalate	200000	U
91-94-1	3,3'-Dichlorobenzidine	200000	U
56-55-3	Benzo(a)anthracene	200000	U
218-01-9	Chrysene	200000	U
117-81-7	bis(2-Ethylhexyl)phthalate	15000	J
117-84-0	Di-n-octylphthalate	200000	U
205-99-2	Benzo(b)fluoranthene	200000	U
207-08-9	Benzo(k)fluoranthene	200000	U
50-32-8	Benzo(a)pyrene	200000	U
193-39-5	Indeno(1,2,3-cd)pyrene	200000	U
53-70-3	Dibenzo(a,h)anthracene	200000	U
191-24-2	Benzo(g,h,i)perylene	200000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8572.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000611-14-3	Benzene, 1-ethyl-2-methyl-	7.40	690000	NJ
2. 001074-43-7	Benzene, 1-methyl-3-propyl-	7.71	1800000	NJ
3. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	7.79	2800000	NJ
4. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	8.09	2100000	NJ
5. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	8.13	1400000	NJ
6. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	8.23	3300000	NJ
7.	Unknown hydrocarbon (8.42)	8.42	370000	J
8.	Unknown hydrocarbon (8.45)	8.45	460000	J
9. 002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	8.60	1400000	NJ
10. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	8.74	4700000	NJ
11. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	8.82	4800000	NJ
12.	Unknown hydrocarbon (8.97)	8.97	950000	J
13.	Unknown (9.09)	9.09	2200000	J
14.	Unknown hydrocarbon (9.21)	9.21	3500000	J
15.	Unknown hydrocarbon (9.34)	9.34	920000	J
16.	Unknown hydrocarbon (9.41)	9.41	6400000	J
17. 002049-95-8	Benzene, (1,1-dimethylpropyl)-	9.48	1100000	NJ
18. 004132-72-3	Benzene, 1,4-dimethyl-2-(1-meth	9.53	1000000	NJ
19.	Unknown hydrocarbon (9.63)	9.63	2900000	J
20.	Unknown hydrocarbon (9.85)	9.85	680000	J
21.	Unknown (9.94)	9.94	2400000	J
22. 000700-12-9	Benzene, pentamethyl- (10.19)	10.19	1700000	NJ
23. 000000-00-0	BENZENE, 1,3,5-TRIMETHYL-2-PROP	10.32	280000	NJ
24.	Unknown hydrocarbon (10.63)	10.63	510000	J
25. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	10.86	330000	NJ
26. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	11.08	370000	NJ
27. 000098-51-1	Benzene, 1-(1,1-dimethylethyl)-	11.17	390000	NJ
28. 000700-12-9	Benzene, pentamethyl- (11.27)	11.27	870000	NJ
29.	Unknown (11.54)	11.54	340000	J
30. 000085-44-9	1,3-Isobenzofurandione	11.83	870000	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8594.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	490000	U
108-95-2	Phenol	490000	U
111-44-4	bis(2-Chloroethyl)ether	490000	U
95-57-8	2-Chlorophenol	490000	U
95-48-7	2-Methylphenol	490000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	490000	U
98-86-2	Acetophenone	64000	DJ
106-44-5	4-Methylphenol	490000	U
621-64-7	N-Nitroso-di-n-propylamine	490000	U
67-72-1	Hexachloroethane	490000	U
98-95-3	Nitrobenzene	490000	U
78-59-1	Isophorone	490000	U
88-75-5	2-Nitrophenol	490000	U
105-67-9	2,4-Dimethylphenol	490000	U
111-91-1	bis(2-Chloroethoxy)methane	490000	U
120-83-2	2,4-Dichlorophenol	490000	U
91-20-3	Naphthalene	3500000	D
106-47-8	4-Chloroaniline	490000	U
87-68-3	Hexachlorobutadiene	490000	U
105-60-2	Caprolactam	490000	U
59-50-7	4-Chloro-3-methylphenol	490000	U
91-57-6	2-Methylnaphthalene	590000	D
77-47-4	Hexachlorocyclopentadiene	490000	U
88-06-2	2,4,6-Trichlorophenol	490000	U
95-95-4	2,4,5-Trichlorophenol	1200000	U
92-52-4	1,1'-Biphenyl	490000	U
91-58-7	2-Chloronaphthalene	490000	U
88-74-4	2-Nitroaniline	1200000	U
131-11-3	Dimethylphthalate	490000	U
606-20-2	2,6-Dinitrotoluene	490000	U
208-96-8	Acenaphthylene	490000	U
99-09-2	3-Nitroaniline	1200000	U
83-32-9	Acenaphthene	490000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8594.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200000	U
100-02-7	4-Nitrophenol	1200000	U
132-64-9	Dibenzofuran	490000	U
121-14-2	2,4-Dinitrotoluene	490000	U
84-66-2	Diethylphthalate	490000	U
86-73-7	Fluorene	490000	U
7005-72-3	4-Chlorophenyl-phenylether	490000	U
100-01-6	4-Nitroaniline	1200000	U
534-52-1	4,6-Dinitro-2-methylphenol	1200000	U
86-30-6	N-Nitrosodiphenylamine (1)	490000	U
101-55-3	4-Bromophenyl-phenylether	490000	U
118-74-1	Hexachlorobenzene	490000	U
1912-24-9	Atrazine	490000	U
87-86-5	Pentachlorophenol	40000	DJ
85-01-8	Phenanthrene	490000	U
120-12-7	Anthracene	490000	U
86-74-8	Carbazole	490000	U
84-74-2	Di-n-butylphthalate	490000	U
206-44-0	Fluoranthene	490000	U
129-00-0	Pyrene	490000	U
85-68-7	Butylbenzylphthalate	490000	U
91-94-1	3,3'-Dichlorobenzidine	490000	U
56-55-3	Benzo(a)anthracene	490000	U
218-01-9	Chrysene	490000	U
117-81-7	bis(2-Ethylhexyl)phthalate	490000	U
117-84-0	Di-n-octylphthalate	490000	U
205-99-2	Benzo(b)fluoranthene	490000	U
207-08-9	Benzo(k)fluoranthene	490000	U
50-32-8	Benzo(a)pyrene	490000	U
193-39-5	Indeno(1,2,3-cd)pyrene	490000	U
53-70-3	Dibenzo(a,h)anthracene	490000	U
191-24-2	Benzo(g,h,i)perylene	490000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K3DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8594.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/24/02

Injection Volume: 2 (µl) Dilution Factor: 50.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-63-6	Benzene, 1,2,4-trimethyl-	7.38	600000	NJ
2. 001074-43-7	Benzene, 1-methyl-3-propyl-	7.67	1600000	NJ
3. 000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	7.75	2500000	NJ
4. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	8.06	1800000	NJ
5. 000095-93-2	Benzene, 1,2,4,5-tetramethyl-	8.09	1300000	NJ
6. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	8.17	2900000	NJ
7.	Unknown hydrocarbon (8.38)	8.38	330000	J
8.	Unknown hydrocarbon (8.41)	8.41	410000	J
9. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	8.55	1200000	NJ
10. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	8.70	4100000	NJ
11. 000488-23-3	Benzene, 1,2,3,4-tetramethyl-	8.76	5000000	NJ
12.	Unknown hydrocarbon (8.93)	8.93	820000	J
13.	Unknown hydrocarbon (9.03)	9.03	1800000	J
14. 000874-35-1	1H-Indene, 2,3-dihydro-5-methyl	9.17	3100000	NJ
15.	Unknown (9.29)	9.29	670000	J
16. 000934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	9.36	6200000	NJ
17.	Unknown hydrocarbon (9.44)	9.44	810000	J
18.	Unknown hydrocarbon (9.49)	9.49	1000000	J
19.	Unknown hydrocarbon (9.59)	9.59	2400000	J
20.	Unknown hydrocarbon (9.81)	9.81	490000	J
21.	Unknown (9.9)	9.90	2000000	J
22. 000700-12-9	Benzene, pentamethyl-	10.15	1500000	NJ
23. 025550-13-4	Benzene, diethylmethyl-	10.32	480000	NJ
24. 004706-90-5	Benzene, 1,3-dimethyl-5-(1-meth	10.59	480000	NJ
25. 006682-71-9	1H-Indene, 2,3-dihydro-4,7-dime	10.83	300000	NJ
26.	Unknown hydrocarbon (11.04)	11.04	340000	J
27.	Unknown (11.13)	11.13	350000	J
28. 004706-90-5	Benzene, 1,3-dimethyl-5-(1-meth	11.23	860000	NJ
29.	Unknown (11.48)	11.48	320000	J
30. 000085-44-9	1,3-Isobenzofurandione	11.79	980000	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8557.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	5000	U
108-95-2	Phenol	5000	U
111-44-4	bis(2-Chloroethyl)ether	5000	U
95-57-8	2-Chlorophenol	5000	U
95-48-7	2-Methylphenol	5000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5000	U
98-86-2	Acetophenone	5000	U
106-44-5	4-Methylphenol	5000	U
621-64-7	N-Nitroso-di-n-propylamine	5000	U
67-72-1	Hexachloroethane	5000	U
98-95-3	Nitrobenzene	5000	U
78-59-1	Isophorone	5000	U
88-75-5	2-Nitrophenol	5000	U
105-67-9	2,4-Dimethylphenol	5000	U
111-91-1	bis(2-Chloroethoxy)methane	5000	U
120-83-2	2,4-Dichlorophenol	5000	U
91-20-3	Naphthalene	5000	U
106-47-8	4-Chloroaniline	5000	U
87-68-3	Hexachlorobutadiene	5000	U
105-60-2	Caprolactam	5000	U
59-50-7	4-Chloro-3-methylphenol	5000	U
91-57-6	2-Methylnaphthalene	5000	U
77-47-4	Hexachlorocyclopentadiene	5000	U
88-06-2	2,4,6-Trichlorophenol	5000	U
95-95-4	2,4,5-Trichlorophenol	12000	U
92-52-4	1,1'-Biphenyl	5000	U
91-58-7	2-Chloronaphthalene	5000	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	5000	U
606-20-2	2,6-Dinitrotoluene	5000	U
208-96-8	Acenaphthylene	5000	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	5000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8557.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	5000	U
121-14-2	2,4-Dinitrotoluene	5000	U
84-66-2	Diethylphthalate	5000	U
86-73-7	Fluorene	5000	U
7005-72-3	4-Chlorophenyl-phenylether	5000	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	5000	U
101-55-3	4-Bromophenyl-phenylether	5000	U
118-74-1	Hexachlorobenzene	5000	U
1912-24-9	Atrazine	5000	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	400	J
120-12-7	Anthracene	5000	U
86-74-8	Carbazole	5000	U
84-74-2	Di-n-butylphthalate	5000	U
206-44-0	Fluoranthene	5000	U
129-00-0	Pyrene	5000	U
85-68-7	Butylbenzylphthalate	5000	U
91-94-1	3,3´-Dichlorobenzidine	5000	U
56-55-3	Benzo(a)anthracene	5000	U
218-01-9	Chrysene	5000	U
117-81-7	bis(2-Ethylhexyl)phthalate	5000	U
117-84-0	Di-n-octylphthalate	300	J
205-99-2	Benzo(b)fluoranthene	5000	U
207-08-9	Benzo(k)fluoranthene	5000	U
50-32-8	Benzo(a)pyrene	5000	U
193-39-5	Indeno(1,2,3-cd)pyrene	5000	U
53-70-3	Dibenzo(a,h)anthracene	5000	U
191-24-2	Benzo(g,h,i)perylene	5000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-005B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8557.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/22/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 2 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (19.74)	19.74	1200	J
2.	Unknown (23.65)	23.65	1300	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8567.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	300000	U
108-95-2	Phenol	300000	U
111-44-4	bis(2-Chloroethyl)ether	300000	U
95-57-8	2-Chlorophenol	300000	U
95-48-7	2-Methylphenol	300000	U
108-60-1	2,2´-oxybis(1-Chloropropane)	300000	U
98-86-2	Acetophenone	300000	U
106-44-5	4-Methylphenol	300000	U
621-64-7	N-Nitroso-di-n-propylamine	300000	U
67-72-1	Hexachloroethane	300000	U
98-95-3	Nitrobenzene	300000	U
78-59-1	Isophorone	300000	U
88-75-5	2-Nitrophenol	300000	U
105-67-9	2,4-Dimethylphenol	300000	U
111-91-1	bis(2-Chloroethoxy)methane	300000	U
120-83-2	2,4-Dichlorophenol	300000	U
91-20-3	Naphthalene	300000	U
106-47-8	4-Chloroaniline	100000	J
87-68-3	Hexachlorobutadiene	300000	U
105-60-2	Caprolactam	300000	U
59-50-7	4-Chloro-3-methylphenol	300000	U
91-57-6	2-Methylnaphthalene	300000	U
77-47-4	Hexachlorocyclopentadiene	300000	U
88-06-2	2,4,6-Trichlorophenol	300000	U
95-95-4	2,4,5-Trichlorophenol	750000	U
92-52-4	1,1´-Biphenyl	300000	U
91-58-7	2-Chloronaphthalene	300000	U
88-74-4	2-Nitroaniline	750000	U
131-11-3	Dimethylphthalate	300000	U
606-20-2	2,6-Dinitrotoluene	300000	U
208-96-8	Acenaphthylene	300000	U
99-09-2	3-Nitroaniline	750000	U
83-32-9	Acenaphthene	300000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8567.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750000	U
100-02-7	4-Nitrophenol	750000	U
132-64-9	Dibenzofuran	300000	U
121-14-2	2,4-Dinitrotoluene	300000	U
84-66-2	Diethylphthalate	300000	U
86-73-7	Fluorene	300000	U
7005-72-3	4-Chlorophenyl-phenylether	300000	U
100-01-6	4-Nitroaniline	750000	U
534-52-1	4,6-Dinitro-2-methylphenol	750000	U
86-30-6	N-Nitrosodiphenylamine (1)	17000	J
101-55-3	4-Bromophenyl-phenylether	300000	U
118-74-1	Hexachlorobenzene	300000	U
1912-24-9	Atrazine	300000	U
87-86-5	Pentachlorophenol	41000	J
85-01-8	Phenanthrene	300000	U
120-12-7	Anthracene	300000	U
86-74-8	Carbazole	300000	U
84-74-2	Di-n-butylphthalate	300000	U
206-44-0	Fluoranthene	300000	U
129-00-0	Pyrene	300000	U
85-68-7	Butylbenzylphthalate	300000	U
91-94-1	3,3'-Dichlorobenzidine	300000	U
56-55-3	Benzo(a)anthracene	300000	U
218-01-9	Chrysene	300000	U
117-81-7	bis(2-Ethylhexyl)phthalate	300000	U
117-84-0	Di-n-octylphthalate	300000	U
205-99-2	Benzo(b)fluoranthene	300000	U
207-08-9	Benzo(k)fluoranthene	300000	U
50-32-8	Benzo(a)pyrene	300000	U
193-39-5	Indeno(1,2,3-cd)pyrene	300000	U
53-70-3	Dibenzo(a,h)anthracene	300000	U
191-24-2	Benzo(g,h,i)perylene	300000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-006B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8567.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000062-53-3	Benzenamine	6.79	100000	NJ
2.	Unknown (11.03)	11.03	130000	J
3. 000622-62-8	Phenol, 4-ethoxy-	11.17	130000	NJ
4. 000156-43-4	Benzenamine, 4-ethoxy-	11.42	37000000	NJ
5. 000000-00-0	N-ETHYL-P-PHENETIDINE	12.97	1400000	NJ
6.	Unknown (14.61)	14.61	140000	J
7.	Unknown (15.02)	15.02	190000	J
8.	Unknown (15.15)	15.15	200000	J
9. 000062-44-2	Phenacetin	15.52	420000	NJ
10.	Unknown (15.56)	15.56	130000	J
11. 000534-85-0	1,2-Benzenediamine, N-phenyl-	16.72	180000	NJ
12.	Unknown (17.42)	17.42	180000	J
13. 000101-54-2	1,4-Benzenediamine, N-phenyl-	17.60	1100000	NJ
14.	Unknown (18.45)	18.45	210000	J
15.	Unknown (18.55)	18.55	250000	J
16. 000101-80-4	Benzenamine, 4,4'-oxybis-	18.68	500000	NJ
17. 075830-33-0	4-Formyl-5-hydroxy-(.delta.9,9a	19.00	160000	NJ
18.	Unknown (19.22)	19.22	150000	J
19.	Unknown (19.31)	19.31	210000	J
20.	Unknown (19.48)	19.48	7200000	J
21.	Unknown (19.71)	19.71	12000000	J
22.	Unknown (20.17)	20.17	240000	J
23.	Unknown (20.47)	20.47	500000	J
24.	Unknown (20.57)	20.57	93000	J
25.	Unknown (21.55)	21.55	3800000	J
26.	Unknown (21.77)	21.77	96000	J
27.	Unknown (26.47)	26.47	150000	J
28.	Unknown (27.25)	27.25	460000	J
29.	Unknown (30.59)	30.59	400000	J
30.	Unknown (32.67)	32.67	2400000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8608.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 5000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	50000	U
108-95-2	Phenol	50000	U
111-44-4	bis(2-Chloroethyl)ether	50000	U
95-57-8	2-Chlorophenol	50000	U
95-48-7	2-Methylphenol	50000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	50000	U
98-86-2	Acetophenone	50000	U
106-44-5	4-Methylphenol	50000	U
621-64-7	N-Nitroso-di-n-propylamine	50000	U
67-72-1	Hexachloroethane	50000	U
98-95-3	Nitrobenzene	50000	U
78-59-1	Isophorone	50000	U
88-75-5	2-Nitrophenol	50000	U
105-67-9	2,4-Dimethylphenol	50000	U
111-91-1	bis(2-Chloroethoxy)methane	50000	U
120-83-2	2,4-Dichlorophenol	3200	J
91-20-3	Naphthalene	24000	J
106-47-8	4-Chloroaniline	290000	
87-68-3	Hexachlorobutadiene	50000	U
105-60-2	Caprolactam	50000	U
59-50-7	4-Chloro-3-methylphenol	50000	U
91-57-6	2-Methylnaphthalene	4900	J
77-47-4	Hexachlorocyclopentadiene	50000	U
88-06-2	2,4,6-Trichlorophenol	50000	U
95-95-4	2,4,5-Trichlorophenol	120000	U
92-52-4	1,1'-Biphenyl	50000	U
91-58-7	2-Chloronaphthalene	50000	U
88-74-4	2-Nitroaniline	120000	U
131-11-3	Dimethylphthalate	50000	U
606-20-2	2,6-Dinitrotoluene	50000	U
208-96-8	Acenaphthylene	50000	U
99-09-2	3-Nitroaniline	120000	U
83-32-9	Acenaphthene	7600	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8608.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 5000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	120000	U
100-02-7	4-Nitrophenol	120000	U
132-64-9	Dibenzofuran	6100	J
121-14-2	2,4-Dinitrotoluene	50000	U
84-66-2	Diethylphthalate	50000	U
86-73-7	Fluorene	9500	J
7005-72-3	4-Chlorophenyl-phenylether	50000	U
100-01-6	4-Nitroaniline	120000	U
534-52-1	4,6-Dinitro-2-methylphenol	120000	U
86-30-6	N-Nitrosodiphenylamine (1)	50000	U
101-55-3	4-Bromophenyl-phenylether	50000	U
118-74-1	Hexachlorobenzene	50000	U
1912-24-9	Atrazine	50000	U
87-86-5	Pentachlorophenol	12000	J
85-01-8	Phenanthrene	62000	
120-12-7	Anthracene	14000	J
86-74-8	Carbazole	5100	J
84-74-2	Di-n-butylphthalate	50000	U
206-44-0	Fluoranthene	43000	J
129-00-0	Pyrene	38000	J
85-68-7	Butylbenzylphthalate	50000	U
91-94-1	3,3'-Dichlorobenzidine	50000	U
56-55-3	Benzo(a)anthracene	18000	J
218-01-9	Chrysene	35000	J
117-81-7	bis(2-Ethylhexyl)phthalate	7200	J
117-84-0	Di-n-octylphthalate	50000	U
205-99-2	Benzo(b)fluoranthene	11000	J
207-08-9	Benzo(k)fluoranthene	12000	J
50-32-8	Benzo(a)pyrene	10000	J
193-39-5	Indeno(1,2,3-cd)pyrene	50000	U
53-70-3	Dibenzo(a,h)anthracene	50000	U
191-24-2	Benzo(g,h,i)perylene	50000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-007B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8608.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 5000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 11 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000062-53-3	Benzenamine	6.77	14000	NJ
2. 000095-51-2	Benzenamine, 2-chloro-	8.99	210000	NJ
3. 000106-47-8	Benzenamine, 4-chloro-(TCL)	10.13	49000	NJ
4. 000608-31-1	Benzenamine, 2,6-dichloro- (11.	11.94	65000	NJ
5. 000608-31-1	Benzenamine, 2,6-dichloro- (12.	12.23	130000	NJ
6. 000634-93-5	Benzenamine, 2,4,6-trichloro-	12.90	24000	NJ
7. 000554-00-7	Benzenamine, 2,4-dichloro-	13.11	42000	NJ
8. 000000-00-0	OCTYL PHENOL ISOMER	14.64	49000	NJ
9.	Unknown hydrocarbon	16.06	17000	J
10. 004536-30-5	Ethanol, 2-(dodecyloxy)-	16.96	290000	NJ
11.	Unknown	18.11	150000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8563.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	99000	U
108-95-2	Phenol	99000	U
111-44-4	bis(2-Chloroethyl)ether	99000	U
95-57-8	2-Chlorophenol	99000	U
95-48-7	2-Methylphenol	99000	U
108-60-1	2,2´-oxybis(1-Chloropropane)	99000	U
98-86-2	Acetophenone	99000	U
106-44-5	4-Methylphenol	99000	U
621-64-7	N-Nitroso-di-n-propylamine	99000	U
67-72-1	Hexachloroethane	99000	U
98-95-3	Nitrobenzene	51000	J
78-59-1	Isophorone	99000	U
88-75-5	2-Nitrophenol	99000	U
105-67-9	2,4-Dimethylphenol	99000	U
111-91-1	bis(2-Chloroethoxy)methane	99000	U
120-83-2	2,4-Dichlorophenol	7200	J
91-20-3	Naphthalene	660000	
106-47-8	4-Chloroaniline	350000	
87-68-3	Hexachlorobutadiene	6300	J
105-60-2	Caprolactam	99000	U
59-50-7	4-Chloro-3-methylphenol	99000	U
91-57-6	2-Methylnaphthalene	99000	U
77-47-4	Hexachlorocyclopentadiene	99000	U
88-06-2	2,4,6-Trichlorophenol	7900	J
95-95-4	2,4,5-Trichlorophenol	250000	U
92-52-4	1,1´-Biphenyl	44000	J
91-58-7	2-Chloronaphthalene	99000	U
88-74-4	2-Nitroaniline	250000	U
131-11-3	Dimethylphthalate	99000	U
606-20-2	2,6-Dinitrotoluene	99000	U
208-96-8	Acenaphthylene	99000	U
99-09-2	3-Nitroaniline	250000	U
83-32-9	Acenaphthene	99000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8563.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250000	U
100-02-7	4-Nitrophenol	250000	U
132-64-9	Dibenzofuran	99000	U
121-14-2	2,4-Dinitrotoluene	99000	U
84-66-2	Diethylphthalate	99000	U
86-73-7	Fluorene	99000	U
7005-72-3	4-Chlorophenyl-phenylether	99000	U
100-01-6	4-Nitroaniline	250000	U
534-52-1	4,6-Dinitro-2-methylphenol	250000	U
86-30-6	N-Nitrosodiphenylamine (1)	99000	U
101-55-3	4-Bromophenyl-phenylether	99000	U
118-74-1	Hexachlorobenzene	99000	U
1912-24-9	Atrazine	99000	U
87-86-5	Pentachlorophenol	1400000	E
85-01-8	Phenanthrene	99000	U
120-12-7	Anthracene	99000	U
86-74-8	Carbazole	99000	U
84-74-2	Di-n-butylphthalate	99000	U
206-44-0	Fluoranthene	99000	U
129-00-0	Pyrene	99000	U
85-68-7	Butylbenzylphthalate	99000	U
91-94-1	3,3´-Dichlorobenzidine	99000	U
56-55-3	Benzo(a)anthracene	99000	U
218-01-9	Chrysene	99000	U
117-81-7	bis(2-Ethylhexyl)phthalate	99000	U
117-84-0	Di-n-octylphthalate	99000	U
205-99-2	Benzo(b)fluoranthene	99000	U
207-08-9	Benzo(k)fluoranthene	99000	U
50-32-8	Benzo(a)pyrene	99000	U
193-39-5	Indeno(1,2,3-cd)pyrene	99000	U
53-70-3	Dibenzo(a,h)anthracene	99000	U
191-24-2	Benzo(g,h,i)perylene	99000	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8580.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	200000	U
108-95-2	Phenol	200000	U
111-44-4	bis(2-Chloroethyl)ether	200000	U
95-57-8	2-Chlorophenol	200000	U
95-48-7	2-Methylphenol	200000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	200000	U
98-86-2	Acetophenone	200000	U
106-44-5	4-Methylphenol	200000	U
621-64-7	N-Nitroso-di-n-propylamine	200000	U
67-72-1	Hexachloroethane	200000	U
98-95-3	Nitrobenzene	45000	DJ
78-59-1	Isophorone	200000	U
88-75-5	2-Nitrophenol	200000	U
105-67-9	2,4-Dimethylphenol	200000	U
111-91-1	bis(2-Chloroethoxy)methane	200000	U
120-83-2	2,4-Dichlorophenol	200000	U
91-20-3	Naphthalene	580000	D
106-47-8	4-Chloroaniline	340000	D
87-68-3	Hexachlorobutadiene	200000	U
105-60-2	Caprolactam	200000	U
59-50-7	4-Chloro-3-methylphenol	200000	U
91-57-6	2-Methylnaphthalene	200000	U
77-47-4	Hexachlorocyclopentadiene	200000	U
88-06-2	2,4,6-Trichlorophenol	200000	U
95-95-4	2,4,5-Trichlorophenol	500000	U
92-52-4	1,1'-Biphenyl	39000	DJ
91-58-7	2-Chloronaphthalene	200000	U
88-74-4	2-Nitroaniline	500000	U
131-11-3	Dimethylphthalate	200000	U
606-20-2	2,6-Dinitrotoluene	200000	U
208-96-8	Acenaphthylene	200000	U
99-09-2	3-Nitroaniline	500000	U
83-32-9	Acenaphthene	200000	U

1G

EPA SAMPLE NO.

E21K7

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8563.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro-	9.04	790000	NJ
2. 001863-63-4	Benzoic acid	9.29	290000	NJ
3.	Unknown (10.12)	10.12	57000	J
4. 000121-73-3	Benzene, 1-chloro-3-nitro-	10.63	190000	NJ
5. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.80	1300000	NJ
6. 000088-73-3	2-Chloronitrobenzene	10.92	640000	NJ
7. 000085-44-9	1,3-Isobenzofurandione	11.83	100000	NJ
8. 000095-76-1	Benzenamine, 3,4-dichloro-	11.98	840000	NJ
9. 000608-31-1	Benzenamine, 2,6-dichloro-	12.28	530000	NJ
10. 000091-64-5	2H-1-Benzopyran-2-one (12.93)	12.93	100000	NJ
11. 000130-15-4	1,4-Naphthalenedione	13.01	330000	NJ
12. 000626-43-7	Benzenamine, 3,5-dichloro- (Pur	13.15	70000	NJ
13. 000091-64-5	2H-1-Benzopyran-2-one (13.33)	13.33	470000	NJ
14. 000085-41-6	1H-Isoindole-1,3(2H)-dione	13.40	48000	NJ
15. 000100-29-8	Benzene, 1-ethoxy-4-nitro-	13.50	160000	NJ
16. 000058-27-5	1,4-Naphthalenedione, 2-methyl-	14.09	48000	NJ
17. 000083-72-7	1,4-Naphthalenedione, 2-hydroxy	14.38	55000	NJ
18. 000935-95-5	Phenol, 2,3,5,6-tetrachloro-	14.43	53000	NJ
19. 000140-66-9	Phenol, 4-(1,1,3,3-tetramethylb	14.68	59000	NJ
20. 000088-19-7	2-TOLUENESULFONAMIDE	15.02	91000	NJ
21. 000070-55-3	4-TOLUENESULFONAMIDE	15.34	63000	NJ
22. 000086-00-0	1,1'-Biphenyl, 2-nitro-	15.66	270000	NJ
23.	Unknown (16.39)	16.39	47000	J
24. 000092-93-3	1,1'-Biphenyl, 4-nitro-	16.96	230000	NJ
25. 062796-65-0	1,1'-Biphenyl, 2,2',4,6-Tetrach	17.54	48000	NJ
26. 000084-65-1	9,10-Anthracenedione	17.94	130000	NJ
27. 025429-29-2	1,1'-Biphenyl, pentachloro- (18	18.47	100000	NJ
28. 025429-29-2	1,1'-Biphenyl, pentachloro- (18	18.74	62000	NJ
29. 037680-73-2	1,1'-Biphenyl, 2,2',4,5,5'-pent	19.60	120000	NJ
30. 002498-66-0	Benz(a)anthracene-7,12-dione	23.26	58000	NJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8580.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 40.00

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	500000	U
100-02-7	4-Nitrophenol	500000	U
132-64-9	Dibenzofuran	200000	U
121-14-2	2,4-Dinitrotoluene	200000	U
84-66-2	Diethylphthalate	200000	U
86-73-7	Fluorene	200000	U
7005-72-3	4-Chlorophenyl-phenylether	200000	U
100-01-6	4-Nitroaniline	500000	U
534-52-1	4,6-Dinitro-2-methylphenol	500000	U
86-30-6	N-Nitrosodiphenylamine (1)	200000	U
101-55-3	4-Bromophenyl-phenylether	200000	U
118-74-1	Hexachlorobenzene	200000	U
1912-24-9	Atrazine	200000	U
87-86-5	Pentachlorophenol	960000	D
85-01-8	Phenanthrene	200000	U
120-12-7	Anthracene	200000	U
86-74-8	Carbazole	200000	U
84-74-2	Di-n-butylphthalate	200000	U
206-44-0	Fluoranthene	200000	U
129-00-0	Pyrene	200000	U
85-68-7	Butylbenzylphthalate	200000	U
91-94-1	3,3'-Dichlorobenzidine	200000	U
56-55-3	Benzo(a)anthracene	200000	U
218-01-9	Chrysene	200000	U
117-81-7	bis(2-Ethylhexyl)phthalate	200000	U
117-84-0	Di-n-octylphthalate	200000	U
205-99-2	Benzo(b)fluoranthene	200000	U
207-08-9	Benzo(k)fluoranthene	200000	U
50-32-8	Benzo(a)pyrene	200000	U
193-39-5	Indeno(1,2,3-cd)pyrene	200000	U
53-70-3	Dibenzo(a,h)anthracene	200000	U
191-24-2	Benzo(g,h,i)perylene	200000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K7DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8580.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 40.00

GPC Cleanup: (Y/N) N pH: 7.2 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 28 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro- (9.02)	9.02	830000	NJ
2. 001863-63-4	Benzoic acid	9.21	160000	NJ
3. 000095-51-2	Benzenamine, 2-chloro- (10.12)	10.12	49000	NJ
4. 000121-73-3	Benzene, 1-chloro-3-nitro-	10.62	220000	NJ
5. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.78	1500000	NJ
6. 000088-73-3	2-Chloronitrobenzene	10.89	700000	NJ
7. 000085-44-9	1,3-Isobenzofurandione	11.81	120000	NJ
8. 000608-31-1	Benzenamine, 2,6-dichloro- (11.	11.98	760000	NJ
9. 000608-31-1	Benzenamine, 2,6-dichloro- (12.	12.26	460000	NJ
10.	Unknown (12.6)	12.60	57000	J
11. 000091-64-5	2H-1-Benzopyran-2-one (12.92)	12.92	90000	NJ
12. 000130-15-4	1,4-Naphthalenedione	13.01	320000	NJ
13. 000095-76-1	Benzenamine, 3,4-dichloro-	13.14	67000	NJ
14. 000091-64-5	2H-1-Benzopyran-2-one (13.33)	13.33	420000	NJ
15. 000100-29-8	Benzene, 1-ethoxy-4-nitro-	13.50	140000	NJ
16. 000058-27-5	1,4-Naphthalenedione, 2-methyl-	14.09	43000	NJ
17. 000088-19-7	2-TOLUENESULFONAMIDE	15.00	73000	NJ
18. 000070-55-3	4-TOLUENESULFONAMIDE	15.34	56000	NJ
19. 000086-00-0	1,1'-Biphenyl, 2-nitro-	15.66	270000	NJ
20.	Unknown (16.38)	16.38	40000	J
21. 000092-93-3	1,1'-Biphenyl, 4-nitro-	16.94	180000	NJ
22. 052663-59-9	1,1'-Biphenyl, 2,2',3,4-tetrach	17.53	44000	NJ
23. 000084-65-1	9,10-Anthracenedione	17.94	100000	NJ
24. 039485-83-1	1,1'-Biphenyl, 2,2',4,4',6-Pent	18.46	87000	NJ
25. 039485-83-1	1,1'-Biphenyl, 2,2',4,4',6-Pent	18.73	55000	NJ
26. 038380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pent	19.27	52000	NJ
27. 074472-37-0	2,3,4,4',5-Pentachlorobiphenyl	19.59	140000	NJ
28. 002498-66-0	Benz(a)anthracene-7,12-dione	23.26	64000	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8579.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25000	U
108-95-2	Phenol	25000	U
111-44-4	bis(2-Chloroethyl)ether	25000	U
95-57-8	2-Chlorophenol	25000	U
95-48-7	2-Methylphenol	25000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	25000	U
98-86-2	Acetophenone	25000	U
106-44-5	4-Methylphenol	25000	U
621-64-7	N-Nitroso-di-n-propylamine	25000	U
67-72-1	Hexachloroethane	25000	U
98-95-3	Nitrobenzene	25000	U
78-59-1	Isophorone	25000	U
88-75-5	2-Nitrophenol	25000	U
105-67-9	2,4-Dimethylphenol	25000	U
111-91-1	bis(2-Chloroethoxy)methane	25000	U
120-83-2	2,4-Dichlorophenol	25000	U
91-20-3	Naphthalene	7800	J
106-47-8	4-Chloroaniline	23000	J
87-68-3	Hexachlorobutadiene	25000	U
105-60-2	Caprolactam	25000	U
59-50-7	4-Chloro-3-methylphenol	25000	U
91-57-6	2-Methylnaphthalene	25000	U
77-47-4	Hexachlorocyclopentadiene	25000	U
88-06-2	2,4,6-Trichlorophenol	25000	U
95-95-4	2,4,5-Trichlorophenol	62000	U
92-52-4	1,1'-Biphenyl	25000	U
91-58-7	2-Chloronaphthalene	25000	U
88-74-4	2-Nitroaniline	62000	U
131-11-3	Dimethylphthalate	25000	U
606-20-2	2,6-Dinitrotoluene	25000	U
208-96-8	Acenaphthylene	25000	U
99-09-2	3-Nitroaniline	62000	U
83-32-9	Acenaphthene	25000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8579.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	62000	U
100-02-7	4-Nitrophenol	62000	U
132-64-9	Dibenzofuran	25000	U
121-14-2	2,4-Dinitrotoluene	25000	U
84-66-2	Diethylphthalate	25000	U
86-73-7	Fluorene	25000	U
7005-72-3	4-Chlorophenyl-phenylether	25000	U
100-01-6	4-Nitroaniline	62000	U
534-52-1	4,6-Dinitro-2-methylphenol	62000	U
86-30-6	N-Nitrosodiphenylamine (1)	25000	U
101-55-3	4-Bromophenyl-phenylether	25000	U
118-74-1	Hexachlorobenzene	25000	U
1912-24-9	Atrazine	25000	U
87-86-5	Pentachlorophenol	62000	
85-01-8	Phenanthrene	25000	U
120-12-7	Anthracene	25000	U
86-74-8	Carbazole	25000	U
84-74-2	Di-n-butylphthalate	3300	J
206-44-0	Fluoranthene	25000	U
129-00-0	Pyrene	25000	U
85-68-7	Butylbenzylphthalate	25000	U
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)anthracene	25000	U
218-01-9	Chrysene	25000	U
117-81-7	bis(2-Ethylhexyl)phthalate	25000	U
117-84-0	Di-n-octylphthalate	25000	U
205-99-2	Benzo(b)fluoranthene	25000	U
207-08-9	Benzo(k)fluoranthene	25000	U
50-32-8	Benzo(a)pyrene	25000	U
193-39-5	Indeno(1,2,3-cd)pyrene	25000	U
53-70-3	Dibenzo(a,h)anthracene	25000	U
191-24-2	Benzo(g,h,i)perylene	25000	U

(1) Cannot be separated from Diphenylamine

1326

7/31/02

1G

EPA SAMPLE NO.

E21K8

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-009B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8579.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000095-51-2	Benzenamine, 2-chloro-	9.02	23000	NJ
2. 000100-00-5	Benzene, 1-chloro-4-nitro-	10.78	7500	NJ
3. 000088-73-3	2-Chloronitrobenzene	10.88	14000	NJ
4. 000608-31-1	Benzenamine, 2,6-dichloro- (11.	11.98	48000	NJ
5. 000634-90-2	Benzene, 1,2,3,5-tetrachloro- (	12.03	5500	NJ
6. 000608-31-1	Benzenamine, 2,6-dichloro- (12.	12.26	28000	NJ
7. 000634-90-2	Benzene, 1,2,3,5-tetrachloro- (	12.63	30000	NJ
8. 000130-15-4	1,4-Naphthalenedione	13.01	7100	NJ
9. 000095-76-1	Benzenamine, 3,4-dichloro-	13.14	10000	NJ
10. 000091-64-5	2H-1-Benzopyran-2-one	13.31	8800	NJ
11. 000100-29-8	Benzene, 1-ethoxy-4-nitro-	13.50	5400	NJ
12. 000140-66-9	Phenol, 4-(1,1,3,3-tetramethylb	14.68	36000	NJ
13.	Unknown (14.76)	14.76	17000	J
14. 000103-50-4	Benzene, 1,1'-(oxybis(methylene	15.17	12000	NJ
15. 000086-00-0	1,1'-Biphenyl, 2-nitro-	15.66	15000	NJ
16.	Unknown (16.11)	16.11	5400	J
17.	Unknown (16.38)	16.38	43000	J
18. 000092-93-3	1,1'-Biphenyl, 4-nitro-	16.96	41000	NJ
19. 062796-65-0	1,1'-Biphenyl, 2,2',4,6-Tetrach	17.53	6400	NJ
20.	Unknown (17.87)	17.87	10000	J
21.	Unknown (17.94)	17.94	17000	J
22.	Unknown (18.11)	18.11	8100	J
23. 026914-33-0	1,1'-Biphenyl, tetrachloro-	18.46	5600	NJ
24. 038380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pent	19.27	6600	NJ
25. 032598-14-4	1,1'-Biphenyl, 2,3,3',4,4'-pent	19.59	11000	NJ
26. 000620-40-6	Benzenemethanamine, N,N-bis(phe	19.73	19000	NJ
27.	Unknown (19.83)	19.83	17000	J
28. 074472-35-8	1,1'-Biphenyl, 2,3,3',4,6-Penta	19.98	8600	NJ
29. 052663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5'-h	20.29	5300	NJ
30.	Unknown (26.3)	26.30	13000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-010B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8559.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	9900	U
111-44-4	bis(2-Chloroethyl)ether	9900	U
95-57-8	2-Chlorophenol	9900	U
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	9900	U
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
120-83-2	2,4-Dichlorophenol	1100	J
91-20-3	Naphthalene	9900	U
106-47-8	4-Chloroaniline	3200	J
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	9900	U
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	9900	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	9900	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	9900	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-010B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8559.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	9900	U
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	9900	U
120-12-7	Anthracene	9900	U
86-74-8	Carbazole	9900	U
84-74-2	Di-n-butylphthalate	9900	U
206-44-0	Fluoranthene	9900	U
129-00-0	Pyrene	9900	U
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	9900	U
218-01-9	Chrysene	9900	U
117-81-7	bis(2-Ethylhexyl)phthalate	9900	U
117-84-0	Di-n-octylphthalate	9900	U
205-99-2	Benzo(b)fluoranthene	9900	U
207-08-9	Benzo(k)fluoranthene	9900	U
50-32-8	Benzo(a)pyrene	9900	U
193-39-5	Indeno(1,2,3-cd)pyrene	9900	U
53-70-3	Dibenzo(a,h)anthracene	9900	U
191-24-2	Benzo(g,h,i)perylene	9900	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21K9

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-010B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8559.D

Level: (low/med) MED Date Received: 07/16/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/22/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 10 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000094-70-2	Benzenamine, 2-ethoxy-	10.61	2700	NJ
2.	Unknown (14.07)	14.07	2300	J
3.	Unknown (14.47)	14.47	3100	J
4.	Unknown (15.08)	15.08	3300	J
5.	Unknown (15.35)	15.35	3400	J
6. 004542-57-8	Dodecane, 1,1´-oxybis-	15.62	5400	NJ
7.	Unknown (16.16)	16.16	8200	J
8.	Unknown (16.3)	16.30	14000	J
9.	Unknown (16.77)	16.77	5100	J
10.	Unknown (30.33)	30.33	4200	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-016B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8569.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 2.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	300000	U
108-95-2	Phenol	300000	U
111-44-4	bis(2-Chloroethyl)ether	300000	U
95-57-8	2-Chlorophenol	16000	J
95-48-7	2-Methylphenol	300000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	300000	U
98-86-2	Acetophenone	300000	U
106-44-5	4-Methylphenol	300000	U
621-64-7	N-Nitroso-di-n-propylamine	300000	U
67-72-1	Hexachloroethane	300000	U
98-95-3	Nitrobenzene	300000	U
78-59-1	Isophorone	300000	U
88-75-5	2-Nitrophenol	300000	U
105-67-9	2,4-Dimethylphenol	300000	U
111-91-1	bis(2-Chloroethoxy)methane	300000	U
120-83-2	2,4-Dichlorophenol	300000	U
91-20-3	Naphthalene	300000	U
106-47-8	4-Chloroaniline	80000	J
87-68-3	Hexachlorobutadiene	300000	U
105-60-2	Caprolactam	300000	U
59-50-7	4-Chloro-3-methylphenol	300000	U
91-57-6	2-Methylnaphthalene	300000	U
77-47-4	Hexachlorocyclopentadiene	300000	U
88-06-2	2,4,6-Trichlorophenol	300000	U
95-95-4	2,4,5-Trichlorophenol	750000	U
92-52-4	1,1'-Biphenyl	300000	U
91-58-7	2-Chloronaphthalene	300000	U
88-74-4	2-Nitroaniline	750000	U
131-11-3	Dimethylphthalate	300000	U
606-20-2	2,6-Dinitrotoluene	300000	U
208-96-8	Acenaphthylene	300000	U
99-09-2	3-Nitroaniline	750000	U
83-32-9	Acenaphthene	300000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-016B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8569.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 2.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750000	U
100-02-7	4-Nitrophenol	750000	U
132-64-9	Dibenzofuran	300000	U
121-14-2	2,4-Dinitrotoluene	300000	U
84-66-2	Diethylphthalate	300000	U
86-73-7	Fluorene	300000	U
7005-72-3	4-Chlorophenyl-phenylether	300000	U
100-01-6	4-Nitroaniline	750000	U
534-52-1	4,6-Dinitro-2-methylphenol	750000	U
86-30-6	N-Nitrosodiphenylamine (1)	300000	U
101-55-3	4-Bromophenyl-phenylether	300000	U
118-74-1	Hexachlorobenzene	300000	U
1912-24-9	Atrazine	300000	U
87-86-5	Pentachlorophenol	27000	J
85-01-8	Phenanthrene	300000	U
120-12-7	Anthracene	300000	U
86-74-8	Carbazole	300000	U
84-74-2	Di-n-butylphthalate	300000	U
206-44-0	Fluoranthene	300000	U
129-00-0	Pyrene	300000	U
85-68-7	Butylbenzylphthalate	300000	U
91-94-1	3,3'-Dichlorobenzidine	300000	U
56-55-3	Benzo(a)anthracene	300000	U
218-01-9	Chrysene	300000	U
117-81-7	bis(2-Ethylhexyl)phthalate	300000	U
117-84-0	Di-n-octylphthalate	300000	U
205-99-2	Benzo(b)fluoranthene	300000	U
207-08-9	Benzo(k)fluoranthene	300000	U
50-32-8	Benzo(a)pyrene	300000	U
193-39-5	Indeno(1,2,3-cd)pyrene	300000	U
53-70-3	Dibenzo(a,h)anthracene	300000	U
191-24-2	Benzo(g,h,i)perylene	300000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-016B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8569.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1500 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 2.9 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000090-05-1	Phenol, 2-methoxy-	8.28	890000	NJ
2. 000095-51-2	Benzenamine, 2-chloro-	9.04	670000	NJ
3.	Unknown (9.13)	9.13	230000	J
4.	Unknown (16.15)	16.15	3500000	J
5. 001655-70-5	Benzene, 1,1'-oxybis(2-methoxy-	16.30	2700000	NJ
6.	Unknown (16.44)	16.44	2400000	J
7.	Unknown (16.78)	16.78	260000	J
8. 000000-00-0	P-HYDROXYPHENYL PHENYLSULFONE	17.25	240000	NJ
9.	Unknown (17.44)	17.44	4900000	J
10.	Unknown (17.65)	17.65	6400000	J
11.	Unknown (17.69)	17.69	290000	J
12. 080569-37-5	2-(4-Methoxyphenyl)-N,N,2-trime	17.91	3000000	NJ
13.	Unknown (18.38)	18.38	410000	J
14. 004433-09-4	(1,1'-Biphenyl)-4,4'-diol, 3,3'	19.31	180000	NJ
15. 068454-44-4	METHYL 8-METHOXYBENZO(1,2-B:5,4	19.55	210000	NJ
16.	Unknown (19.65)	19.65	240000	J
17.	Unknown (19.75)	19.75	420000	J
18.	Unknown (20.64)	20.64	300000	J
19. 089148-83-4	6,12-Dihydro-3,10-dimethoxy-11H	21.47	530000	NJ
20.	Unknown (21.59)	21.59	190000	J
21.	Unknown (22.13)	22.13	330000	J
22.	Unknown (22.2)	22.20	170000	J
23. 089148-83-4	6,12-Dihydro-3,10-dimethoxy-11H	22.30	190000	NJ
24. 083375-26-2	11-Hydroxy-3,10-dimethoxy-1-met	22.71	190000	NJ
25.	Unknown (22.76)	22.76	330000	J
26. 028344-36-7	Androstan-17-one, 5,6-epoxy-3-f	23.31	380000	NJ
27.	Unknown (23.53)	23.53	170000	J
28.	Unknown (24.43)	24.43	180000	J
29.	Unknown (24.48)	24.48	210000	J
30.	Unknown (25.04)	25.04	260000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8587.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25000	U
108-95-2	Phenol	25000	U
111-44-4	bis(2-Chloroethyl)ether	25000	U
95-57-8	2-Chlorophenol	25000	U
95-48-7	2-Methylphenol	25000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	25000	U
98-86-2	Acetophenone	25000	U
106-44-5	4-Methylphenol	25000	U
621-64-7	N-Nitroso-di-n-propylamine	25000	U
67-72-1	Hexachloroethane	25000	U
98-95-3	Nitrobenzene	25000	U
78-59-1	Isophorone	25000	U
88-75-5	2-Nitrophenol	25000	U
105-67-9	2,4-Dimethylphenol	25000	U
111-91-1	bis(2-Chloroethoxy)methane	25000	U
120-83-2	2,4-Dichlorophenol	25000	U
91-20-3	Naphthalene	1800	J
106-47-8	4-Chloroaniline	5100	J
87-68-3	Hexachlorobutadiene	25000	U
105-60-2	Caprolactam	25000	U
59-50-7	4-Chloro-3-methylphenol	25000	U
91-57-6	2-Methylnaphthalene	25000	U
77-47-4	Hexachlorocyclopentadiene	25000	U
88-06-2	2,4,6-Trichlorophenol	25000	U
95-95-4	2,4,5-Trichlorophenol	62000	U
92-52-4	1,1'-Biphenyl	25000	U
91-58-7	2-Chloronaphthalene	25000	U
88-74-4	2-Nitroaniline	62000	U
131-11-3	Dimethylphthalate	25000	U
606-20-2	2,6-Dinitrotoluene	25000	U
208-96-8	Acenaphthylene	25000	U
99-09-2	3-Nitroaniline	62000	U
83-32-9	Acenaphthene	25000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8587.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	62000	U
100-02-7	4-Nitrophenol	62000	U
132-64-9	Dibenzofuran	25000	U
121-14-2	2,4-Dinitrotoluene	25000	U
84-66-2	Diethylphthalate	25000	U
86-73-7	Fluorene	25000	U
7005-72-3	4-Chlorophenyl-phenylether	25000	U
100-01-6	4-Nitroaniline	62000	U
534-52-1	4,6-Dinitro-2-methylphenol	62000	U
86-30-6	N-Nitrosodiphenylamine (1)	25000	U
101-55-3	4-Bromophenyl-phenylether	25000	U
118-74-1	Hexachlorobenzene	25000	U
1912-24-9	Atrazine	25000	U
87-86-5	Pentachlorophenol	62000	U
85-01-8	Phenanthrene	3000	J
120-12-7	Anthracene	25000	U
86-74-8	Carbazole	25000	U
84-74-2	Di-n-butylphthalate	25000	U
206-44-0	Fluoranthene	2500	J
129-00-0	Pyrene	2400	J
85-68-7	Butylbenzylphthalate	25000	U
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)anthracene	25000	U
218-01-9	Chrysene	2400	J
117-81-7	bis(2-Ethylhexyl)phthalate	1700	J
117-84-0	Di-n-octylphthalate	25000	U
205-99-2	Benzo(b)fluoranthene	4500	J
207-08-9	Benzo(k)fluoranthene	25000	U
50-32-8	Benzo(a)pyrene	25000	U
193-39-5	Indeno(1,2,3-cd)pyrene	25000	U
53-70-3	Dibenzo(a,h)anthracene	25000	U
191-24-2	Benzo(g,h,i)perylene	25000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8587.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/24/02

Injection Volume: 2 (µl) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 004537-14-8	Benzene, (1-pentylhexyl)-	14.75	38000	NJ
2.	Unknown hydrocarbon (14.78)	14.78	38000	J
3. 004536-86-1	Benzene, (1-propyloctyl)-	14.88	30000	NJ
4.	Unknown hydrocarbon (15.09)	15.09	42000	J
5.	Unknown hydrocarbon (15.39)	15.39	56000	J
6.	Unknown hydrocarbon (15.71)	15.71	27000	J
7. 002400-00-2	Benzene, (1-ethyldecyl)-	15.90	32000	NJ
8.	Unknown (16.12)	16.12	27000	J
9.	Unknown hydrocarbon (16.2)	16.20	54000	J
10. 004534-49-0	Benzene, (1-pentyloctyl)-	16.30	53000	NJ
11.	Unknown hydrocarbon (16.94)	16.94	46000	J
12.	Unknown (17.4)	17.40	52000	J
13. 041411-62-5	1,1'-Biphenyl, 2,3,3',4,5,6-hex	19.56	27000	NJ
14. 000072-54-8	p,p'-DDD	19.66	26000	NJ
15. 052663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5'-h	19.85	67000	NJ
16. 052663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5'-h	20.29	110000	NJ
17. 052663-65-7	1,1'-Biphenyl, 2,2',3,3',4,6,6'	20.51	74000	NJ
18. 039635-31-9	1,1'-Biphenyl, 2,3,3',4,4',5,5'	20.59	43000	NJ
19. 074472-51-8	1,1'-Biphenyl, 2,3,3',4,5,5',6-	20.91	110000	NJ
20. 052663-69-1	1,1'-Biphenyl, 2,2',3,4,4',5',6	21.01	83000	NJ
21. 052663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5'-h	21.10	71000	NJ
22. 074472-49-4	1,1'-Biphenyl, 2,2',3,4,5,6,6'-	21.22	54000	NJ
23. 039635-31-9	1,1'-Biphenyl, 2,3,3',4,4',5,5'	21.98	530000	NJ
24. 042740-50-1	1,1'-Biphenyl, 2,2',3,3',4,4',5	22.10	180000	NJ
25. 052663-78-2	1,1'-Biphenyl, 2,2',3,3',4,4',5	22.21	250000	NJ
26. 074472-51-8	1,1'-Biphenyl, 2,3,3',4,5,5',6-	22.50	43000	NJ
27. 052663-78-2	1,1'-Biphenyl, 2,2',3,3',4,4',5	22.94	160000	NJ
28. 052663-78-2	1,1'-Biphenyl, 2,2',3,3',4,4',5	23.35	570000	NJ
29. 074472-52-9	1,1'-Biphenyl, 2,2',3,4,4',5,6,	23.48	39000	NJ
30.	Unknown (24.97)	24.97	44000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017E

Sample wt/vol: 1 (g/mL) G Lab File ID: G8588.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25000	U
108-95-2	Phenol	37000	
111-44-4	bis(2-Chloroethyl)ether	25000	U
95-57-8	2-Chlorophenol	35000	
95-48-7	2-Methylphenol	25000	U
108-60-1	2,2´-oxybis(1-Chloropropane)	25000	U
98-86-2	Acetophenone	25000	U
106-44-5	4-Methylphenol	25000	U
621-64-7	N-Nitroso-di-n-propylamine	23000	J
67-72-1	Hexachloroethane	25000	U
98-95-3	Nitrobenzene	25000	U
78-59-1	Isophorone	25000	U
88-75-5	2-Nitrophenol	25000	U
105-67-9	2,4-Dimethylphenol	25000	U
111-91-1	bis(2-Chloroethoxy)methane	25000	U
120-83-2	2,4-Dichlorophenol	25000	U
91-20-3	Naphthalene	2100	J
106-47-8	4-Chloroaniline	13000	J
87-68-3	Hexachlorobutadiene	25000	U
105-60-2	Caprolactam	25000	U
59-50-7	4-Chloro-3-methylphenol	41000	
91-57-6	2-Methylnaphthalene	25000	U
77-47-4	Hexachlorocyclopentadiene	25000	U
88-06-2	2,4,6-Trichlorophenol	25000	U
95-95-4	2,4,5-Trichlorophenol	62000	U
92-52-4	1,1´-Biphenyl	2200	J
91-58-7	2-Chloronaphthalene	25000	U
88-74-4	2-Nitroaniline	62000	U
131-11-3	Dimethylphthalate	25000	U
606-20-2	2,6-Dinitrotoluene	25000	U
208-96-8	Acenaphthylene	25000	U
99-09-2	3-Nitroaniline	62000	U
83-32-9	Acenaphthene	29000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017E

Sample wt/vol: 1 (g/mL) G Lab File ID: G8588.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	62000	U
100-02-7	4-Nitrophenol	39000	J
132-64-9	Dibenzofuran	25000	U
121-14-2	2,4-Dinitrotoluene	25000	
84-66-2	Diethylphthalate	25000	U
86-73-7	Fluorene	25000	U
7005-72-3	4-Chlorophenyl-phenylether	25000	U
100-01-6	4-Nitroaniline	62000	U
534-52-1	4,6-Dinitro-2-methylphenol	62000	U
86-30-6	N-Nitrosodiphenylamine (1)	25000	U
101-55-3	4-Bromophenyl-phenylether	25000	U
118-74-1	Hexachlorobenzene	25000	U
1912-24-9	Atrazine	25000	U
87-86-5	Pentachlorophenol	17000	J
85-01-8	Phenanthrene	4300	J
120-12-7	Anthracene	25000	U
86-74-8	Carbazole	25000	U
84-74-2	Di-n-butylphthalate	5500	J
206-44-0	Fluoranthene	3300	J
129-00-0	Pyrene	33000	
85-68-7	Butylbenzylphthalate	1700	J
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)anthracene	1500	J
218-01-9	Chrysene	2100	J
117-81-7	bis(2-Ethylhexyl)phthalate	4000	J
117-84-0	Di-n-octylphthalate	25000	U
205-99-2	Benzo(b)fluoranthene	1700	J
207-08-9	Benzo(k)fluoranthene	25000	U
50-32-8	Benzo(a)pyrene	25000	U
193-39-5	Indeno(1,2,3-cd)pyrene	25000	U
53-70-3	Dibenzo(a,h)anthracene	25000	U
191-24-2	Benzo(g,h,i)perylene	25000	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017F

Sample wt/vol: 1 (g/mL) G Lab File ID: G8595.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25000	U
108-95-2	Phenol	31000	
111-44-4	bis(2-Chloroethyl)ether	25000	U
95-57-8	2-Chlorophenol	32000	
95-48-7	2-Methylphenol	25000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	25000	U
98-86-2	Acetophenone	25000	U
106-44-5	4-Methylphenol	25000	U
621-64-7	N-Nitroso-di-n-propylamine	22000	J
67-72-1	Hexachloroethane	25000	U
98-95-3	Nitrobenzene	25000	U
78-59-1	Isophorone	25000	U
88-75-5	2-Nitrophenol	25000	U
105-67-9	2,4-Dimethylphenol	25000	U
111-91-1	bis(2-Chloroethoxy)methane	25000	U
120-83-2	2,4-Dichlorophenol	25000	U
91-20-3	Naphthalene	2800	J
106-47-8	4-Chloroaniline	13000	J
87-68-3	Hexachlorobutadiene	25000	U
105-60-2	Caprolactam	25000	U
59-50-7	4-Chloro-3-methylphenol	43000	
91-57-6	2-Methylnaphthalene	25000	U
77-47-4	Hexachlorocyclopentadiene	25000	U
88-06-2	2,4,6-Trichlorophenol	25000	U
95-95-4	2,4,5-Trichlorophenol	62000	U
92-52-4	1,1'-Biphenyl	2400	J
91-58-7	2-Chloronaphthalene	25000	U
88-74-4	2-Nitroaniline	62000	U
131-11-3	Dimethylphthalate	25000	U
606-20-2	2,6-Dinitrotoluene	25000	U
208-96-8	Acenaphthylene	25000	U
99-09-2	3-Nitroaniline	62000	U
83-32-9	Acenaphthene	30000	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-017F

Sample wt/vol: 1 (g/mL) G Lab File ID: G8595.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	62000	U
100-02-7	4-Nitrophenol	37000	J
132-64-9	Dibenzofuran	25000	U
121-14-2	2,4-Dinitrotoluene	28000	
84-66-2	Diethylphthalate	25000	U
86-73-7	Fluorene	1500	J
7005-72-3	4-Chlorophenyl-phenylether	25000	U
100-01-6	4-Nitroaniline	62000	U
534-52-1	4,6-Dinitro-2-methylphenol	62000	U
86-30-6	N-Nitrosodiphenylamine (1)	25000	U
101-55-3	4-Bromophenyl-phenylether	25000	U
118-74-1	Hexachlorobenzene	25000	U
1912-24-9	Atrazine	25000	U
87-86-5	Pentachlorophenol	43000	J
85-01-8	Phenanthrene	6400	J
120-12-7	Anthracene	1300	J
86-74-8	Carbazole	25000	U
84-74-2	Di-n-butylphthalate	12000	J
206-44-0	Fluoranthene	6800	J
129-00-0	Pyrene	32000	
85-68-7	Butylbenzylphthalate	25000	U
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)anthracene	2000	J
218-01-9	Chrysene	3400	J
117-81-7	bis(2-Ethylhexyl)phthalate	5300	J
117-84-0	Di-n-octylphthalate	25000	U
205-99-2	Benzo(b)fluoranthene	2300	J
207-08-9	Benzo(k)fluoranthene	1600	J
50-32-8	Benzo(a)pyrene	1800	J
193-39-5	Indeno(1,2,3-cd)pyrene	25000	U
53-70-3	Dibenzo(a,h)anthracene	25000	U
191-24-2	Benzo(g,h,i)perylene	25000	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-018B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8605.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	99000	U
108-95-2	Phenol	99000	U
111-44-4	bis(2-Chloroethyl)ether	99000	U
95-57-8	2-Chlorophenol	99000	U
95-48-7	2-Methylphenol	99000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	99000	U
98-86-2	Acetophenone	99000	U
106-44-5	4-Methylphenol	99000	U
621-64-7	N-Nitroso-di-n-propylamine	99000	U
67-72-1	Hexachloroethane	99000	U
98-95-3	Nitrobenzene	99000	U
78-59-1	Isophorone	99000	U
88-75-5	2-Nitrophenol	99000	U
105-67-9	2,4-Dimethylphenol	99000	U
111-91-1	bis(2-Chloroethoxy)methane	99000	U
120-83-2	2,4-Dichlorophenol	99000	U
91-20-3	Naphthalene	8200	J
106-47-8	4-Chloroaniline	99000	U
87-68-3	Hexachlorobutadiene	99000	U
105-60-2	Caprolactam	99000	U
59-50-7	4-Chloro-3-methylphenol	99000	U
91-57-6	2-Methylnaphthalene	99000	U
77-47-4	Hexachlorocyclopentadiene	99000	U
88-06-2	2,4,6-Trichlorophenol	99000	U
95-95-4	2,4,5-Trichlorophenol	250000	U
92-52-4	1,1'-Biphenyl	99000	U
91-58-7	2-Chloronaphthalene	99000	U
88-74-4	2-Nitroaniline	250000	U
131-11-3	Dimethylphthalate	99000	U
606-20-2	2,6-Dinitrotoluene	99000	U
208-96-8	Acenaphthylene	99000	U
99-09-2	3-Nitroaniline	250000	U
83-32-9	Acenaphthene	99000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-018B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8605.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250000	U
100-02-7	4-Nitrophenol	250000	U
132-64-9	Dibenzofuran	99000	U
121-14-2	2,4-Dinitrotoluene	99000	U
84-66-2	Diethylphthalate	99000	U
86-73-7	Fluorene	6300	J
7005-72-3	4-Chlorophenyl-phenylether	99000	U
100-01-6	4-Nitroaniline	250000	U
534-52-1	4,6-Dinitro-2-methylphenol	250000	U
86-30-6	N-Nitrosodiphenylamine (1)	99000	U
101-55-3	4-Bromophenyl-phenylether	99000	U
118-74-1	Hexachlorobenzene	99000	U
1912-24-9	Atrazine	99000	U
87-86-5	Pentachlorophenol	12000	J
85-01-8	Phenanthrene	46000	J
120-12-7	Anthracene	8500	J
86-74-8	Carbazole	99000	U
84-74-2	Di-n-butylphthalate	99000	U
206-44-0	Fluoranthene	35000	J
129-00-0	Pyrene	31000	J
85-68-7	Butylbenzylphthalate	99000	U
91-94-1	3,3'-Dichlorobenzidine	99000	U
56-55-3	Benzo(a)anthracene	13000	J
218-01-9	Chrysene	29000	J
117-81-7	bis(2-Ethylhexyl)phthalate	99000	U
117-84-0	Di-n-octylphthalate	99000	U
205-99-2	Benzo(b)fluoranthene	7700	J
207-08-9	Benzo(k)fluoranthene	8800	J
50-32-8	Benzo(a)pyrene	7300	J
193-39-5	Indeno(1,2,3-cd)pyrene	99000	U
53-70-3	Dibenzo(a,h)anthracene	99000	U
191-24-2	Benzo(g,h,i)perylene	99000	U

(1) Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-019B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8606.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	99000	U
108-95-2	Phenol	99000	U
111-44-4	bis(2-Chloroethyl)ether	99000	U
95-57-8	2-Chlorophenol	99000	U
95-48-7	2-Methylphenol	99000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	99000	U
98-86-2	Acetophenone	99000	U
106-44-5	4-Methylphenol	99000	U
621-64-7	N-Nitroso-di-n-propylamine	99000	U
67-72-1	Hexachloroethane	99000	U
98-95-3	Nitrobenzene	99000	U
78-59-1	Isophorone	99000	U
88-75-5	2-Nitrophenol	99000	U
105-67-9	2,4-Dimethylphenol	99000	U
111-91-1	bis(2-Chloroethoxy)methane	99000	U
120-83-2	2,4-Dichlorophenol	99000	U
91-20-3	Naphthalene	99000	U
106-47-8	4-Chloroaniline	23000	J
87-68-3	Hexachlorobutadiene	99000	U
105-60-2	Caprolactam	99000	U
59-50-7	4-Chloro-3-methylphenol	99000	U
91-57-6	2-Methylnaphthalene	99000	U
77-47-4	Hexachlorocyclopentadiene	99000	U
88-06-2	2,4,6-Trichlorophenol	99000	U
95-95-4	2,4,5-Trichlorophenol	250000	U
92-52-4	1,1'-Biphenyl	99000	U
91-58-7	2-Chloronaphthalene	99000	U
88-74-4	2-Nitroaniline	250000	U
131-11-3	Dimethylphthalate	99000	U
606-20-2	2,6-Dinitrotoluene	99000	U
208-96-8	Acenaphthylene	99000	U
99-09-2	3-Nitroaniline	250000	U
83-32-9	Acenaphthene	99000	U

1G

EPA SAMPLE NO.

E21L3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-018B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8605.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 13 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (14.11)	14.11	45000	J
2.	Unknown hydrocarbon (14.6)	14.60	49000	J
3. 000000-00-0	OCTYL PHENOL ISOMER	14.65	88000	NJ
4.	Unknown hydrocarbon (14.9)	14.90	120000	J
5.	Unknown (15)	15.00	79000	J
6.	Unknown hydrocarbon (15.05)	15.05	49000	J
7.	Unknown hydrocarbon (15.19)	15.19	84000	J
8. 027854-41-7	Tridecane, 2-methyl-2-phenyl-	15.46	36000	NJ
9. 027854-40-6	Benzene, (1,1-dimethyldecyl)-	15.54	35000	NJ
10.	Unknown (16.81)	16.81	120000	J
11. 002050-77-3	Decane, 1-iodo-	17.10	58000	NJ
12.	Unknown (18.09)	18.09	140000	J
13.	Unknown (18.4)	18.40	250000	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-019B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8606.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250000	U
100-02-7	4-Nitrophenol	250000	U
132-64-9	Dibenzofuran	99000	U
121-14-2	2,4-Dinitrotoluene	99000	U
84-66-2	Diethylphthalate	99000	U
86-73-7	Fluorene	99000	U
7005-72-3	4-Chlorophenyl-phenylether	99000	U
100-01-6	4-Nitroaniline	250000	U
534-52-1	4,6-Dinitro-2-methylphenol	250000	U
86-30-6	N-Nitrosodiphenylamine (1)	99000	U
101-55-3	4-Bromophenyl-phenylether	99000	U
118-74-1	Hexachlorobenzene	99000	U
1912-24-9	Atrazine	99000	U
87-86-5	Pentachlorophenol	250000	U
85-01-8	Phenanthrene	7400	J
120-12-7	Anthracene	99000	U
86-74-8	Carbazole	99000	U
84-74-2	Di-n-butylphthalate	99000	U
206-44-0	Fluoranthene	99000	U
129-00-0	Pyrene	5300	J
85-68-7	Butylbenzylphthalate	99000	U
91-94-1	3,3'-Dichlorobenzidine	99000	U
56-55-3	Benzo(a)anthracene	99000	U
218-01-9	Chrysene	18000	J
117-81-7	bis(2-Ethylhexyl)phthalate	99000	U
117-84-0	Di-n-octylphthalate	99000	U
205-99-2	Benzo(b)fluoranthene	99000	U
207-08-9	Benzo(k)fluoranthene	99000	U
50-32-8	Benzo(a)pyrene	99000	U
193-39-5	Indeno(1,2,3-cd)pyrene	99000	U
53-70-3	Dibenzo(a,h)anthracene	99000	U
191-24-2	Benzo(g,h,i)perylene	99000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L4

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-019B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8606.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 13 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000106-48-9	Phenol, 4-chloro-	9.76	40000	NJ
2. 000000-00-0	OCTYL PHENOL ISOMER	14.65	63000	NJ
3. 004537-15-9	Benzene, (1-butylheptyl)-	14.75	120000	NJ
4. 004536-86-1	Benzene, (1-propyloctyl)-	14.85	58000	NJ
5.	Unknown hydrocarbon (15.05)	15.05	78000	J
6.	Unknown hydrocarbon (15.36)	15.36	110000	J
7. 002719-62-2	Benzene, (1-pentylheptyl)-	15.52	31000	NJ
8.	Unknown hydrocarbon (15.56)	15.56	42000	J
9. 002400-00-2	Benzene, (1-ethyldecyl)-	15.86	60000	NJ
10.	Unknown hydrocarbon (16.17)	16.17	120000	J
11.	Unknown hydrocarbon (16.27)	16.27	100000	J
12.	Unknown	17.04	66000	J
13. 002136-71-2	Ethanol, 2-(hexadecyloxy)-	17.23	100000	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8609.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	99000	U
108-95-2	Phenol	99000	U
111-44-4	bis(2-Chloroethyl)ether	99000	U
95-57-8	2-Chlorophenol	99000	U
95-48-7	2-Methylphenol	99000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	99000	U
98-86-2	Acetophenone	99000	U
106-44-5	4-Methylphenol	99000	U
621-64-7	N-Nitroso-di-n-propylamine	99000	U
67-72-1	Hexachloroethane	99000	U
98-95-3	Nitrobenzene	99000	U
78-59-1	Isophorone	99000	U
88-75-5	2-Nitrophenol	99000	U
105-67-9	2,4-Dimethylphenol	99000	U
111-91-1	bis(2-Chloroethoxy)methane	99000	U
120-83-2	2,4-Dichlorophenol	14000	J
91-20-3	Naphthalene	99000	U
106-47-8	4-Chloroaniline	99000	U
87-68-3	Hexachlorobutadiene	99000	U
105-60-2	Caprolactam	99000	U
59-50-7	4-Chloro-3-methylphenol	99000	U
91-57-6	2-Methylnaphthalene	99000	U
77-47-4	Hexachlorocyclopentadiene	99000	U
88-06-2	2,4,6-Trichlorophenol	46000	J
95-95-4	2,4,5-Trichlorophenol	29000	J
92-52-4	1,1'-Biphenyl	99000	U
91-58-7	2-Chloronaphthalene	99000	U
88-74-4	2-Nitroaniline	250000	U
131-11-3	Dimethylphthalate	99000	U
606-20-2	2,6-Dinitrotoluene	99000	U
208-96-8	Acenaphthylene	99000	U
99-09-2	3-Nitroaniline	250000	U
83-32-9	Acenaphthene	99000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8609.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250000	U
100-02-7	4-Nitrophenol	250000	U
132-64-9	Dibenzofuran	99000	U
121-14-2	2,4-Dinitrotoluene	99000	U
84-66-2	Diethylphthalate	99000	U
86-73-7	Fluorene	99000	U
7005-72-3	4-Chlorophenyl-phenylether	99000	U
100-01-6	4-Nitroaniline	250000	U
534-52-1	4,6-Dinitro-2-methylphenol	250000	U
86-30-6	N-Nitrosodiphenylamine (1)	99000	U
101-55-3	4-Bromophenyl-phenylether	99000	U
118-74-1	Hexachlorobenzene	130000	
1912-24-9	Atrazine	99000	U
87-86-5	Pentachlorophenol	210000000	E
85-01-8	Phenanthrene	99000	U
120-12-7	Anthracene	99000	U
86-74-8	Carbazole	99000	U
84-74-2	Di-n-butylphthalate	99000	U
206-44-0	Fluoranthene	99000	U
129-00-0	Pyrene	99000	U
85-68-7	Butylbenzylphthalate	99000	U
91-94-1	3,3'-Dichlorobenzidine	99000	U
56-55-3	Benzo(a)anthracene	99000	U
218-01-9	Chrysene	99000	U
117-81-7	bis(2-Ethylhexyl)phthalate	99000	U
117-84-0	Di-n-octylphthalate	99000	U
205-99-2	Benzo(b)fluoranthene	99000	U
207-08-9	Benzo(k)fluoranthene	99000	U
50-32-8	Benzo(a)pyrene	99000	U
193-39-5	Indeno(1,2,3-cd)pyrene	99000	U
53-70-3	Dibenzo(a,h)anthracene	99000	U
191-24-2	Benzo(g,h,i)perylene	99000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L5

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8609.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 20 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000608-93-5	Benzene, pentachloro-	14.15	35000	NJ
2. 004901-51-3	Phenol, 2,3,4,5-tetrachloro-	14.32	1200000	NJ
3. 000058-90-2	Phenol, 2,3,4,6-tetrachloro-	14.49	14000000	NJ
4. 000087-86-5	Phenol, pentachloro-	16.58	120000000	NJ
5.	Unknown (17.18)	17.18	400000	J
6.	Unknown (23.26)	23.26	68000	J
7.	Unknown (23.36)	23.36	140000	J
8. 058802-08-7	1,2,4,7,8-Pentachlordibenzo-p-d	23.48	62000	NJ
9. 040321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-	23.56	280000	NJ
10.	Unknown (23.92)	23.92	170000	J
11.	Unknown (25.17)	25.17	47000	J
12. 067562-39-4	1,2,3,4,6,7,8-HEPTACHLORODIBENZ	25.69	42000	NJ
13. 058200-70-7	1,2,3,4,6,7,9-Heptachlorodibenz	25.99	2500000	NJ
14. 058802-51-0	1,2,3,6,7,9- or 1,2,3,6,8,9-Hex	26.21	1700000	NJ
15. 000634-66-2	Benzene, 1,2,3,4-tetrachloro-	26.33	310000	NJ
16. 058200-70-7	1,2,3,4,6,7,9-Heptachlorodibenz	26.72	1700000	NJ
17.	Unknown (29.13)	29.13	750000	J
18. 003268-87-9	Dibenzo(b,e)(1,4)dioxin, octach	30.20	6700000	NJ
19. 039001-02-0	Dibenzofuran, octachloro-	30.28	190000	NJ
20.	Unknown (30.42)	30.42	35000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8623.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.000.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	99000000	U
108-95-2	Phenol	99000000	U
111-44-4	bis(2-Chloroethyl)ether	99000000	U
95-57-8	2-Chlorophenol	99000000	U
95-48-7	2-Methylphenol	99000000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	99000000	U
98-86-2	Acetophenone	99000000	U
106-44-5	4-Methylphenol	99000000	U
621-64-7	N-Nitroso-di-n-propylamine	99000000	U
67-72-1	Hexachloroethane	99000000	U
98-95-3	Nitrobenzene	99000000	U
78-59-1	Isophorone	99000000	U
88-75-5	2-Nitrophenol	99000000	U
105-67-9	2,4-Dimethylphenol	99000000	U
111-91-1	bis(2-Chloroethoxy)methane	99000000	U
120-83-2	2,4-Dichlorophenol	99000000	U
91-20-3	Naphthalene	99000000	U
106-47-8	4-Chloroaniline	99000000	U
87-68-3	Hexachlorobutadiene	99000000	U
105-60-2	Caprolactam	99000000	U
59-50-7	4-Chloro-3-methylphenol	99000000	U
91-57-6	2-Methylnaphthalene	99000000	U
77-47-4	Hexachlorocyclopentadiene	99000000	U
88-06-2	2,4,6-Trichlorophenol	99000000	U
95-95-4	2,4,5-Trichlorophenol	250000000	U
92-52-4	1,1'-Biphenyl	99000000	U
91-58-7	2-Chloronaphthalene	99000000	U
88-74-4	2-Nitroaniline	250000000	U
131-11-3	Dimethylphthalate	99000000	U
606-20-2	2,6-Dinitrotoluene	99000000	U
208-96-8	Acenaphthylene	99000000	U
99-09-2	3-Nitroaniline	250000000	U
83-32-9	Acenaphthene	99000000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8623.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.000.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250000000	U
100-02-7	4-Nitrophenol	250000000	U
132-64-9	Dibenzofuran	99000000	U
121-14-2	2,4-Dinitrotoluene	99000000	U
84-66-2	Diethylphthalate	99000000	U
86-73-7	Fluorene	99000000	U
7005-72-3	4-Chlorophenyl-phenylether	99000000	U
100-01-6	4-Nitroaniline	250000000	U
534-52-1	4,6-Dinitro-2-methylphenol	250000000	U
86-30-6	N-Nitrosodiphenylamine (1)	99000000	U
101-55-3	4-Bromophenyl-phenylether	99000000	U
118-74-1	Hexachlorobenzene	99000000	U
1912-24-9	Atrazine	99000000	U
87-86-5	Pentachlorophenol	720000000	D
85-01-8	Phenanthrene	99000000	U
120-12-7	Anthracene	99000000	U
86-74-8	Carbazole	99000000	U
84-74-2	Di-n-butylphthalate	99000000	U
206-44-0	Fluoranthene	99000000	U
129-00-0	Pyrene	99000000	U
85-68-7	Butylbenzylphthalate	99000000	U
91-94-1	3,3'-Dichlorobenzidine	99000000	U
56-55-3	Benzo(a)anthracene	99000000	U
218-01-9	Chrysene	99000000	U
117-81-7	bis(2-Ethylhexyl)phthalate	99000000	U
117-84-0	Di-n-octylphthalate	99000000	U
205-99-2	Benzo(b)fluoranthene	99000000	U
207-08-9	Benzo(k)fluoranthene	99000000	U
50-32-8	Benzo(a)pyrene	99000000	U
193-39-5	Indeno(1,2,3-cd)pyrene	99000000	U
53-70-3	Dibenzo(a,h)anthracene	99000000	U
191-24-2	Benzo(g,h,i)perylene	99000000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L5DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8623.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.000.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8602.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	300000	U
108-95-2	Phenol	300000	U
111-44-4	bis(2-Chloroethyl)ether	300000	U
95-57-8	2-Chlorophenol	300000	U
95-48-7	2-Methylphenol	300000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	300000	U
98-86-2	Acetophenone	300000	U
106-44-5	4-Methylphenol	300000	U
621-64-7	N-Nitroso-di-n-propylamine	300000	U
67-72-1	Hexachloroethane	300000	U
98-95-3	Nitrobenzene	300000	U
78-59-1	Isophorone	300000	U
88-75-5	2-Nitrophenol	300000	U
105-67-9	2,4-Dimethylphenol	300000	U
111-91-1	bis(2-Chloroethoxy)methane	300000	U
120-83-2	2,4-Dichlorophenol	300000	U
91-20-3	Naphthalene	300000	U
106-47-8	4-Chloroaniline	300000	U
87-68-3	Hexachlorobutadiene	300000	U
105-60-2	Caprolactam	300000	U
59-50-7	4-Chloro-3-methylphenol	300000	U
91-57-6	2-Methylnaphthalene	300000	U
77-47-4	Hexachlorocyclopentadiene	300000	U
88-06-2	2,4,6-Trichlorophenol	300000	U
95-95-4	2,4,5-Trichlorophenol	750000	U
92-52-4	1,1'-Biphenyl	360000	
91-58-7	2-Chloronaphthalene	300000	U
88-74-4	2-Nitroaniline	750000	U
131-11-3	Dimethylphthalate	300000	U
606-20-2	2,6-Dinitrotoluene	300000	U
208-96-8	Acenaphthylene	300000	U
99-09-2	3-Nitroaniline	750000	U
83-32-9	Acenaphthene	300000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8602.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750000	U
100-02-7	4-Nitrophenol	750000	U
132-64-9	Dibenzofuran	300000	U
121-14-2	2,4-Dinitrotoluene	300000	U
84-66-2	Diethylphthalate	300000	U
86-73-7	Fluorene	300000	U
7005-72-3	4-Chlorophenyl-phenylether	300000	U
100-01-6	4-Nitroaniline	750000	U
534-52-1	4,6-Dinitro-2-methylphenol	750000	U
86-30-6	N-Nitrosodiphenylamine (1)	300000	U
101-55-3	4-Bromophenyl-phenylether	300000	U
118-74-1	Hexachlorobenzene	300000	U
1912-24-9	Atrazine	300000	U
87-86-5	Pentachlorophenol	750000	U
85-01-8	Phenanthrene	15000	J
120-12-7	Anthracene	300000	U
86-74-8	Carbazole	300000	U
84-74-2	Di-n-butylphthalate	300000	U
206-44-0	Fluoranthene	300000	U
129-00-0	Pyrene	300000	U
85-68-7	Butylbenzylphthalate	300000	U
91-94-1	3,3'-Dichlorobenzidine	300000	U
56-55-3	Benzo(a)anthracene	300000	U
218-01-9	Chrysene	300000	U
117-81-7	bis(2-Ethylhexyl)phthalate	300000	U
117-84-0	Di-n-octylphthalate	300000	U
205-99-2	Benzo(b)fluoranthene	300000	U
207-08-9	Benzo(k)fluoranthene	300000	U
50-32-8	Benzo(a)pyrene	300000	U
193-39-5	Indeno(1,2,3-cd)pyrene	300000	U
53-70-3	Dibenzo(a,h)anthracene	300000	U
191-24-2	Benzo(g,h,i)perylene	300000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-021B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8602.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 1500 (µl) Date Analyzed: 07/24/02

Injection Volume: 2 (µl) Dilution Factor: 20.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000101-81-5	Benzene, 1,1'-methylenebis-	12.72	300000	NJ
2. 055702-46-0	1,1'-Biphenyl, 2,3,4-trichloro-	16.33	720000	NJ
3. 055702-45-9	1,1'-Biphenyl, 2,3,6-trichloro-	16.64	470000	NJ
4. 038444-86-9	1,1'-Biphenyl, 2',3,4-trichloro	17.01	760000	NJ
5. 038444-86-9	1,1'-Biphenyl, 2',3,4-trichloro	17.04	980000	NJ
6. 015968-05-5	1,1'-Biphenyl, 2,2',6,6'-tetrac	17.19	910000	NJ
7. 052663-58-8	1,1'-Biphenyl, 2,3,4',6-tetrach	17.28	500000	NJ
8. 062796-65-0	1,1'-Biphenyl, 2,2',4,6-Tetrach	17.50	1300000	NJ
9. 041464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrac	17.58	1900000	NJ
10. 041464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrac	17.63	1800000	NJ
11. 052663-58-8	1,1'-Biphenyl, 2,3,4',6-tetrach	17.83	530000	NJ
12. 062796-65-0	1,1'-Biphenyl, 2,2',4,6-Tetrach	17.89	500000	NJ
13. 041464-42-0	1,1'-Biphenyl, 2,3',5,5'-tetrac	17.99	710000	NJ
14. 025429-29-2	1,1'-Biphenyl, pentachloro- (18	18.31	300000	NJ
15. 041464-49-7	1,1'-Biphenyl, 2,3,3',5'-tetrac	18.36	490000	NJ
16. 032598-12-2	1,1'-Biphenyl, 2,4,4',6-tetrach	18.43	1400000	NJ
17. 025429-29-2	1,1'-Biphenyl, pentachloro- (18	18.53	600000	NJ
18. 073575-56-1	1,1'-Biphenyl, 2,2',3,5,6-Penta	18.61	430000	NJ
19. 038380-03-9	1,1'-Biphenyl, 2,3,3',4',6-pent	18.71	1100000	NJ
20. 070424-70-3	1,1'-Biphenyl, 2',3,4,5,5'-Pent	18.78	450000	NJ
21. 074472-35-8	1,1'-Biphenyl, 2,3,3',4,6-Penta	19.22	800000	NJ
22. 052663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5'-h	19.37	350000	NJ
23. 041411-62-5	1,1'-Biphenyl, 2,3,3',4,5,6-hex	19.49	410000	NJ
24. 026601-64-9	1,1'-Biphenyl, hexachloro-	19.54	760000	NJ
25. 052712-04-6	1,1'-Biphenyl, 2,2',3,4,5,5'-he	19.73	430000	NJ
26. 052663-72-6	1,1'-Biphenyl, 2,3',4,4',5,5'-h	19.81	600000	NJ
27. 032774-16-6	3,4,5,3',4',5'-Hexachlorobiphen	20.23	470000	NJ
28. 074472-49-4	1,1'-Biphenyl, 2,2',3,4,5,6,6'-	20.45	350000	NJ
29.	Unknown PCB	20.98	270000	J
30.	Unknown	23.22	240000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-022B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8607.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	5400	J
108-95-2	Phenol	34000	J
111-44-4	bis(2-Chloroethyl)ether	99000	U
95-57-8	2-Chlorophenol	99000	U
95-48-7	2-Methylphenol	80000	J
108-60-1	2,2'-oxybis(1-Chloropropane)	99000	U
98-86-2	Acetophenone	99000	U
106-44-5	4-Methylphenol	99000	U
621-64-7	N-Nitroso-di-n-propylamine	99000	U
67-72-1	Hexachloroethane	99000	U
98-95-3	Nitrobenzene	99000	U
78-59-1	Isophorone	99000	U
88-75-5	2-Nitrophenol	99000	U
105-67-9	2,4-Dimethylphenol	99000	U
111-91-1	bis(2-Chloroethoxy)methane	99000	U
120-83-2	2,4-Dichlorophenol	16000	J
91-20-3	Naphthalene	12000	J
106-47-8	4-Chloroaniline	99000	U
87-68-3	Hexachlorobutadiene	99000	U
105-60-2	Caprolactam	99000	U
59-50-7	4-Chloro-3-methylphenol	99000	U
91-57-6	2-Methylnaphthalene	99000	U
77-47-4	Hexachlorocyclopentadiene	99000	U
88-06-2	2,4,6-Trichlorophenol	99000	U
95-95-4	2,4,5-Trichlorophenol	250000	U
92-52-4	1,1'-Biphenyl	570000	
91-58-7	2-Chloronaphthalene	99000	U
88-74-4	2-Nitroaniline	250000	U
131-11-3	Dimethylphthalate	99000	U
606-20-2	2,6-Dinitrotoluene	99000	U
208-96-8	Acenaphthylene	99000	U
99-09-2	3-Nitroaniline	250000	U
83-32-9	Acenaphthene	99000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-022B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8607.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µL) Date Analyzed: 07/25/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	250000	U
100-02-7	4-Nitrophenol	250000	U
132-64-9	Dibenzofuran	99000	U
121-14-2	2,4-Dinitrotoluene	99000	U
84-66-2	Diethylphthalate	99000	U
86-73-7	Fluorene	21000	J
7005-72-3	4-Chlorophenyl-phenylether	99000	U
100-01-6	4-Nitroaniline	250000	U
534-52-1	4,6-Dinitro-2-methylphenol	250000	U
86-30-6	N-Nitrosodiphenylamine (1)	99000	U
101-55-3	4-Bromophenyl-phenylether	99000	U
118-74-1	Hexachlorobenzene	99000	U
1912-24-9	Atrazine	99000	U
87-86-5	Pentachlorophenol	250000	U
85-01-8	Phenanthrene	15000	J
120-12-7	Anthracene	99000	U
86-74-8	Carbazole	99000	U
84-74-2	Di-n-butylphthalate	7100	J
206-44-0	Fluoranthene	99000	U
129-00-0	Pyrene	5500	J
85-68-7	Butylbenzylphthalate	99000	U
91-94-1	3,3'-Dichlorobenzidine	99000	U
56-55-3	Benzo(a)anthracene	99000	U
218-01-9	Chrysene	13000	J
117-81-7	bis(2-Ethylhexyl)phthalate	99000	U
117-84-0	Di-n-octylphthalate	99000	U
205-99-2	Benzo(b)fluoranthene	99000	U
207-08-9	Benzo(k)fluoranthene	99000	U
50-32-8	Benzo(a)pyrene	99000	U
193-39-5	Indeno(1,2,3-cd)pyrene	99000	U
53-70-3	Dibenzo(a,h)anthracene	99000	U
191-24-2	Benzo(g,h,i)perylene	99000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L7

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-022B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8607.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 10000 (µl) Date Analyzed: 07/25/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 0.0 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 12 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (6.2)	6.20	47000	J
2. 000059-50-7	Phenol,4-chloro-3-methyl- (TCL)	10.90	800000	J
3. 000634-90-2	Benzene, 1,2,3,5-tetrachloro- (	12.00	86000	NJ
4. 000634-90-2	Benzene, 1,2,3,5-tetrachloro- (	12.60	81000	NJ
5. 000101-81-5	Benzene, 1,1´-methylenebis-	12.72	1000000	NJ
6. 000643-58-3	1,1´-Biphenyl, 2-methyl-	13.63	550000	NJ
7. 000120-51-4	Benzyl benzoate	16.08	720000	NJ
8.	Unknown hydrocarbon	17.16	70000	J
9.	Unknown (21.86)	21.86	220000	J
10.	Unknown (25.24)	25.24	170000	J
11.	Unknown (28.45)	28.45	110000	J
12.	Unknown (28.7)	28.70	84000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8558.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 3.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9900	U
108-95-2	Phenol	830	J
111-44-4	bis(2-Chloroethyl)ether	9900	U
95-57-8	2-Chlorophenol	940	J
95-48-7	2-Methylphenol	9900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	9900	U
98-86-2	Acetophenone	9900	U
106-44-5	4-Methylphenol	9900	U
621-64-7	N-Nitroso-di-n-propylamine	9900	U
67-72-1	Hexachloroethane	9900	U
98-95-3	Nitrobenzene	9900	U
78-59-1	Isophorone	9900	U
88-75-5	2-Nitrophenol	9900	U
105-67-9	2,4-Dimethylphenol	9900	U
111-91-1	bis(2-Chloroethoxy)methane	9900	U
120-83-2	2,4-Dichlorophenol	160000	E
91-20-3	Naphthalene	9900	U
106-47-8	4-Chloroaniline	9900	U
87-68-3	Hexachlorobutadiene	9900	U
105-60-2	Caprolactam	9900	U
59-50-7	4-Chloro-3-methylphenol	9900	U
91-57-6	2-Methylnaphthalene	9900	U
77-47-4	Hexachlorocyclopentadiene	9900	U
88-06-2	2,4,6-Trichlorophenol	18000	
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	9900	U
91-58-7	2-Chloronaphthalene	9900	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	9900	U
606-20-2	2,6-Dinitrotoluene	9900	U
208-96-8	Acenaphthylene	9900	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	9900	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8558.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 3.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	9900	U
121-14-2	2,4-Dinitrotoluene	9900	U
84-66-2	Diethylphthalate	9900	U
86-73-7	Fluorene	9900	U
7005-72-3	4-Chlorophenyl-phenylether	9900	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	9900	U
101-55-3	4-Bromophenyl-phenylether	9900	U
118-74-1	Hexachlorobenzene	9900	U
1912-24-9	Atrazine	9900	U
87-86-5	Pentachlorophenol	3700	J
85-01-8	Phenanthrene	9900	U
120-12-7	Anthracene	9900	U
86-74-8	Carbazole	9900	U
84-74-2	Di-n-butylphthalate	9900	U
206-44-0	Fluoranthene	9900	U
129-00-0	Pyrene	9900	U
85-68-7	Butylbenzylphthalate	9900	U
91-94-1	3,3'-Dichlorobenzidine	9900	U
56-55-3	Benzo(a)anthracene	9900	U
218-01-9	Chrysene	9900	U
117-81-7	bis(2-Ethylhexyl)phthalate	9900	U
117-84-0	Di-n-octylphthalate	5300	J
205-99-2	Benzo(b)fluoranthene	9900	U
207-08-9	Benzo(k)fluoranthene	9900	U
50-32-8	Benzo(a)pyrene	9900	U
193-39-5	Indeno(1,2,3-cd)pyrene	9900	U
53-70-3	Dibenzo(a,h)anthracene	9900	U
191-24-2	Benzo(g,h,i)perylene	9900	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L8

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8558.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/22/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 3.1 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 30 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown (9.73)	9.73	14000	J
2. 000087-65-0	Phenol, 2,6-dichloro-	10.20	7800	NJ
3. 000148-24-3	8-Quinolinol	12.82	3500	NJ
4.	Unknown (13.46)	13.46	4500	J
5. 000122-88-3	Acetic acid, (4-chlorophenoxy)-	14.31	290000	NJ
6. 000122-88-3	Acetic acid, (4-chlorophenoxy)-	14.46	12000	NJ
7. 001928-38-7	Acetic acid, (2,4-dichloropheno	15.01	560000	NJ
8. 000094-75-7	Acetic acid, (2,4-dichloropheno	15.93	940000	NJ
9.	Unknown (15.98)	15.98	53000	J
10. 000094-75-7	Acetic acid, (2,4-dichloropheno	16.16	280000	NJ
11.	Unknown (16.97)	16.97	2800	J
12.	Unknown (17.3)	17.30	3700	J
13.	Unknown (17.51)	17.51	3700	J
14.	Unknown (17.6)	17.60	4100	J
15. 000582-54-7	2,5-DICHLOROPHENOXYACETIC ACID	18.06	3200	NJ
16.	Unknown (18.44)	18.44	3900	J
17.	Unknown (18.6)	18.60	3800	J
18.	Unknown (19.37)	19.37	2800	J
19.	Unknown (19.66)	19.66	9600	J
20.	Unknown (19.76)	19.76	13000	J
21. 000000-00-0	1,2,4,5-TETRACHLORO-3,6-BIS-(DI	20.25	16000	NJ
22.	Unknown (20.37)	20.37	3300	J
23.	Unknown (21.15)	21.15	9200	J
24.	Unknown (23.07)	23.07	7200	J
25.	Unknown (23.22)	23.22	4800	J
26.	Unknown (23.34)	23.34	7400	J
27.	Unknown (23.51)	23.51	7700	J
28.	Unknown (23.65)	23.65	8100	J
29.	Unknown (23.81)	23.81	4900	J
30.	Unknown (23.93)	23.93	3400	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8576.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: 3.1 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	40000	U
108-95-2	Phenol	40000	U
111-44-4	bis(2-Chloroethyl)ether	40000	U
95-57-8	2-Chlorophenol	40000	U
95-48-7	2-Methylphenol	40000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	40000	U
98-86-2	Acetophenone	40000	U
106-44-5	4-Methylphenol	40000	U
621-64-7	N-Nitroso-di-n-propylamine	40000	U
67-72-1	Hexachloroethane	40000	U
98-95-3	Nitrobenzene	40000	U
78-59-1	Isophorone	40000	U
88-75-5	2-Nitrophenol	40000	U
105-67-9	2,4-Dimethylphenol	40000	U
111-91-1	bis(2-Chloroethoxy)methane	40000	U
120-83-2	2,4-Dichlorophenol	110000	D
91-20-3	Naphthalene	40000	U
106-47-8	4-Chloroaniline	40000	U
87-68-3	Hexachlorobutadiene	40000	U
105-60-2	Caprolactam	40000	U
59-50-7	4-Chloro-3-methylphenol	40000	U
91-57-6	2-Methylnaphthalene	40000	U
77-47-4	Hexachlorocyclopentadiene	40000	U
88-06-2	2,4,6-Trichlorophenol	14000	DJ
95-95-4	2,4,5-Trichlorophenol	100000	U
92-52-4	1,1'-Biphenyl	40000	U
91-58-7	2-Chloronaphthalene	40000	U
88-74-4	2-Nitroaniline	100000	U
131-11-3	Dimethylphthalate	40000	U
606-20-2	2,6-Dinitrotoluene	40000	U
208-96-8	Acenaphthylene	40000	U
99-09-2	3-Nitroaniline	100000	U
83-32-9	Acenaphthene	40000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8576.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/23/02

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: 3.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	100000	U
100-02-7	4-Nitrophenol	100000	U
132-64-9	Dibenzofuran	40000	U
121-14-2	2,4-Dinitrotoluene	40000	U
84-66-2	Diethylphthalate	40000	U
86-73-7	Fluorene	40000	U
7005-72-3	4-Chlorophenyl-phenylether	40000	U
100-01-6	4-Nitroaniline	100000	U
534-52-1	4,6-Dinitro-2-methylphenol	100000	U
86-30-6	N-Nitrosodiphenylamine (1)	40000	U
101-55-3	4-Bromophenyl-phenylether	40000	U
118-74-1	Hexachlorobenzene	40000	U
1912-24-9	Atrazine	40000	U
87-86-5	Pentachlorophenol	21000	DJ
85-01-8	Phenanthrene	40000	U
120-12-7	Anthracene	40000	U
86-74-8	Carbazole	40000	U
84-74-2	Di-n-butylphthalate	40000	U
206-44-0	Fluoranthene	40000	U
129-00-0	Pyrene	40000	U
85-68-7	Butylbenzylphthalate	40000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)anthracene	40000	U
218-01-9	Chrysene	40000	U
117-81-7	bis(2-Ethylhexyl)phthalate	40000	U
117-84-0	Di-n-octylphthalate	3200	DJ
205-99-2	Benzo(b)fluoranthene	40000	U
207-08-9	Benzo(k)fluoranthene	40000	U
50-32-8	Benzo(a)pyrene	40000	U
193-39-5	Indeno(1,2,3-cd)pyrene	40000	U
53-70-3	Dibenzo(a,h)anthracene	40000	U
191-24-2	Benzo(g,h,i)perylene	40000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L8DL

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-023B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8576.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/23/02

Injection Volume: 2 (µl) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: 3.1 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 12 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1 . 000122-88-3	Acetic acid, (4-chlorophenoxy)-	14.24	160000	NJ
2 . 001928-38-7	Acetic acid, (2,4-dichloropheno	14.98	880000	NJ
3 .	Unknown (15.51)	15.51	20000	J
4 . 000094-75-7	Acetic acid, (2,4-dichloropheno	15.95	4400000	NJ
5 .	Unknown (19.64)	19.64	12000	J
6 .	Unknown (19.75)	19.75	17000	J
7 .	Unknown (20.22)	20.22	13000	J
8 .	Unknown (21.13)	21.13	11000	J
9 .	Unknown (23.06)	23.06	11000	J
10 .	Unknown (23.34)	23.34	11000	J
11 .	Unknown (23.48)	23.48	12000	J
12 .	Unknown (23.65)	23.65	14000	J

1794

7/31/02

.1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-024B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8596.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: ~~0.0~~ 7.3 KL 7/31/02 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	40000	U
108-95-2	Phenol	20000	J
111-44-4	bis(2-Chloroethyl)ether	40000	U
95-57-8	2-Chlorophenol	40000	U
95-48-7	2-Methylphenol	40000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	40000	U
98-86-2	Acetophenone	40000	U
106-44-5	4-Methylphenol	40000	U
621-64-7	N-Nitroso-di-n-propylamine	40000	U
67-72-1	Hexachloroethane	40000	U
98-95-3	Nitrobenzene	40000	U
78-59-1	Isophorone	40000	U
88-75-5	2-Nitrophenol	40000	U
105-67-9	2,4-Dimethylphenol	40000	U
111-91-1	bis(2-Chloroethoxy)methane	40000	U
120-83-2	2,4-Dichlorophenol	11000	J
91-20-3	Naphthalene	200000	
106-47-8	4-Chloroaniline	16000	J
87-68-3	Hexachlorobutadiene	40000	U
105-60-2	Caprolactam	40000	U
59-50-7	4-Chloro-3-methylphenol	40000	U
91-57-6	2-Methylnaphthalene	15000	J
77-47-4	Hexachlorocyclopentadiene	40000	U
88-06-2	2,4,6-Trichlorophenol	19000	J
95-95-4	2,4,5-Trichlorophenol	100000	U
92-52-4	1,1'-Biphenyl	120000	
91-58-7	2-Chloronaphthalene	40000	U
88-74-4	2-Nitroaniline	100000	U
131-11-3	Dimethylphthalate	40000	U
606-20-2	2,6-Dinitrotoluene	40000	U
208-96-8	Acenaphthylene	40000	U
99-09-2	3-Nitroaniline	100000	U
83-32-9	Acenaphthene	18000	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-024B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8596.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: ~~0.0~~ 7.3 KC 7/31/02 Extraction: (Type) SONC

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	100000	U
100-02-7	4-Nitrophenol	100000	U
132-64-9	Dibenzofuran	32000	J
121-14-2	2,4-Dinitrotoluene	40000	U
84-66-2	Diethylphthalate	40000	U
86-73-7	Fluorene	25000	J
7005-72-3	4-Chlorophenyl-phenylether	40000	U
100-01-6	4-Nitroaniline	100000	U
534-52-1	4,6-Dinitro-2-methylphenol	100000	U
86-30-6	N-Nitrosodiphenylamine (1)	4900	J
101-55-3	4-Bromophenyl-phenylether	40000	U
118-74-1	Hexachlorobenzene	40000	U
1912-24-9	Atrazine	40000	U
87-86-5	Pentachlorophenol	52000	J
85-01-8	Phenanthrene	88000	
120-12-7	Anthracene	24000	J
86-74-8	Carbazole	24000	J
84-74-2	Di-n-butylphthalate	9600	J
206-44-0	Fluoranthene	26000	J
129-00-0	Pyrene	19000	J
85-68-7	Butylbenzylphthalate	40000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)anthracene	6000	J
218-01-9	Chrysene	8500	J
117-81-7	bis(2-Ethylhexyl)phthalate	40000	U
117-84-0	Di-n-octylphthalate	40000	U
205-99-2	Benzo(b)fluoranthene	4200	J
207-08-9	Benzo(k)fluoranthene	4400	J
50-32-8	Benzo(a)pyrene	5000	J
193-39-5	Indeno(1,2,3-cd)pyrene	2800	J
53-70-3	Dibenzo(a,h)anthracene	40000	U
191-24-2	Benzo(g,h,i)perylene	3600	J

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E21L9

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-024B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8596.D

Level: (low/med) MED Date Received: 07/17/02

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 1000 (µl) Date Analyzed: 07/24/02

Injection Volume: 2 (µl) Dilution Factor: 4.00

GPC Cleanup: (Y/N) N pH: ~~0.0~~ 7.3 KC 7/31/02 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 29 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000079-92-5	Camphene	6.45	99000	NJ
2. 000527-84-4	Benzene, 1-methyl-2-(1-methylet	7.31	65000	NJ
3. 000087-61-6	Benzene, 1,2,3-trichloro-	10.44	80000	NJ
4. 000634-66-2	Benzene, 1,2,3,4-tetrachloro- (	12.01	510000	NJ
5. 000634-66-2	Benzene, 1,2,3,4-tetrachloro- (	12.63	940000	NJ
6. 000101-81-5	Benzene, 1,1'-methylenebis-	12.72	270000	NJ
7. 000000-00-0	M-CHLORO-N,N-DIETHYLANILINE	13.09	63000	NJ
8.	Unknown (13.23)	13.23	520000	J
9.	Unknown (13.38)	13.38	34000	J
10. 000644-08-6	1,1'-Biphenyl, 4-methyl-	13.63	190000	NJ
11.	Unknown (14.41)	14.41	250000	J
12.	Unknown (14.85)	14.85	270000	J
13.	Unknown (15.05)	15.05	29000	J
14.	Unknown (15.12)	15.12	34000	J
15.	Unknown (15.2)	15.20	460000	J
16. 000120-51-4	Benzyl benzoate	16.10	530000	NJ
17.	Unknown (16.32)	16.32	32000	J
18. 000120-32-1	Phenol, 4-chloro-2-(phenylmethy	17.11	87000	NJ
19.	Unknown (17.43)	17.43	370000	J
20. 000090-47-1	9H-Xanthen-9-one	17.77	31000	NJ
21.	Unknown (19.51)	19.51	46000	J
22. 000072-54-8	p,p'-DDD	19.61	30000	NJ
23. 000115-86-6	Phosphoric acid, triphenyl este	20.30	260000	NJ
24.	Unknown (21.77)	21.77	260000	J
25.	Unknown (21.84)	21.84	47000	J
26.	Unknown hydrocarbon	22.06	85000	J
27.	Unknown (22.28)	22.28	27000	J
28.	Unknown (22.77)	22.77	43000	J
29.	Unknown (23.21)	23.21	89000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-014A

Sample wt/vol: 1 (g/mL) G Lab File ID: G8555.D

Level: (low/med) MED Date Received:

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	5000	U
108-95-2	Phenol	5000	U
111-44-4	bis(2-Chloroethyl)ether	5000	U
95-57-8	2-Chlorophenol	5000	U
95-48-7	2-Methylphenol	5000	U
108-60-1	2,2´-oxybis(1-Chloropropane)	5000	U
98-86-2	Acetophenone	5000	U
106-44-5	4-Methylphenol	5000	U
621-64-7	N-Nitroso-di-n-propylamine	5000	U
67-72-1	Hexachloroethane	5000	U
98-95-3	Nitrobenzene	5000	U
78-59-1	Isophorone	5000	U
88-75-5	2-Nitrophenol	5000	U
105-67-9	2,4-Dimethylphenol	5000	U
111-91-1	bis(2-Chloroethoxy)methane	5000	U
120-83-2	2,4-Dichlorophenol	5000	U
91-20-3	Naphthalene	5000	U
106-47-8	4-Chloroaniline	5000	U
87-68-3	Hexachlorobutadiene	5000	U
105-60-2	Caprolactam	5000	U
59-50-7	4-Chloro-3-methylphenol	5000	U
91-57-6	2-Methylnaphthalene	5000	U
77-47-4	Hexachlorocyclopentadiene	5000	U
88-06-2	2,4,6-Trichlorophenol	5000	U
95-95-4	2,4,5-Trichlorophenol	12000	U
92-52-4	1,1´-Biphenyl	5000	U
91-58-7	2-Chloronaphthalene	5000	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	5000	U
606-20-2	2,6-Dinitrotoluene	5000	U
208-96-8	Acenaphthylene	5000	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	5000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-014A

Sample wt/vol: 1 (g/mL) G Lab File ID: G8555.D

Level: (low/med) MED Date Received:

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/22/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	5000	U
121-14-2	2,4-Dinitrotoluene	5000	U
84-66-2	Diethylphthalate	5000	U
86-73-7	Fluorene	5000	U
7005-72-3	4-Chlorophenyl-phenylether	5000	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	5000	U
101-55-3	4-Bromophenyl-phenylether	5000	U
118-74-1	Hexachlorobenzene	5000	U
1912-24-9	Atrazine	5000	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	5000	U
120-12-7	Anthracene	5000	U
86-74-8	Carbazole	5000	U
84-74-2	Di-n-butylphthalate	5000	U
206-44-0	Fluoranthene	5000	U
129-00-0	Pyrene	5000	U
85-68-7	Butylbenzylphthalate	5000	U
91-94-1	3,3'-Dichlorobenzidine	5000	U
56-55-3	Benzo(a)anthracene	5000	U
218-01-9	Chrysene	5000	U
117-81-7	bis(2-Ethylhexyl)phthalate	5000	U
117-84-0	Di-n-octylphthalate	5000	U
205-99-2	Benzo(b)fluoranthene	5000	U
207-08-9	Benzo(k)fluoranthene	5000	U
50-32-8	Benzo(a)pyrene	5000	U
193-39-5	Indeno(1,2,3-cd)pyrene	5000	U
53-70-3	Dibenzo(a,h)anthracene	5000	U
191-24-2	Benzo(g,h,i)perylene	5000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SBLKS1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-014A

Sample wt/vol: 1 (g/mL) G Lab File ID: G8555.D

Level: (low/med) MED Date Received:

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/22/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/22/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-014B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8601.D

Level: (low/med) MED Date Received:

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
100-52-7	Benzaldehyde	5000	U
108-95-2	Phenol	5000	U
111-44-4	bis(2-Chloroethyl)ether	5000	U
95-57-8	2-Chlorophenol	5000	U
95-48-7	2-Methylphenol	5000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5000	U
98-86-2	Acetophenone	5000	U
106-44-5	4-Methylphenol	5000	U
621-64-7	N-Nitroso-di-n-propylamine	5000	U
67-72-1	Hexachloroethane	5000	U
98-95-3	Nitrobenzene	5000	U
78-59-1	Isophorone	5000	U
88-75-5	2-Nitrophenol	5000	U
105-67-9	2,4-Dimethylphenol	5000	U
111-91-1	bis(2-Chloroethoxy)methane	5000	U
120-83-2	2,4-Dichlorophenol	5000	U
91-20-3	Naphthalene	5000	U
106-47-8	4-Chloroaniline	5000	U
87-68-3	Hexachlorobutadiene	5000	U
105-60-2	Caprolactam	5000	U
59-50-7	4-Chloro-3-methylphenol	5000	U
91-57-6	2-Methylnaphthalene	5000	U
77-47-4	Hexachlorocyclopentadiene	5000	U
88-06-2	2,4,6-Trichlorophenol	5000	U
95-95-4	2,4,5-Trichlorophenol	12000	U
92-52-4	1,1'-Biphenyl	5000	U
91-58-7	2-Chloronaphthalene	5000	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	5000	U
606-20-2	2,6-Dinitrotoluene	5000	U
208-96-8	Acenaphthylene	5000	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	5000	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-014B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8601.D

Level: (low/med) MED Date Received:

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 500 (µL) Date Analyzed: 07/24/02

Injection Volume: 2 (µL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	5000	U
121-14-2	2,4-Dinitrotoluene	5000	U
84-66-2	Diethylphthalate	5000	U
86-73-7	Fluorene	5000	U
7005-72-3	4-Chlorophenyl-phenylether	5000	U
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	5000	U
101-55-3	4-Bromophenyl-phenylether	5000	U
118-74-1	Hexachlorobenzene	5000	U
1912-24-9	Atrazine	5000	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	5000	U
120-12-7	Anthracene	5000	U
86-74-8	Carbazole	5000	U
84-74-2	Di-n-butylphthalate	5000	U
206-44-0	Fluoranthene	5000	U
129-00-0	Pyrene	5000	U
85-68-7	Butylbenzylphthalate	5000	U
91-94-1	3,3'-Dichlorobenzidine	5000	U
56-55-3	Benzo(a)anthracene	5000	U
218-01-9	Chrysene	5000	U
117-81-7	bis(2-Ethylhexyl)phthalate	5000	U
117-84-0	Di-n-octylphthalate	5000	U
205-99-2	Benzo(b)fluoranthene	5000	U
207-08-9	Benzo(k)fluoranthene	5000	U
50-32-8	Benzo(a)pyrene	5000	U
193-39-5	Indeno(1,2,3-cd)pyrene	5000	U
53-70-3	Dibenzo(a,h)anthracene	5000	U
191-24-2	Benzo(g,h,i)perylene	5000	U

(1) Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SBLKS2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water) SOIL Lab Sample ID: 02070399-014B

Sample wt/vol: 1 (g/mL) G Lab File ID: G8601.D

Level: (low/med) MED Date Received:

% Moisture: 0 Decanted: (Y/N) N Date Extracted: 07/24/02

Concentrated Extract Volume: 500 (µl) Date Analyzed: 07/24/02

Injection Volume: 2 (µl) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Extraction: (Type) SONC

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

2E

WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

GC Column(1): DB5-MS ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	PIBLK01	95	95	100	100			0
02	PIBLK04	115	100	110	105			0
03	PIBLK05	95	100	80	85			0
04	PIBLK06	95	115	95	100			0
05	PIBLK07	90	100	65	105			0
06	PIBLK08	100	100	90	90			0
07	PIBLK09	100	100	90	95			0
08	PIBLK10	110	110	105	105			0
09	PIBLK11	105	100	100	95			0

		QC Limit
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

GC Column(1): DB5-MS ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
01	PBLK1S	88	83	88	83			0
02	E21K0	0 *	0 *	375 *	93			3
03	E21K1	68	245 *	88	1875 *			2
04	E21K2	14 *	15 *	58	83			2
05	E21K3	53	48	108	48			0
06	E21K4	58	63	53	60			0
07	E21K5	73	38	35	40			0
08	E21K6	43	43	218 *	228 *			2
09	E21K7	0 *	0 *	40	115			2
10	E21K9	60	60	63	63			0
11	E21L1	205 D	68	105	450 D			0
12	E21L3	45	45	275 *	300 *			2
13	E21L4	35	50	50	220 *			1
14	E21L5	0 D	0 D	0 D	0 D			0
15	E21L6	0 D	0 D	675 D	2500 D			0
16	E21L8	33	48	63	53			0
17	E21L6DL	0 D	0 D	0 D	0 D			0
18	E21L5DL	0 D	0 D	0 D	0 D			0
19	E21K8	100	48	248 D	78			0
20	E21K7DL	0 D	0 D	38	275 D			0
21	E21L1DL	0 D	0 D	725 D	675 D			0
22	E21L2	70	63	7000 D	7250 D			0
23	E21L4DL	43	48	24 D	58			0
24	E21K8DL	75	45	0 D	0 D			0
25	E21L7	140	65	183 D	128			0
26	E21L9	113	133	2175 D	1825 D			0
27	E21L2DL	0 D	0 D	8250 D	9250 D			0
28	E21L2MS	75	55	8500 D	17500 D			0
29	E21L2MSD	65	45	7250 D	10000 D			0

		QC Limit
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

GC Column(1): DB5-MS ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	Other (1)	Other (2)	TOT OUT
30	E21L7DL	0 D	0 D	0 D	0 D			0
31	E21L9DL	128	80	2450 D	2175 D			0

		QC Limit
TCX	= Tetrachloro-m-xylene	(30-150)
DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix Spike - EPA Sample No.: E21L2

COMPOUND	SPIKE ADDED (µg/Kg)	SAMPLE CONCENTRATION (µg/Kg)	MS CONCENTRATION (µg/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	500	0	0	0D	46-127
Heptachlor	500	620	640	4D	35-130
Aldrin	500	0	0	0D	34-132
Dieldrin	1000	0	0	0D	31-134
Endrin	1000	0	0	0D	42-139
4,4'-DDT	1000	86000	0	-8600D	23-134

COMPOUND	SPIKE ADDED (µg/Kg)	MSD CONCENTRATION (µg/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	500	0	0D	0	50	46-127
Heptachlor	500	590	-6D	-1000	31	35-130
Aldrin	500	0	0D	0	43	34-132
Dieldrin	1000	0	0D	0	38	31-134
Endrin	1000	0	0D	0	45	42-139
4,4'-DDT	1000	120000	3400D	-462	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

EPA SAMPLE NO.

PBLK1S

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.:_____ SDG No.: E21K0

Lab Sample ID: 02070399-015A Lab File ID: pes069.rst

Matrix: (soil/water) S Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 07/22/02

Date Analyzed (1): 07/23/02 Date Analyzed (2): 07/23/02

Time Analyzed (1): 14:53 Time Analyzed (2): 14:53

Instrument ID (1): PP_HP4D Instrument ID (2): PP_HP4D

GC Column (1): DB5-MS ID: 0.5 (mm) GC Column (2): DB-608 ID: 0.5 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	E21K0	02070399-001B	07/23/02	07/23/02
2	E21K1	02070399-002B	07/23/02	07/23/02
3	E21K2	02070399-003B	07/23/02	07/23/02
4	E21K3	02070399-004B	07/23/02	07/23/02
5	E21K4	02070399-005B	07/23/02	07/23/02
6	E21K5	02070399-006B	07/23/02	07/23/02
7	E21K6	02070399-007B	07/23/02	07/23/02
8	E21K7	02070399-008B	07/24/02	07/24/02
9	E21K9	02070399-010B	07/24/02	07/24/02
10	E21L1	02070399-016B	07/24/02	07/24/02
11	E21L3	02070399-018B	07/24/02	07/24/02
12	E21L4	02070399-019B	07/24/02	07/24/02
13	E21L5	02070399-020B	07/24/02	07/24/02
14	E21L6	02070399-021B	07/24/02	07/24/02
15	E21L8	02070399-023C	07/24/02	07/24/02
16	E21L6DL	02070399-021B	07/24/02	07/24/02
17	E21L5DL	02070399-020B	07/24/02	07/24/02
18	E21K8	02070399-009B	07/24/02	07/24/02
19	E21K7DL	02070399-008B	07/24/02	07/24/02
20	E21L1DL	02070399-016B	07/24/02	07/24/02
21	E21L2	02070399-017B	07/24/02	07/24/02
22	E21L4DL	02070399-019B	07/24/02	07/24/02
23	E21K8DL	02070399-009B	07/25/02	07/25/02
24	E21L7	02070399-022C	07/25/02	07/25/02
25	E21L9	02070399-024C	07/25/02	07/25/02
26	E21L2DL	02070399-017B	07/25/02	07/25/02
27	E21L2MS	02070399-017E	07/25/02	07/25/02
28	E21L2MSD	02070399-017F	07/25/02	07/25/02
29	E21L7DL	02070399-022C	07/25/02	07/25/02
30	E21L9DL	02070399-024C	07/25/02	07/25/02

COMMENTS:

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K0

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-001B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes070.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	110	PJ
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	2400	PJ
53494-70-5	Endrin ketone	340	PJ
7421-93-4	Endrin aldehyde	310	PJ
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	11000	PJ
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	29000	
11096-82-5	Aroclor 1260	34000	PJ

* 8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-002B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes071.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	26	PJ
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	110	PJ
72-54-8	4,4`-DDD	240	PJ
1031-07-8	Endosulfan sulfate	43	PJ
50-29-3	4,4`-DDT	700	PJ
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	280	PJ
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	2600	PJ
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	9500	
11096-82-5	Aroclor 1260	3300	PJ

JT 8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-003B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes072.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	97	PJ
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	74	PJ
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	170	PJ
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	13000	PJ
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	40000	C
11096-82-5	Aroclor 1260	17000	PJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-004B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes073.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	160	PJ
319-85-7	beta-BHC	42	PJ
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	35	PJ
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	50	PJ
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	300	
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	6400	PJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-005B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes074.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	990	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-006B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes081.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	52	PJ
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	990	U

ST 8/6/02

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-007B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes082.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	190	PJ
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	360	PJ
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	420	PJ
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	990	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes083.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	39	PJ
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	410	PJ
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	730	PEJ RH7-30-02
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	320	PJ
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	7900	E
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	1200	PJ
7421-93-4	Endrin aldehyde	1900	E
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	71000	PCJ
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	200000	C
11096-82-5	Aroclor 1260	67000	C

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K7DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-008B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes111.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	510	U
319-86-8	delta-BHC	250	DPJ
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	630	DPJ
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	290	DPJ
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	990	U
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	990	U
72-54-8	4,4`-DDD	990	U
1031-07-8	Endosulfan sulfate	990	U
50-29-3	4,4`-DDT	990	U
72-43-5	Methoxychlor	3300	DPJ
53494-70-5	Endrin ketone	990	U
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	89000	DPJ
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	220000	DPJ
11096-82-5	Aroclor 1260	22000	DPJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-009B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes110.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 5.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	260	U
319-85-7	beta-BHC	260	U
319-86-8	delta-BHC	260	U
58-89-9	gamma-BHC (Lindane)	260	U
76-44-8	Heptachlor	150	PJ ✓
309-00-2	Aldrin	260	U
1024-57-3	Heptachlor epoxide	260	U
959-98-8	Endosulfan I	260	U
60-57-1	Dieldrin	500	U
72-55-9	4,4`-DDE	~~10~~ 500	~~PJ~~ U
72-20-8	Endrin	500	U
33213-65-9	Endosulfan II	500	U
72-54-8	4,4`-DDD	500	U
1031-07-8	Endosulfan sulfate	500	U
50-29-3	4,4`-DDT	500	U
72-43-5	Methoxychlor	1100	PJ ✓
53494-70-5	Endrin ketone	500	U
7421-93-4	Endrin aldehyde	500	U
5103-71-9	alpha-Chlordane	83	PJ ✓
5103-74-2	gamma-Chlordane	260	U
8001-35-2	Toxaphene	26000	U
12674-11-2	Aroclor 1016	5000	U
11104-28-2	Aroclor 1221	10000	U
11141-16-5	Aroclor 1232	5000	U
53469-21-9	Aroclor 1242	26000	P J
12672-29-6	Aroclor 1248	5000	U
11097-69-1	Aroclor 1254	60000	P J
11096-82-5	Aroclor 1260	5000	U

ST 8/16/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K8DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-009B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes115.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 50.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	2600	U
319-85-7	beta-BHC	2600	U
319-86-8	delta-BHC	2600	U
58-89-9	gamma-BHC (Lindane)	2600	U
76-44-8	Heptachlor	~~150~~ 2600	DPJ U
309-00-2	Aldrin	2600	U
1024-57-3	Heptachlor epoxide	2600	U
959-98-8	Endosulfan I	2600	U
60-57-1	Dieldrin	5000	U
72-55-9	4,4`-DDE	5000	U
72-20-8	Endrin	5000	U
33213-65-9	Endosulfan II	5000	U
72-54-8	4,4`-DDD	5000	U
1031-07-8	Endosulfan sulfate	5000	U
50-29-3	4,4`-DDT	5000	U
72-43-5	Methoxychlor	26000	U
53494-70-5	Endrin ketone	5000	U
7421-93-4	Endrin aldehyde	5000	U
5103-71-9	alpha-Chlordane	~~58~~ 2600	DPJ U
5103-74-2	gamma-Chlordane	2600	U
8001-35-2	Toxaphene	260000	U
12674-11-2	Aroclor 1016	50000	U
11104-28-2	Aroclor 1221	100000	U
11141-16-5	Aroclor 1232	50000	U
53469-21-9	Aroclor 1242	29000	DJ
12672-29-6	Aroclor 1248	50000	U
11097-69-1	Aroclor 1254	89000	D
11096-82-5	Aroclor 1260	50000	U

ST 8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21K9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-010B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes085.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	990	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L1

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-016B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes086.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: 2.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	510	U
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	510	U
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	510	U
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	990	U
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	840	PJ ✓
72-54-8	4,4`-DDD	3200	PJ
1031-07-8	Endosulfan sulfate	660	PJ
50-29-3	4,4`-DDT	35000	EPJ
72-43-5	Methoxychlor	2600	PJ
53494-70-5	Endrin ketone	1200	PJ
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	9900	U
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	9900	U
11096-82-5	Aroclor 1260	110000	PJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L1DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-016B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes112.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 100.00

GPC Cleanup: (Y/N) N pH: 2.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	5100	U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	5100	U
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	5100	U
60-57-1	Dieldrin	9900	U
72-55-9	4,4`-DDE	9900	U
72-20-8	Endrin	9900	U
33213-65-9	Endosulfan II	9900	U
72-54-8	4,4`-DDD	4000	DPJ ✓
1031-07-8	Endosulfan sulfate	9900	U
50-29-3	4,4`-DDT	38000	DPJ
72-43-5	Methoxychlor	51000	U
53494-70-5	Endrin ketone	9900	U
7421-93-4	Endrin aldehyde	9900	U
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor 1016	99000	U
11104-28-2	Aroclor 1221	200000	U
11141-16-5	Aroclor 1232	99000	U
53469-21-9	Aroclor 1242	99000	U
12672-29-6	Aroclor 1248	99000	U
11097-69-1	Aroclor 1254	99000	U
11096-82-5	Aroclor 1260	61000	DPJ ✓

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-017B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes113.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: 7.9 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	130	J
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	620	PJ
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	640	PJ
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	1700	PJ
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	3500	PJ
72-54-8	4,4`-DDD	12000	PCJ
1031-07-8	Endosulfan sulfate	2800	PJ
50-29-3	4,4`-DDT	86000	EPJ
72-43-5	Methoxychlor	8000	PJ
53494-70-5	Endrin ketone	3500	PJ
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	46000	
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	130000	C
11096-82-5	Aroclor 1260	330000	PCJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-017B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes139.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 100.00

GPC Cleanup: (Y/N) N pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	5100	U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	~~410~~ 5100	~~DPJ~~ U
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	~~750~~ 5100	~~DPJ~~ U
60-57-1	Dieldrin	9900	U
72-55-9	4,4`-DDE	9900	U
72-20-8	Endrin	9900	U
33213-65-9	Endosulfan II	3700	DPJ
72-54-8	4,4`-DDD	11000	DPJ
1031-07-8	Endosulfan sulfate	2700	DPJ
50-29-3	4,4`-DDT	120000	D
72-43-5	Methoxychlor	~~9200~~ 51000	~~DPJ~~ U
53494-70-5	Endrin ketone	9900	U
7421-93-4	Endrin aldehyde	10000	DPJ
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor 1016	99000	U
11104-28-2	Aroclor 1221	200000	U
11141-16-5	Aroclor 1232	99000	U
53469-21-9	Aroclor 1242	65000	DJ
12672-29-6	Aroclor 1248	99000	U
11097-69-1	Aroclor 1254	160000	D
11096-82-5	Aroclor 1260	590000	DPJ

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1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MS

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-017E

Sample wt/vol: 1 (g/mL) G Lab File ID: pes140.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	~~54~~ 510	~~PJ~~ U
319-85-7	beta-BHC	510	U
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	640	PJ
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	510	PJ
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	11000	
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	22000	EPJ
72-54-8	4,4`-DDD	63000	EPJ
1031-07-8	Endosulfan sulfate	18000	EPJ
50-29-3	4,4`-DDT	990	U
72-43-5	Methoxychlor	47000	PJ
53494-70-5	Endrin ketone	20000	EPJ
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	57000	
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	190000	PJ
11096-82-5	Aroclor 1260	2500000	PJ

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1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L2MSD

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-017F

Sample wt/vol: 1 (g/mL) G Lab File ID: pes141.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: 7.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	~~44~~ 510	~~PJ~~ U
319-85-7	beta-BHC	510	U
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	590	PJ
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	660	PJ
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	4400	
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	6700	PJ
72-54-8	4,4`-DDD	26000	EPJ
1031-07-8	Endosulfan sulfate	5500	PJ
50-29-3	4,4`-DDT	120000	EPJ
72-43-5	Methoxychlor	17000	PJ
53494-70-5	Endrin ketone	990	U
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	49000	
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	130000	PJ
11096-82-5	Aroclor 1260	910000	PJ

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L3

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-018B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes088.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	220	PJ
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	130	PJ
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	980	
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	990	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L4

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-019B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes089.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	28	PJ ✓
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	93	PJ
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	1300	PJ
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	980	PJ
7421-93-4	Endrin aldehyde	750	PJ
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	110000	E C
11096-82-5	Aroclor 1260	95000	P E J

ST 8/6/02

RH 7-30-02

FORM I PEST OLM04.2

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L4DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-019B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes114.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	510	U
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	~~46~~ 510	~~DPJ~~ U
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	~~69~~ ~~990~~ 510	~~DPJ~~ U
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	990	U
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	990	U
72-54-8	4,4`-DDD	990	U
1031-07-8	Endosulfan sulfate	990	U
50-29-3	4,4`-DDT	990	U
72-43-5	Methoxychlor	3200	DPJ
53494-70-5	Endrin ketone	770	DPJ
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	9900	U
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	150000	D
11096-82-5	Aroclor 1260	87000	DPJ

ST 8161C

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes090.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 100.00

GPC Cleanup: (Y/N) N pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	5100	U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	5100	U
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	5100	U
60-57-1	Dieldrin	9900	U
72-55-9	4,4`-DDE	9900	U
72-20-8	Endrin	9900	U
33213-65-9	Endosulfan II	9900	U
72-54-8	4,4`-DDD	9900	U
1031-07-8	Endosulfan sulfate	9900	U
50-29-3	4,4`-DDT	9900	U
72-43-5	Methoxychlor	51000	U
53494-70-5	Endrin ketone	9900	U
7421-93-4	Endrin aldehyde	9900	U
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor 1016	99000	U
11104-28-2	Aroclor 1221	200000	U
11141-16-5	Aroclor 1232	99000	U
53469-21-9	Aroclor 1242	99000	U
12672-29-6	Aroclor 1248	99000	U
11097-69-1	Aroclor 1254	99000	U
11096-82-5	Aroclor 1260	99000	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L5DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-020B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes109.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1,000.00

GPC Cleanup: (Y/N) N pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	51000	U
319-85-7	beta-BHC	51000	U
319-86-8	delta-BHC	51000	U
58-89-9	gamma-BHC (Lindane)	51000	U
76-44-8	Heptachlor	51000	U
309-00-2	Aldrin	51000	U
1024-57-3	Heptachlor epoxide	51000	U
959-98-8	Endosulfan I	51000	U
60-57-1	Dieldrin	99000	U
72-55-9	4,4`-DDE	99000	U
72-20-8	Endrin	99000	U
33213-65-9	Endosulfan II	99000	U
72-54-8	4,4`-DDD	99000	U
1031-07-8	Endosulfan sulfate	99000	U
50-29-3	4,4`-DDT	99000	U
72-43-5	Methoxychlor	510000	U
53494-70-5	Endrin ketone	99000	U
7421-93-4	Endrin aldehyde	99000	U
5103-71-9	alpha-Chlordane	51000	U
5103-74-2	gamma-Chlordane	51000	U
8001-35-2	Toxaphene	5100000	U
12674-11-2	Aroclor 1016	990000	U
11104-28-2	Aroclor 1221	2000000	U
11141-16-5	Aroclor 1232	990000	U
53469-21-9	Aroclor 1242	990000	U
12672-29-6	Aroclor 1248	990000	U
11097-69-1	Aroclor 1254	990000	U
11096-82-5	Aroclor 1260	990000	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-021B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes095.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 100.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	~~350~~ 5100	~~PJ~~ U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	42000	PJ
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	50000	PJ
60-57-1	Dieldrin	9900	U
72-55-9	4,4`-DDE	9900	U
72-20-8	Endrin	9900	U
33213-65-9	Endosulfan II	16000	PJ
72-54-8	4,4`-DDD	9900	U
1031-07-8	Endosulfan sulfate	12000	PJ
50-29-3	4,4`-DDT	81000	PJ
72-43-5	Methoxychlor	38000	PJ
53494-70-5	Endrin ketone	9900	U
7421-93-4	Endrin aldehyde	9900	U
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor 1016	99000	U
11104-28-2	Aroclor 1221	200000	U
11141-16-5	Aroclor 1232	99000	U
53469-21-9	Aroclor 1242	4000000	PCJ
12672-29-6	Aroclor 1248	99000	U
11097-69-1	Aroclor 1254	99000	U
11096-82-5	Aroclor 1260	1000000	PCJ

ST 8/6/02

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L6DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-021B

Sample wt/vol: 1 (g/mL) G Lab File ID: pes101.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1.000.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51000	U
319-85-7	beta-BHC	51000	U
319-86-8	delta-BHC	51000	U
58-89-9	gamma-BHC (Lindane)	51000	U
76-44-8	Heptachlor	45000	DPJ ✓
309-00-2	Aldrin	51000	U
1024-57-3	Heptachlor epoxide	51000	U
959-98-8	Endosulfan I	51000	DPJ
60-57-1	Dieldrin	99000	U
72-55-9	4,4`-DDE	99000	U
72-20-8	Endrin	99000	U
33213-65-9	Endosulfan II	~~13000~~ 99000U	~~DPJ~~ U
72-54-8	4,4`-DDD	99000	U
1031-07-8	Endosulfan sulfate	99000	U
50-29-3	4,4`-DDT	82000	DPJ ✓
72-43-5	Methoxychlor	510000	U
53494-70-5	Endrin ketone	99000	U
7421-93-4	Endrin aldehyde	99000	U
5103-71-9	alpha-Chlordane	51000	U
5103-74-2	gamma-Chlordane	51000	U
8001-35-2	Toxaphene	5100000	U
12674-11-2	Aroclor 1016	990000	U
11104-28-2	Aroclor 1221	2000000	U
11141-16-5	Aroclor 1232	990000	U
53469-21-9	Aroclor 1242	4800000	DPJ
12672-29-6	Aroclor 1248	990000	U
11097-69-1	Aroclor 1254	990000	U
11096-82-5	Aroclor 1260	690000	DPJ

ST 8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L7

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-022C

Sample wt/vol: 1 (g/mL) G Lab File ID: pes116.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	560	PJ
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	510	PJ
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	510	U
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	8200	
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	1400	PJ
72-54-8	4,4`-DDD	27000	EPCJ
1031-07-8	Endosulfan sulfate	250	PJ ✓
50-29-3	4,4`-DDT	25000	EPCJ
72-43-5	Methoxychlor	1800	J
53494-70-5	Endrin ketone	560	PJ ✓
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	30000	
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	43000	PJ
11096-82-5	Aroclor 1260	68000	

ST 8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L7DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-022C

Sample wt/vol: 1 (g/mL) G Lab File ID: pes142.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 100.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	~~470~~ 5100	~~DPJ~~ U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	~~210~~ 5100	~~DPJ~~ U
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	5100	U
60-57-1	Dieldrin	9900	U
72-55-9	4,4`-DDE	7900	DJ
72-20-8	Endrin	9900	U
33213-65-9	Endosulfan II	~~1300~~ 9900	~~DPJ~~ U
72-54-8	4,4`-DDD	30000	D
1031-07-8	Endosulfan sulfate	9900	U
50-29-3	4,4`-DDT	30000	D
72-43-5	Methoxychlor	51000	U
53494-70-5	Endrin ketone	9900	U
7421-93-4	Endrin aldehyde	9900	U
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor 1016	99000	U
11104-28-2	Aroclor 1221	200000	U
11141-16-5	Aroclor 1232	99000	U
53469-21-9	Aroclor 1242	~~18000~~ 99000	~~DPJ~~ U
12672-29-6	Aroclor 1248	99000	U
11097-69-1	Aroclor 1254	49000	DPJ ✓
11096-82-5	Aroclor 1260	86000	DPJ ✓

ST 8/14/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L8

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-023C

Sample wt/vol: 1 (g/mL) G Lab File ID: pes097.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/24/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	73	PJ ✓
50-29-3	4,4`-DDT	1700	EPJ
72-43-5	Methoxychlor	150	PJ ✓
53494-70-5	Endrin ketone	51	PJ ✓
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	60	PJ
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	6900	PJ
11096-82-5	Aroclor 1260	4700	PJ

ST 8/16/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L9

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-024C

Sample wt/vol: 1 (g/mL) G Lab File ID: pes117.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 10.00

GPC Cleanup: (Y/N) N pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	510	U
319-85-7	beta-BHC	190	PJ
319-86-8	delta-BHC	510	U
58-89-9	gamma-BHC (Lindane)	510	U
76-44-8	Heptachlor	570	PJ
309-00-2	Aldrin	510	U
1024-57-3	Heptachlor epoxide	510	U
959-98-8	Endosulfan I	~~75~~ 510	~~PJ~~ U
60-57-1	Dieldrin	990	U
72-55-9	4,4`-DDE	990	U
72-20-8	Endrin	990	U
33213-65-9	Endosulfan II	1800	PJ
72-54-8	4,4`-DDD	31000	EC
1031-07-8	Endosulfan sulfate	990	U
50-29-3	4,4`-DDT	990	U
72-43-5	Methoxychlor	5100	PJ
53494-70-5	Endrin ketone	990	U
7421-93-4	Endrin aldehyde	990	U
5103-71-9	alpha-Chlordane	510	U
5103-74-2	gamma-Chlordane	510	U
8001-35-2	Toxaphene	51000	U
12674-11-2	Aroclor 1016	9900	U
11104-28-2	Aroclor 1221	20000	U
11141-16-5	Aroclor 1232	9900	U
53469-21-9	Aroclor 1242	35000	
12672-29-6	Aroclor 1248	9900	U
11097-69-1	Aroclor 1254	87000	PJ
11096-82-5	Aroclor 1260	63000	PJ

8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E21L9DL

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-024C

Sample wt/vol: 1 (g/mL) G Lab File ID: pes143.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/17/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/25/02

Injection Volume: 1 (uL) Dilution Factor 100.00

GPC Cleanup: (Y/N) N pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/KUG/KG	Q
319-84-6	alpha-BHC	5100	U
319-85-7	beta-BHC	5100	U
319-86-8	delta-BHC	5100	U
58-89-9	gamma-BHC (Lindane)	5100	U
76-44-8	Heptachlor	650	DJ ✓
309-00-2	Aldrin	5100	U
1024-57-3	Heptachlor epoxide	5100	U
959-98-8	Endosulfan I	5100	U
60-57-1	Dieldrin	9900	U
72-55-9	4,4`-DDE	9900	U
72-20-8	Endrin	9900	U
33213-65-9	Endosulfan II	~~1400~~ 9900	~~DPJ~~ U
72-54-8	4,4`-DDD	26000	D
1031-07-8	Endosulfan sulfate	9900	U
50-29-3	4,4`-DDT	9900	U
72-43-5	Methoxychlor	~~1100~~ 51000	~~DPJ~~ U
53494-70-5	Endrin ketone	9900	U
7421-93-4	Endrin aldehyde	~~1100~~ 9900	~~DPJ~~ U
5103-71-9	alpha-Chlordane	5100	U
5103-74-2	gamma-Chlordane	5100	U
8001-35-2	Toxaphene	510000	U
12674-11-2	Aroclor 1016	99000	U
11104-28-2	Aroclor 1221	200000	U
11141-16-5	Aroclor 1232	99000	U
53469-21-9	Aroclor 1242	40000	DPJ ✓
12672-29-6	Aroclor 1248	99000	U
11097-69-1	Aroclor 1254	100000	D
11096-82-5	Aroclor 1260	71000	DPJ ✓

8/6/02

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK1S

Lab Name: Clayton Group Services Contract: 68-W-99-069

Lab Code: CLAYTN Case No.: 30721 SAS No.: _____ SDG No.: E21K0

Matrix: (soil/water SOIL Lab Sample ID: 02070399-015A

Sample wt/vol: 1 (g/mL) G Lab File ID: pes069.rst

% Moisture: Decanted: (Y/N) N Date Received: 07/16/02

Extraction: (Type) SONC Date Extracted: 07/22/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 07/23/02

Injection Volume: 1 (uL) Dilution Factor 1.00

GPC Cleanup: (Y/N) N pH: 6.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/K UG/KG	Q
319-84-6	alpha-BHC	51	U
319-85-7	beta-BHC	51	U
319-86-8	delta-BHC	51	U
58-89-9	gamma-BHC (Lindane)	51	U
76-44-8	Heptachlor	51	U
309-00-2	Aldrin	51	U
1024-57-3	Heptachlor epoxide	51	U
959-98-8	Endosulfan I	51	U
60-57-1	Dieldrin	99	U
72-55-9	4,4`-DDE	99	U
72-20-8	Endrin	99	U
33213-65-9	Endosulfan II	99	U
72-54-8	4,4`-DDD	99	U
1031-07-8	Endosulfan sulfate	99	U
50-29-3	4,4`-DDT	99	U
72-43-5	Methoxychlor	510	U
53494-70-5	Endrin ketone	99	U
7421-93-4	Endrin aldehyde	99	U
5103-71-9	alpha-Chlordane	51	U
5103-74-2	gamma-Chlordane	51	U
8001-35-2	Toxaphene	5100	U
12674-11-2	Aroclor 1016	990	U
11104-28-2	Aroclor 1221	2000	U
11141-16-5	Aroclor 1232	990	U
53469-21-9	Aroclor 1242	990	U
12672-29-6	Aroclor 1248	990	U
11097-69-1	Aroclor 1254	990	U
11096-82-5	Aroclor 1260	990	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E21K0 CERCLIS No: _____

Case No: 30721 Site Name/Location: Smuget Site H+1

Contractor or EPA Lab: Chayton Data User: Tetra Tech

No. of Samples: 19 Date Sampled or Date Received: 8-1-02

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____
_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 19 No. of samples received: 19

Received by: Eva M. Dixon/ESAT Date: 8-1-02

Received by LSSS: Eva M. Dixon/ESAT Date: 8-1-02

Review started: 08/06/02 Reviewer Signature: Stephanie Tobin

Total time spent on review: 30 hrs Date review completed: 8/12/02

Copied by: Eva M. Dixon/ESAT Date: 8-12-02

Mailed to user by: Eva M. Dixon/ESAT Date: 8-12-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____
_____

Received by Data Mgmt. Coordinator for Files. Date: _____

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 30721
DAS No:
SDG No: E21K0

L

Date Shipped:	7/16/2002
Carrier Name:	FedEx
Airbill:	827673148902
Shipped to:	Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770

Chain of Custody Record

Sampler Signature: Annie Pesta

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Annie Pesta	7/16/02 1300		
2		Eric Cayader	7-17-02 10:02am
3			
4			

For Lab Use Only

Lab Contract No: 68W99069
Unit Price: $649.00
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21L7	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598855 (Ice Only), 598856 (Ice Only), 598857 (Ice Only) (3)	H/WS-01-04	S: 7/15/2002 14:10	ME21L7	
E21L8	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598859 (Ice Only), 598860 (Ice Only), 598861 (Ice Only) (3)	H/WS-01-05	S: 7/15/2002 14:25	ME21L8	
* E21L9	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598863 (Ice Only), 598864 (Ice Only), 598865 (Ice Only) (3)	H/WS-02-06	S: 7/15/2002 15:32	ME21L9	
E21M0	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598867 (Ice Only), 598868 (Ice Only), 598869 (Ice Only) (3)	H/WS-02-07	S: 7/15/2002 15:32	ME21M0	
E21M1	Soil/Sediment/ Mechelle Anderson	M/G	BNA (7), PEST (7), VOA (7)	598871 (Ice Only), 598872 (Ice Only), 598873 (Ice Only) (3)	H/WS-02-08	S: 7/15/2002 15:32	ME21M1	

0006

Last sample in SDG E 7-17-02

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5.0°C	Chain of Custody Seal Number: 87124/87125
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number: 5-343595582-071602-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	30721
DAS No:	
SDG No:	E21K0

L

Date Shipped:	7/15/2002
Carrier Name:	FedEx
Airbill:	827673148935
Shipped to:	Clayton Environmental Consultants, Inc 22345 Roethel Drive Novi MI 48375 (248) 344-1770

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Annie Pesto	7/15/02 1930		
2		Erica Jones	7-16-02 9:52AM
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	68W99069
Unit Price:	$1649.00
Transfer To:	
Lab Contract No:	
Unit Price:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21L0	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598834 (Ice Only), 598835 (Ice Only) (2)	WS-02-02	S: 7/14/2002 10:57	ME21L0	

0004

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 8.5°C	Chain of Custody Seal Number: 87112/87113
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles				

TR Number: 5-343595582-071402-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 30721
DAS No:
SDG No: E21K0

L

Date Shipped: 7/16/2002
Carrier Name: FedEx
Airbill: 827673148924
Shipped to: Clayton Environmental Consultants, Inc
22345 Roethel Drive
Novi MI 48375
(248) 344-1770

Chain of Custody Record

Sampler Signature: Annie Peste

	Relinquished By	(Date / Time)	Received By	(Date / Time)
1	Annie Peste	7/16/02 1300		
2			Erica Yates	7-17-02 10:02am
3				
4				

For Lab Use Only

Lab Contract No: 68W99069
Unit Price: $649.00
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME			INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E21L1	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598837 (Ice Only), 598838 (Ice Only) (2)	WS-03-01	S:	7/14/2002	14:17	ME21L1	
E21L2	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598840 (Ice Only), 598841 (Ice Only) (2)	WS-03-02	S:	7/14/2002	14:19	ME21L2	
E21L3	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598843 (Ice Only), 598844 (Ice Only) (2)	WS-01	S: E:	7/13/2002	15:52 15:52	ME21L3	
E21L4	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598846 (Ice Only), 598847 (Ice Only) (2)	H/WS-01-01	S:	7/15/2002	11:15	ME21L4	
E21L5	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598849 (Ice Only), 598850 (Ice Only) (2)	H/WS-01-02	S:	7/15/2002	11:20	ME21L5	
E21L6	Soil/Sediment/ Mechelle Anderson	M/G	BNA/PEST (7), VOA (7)	598852 (Ice Only), 598853 (Ice Only) (2)	H/WS-01-03	S:	7/15/2002	11:52	ME21L6	

0005

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 8.8°C	Chain of Custody Seal Number: 87120 87121
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, VOA = CLP TCL Volatiles

TR Number: 5-343595582-071602-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Karen Coonan (E-mail)" <Kcoonan@claytongrp.com>, ...
Date: Tue, Jul 16, 2002 2:48 PM
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue TR/COC discrepancy - analysis level | FINAL

Karen and Erica,

This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

Following is the resolution from Region 5 regarding the concentration for the samples received today for Case 30721. Per the Region, the samples are for low/medium level analysis, not medium level analysis. The lab should note the issue in the SDG narrative and proceed with the analysis of the samples at low/medium level.

If you have any other questions or problems, please let me know.

Thanks,
Holly

7/16
2:33pm -- Phone conversation with Cecilia Moore, CLP PO Region 5. Per the Region, the sampler's resolution should be sent to the lab.

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, July 16, 2002 12:25 PM
To: Cecilia Moore (E-mail); Cheryl Simpson (E-mail)
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue TR/COC discrepancy - analysis level

Cecilia and Cheryl,

This is Holly Rogers. Jessica is out of the office until Thursday, 7/18.

Following is the resolution from Brandt Brown, Tetra Tech. Per the sampler, CLAYTN should analyze all organic samples for Case 30721 for low/medium level analysis, not for medium level analysis. The lab should note the issue in the SDG narrative and proceed with the analysis. Please verify that this is the resolution that should be sent to the lab.

Thanks,
Holly

-----Original Message-----
From: Brown, Brandt [mailto:Brandt.Brown@ttemi.com]
Sent: Tuesday, July 16, 2002 12:13 PM
To: Brown, Jessica
Subject: RE: Region 05 | Case 30721 | Lab CLAYTN | Issue TR/COC discrepancy - analysis level

Holly-

These samples should be analyzed for Low/medium analysis, not medium.

Please tell the labs to analyze for low/medium.

Thanks
Brandt

-----Original Message-----
From: Brown, Jessica [mailto:Jessica.Brown@dyncorp.com]
Sent: Tuesday, July 16, 2002 11:11 AM
To: Brown, Brandt
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue TR/COC discrepancy - analysis level

Brandt,

This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

I received your voice mail saying to send all issues for this Case to you. The issue below is from CLAYTN regarding Case 30721. Please advise on how the lab should proceed.

Thanks,
Holly

> -----Original Message-----
> From: Brown, Jessica
> Sent: Tuesday, July 16, 2002 11:48 AM
> To: Eric Monschein (E-mail)
> Cc: Cecilia Moore (E-mail); Cheryl Simpson (E-mail)
> Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue TR/COC
> discrepancy - analysis level
>
> Eric,
>
> This is Holly Rogers. Jessica will be out of the office until Thursday,
> 7/18.
>
> Following is a record of a phone conversation with CLAYTN regarding
> samples received today for Case 30721. The concentration listed on the TR
> for the samples received today for this Case is "MG" for medium level
> analysis. The lab would like to know if they should perform medium level
> analysis on these samples.
>
> Please advise on how the lab should proceed.
>
> Thanks,
> Holly
>
> Jessica Brown
> DynCorp Systems & Solutions LLC
> CLP Coordinator for Regions 4, 5, & 8
> jessica.brown@dyncorp.com
> Ph: 703.264.9349; Fax: 703.264.9222
>
> 7/16
> 10:52am -- Holly Rogers, SMO, received a voice mail from Erica Yates,

> CLAYTN. The lab received samples today for Case 30721. The concentration
> for these samples is listed on the TR as "MG" for medium level analysis.
> The lab would like to know if they should perform medium level analysis on
> these samples.

CC: "Brandt Brown (E-mail)" <brownb@ttemi.com>, "Cecil...

From: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
To: "Karen Coonan (E-mail)" <Kcoonan@claytongrp.com>, ...
Date: Wed, Jul 17, 2002 1:44 PM
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Matrix | FINAL

Karen and Erica,

This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

Following is the resolution from Region 5 regarding the matrix issue for Case 30721, samples E21L0 and E21K8. Per the Region, the lab should note the issues in the SDG narrative and proceed with the reduced volume analysis of VOA sample E21K8. Also, the lab should cancel the analysis of VOA/BNA/PEST sample E21L0, since there is no sample volume for analysis.

Please let me know if you have any other questions or problems.

Thanks,
Holly

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Wednesday, July 17, 2002 1:21 PM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Matrix

Holly:

The lab can proceed per the sampler's recommendation.

Cecilia

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, July 17, 2002 12:36 PM
To: Cecilia Moore (E-mail); Cheryl Simpson (E-mail)
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Matrix

Cecilia and Cheryl,

This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

Following is the resolution from the sampler for Case 30721 matrix issue. Per the sampler, the lab should analyze sample E21K8 for VOA analysis at reduced volume. Also, the lab should cancel analysis on sample E21L0 for VOA/BNA/PEST/PCB analysis because there is no soil sample in with the rocks for this sample.

Please verify that this is how the lab should proceed.

Thanks,
Holly

-----Original Message-----
From: Brown, Brandt [mailto:Brandt.Brown@ttemi.com]
Sent: Wednesday, July 17, 2002 11:37 AM
To: Brown, Jessica
Subject: RE: Region 05 | Case 30721 | Lab CLAYTN | Issue Matrix

Hi Holly-

Run the one sample for VOA at reduced volume. Disregard sample E21L0 if no sample can be taken.

Thanks
Brandt

-----Original Message-----
From: Brown, Jessica [mailto:Jessica.Brown@dyncorp.com]
Sent: Wednesday, July 17, 2002 9:00 AM
To: Monschein, Eric; Brown, Brandt
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Matrix

Brandt,

This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

For Case 30721, CLAYTN has some soil sample in with the rocks for sample E21K8, VOA analysis. The lab believes they could perform the analysis (possibly at reduced volume) for this sample. However, sample E21L0 for VOA/BNA/PEST/PCB analysis has no soil in the containers with the rocks. The lab can not analyze this sample.

Please advise on how the lab should proceed.

Thanks,
Holly

Jessica Brown
DynCorp Systems & Solutions LLC
CLP Coordinator for Regions 4, 5, & 8
jessica.brown@dyncorp.com
Ph: 703.264.9349; Fax: 703.264.9222

7/17
8:52am -- Holly Rogers, SMO, received a voice mail from Erica Yates, CLAYTN. For sample E21K8, VOA analysis, the lab has a little bit of soil sample in the container with the rock. The lab could possibly perform reduced volume analysis. For the other sample, E21L0 for VOA/BNA/PEST/PCB analysis, there is no soil in the sample containers. The lab can not analyze these samples.

7/16
4:30pm -- Holly Rogers, SMO, left a voice mail for Erica Yates, CLAYTN. Does the lab have any soil for analysis in the "rock" samples for this Case?

3:25pm -- Phone conversation between Holly Rogers, SMO, and Brandt Brown, Tetra Tech EMI. The sampler would like to know if the lab has any volume in these samples to perform analysis.

> -----Original Message-----
> From: Brown, Jessica
> Sent: Tuesday, July 16, 2002 3:22 PM
> To: Brandt Brown (E-mail); Eric Monschein (E-mail)
> Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Matrix
>
> Brandt,
>
> This is Holly Rogers. Jessica will be out of the office until Thursday,
> 7/18.
>
> Following is an issue from CLAYTN regarding Case 30721 sample E21L0 for
> VOA analysis (tag # 5-098835), sample E21L0 for BNA/PEST analysis (tag #
> 5-098834), and sample E21K8 for VOA analysis (tag # 5-098829). The lab
> does not feel that they can analyze the samples because the matrix is a
> solid rock. Please advise on how the lab should proceed.
>
> Thanks,
> Holly
>
> Jessica Brown
> DynCorp Systems & Solutions LLC
> CLP Coordinator for Regions 4, 5, & 8
> jessica.brown@dyncorp.com
> Ph: 703.264.9349; Fax: 703.264.9222
>
> 7/16
> 2:29pm -- SMO received the email from CLAYTN. Samples E21L0 (VOA - tag #
> 5-098835), sample E21L0 (BNA/PEST analysis tag # 5-098834), and sample
> E21K8 (VOA analysis tag # 5-098829). The lab does not feel that they can
> analyze the samples because the matrix is a solid rock.
>
> 2:18pm -- Phone conversation with Erica Yates, CLAYTN. The lab would like
> to know if the rock matrix issue for Case 30721 has been resolved. SMO
> informed the lab that this issue was not received by SMO. The lab will
> fax a copy of the email to SMO.
>
> 10:36am -- CLAYTN tried to send an email to SMO. This email was not
> received.

CC: "Cecilia Moore (E-mail)" <moore.cecilia@epa.gov>, ...

From: Karen Coonan
To: "Jessica.Brown@dyncorp.com"@CGS_Inet.GWIA6; "John...
Date: Thu, Jul 18, 2002 11:10 AM
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Johnson. Michael - EPA
Smith. Terry - EPA
Holly Rodger - Dycorp
cc: browlab@Hemi
monshe@Hemi
moore. Cecilia@ EPA
pham. howe@EPA
simpson. cheryl@EPA
KC 7/

Hi Holly,

Because these are waste samples, not soil or sediment samples, this is how the lab would like to proceed (since waste samples are not covered in the SOW):

Volatiles: All samples were prepared as medium-level samples. Analysis has already started for these, since the samples had already been prepped before we "stopped all work". The analysts are finding that many samples have to be done with further dilutions (possibly 1000 times or greater). All samples will be done as medium-levels. They are finding forms of Chlorobenzene (possibly what you might find in pesticides). The analysts feel, though, that what they are seeing does not account for the strong odors that are present in the samples (ie, the odors could be from heavier compounds that will be found during the BNA and PEST analysis).

Since these are waste samples, the lab is concerned about contaminating the GPC and the other instruments. Also, the medium-level VOAs are indicating that there are also heavier compounds present. Therefore, the lab would like to do the following:

BNA: The lab would extract these samples as medium-level samples.

PEST/PCB: The lab would like to extract these as medium-level samples. The samples would be extracted using the same weight as BNA medium-level samples. Since there is not a method for medium-level PEST, the Region would have to approve this.

Percent moisture should not be done on most of these samples. There is a concern that these samples will flash in the oven while drying.

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

>>> "Brown, Jessica" <Jessica.Brown@dyncorp.com> 07/17 5:36 PM >>>
This is Holly Rogers. Jessica will be out of the office until Thursday, 7/18.

Following is a record of communication regarding samples that CLAYTN received for Case 30721.

7/17
5:02pm -- Phone conversation between Loren Minnich, SMO, and Mike Johnson, EPA AOC, regarding this issue. Mike requested that SMO send him the record of communication for this issue, including all contacts involved.

4:36pm -- Holly Rogers, SMO, received a voice mail from Cecilia Moore, PO Region 5. Per the Region, SMO should contact CLAYTN to determine which

covering for him at Headquarters to obtain the next course of action contractually.

4:06pm -- Holly Rogers, SMO, left a voice mail for Cecilia Moore, PO Region 5, regarding the sampler's response to this issue.

2:20pm -- Phone conversation between Holly Rogers, SMO, and Brandt Brown, Tetra Tech EMI. The sampler would like to know what information the lab requires. He said that the samples are from a landfill site and he doesn't know what's in them - that's why the samples are being sent for analysis.

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, July 17, 2002 1:55 PM
To: Brandt Brown (E-mail); Eric Monschein (E-mail)
Cc: Cecilia Moore (E-mail)
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Eric and Brandt,

Following is an email from CLAYTN regarding multiple issues for samples received for Case 30721. The lab has halted analysis of these samples until more information is given regarding the samples because the lab is worried about health risks to their employees. This Case is for a 7-day TAT.

Please see the email from the lab below and advise on how the lab should proceed.

Thanks,
Holly

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Wednesday, July 17, 2002 1:54 PM
To: Karen Coonan
Cc: Rogers, Holly
Subject: Re: Case 30721

My responses are below. (Holly Rogers, SMO, has indicated the Region's comments with an asterisk * to avoid confusion)

-----Original Message-----
From: Rogers, Holly
Sent: Wednesday, July 17, 2002 1:38 PM
To: Brown, Jessica
Subject: FW: Case 30721

7/17
1:32pm -- Phone conversation with Karen Coonan, CLAYTN. The lab would like to make SMO aware of the email below. The samples for this Case are not really soil samples. The lab has numerous concerns and has, at present, halted the analysis due to noxious fumes. The lab noted these problems when they began to weigh and prep the samples.

Holly Rogers

DynCorp Systems and Solutions LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com <mailto:holly.rogers@dyncorp.com>

-----Original Message-----
From: Karen Coonan [mailto:KCoonan@claytongrp.com]
Sent: Wednesday, July 17, 2002 1:23 PM
To: Rogers, Holly
Cc: moore.cecilia@epa.gov
Subject: Case 30721

Hi Holly,

We received the second set of samples today. We have some questions and concerns regarding the samples for this case.

1. Samples that were shipped on 7/15/02 did not have a signature in the "Sampler Signature" box. There was a "Relinquished by" signature. (Samples shipped 7/16/02 did have the sampler signature.)

I believe this is a Standard Answer and you can just note the discrepancy in the narrative and proceed with analysis.

2. The Traffic Report received today indicates that the case is not complete. However, the shipping notification form indicated that the case is now closed.

Holly, please check with the sampler as to whether the case is complete or not and then have the lab proceed per the sampler's instructions.

3. Twenty-two samples have been received. These were placed into two SDGs. There were no samples designated as QC. Does the Region want the lab to choose two samples for QC? The last five samples on the TR had three jars collected for each sample (whereas all the other samples had only two jars). So two of these five samples should probably be chosen for BNA and PEST (VOA would rather choose a sample where the odor is not so strong).

Unless you hear differently from the sampler, please have the lab select QC samples.

Note: ALL twenty-two samples emitted very strong odors (solvent- or hydrocarbon-like), indicating probable matrix interference. (The odors caused three analysts to feel lightheaded and nauseous after weighing up the samples in a hood). Also, these samples are not soils. At this point the lab is holding any further analysis. We need to know where these samples came from and what they might contain. The lab is very concerned about the health risks until we have some background information about these samples.

PLEASE HAVE THE SAMPLER INDICATE THE NATURE OF THE SAMPLES AND LET THEM KNOW THAT ANALYSIS WILL BE SUSPENDED UNTIL THAT INFORMATION IS PROVIDED.

The following are physical descriptions:

E21K0: Brown solid (fine sand or filter cake-like) and paper (very noxious odor)

E21K1: Black crystals (dissolved completely in Methanol when prepping for VOA)
E21K2: Black, thick fabric
E21K3: Thick brown sticky resin/solvent with brown solids (when prepping for PEST extractions, the Sodium sulfate was coating the outside of the sample and would not break-up)
E21K4: Hard brown-black solid pieces (slag); does not have as strong of an odor
E21K5: Black sticky tar-like (dissolved completely in Methanol when prepping for VOA, then it appeared ink-like)
E21K6: Brown solid (fine sand or filter cake-like) and paper (very noxious odor)
E21K7: Dark purple/black moist solids, like a filter cake (dissolved completely in Methanol when prepping for VOA)
E21K8: Black rocks (VOA jar also contained black crystals)
E21K9: Mixed black/white/brown moist solid (like a filter-cake) (very noxious odor)
E21L0: Concrete (no odor)
E21L1: Large shiny black chunks (like coal)
E21L2: Black oily, rocky, mud-like solid
E21L3: Tan-brown moist crumbly solids, filter cake-like (very noxious odor)
E21L4: Crumbly moist brown solids
E21L5: Grayish- pink soft rock-like
E21L6: Moist black solids and beads
E21L7: Brown moist solids (very noxious odor)
E21L8: Moist, off-white sand-like granules smells like a weed-killer (dissolved completely in Methanol when prepping for VOA)
E21L9: Black moist soil and rocks
E21M0: Black solids, soil-like
E21M1: Brown rocks and brown solids (smells like amines)

Once we know more about the samples, we have the following issues:

4. Because of the odors/matrix, the VOA lab will analyze these samples first as medium-levels. If there is nothing present, then they will go back and analyze as low-levels. For those samples that will be reported as medium-level samples, does the Region want a medium-level MS/MSD?

I need Holly to confirm this, but, I think the SOW requires a medium-level MS/MSD with any medium-level analysis. Additionally, I think the SOW requires low level be performed at no additional cost if the lab opts to analyze as medium-level without screening. I have not checked the SOW due to time, so, the final answer is to proceed per the current SOW.

5. Because of the matrix, two of the samples, E21K3 and E21K5, will cause problems when trying to go through the GPC (see descriptions above). This type of matrix will clog up the column in the GPC, which in turn will shut the instrument down. The lab would like permission to skip the GPC part of the BNA/PEST extraction for these two samples. Is that possible?

If the current SOW allows, the lab may skip the GPC.

6. Because these are bulk samples, do the results still need to be reported on a dry-weight basis? The lab is concerned about running the percent

moistures which is needed in the calculation. The samples are placed in an oven and dried over a period of time. Even if the oven is placed in a hood, the lab is concerned about the fumes - many of the odors are solvents which could ignite when heated and then there is also the health concern of the employees.

Please get a recommendation from the sampler and the lab may proceed per the sampler's recommendation as long as the sampler as provided the potential contaminants for these samples.

Please advise as soon as possible since this is a seven day case.

Thank you,

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

CC: "brownb@ttemi.com"@CGS_Inet.GWIA6; "monsche@ttemi...

Record of Communication
From Karen Coonan, Clayton Group Services

7/18/02 11:15PM - I spoke to Cecilia Moore, USEPA Region 5 PO, regarding Case 30721. Because of the hazardous nature of the samples, Cecilia said that Terry Smith, Mike Johnson and herself agreed that the laboratory should proceed as follows: all analyses should be done as medium-level analyses (for VOA, BNA and PEST). Also, the laboratory does not need to do clean-ups (GPC) because of the potential to contaminate equipment; the laboratory does not need to do percent moisture because of the concern that the samples will flash in the oven. The lab will need to submit a waiver so that there will be no screen errors for the GPC clean-up and percent moisture.

From: Karen Coonan
To: Cecilia Moore; Cecilia Moore
Date: Thu, Jul 18, 2002 4:20 PM
Subject: Case 30721 - Request for waiver

Hi Cecilia,

Here is my letter, requesting a waiver. Let me know if it is not specific enough or if I have left anything out that is important.

Thank you,

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

July 18, 2002

Ms. Cecilia Moore
USEPA Region V, CAAS
77 West Jackson Blvd. (SMF-4J)
Chicago, IL 60604

Re: Waiver Request

Contract No.: 68-W-99-069
Delivery Order No.: 03
Case No.: 30721
SDG: E21K0 and E21M0
Original Due Date: 07/24/02
Turnaround time: 7 days

Dear Ms. Moore:

The laboratory is in the process of analyzing SDGs E21K0 and E21M0. We have encountered problems with the samples in this Case and are requesting a waiver.

All samples in this Case, except for one, are waste samples, not soil/sediment samples. All twenty-two samples are emitting very strong odors (some are solvent- or hydrocarbon-like).

As three analysts were prepping the samples for the VOA analysis and the Pesticide extraction, they were affected by the fumes from the samples. At this point, the laboratory halted the prep work on July 17, 2002, due to concerns for the safety of the analysts. Dyncorp was notified immediately and asked by the laboratory to find out any background information regarding the origin of the samples.

The sampler informed Dyncorp that these samples were from a landfill, so there is no history on the samples.

Dyncorp and Region 5 asked the laboratory what analysis could not be safely analyzed for. The laboratory informed the Region and Dyncorp that because these are waste samples, the laboratory is concerned about health issues, contaminating the GPC instrument and also the analytical instruments, if the samples were analyzed as low-level samples.

Also, the laboratory did not want to perform the percent moisture analysis. To determine percent moisture, samples are dried in an oven. There was a possibility that these samples would flash (or explode/ignite) due to the strong solvent odors.

On July 18, 2002, the laboratory and the Region agreed that to safely analyze these samples, the VOA, BNA and PEST analyses should be done as medium-level analyses. The Region also agreed that percent moisture should not be done.

Extractions were started for the BNA and PEST analyses on July 18, 2002.

On July 18, 2002, the laboratory also had the screening results for the VOA analysis. All samples were prepared for medium-level analysis. The screen results indicate that many samples will require at least a 1000 times or greater dilution. Some samples are foaming in the instrument, which is causing delays. Many samples contain forms of Chlorobenzene at significant levels, which could also affect the (chlorinated) PEST analysis. There is also indication that there are heavy compounds present, which will affect the BNA and PEST analyses.

The VOA samples will require numerous runs - due to high concentrations of target and non-target compounds and also due to poor QC because of matrix (if a samples fails the QC, it must be re-analyzed to prove its matrix interference, per the SOW). It is strongly believed that the BNA and PEST analyses will also require numerous runs for each sample for the same reasons.

Because these waste samples will require more than one analytical run per sample, per fraction, the laboratory will be unable to meet the required turnaround time. The laboratory is asking for a waiver. Since the BNA and PEST analyses have not been started yet (only the extractions), the laboratory is projecting that it will require at least an additional five working days to complete the analyses and data package. The laboratory is very aware that this Case needs to be done as soon as possible and every effort is being made to get the Case done quickly.

An E-mail is attached that includes physical descriptions of all the samples in this Case and the record of communication.

If you have any further questions, please feel free to contact me at (248) 344-2671.

Sincerely,

Karen Coonan
CLP Program Manager
kcoonan@claytongrp.com

attachment

most concerned about. SMO should also contact Terry Smith, or whoever is covering for him at Headquarters to obtain the next course of action contractually.

4:06pm -- Holly Rogers, SMO, left a voice mail for Cecilia Moore, PO Region 5, regarding the sampler's response to this issue.

2:20pm -- Phone conversation between Holly Rogers, SMO, and Brandt Brown, Tetra Tech EMI. The sampler would like to know what information the lab requires. He said that the samples are from a landfill site and he doesn't know what's in them - that's why the samples are being sent for analysis.

-----Original Message-----
From: Brown, Jessica
Sent: Wednesday, July 17, 2002 1:55 PM
To: Brandt Brown (E-mail); Eric Monschein (E-mail)
Cc: Cecilia Moore (E-mail)
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Eric and Brandt,

Following is an email from CLAYTN regarding multiple issues for samples received for Case 30721. The lab has halted analysis of these samples until more information is given regarding the samples because the lab is worried about health risks to their employees. This Case is for a 7-day TAT.

Please see the email from the lab below and advise on how the lab should proceed.

Thanks,
Holly

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Wednesday, July 17, 2002 1:54 PM
To: Karen Coonan
Cc: Rogers, Holly
Subject: Re: Case 30721

My responses are below. (Holly Rogers, SMO, has indicated the Region's comments with an asterisk * to avoid confusion)

-----Original Message-----
From: Rogers, Holly
Sent: Wednesday, July 17, 2002 1:38 PM
To: Brown, Jessica
Subject: FW: Case 30721

7/17
1:32pm -- Phone conversation with Karen Coonan, CLAYTN. The lab would like to make SMO aware of the email below. The samples for this Case are not really soil samples. The lab has numerous concerns and has, at present, halted the analysis due to noxious fumes. The lab noted these problems when they began to weigh and prep the samples.

Holly Rogers
DynCorp Systems and Solutions LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com <mailto:holly.rogers@dyncorp.com>

-----Original Message-----
From: Karen Coonan [mailto:KCoonan@claytongrp.com]
Sent: Wednesday, July 17, 2002 1:23 PM
To: Rogers, Holly
Cc: moore.cecilia@epa.gov
Subject: Case 30721

Hi Holly,

We received the second set of samples today. We have some questions and concerns regarding the samples for this case.

1. Samples that were shipped on 7/15/02 did not have a signature in the "Sampler Signature" box. There was a "Relinquished by" signature. (Samples shipped 7/16/02 did have the sampler signature.)

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Holly, please check with the sampler as to whether the case is complete or not and then have the lab proceed per the sampler's instructions.

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Please get a recommendation from the sampler and the lab may proceed per the sampler's recommendation as long as the sampler as provided the potential contaminants for these samples.

Please advise as soon as possible since this is a seven day case.

Thank you,

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

CC: "brownb@ttemi.com"@CGS_Inet.GWIA6; "monsche@ttemi...

From: Karen Coonan
To: Ed David
Date: Fri, Jul 19, 2002 3:33 PM
Subject: Cover Sheets for Case 30721

Ed-

Here are the cover sheets and Traffic Reports for Case 30721, SDGs E21K0 and E21M0.

All samples for this case will be analyzed as medium-level samples. Also, sample E21I) was cancelled by the Region. (Holly has the e-mail).

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

From: <Moore.Cecilia@epamail.epa.gov>
To: <kcoonan@claytongrp.com>
Date: Wed, Jul 24, 2002 7:28 AM
Subject: Re: Clayton Waiver Request

FYI

The waiver was approved.

Cecilia
----- Forwarded by Cecilia Moore/R5/USEPA/US on 07/24/02 06:27 AM -----

Thomas Valentino
07/23/02 01:54 PM
To: Cecilia Moore/R5/USEPA/US@EPA
cc: minnichl@dyncorp.com, Terry Smith/DC/USEPA/US@EPA
Subject: Re: Clayton Waiver Request(Document link: CECILIA MOORE)

cecilia, i signed this waiver this afternoon, and faxed to you, terry and sean K. - tom

Cecilia Moore
07/22/02 11:11 AM
To: Thomas Valentino/DC/USEPA/US@EPA
cc: Terry Smith/DC/USEPA/US@EPA, minnichl@dyncorp.com
Subject: Clayton Waiver Request

Tom:

Attached is the waiver request and additional documentation from Clayton for the case Mike Johnson discussed with you last week. Please let me know if you have any questions. Thanks.

Cecilia
(See attached file: cltynwvr.72202.wpd)(See attached file: 30721.doc)

From: "Rogers, Holly" <Holly.Rogers@dyncorp.com>
To: "Erica Yates (E-mail)" <eyates@claytongrp.com>, "K...
Date: Mon, Jul 29, 2002 3:34 PM
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Sample Condition | FINAL

Erica,

Below is the resolution from Region 5 regarding the matrix and pH issues for Case 30721. Per the Region, the lab should list the samples as soil samples, not waste samples. Also, the lab will have to contact their CLP PO for a waiver request for the pH issue to avoid CCS defects.

Please let me know if you have any other questions or problems.

Thanks,
Holly

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Monday, July 29, 2002 2:04 PM
To: Rogers, Holly
Cc: kcoonan@claytongrp.com
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Holly:

Please have the lab list the samples as soil and have the lab submit a waiver request for the pH issue. Thanks.

Cecilia

From: "Rogers, Holly"<Holly.Rogers@dyncorp.com>

To: Cecilia Moore/R5/USEPA/US@EPA
cc:
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

07/29/02 11:29 AM

Cecilia,

I spoke with SMO CCS regarding this issue and I was informed that the lab will have to submit a waiver request for the pH issue. Also, CCS informed me that, because of a problem with the electronic deliverable, the lab does not have the option to list "waste" as a matrix for the samples for this Case. The only options for matrix for CLP samples is soil or water.

This information can be found in the OLM04.2 SOW in exhibit H, page H-14. Please let me know how the Region would like to proceed and I will contact the lab.

Thanks,
Holly

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----
From: Moore.Cecilia@epamail.epa.gov
[mailto:Moore.Cecilia@epamail.epa.gov]
Sent: Monday, July 29, 2002 11:18 AM
To: Rogers, Holly
Cc: eyates@claytongrp.com; Brown, Jessica; Kcoonan@claytongrp.com
Subject: Re: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple

Holly:

I sent an e-mail to Karen this morning directing her to list the samples as waste and note the pH problem in the narrative. Do I need to submit a new waiver request to have CCS defects removed for the lack of pH? Please advise. Thanks.

Cecilia

From: "Rogers, Holly"<Holly.Rogers@dyncorp.com>
To: Cecilia Moore/R5/USEPA/US@EPA, "Erica Yates (E-mail)" <eyates@claytongrp.com>, "Karen Coonan (E-mail)" <Kcoonan@claytongrp.com>
cc: "Brown, Jessica" <Jessica.Brown@dyncorp.com>
Subject: Region 05 | Case 30721 | Lab CLAYTN | Issue Multiple
07/29/02 09:35 AM

Karen and Cecilia,

This is Holly Rogers. Since this Case is so complicated, Jessica asked that I follow up with the lab and the Region.

Would you please forward the Region's response to the issues below?

Thanks,
Holly

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----

From: Brown, Jessica
Sent: Monday, July 29, 2002 10:30 AM
To: Rogers, Holly
Subject: RE: Case 30721

Do you know what is going on w/this?

-----Original Message-----
From: Rogers, Holly
Sent: Friday, July 26, 2002 4:03 PM
To: Brown, Jessica; Minnich, Loren
Subject: FW: Case 30721

FYI -- This is more on Case 30721 for CLAYTN with the garbage samples. The lab sent the email to Cecilia Moore (their CLP PO).

Holly Rogers
DynCorp Systems and Solutions, LLC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.rogers@dyncorp.com

-----Original Message-----
From: Karen Coonan [mailto:KCoonan@claytongrp.com]
Sent: Friday, July 26, 2002 3:45 PM
To: Rogers, Holly; moore.cecilia@epa.gov
Subject: Case 30721

Hi Cecilia,

Case 30721 is the case that was all waste samples. I was just notified by the laboratory that pH's could not be done on several of these samples. This was due to matrix - either because of the strong odors (health concerns) or due to the type of waste that the samples were (ie - tar, grease, etc.)

The samples that we were not able to do the pH's: E21K0, E21K2, E21K3, E21K5, E21K6, E21K8, E21K9, E21L3, E21L4, E21L6, E21L7, E21M1.

(pH's were done on nine samples.)

I also had a question regarding the narrative. On the first page of our narrative, we are to list each sample, the matrix and the analysis. For matrix, we have always put either aqueous or soil. For these samples should I list soil (this is what was on scheduling form) or should I list waste (since this is more the type of matrix)?

Karen Coonan
Clayton Group Services
CLP Project Manager
(248) 344-2671
kcoonan@claytongrp.com

CC: "Cecilia Moore (E-mail)" <moore.cecilia@epa.gov>, ...

From: <Moore.Cecilia@epamail.epa.gov>
To: Karen Coonan <KCoonan@claytongrp.com>
Date: Mon, Jul 29, 2002 10:16 AM
Subject: Re: Case 30721

Karen:

List the samples as waste samples. I'll see if I can add the pH problem to your waiver.

Cecilia