574SERBSF10,633

574SERBSF10,633

Site Name (Subject):	TRI-COUNTY AIRPORT
Site ID (Document ID):	NCN000407205
Document Name (DocType):	Sampling Plans (SAP/QAPP)
Report Segment:	
Description:	Well Sampling Results: Henry Joyner
Date of Document:	12/13/2001
Date Received:	
Box: *Enter SF and # with no spaces*	SF10,633
Access Level:	PUBLIC
Division:	WASTE MANAGEMENT
Section:	SUPERFUND
Program (Document Group):	SERB (SERB)
Document Category:	FACILITY

Print Report for Record | **Go to New Blank Record** | **Go to New Record - (default to last record values)** | **Delete Record**

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT

MICHAEL F. EASLEY, GOVERNOR
WILLIAM G. ROSS, JR., SECRETARY
DEXTER R. MATTHEWS, INTERIM DIRECTOR

December 13, 2001

Mr. Henry Joyner, Manager
Tri-County Airport
Route 1, Box 36
Aulander, NC 27805

SUBJECT: Well Sampling Results
Tri-County Airport, NCN 000 407 205
Aulander, Hertford County, NC

Dear Mr. Joyner:

As you are aware, the NC Superfund Section collected water samples from your drinking water well on November 7, 2001 as part of an environmental assessment of the subject site. Samples were analyzed through the State Laboratory of Public Health for the chemicals listed on the attached sheets. The contaminants listed below were detected in your well water samples. Concentrations are in parts per billion (PPB).

Contaminant	Concentration (PPB)	NC Groundwater Standard (PPB)	MCL (PPB)
Barium	100	2,000	2,000
Iron	1,090	300	300
Zinc	200	1,000	2,100

Iron was measured at a concentration which is above the applicable NC Groundwater Standard. The level of iron also exceeds the Secondary Maximum Contaminant Level (SMCL) considered acceptable for public water supplies. These results were reviewed by the Industrial Hygiene Consultant for the NC Superfund Section. He has concluded that this level exceeds the standards based on the potential for objectionable taste and not the health based criteria. Therefore, the water from your well should be considered safe for normal use. A copy of his evaluation is attached for your information.

No further sampling is planned by the NC Superfund Section at this time. Therefore, it is the responsibility of the well owner to arrange for follow-up sampling through a commercial laboratory if the owner wants additional samples collected.

1646 MAIL SERVICE CENTER, RALEIGH, NORTH CAROLINA 27699-1646
401 OBERLIN ROAD, SUITE 150, RALEIGH, NC 27605
PHONE: 919-733-4996 \ FAX: 919-715-3605
AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER - 50% RECYCLED/10% POST-CONSUMER PAPER

If you have any questions regarding health concerns, please contact Mr. Dave Lilley, Industrial Hygienist, NC Division of Waste Management, Superfund Section at (919) 733-2801 ext. 286. If you have any other questions, please contact me at (919) 733-2801 ext. 316.

Sincerely,

Melanie Bryson
Site Evaluation and Removal Branch
Superfund Section

attachments

cc: Mr. Dave Lilley, letter only
File

North Carolina
Department of Environment and Natural Resources

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary
Dexter R. Matthews, Interim Director

NCDENR

December 12, 2001

TO: Melanie Bryson
Environmental Engineer
NC Superfund Section

FROM: David Lilley, CIH,CSP DBL
Industrial Hygiene Consultant
NC Superfund Section

RE: Health Risk Evaluation
Private Well Sample TCA-009-PW
Tri-County Airport
NCN 000 407 205
Aulander, Hertford County, NC

Based on the analytical results from Private Well Sample TCA-009-PW (Lab #s: 017127, 016323, and 016331), this water should be considered safe for normal use. **However**, it should be noted that the analytical results from this well are **not** within current regulatory guidelines. The detected concentration of iron (1,090 ppb) exceeds the US Environmental Protection Agency's (EPA's) Secondary Maximum Contaminant Level (SMCL) of 300 ppb. This standard for iron is based on the potential for objectionable taste, odor, or color, not health based criteria. Below is a comparison of the sample results vs. the NC Division of Environmental Health, Public Drinking Water Supply Maximum Contaminant Levels (MCL):

Sample I.D	Constituent	Concentration (PPB)	MCL (PPB)
TCA-009-PW	Barium	100	2,000
	Iron	1,090	300
	Zinc	200	5,000

dl/DL/wpfiles/Health Risk Evaluations/Tri-County Airport/2

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-733-4996 \ FAX: 919-715-3605 \ Internet: www.enr.state.nc.us

AN EQUAL OPPORTUNITY \ AFFIRMATIVE ACTION EMPLOYER – 50% RECYCLED / 10% POST CONSUMER PAPER

December 10, 2001

MEMORANDUM

TO: Mr. Dave Lilley, Industrial Hygiene Consultant
NC Division of Waste Management, Superfund Section

THROUGH: Jim Bateson, Branch Head
NC Superfund Section

FROM: Melanie Bryson, Environmental Engineer
NC Superfund Section

Subject: Health Risk Evaluation Request
Tri-County Airport, NCN 000 407 205
Aulander, Hertford County, NC

Please find attached a copy of the laboratory analyses for the well sample collected by the Superfund Section around the subject site. Since this sample was collected from a private well, the Superfund Section requests a health risk evaluation and a recommendation on the continued use of this well. This information will be provided to the affected well users. The following table outlines the detected constituents and their concentrations.

Sample I.D.	Constituent	Concentration (PPB)
TCA-009-PW	Barium	100
	Iron	1,090
	Zinc	200

If you have any questions regarding this matter, please contact me at 733-2801 ext. 316.

Attachments

cc: File

. . . a ment o nvironment
& Natural Resources
Solid Waste Management Division

AMPLE ANALYSIS REQUEST

State Laboratory of Public Health
P.O Box 28047, 306 N. Wilmington Street
Raleigh, North Carolina 27611

Site Number NCN00040720S

Sample ID Number /Name 50714

Name of Site Tri-County Airport

Collected By Melanie Bryson ID#

Site Location Aulander, Hertford Co., NC

Date Collected 11-07-01 Time 15:25

Agency: ____ Hazardous Waste ____ Solid Waste X Superfund

Sample Type

Environmental	Concentrate	Comments
X Ground Water (1)	Solid (5)	TCA-009-PW-1
Surface water (2)	Liquid (6)	
Soil (3)	Sludge (7)	
Other (4)	Other (8)	

Organic Chemistry

Parameter	Results(mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
2,4-D	
2,4,5-TP	
chlordane	
heptachlor	
hexachlorbenzene	
hexachlorbutadiene	
endrin	
lindane	
methoxychlor	
toxaphene	

Inorganic Chemistry

Parameter	Results(mg/l)(~~mg/kg~~)
antimony	
X arsenic	< 0.001
X barium	0.10
beryllium	
X cadmium	< 0.005
chloride	
X chromium	< 0.01
cobalt	
X copper	< 0.05
fluoride	
X iron	1.09
X lead	< 0.005
manganese	
X mercury	< 0.0005
X nickel	< 0.01
nitrate	
X selenium	< 0.01
X silver	< 0.01
sulfates	
thallium	
vanadium	
X zinc	0.20
pH	
conductivity	
TDS	
Flash point	

TCLP Compounds

Inorganic Compounds	Results (mg/l)
Arsenic	
Barium	
Cadmium	
Chromium	
Lead	
Mercury	
Selenium	
Silver	

Organic Compounds	Results (mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1- dichloroethylene	
2,4-dinitrotoluene	
heptachlor	
hexachlorobenzene	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4,-D	
2,4,5-TP (Silvex)	

Date Received 11-08-01

Date Extracted

Date Analyzed

Reported by DJM

Date Reported 11-26-01

Lab Number 017127

DHS 3191(revised 12/93)

Department of Environment, Health, & Natural Resources
Solid Waste Management Division

REQUEST

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington St.
Raleigh, North Carolina 27611-8047

Site Number NCN000407205 Sample ID Number/Name 50714

Name of Site Tri-County Airport Collected By Melanie Bryson ID#

Site Location Aulander, Hertford Co, NC Date Collected 11/7/01 Time 15:25

Agency: ___ Hazardous Waste ___ Solid Waste ✓ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground Water (1)	___ Solid (5)	TCA-009-PW
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ arsenic	
___ barium	
___ cadmium	
___ chromium	
___ lead	
___ mercury	
___ selenium	
___ silver	

Organic Chemistry

Parameter	Results (mg/l)
___ P&T:GC/MS	
___ Acid:B/N Ext.	
___ 2,4-D	
___ 2,4,5-TP(Silvex)	
___ chlordane	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
___ antimony	
✓ arsenic	
✓ barium	
___ beryllium	
✓ cadmium	
___ chloride	
✓ chromium	
___ cobalt	
✓ copper	
___ fluoride	
✓ iron	
✓ lead	
___ manganese	
✓ mercury	
✓ nickel	
___ nitrate	
✓ selenium	
✓ silver	
___ sulfates	
___ thallium	
___ vanadium	
✓ zinc	
___ pH	
___ conductivity	
___ TDS	
___ flash point	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dichloroethylene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

FOR LAB USE ONLY
11-05-2001 317127

Date Received

Date Extracted

Date Analyzed

Reported By

Date Reported

ID Number

DS 3191 (Revised 12/93)

Health, & Natural Resources
Solid Waste Management Division

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington St.
Raleigh, North Carolina 27611-8047

Site Number NCN000407205 Sample ID Number/Name 21619

Name of Site Tri-County Airport Collected By Melanie Bryson ID# .

Site Location Aulander, Hertford Co., NC Date Collected 11/7/01 Time 15:25

Agency: ___ Hazardous Waste ___ Solid Waste ✓ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground Water (1)	___ Solid (5)	TCA-009-PW
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ arsenic	
___ barium	
___ cadmium	
___ chromium	
___ lead	
___ mercury	
___ selenium	
___ silver	

Organic Chemistry

Parameter	Results (mg/l)
✓ P&T:GC/MS	
___ Acid:B/N Ext.	
___ 2,4-D	
___ 2,4,5-TP(Silvex)	
___ chlordane	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
___ antimony	
___ arsenic	
___ barium	
___ beryllium	
___ cadmium	
___ chloride	
___ chromium	
___ cobalt	
___ copper	
___ fluoride	
___ iron	
___ lead	
___ manganese	
___ mercury	
___ nickel	
___ nitrate	
___ selenium	
___ silver	
___ sulfates	
___ thallium	
___ vanadium	
___ zinc	
___ pH	
___ conductivity	
___ TDS	
___ flash point	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dichloroethylene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

FOR LAB USE ONLY

Date Received NOV 08 2001

Date Extracted

Date Analyzed 11-14-01 TG

Reported By

Date Reported

Lab Number 016323

LS 3191 (Revised 12/93)

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

SOIL BLANKS

PURGEABLE COMPOUNDS	LAB NO	016308	016309	016323	016324	016325	016326
	FIELD NO	21604	21605	21619	21620	21621	21622
COMPOUND	TYPE	(3)	(3)	(1)	(1)	(2)	(2)
	MDL (ppb)	ppb ppm	ppb ppm	ppb ppm	ppb ppm	ppb ppm	ppb ppm
CHLOROMETHANE	2.0	u	trace[c]	u	u	u	u
VINYL CHLORIDE	↓	↓	u	↓	↓	↓	↓
BROMOMETHANE	↓	↓	↓	↓	↓	↓	↓
CHLOROETHANE	↓	↓	↓	↓	↓	↓	↓
TRICHLOROFLUOROMETHANE	↓	↓	↓	↓	↓	↓	↓
1,1-DICHLOROETHENE	0.5	↓	↓	↓	↓	↓	↓
ACETONE	2.0	↓	69.5[J]	↓	↓	56.8[J]	65.4[J]
IODOMETHANE	0.5	↓	u	↓	↓	u	u
CARBON DISULFIDE	↓	↓	↓	↓	↓	↓	↓
METHYLENE CHLORIDE	↓	↓	↓	↓	↓	↓	↓
ACRYLONITRILE	↓	↓	↓	↓	↓	↓	↓
TRANS-1,2-DICHLOROETHENE	↓	↓	↓	↓	↓	↓	↓
METHYL-t-BUTYL-ETHER	↓	↓	↓	↓	↓	↓	↓
1,1-DICHLOROETHANE	↓	↓	↓	↓	↓	↓	↓
ISOPROPYL ETHER	↓	↓	↓	↓	↓	↓	↓
CIS-1,2-DICHLOROETHENE	↓	↓	↓	↓	↓	↓	↓
2-BUTANONE	2.0	↓	↓	↓	↓	↓	↓
TETRAHYDROFURAN	↓	↓	↓	↓	↓	↓	↓
CHLOROFORM	0.5	↓	↓	↓	↓	↓	↓
1,2,1-TRICHLOROETHANE	↓	↓	↓	↓	↓	↓	↓
CARBON TETRACHLORIDE	↓	↓	↓	↓	↓	↓	↓
BENZENE	↓	↓	↓	↓	↓	↓	↓
1,2-DICHLOROETHANE	↓	↓	↓	↓	trace	↓	↓
TRICHLOROETHENE	↓	↓	↓	↓	u	↓	↓
1,2-DICHLOROPROPANE	↓	↓	↓	↓	↓	↓	↓
DIBROMOMETHANE	↓	↓	↓	↓	↓	↓	↓

trace = present but below MDL

C - Possible lab contamination or background
J - Estimated value
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
NA - Not analyzed.
1/ - Tentative identification.
D - SAMPLE DILUTED. MDL'S DO NOT APPLY.

(6)

STATE LABORATORY OF PUBLIC HEALTH
PO BOX 28047 - 306 N. WILMINGTON ST., RALEIGH, NC 27611

ORGANIC CHEMICAL ANALYSIS

SOIL BLANK

PURGEABLE COMPOUNDS	LAB NO	016308	016309	016323	016324	016325	016326
	FIELD NO						
COMPOUND	TYPE	(3)	(3)	(1)	(1)	(2)	(2)
	↓ MDL (ppb) ↓	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm	(ppb) ppm
ROMODICHLOROMETHANE	0.5	u	u	u	u	u	u
CIS-1,3-DICHLOROPROPENE		↓	↓	↓	↓	↓	↓
METHYL-2-PENTANONE		↓	↓	↓	↓	↓	↓
TOLUENE		0.5	trace	↓	↓	24.2	15.4
ANS-1,3-DICHLOROPROPENE		u	u	↓	↓	u	u
1,1,2-TRICHLOROETHANE		↓	↓	↓	↓	↓	↓
TRACHLOROETHENE		↓	↓	↓	↓	↓	↓
2-HEXANONE		↓	↓	↓	↓	↓	↓
BROMOCHLOROMETHANE		↓	↓	↓	↓	↓	↓
ETHYLENE DIBROMIDE		↓	↓	↓	↓	↓	↓
LOROBENZENE		↓	↓	↓	↓	↓	↓
1,1,1,2-TETRACHLOROETHANE		↓	↓	↓	↓	↓	↓
HYL BENZENE		↓	↓	↓	↓	↓	↓
LENES		↓	trace	↓	↓	↓	↓
YRENE		↓	u	↓	↓	↓	↓
OMOFORM		↓	↓	↓	↓	↓	↓
1,1,2,2-TETRACHLOROETHANE		↓	↓	↓	↓	↓	↓
3-TRICHLOROPROPANE		↓	↓	↓	↓	↓	↓
1,4-DICHLOROBENZENE		↓	↓	↓	↓	↓	↓
DICHLOROBENZENE	↓	↓	↓	↓	↓	↓	↓
1,2,-DIBROMO-3-CHLOROPROPANE	2.0	↓	↓	↓	↓	↓	↓

trace = present but below MDL

- Possible lab contamination or background.
- Estimated value
- Actual value is known to be less than value given.
- Actual value is known to be greater than value given.
- Material was analyzed for but not detected. The number is the Minimum Detection Limit.
- Not analyzed.
- Tentative identification.
- SAMPLE DILUTED. MDL'S DO NOT APPLY.

Health, & Natural Resources
Solid Waste Management Division

State Laboratory of Public Health
P.O. Box 28047, 306 N. Wilmington St.
Raleigh, North Carolina 27611-8047

Site Number NCN000407205 Sample ID Number/Name 21627

Name of Site Tri-County Airport Collected By Melanie Bryson ID#

Site Location Aulander, Hertford Co, NC Date Collected 11/7/01 Time 15:25

Agency: ___ Hazardous Waste ___ Solid Waste ✓ Superfund

Sample Type

Environmental	Concentrate	Comments
✓ Ground Water (1)	___ Solid (5)	TCA-009-PW
___ Surface Water (2)	___ Liquid (6)	
___ Soil (3)	___ Sludge (7)	
___ Other (4)	___ Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
___ arsenic	
___ barium	
___ cadmium	
___ chromium	
___ lead	
___ mercury	
___ selenium	
___ silver	

Organic Chemistry

Parameter	Results (mg/l)
___ P&T:GC/MS	
✓ Acid:B/N Ext.	
___ 2,4-D	
___ 2,4,5-TP(Silvex)	
___ chlordane	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ endrin	
___ lindane	
___ methoxychlor	
✓ toxaphene	
✓ Pesticides	
✓ Malathion	

Inorganic Chemistry

Parameter	Results(mg/l)(mg/kg)
___ antimony	
___ arsenic	
___ barium	
___ beryllium	
___ cadmium	
___ chloride	
___ chromium	
___ cobalt	
___ copper	
___ fluoride	
___ iron	
___ lead	
___ manganese	
___ mercury	
___ nickel	
___ nitrate	
___ selenium	
___ silver	
___ sulfates	
___ thallium	
___ vanadium	
___ zinc	
___ pH	
___ conductivity	
___ TDS	
___ flash point	

Organic Compounds	Results(mg/l)
___ benzene	
___ carbon tetrachloride	
___ chlordane	
___ chlorobenzene	
___ chloroform	
___ o-cresol	
___ m-cresol	
___ p-cresol	
___ cresol	
___ 1,4-dichlorobenzene	
___ 1,2-dichloroethane	
___ 1,1-dichloroethylene	
___ 2,4-dichloroethylene	
___ heptachlor	
___ hexachlorobenzene	
___ hexachlorobutadiene	
___ hexachloroethane	
___ methyl ethyl ketone	
___ nitrobenzene	
___ pentachlorophenol	
___ pyridine	
___ tetrachloroethylene	
___ trichloroethylene	
___ 2,4,5-trichlorophenol	
___ 2,4,6-trichlorophenol	
___ vinyl chloride	
___ endrin	
___ lindane	
___ methoxychlor	
___ toxaphene	
___ 2,4-D	
___ 2,4,5-TP (Silvex)	

FOR LAB USE ONLY

Date Received NOV 08 2001

Date Extracted BNA 11-8-01 KM PEST 11-13-01 VP

Date Analyzed PEST 11-13-01 VP BNA 11-13-01 BQ

Reported By

Date Reported

Lab Number 016331

IS 3191 (Revised 12/93)

(5)

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	016320	016321	016322	016331	016332	016333
	FIELD #	21616	21617	21618	21627	21628	21629
COMPOUND	TYPE	(3)	(3)	(3)	(1)	(1)	(2)
	UNITS	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	µg/l ~~µg/kg~~	µg/l ~~µg/kg~~	µg/l ~~µg/kg~~
N-nitrosodimethylamine	10/330	U	U	U	U	U	U
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene							
hexachlorobutadiene							
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,5-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene	↓						
2,4-dinitrophenol	50/1650						
2,4-dinitrotoluene	10/330						
4-nitrophenol	50/1650						
fluorene	10/330						
4-chlorophenylphenylether	↓						
diethyl phthalate	↓						
4,6-dinitro-o-cresol	50/1650						
diphenylamine	10/330						
azobenzene	↓						
4-bromophenylphenylether	↓						
hexachlorobenzene	↓						
pentachlorophenol	50/1650						
phenanthrene	10/330						
anthracene	↓						
dibutyl phthalate	↓	✓	✓	✓	✓	✓	✓
fluoranthene	↓	✓	✓	✓	✓	✓	✓

MDL
H_2O/SOIL

- Estimated value.
- Actual value is known to be less than value given.
- Actual value is known to be greater than value given.
- Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
- Not analyzed.
- Tentative identification.
- On NRDC List of Priority Pollutants.

(6)

STATE LABORATORY OF PUBLIC HEALTH

P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	016320	016321	016322	016331	016332	016333
	FIELD #	21616	21617	21618	21627	21628	21629
COMPOUND	TYPE	(3)	(3)	(3)	(1)	(1)	(2)
	UNITS	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	~~µg/l~~ µg/kg	µg/l ~~µg/kg~~	µg/l ~~µg/kg~~	µg/l ~~µg/kg~~
pyrene	10/330	U	U	U	U	U	U
benzidine	50/1650						
butyl benzyl phthalate	10/330						
benz(a)anthracene	↓						
chrysene							
3,3-dichlorobenzidine	50/1650						
bis(2-ethylhexyl)phthalate	10/330						
di-n-octyl phthalate	10/330						
benzo(b)fluoranthene	50/1650						
benzo(k)fluoranthene	↓						
benzo(a)pyrene							
indeno(1,2,3-cd)pyrene							
dibenzo(a,h)anthracene							
benzo(g,h,i)perylene							
aniline	50/1650						
benzoic acid	↓						
benzyl alcohol							
4-chloroaniline							
dibenzofuran	10/330						
2-methylnaphthalene	↓						
2-methylphenol							
4-methylphenol							
2-nitroaniline	50/1650						
3-nitroaniline	↓						
4-nitroaniline							
2,4,5-trichlorophenol		✓	✓	✓	✓	✓	✓

MDL

H=0/501L

J - Estimated value.
K - Actual value is known to be less than value given.
L - Actual value is known to be greater than value given.
U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
NA - Not analyzed.
1/ - Tentative identification.
2/ - On NRDC List of Priority Pollutants.

N.C. DEPARTMENT OF HEALTH AND HUMAN SERVICES
STATE LABORATORY OF PUBLIC HEALTH
P.O.BOX 28047, RALEIGH, N.C. 27611
GAS-LIQUID CHROMATOGRAPHY REPORT SHEET

PROJECT: TRI-COUNTY AIRPORT DATE OF ANALYSIS: 11/13-16/2001

Results in PPM

SAMPLE #	Type	Toxaphene	Methyl Parathion	DDE	DDD	DDT	Permethrin	Cypermethrin	Fenvalerate
016331	Water	ND	ND	ND	ND	ND	ND	ND	ND
016332 [2]	Water	ND	ND	ND	ND	ND	ND	ND	ND
016333 [3]	Water	ND	ND	<0.0001 [1]	<0.0001 [1]	ND	ND	ND	ND
016334 [3]	Water	ND	ND	<0.0001 [1]	<0.0001 [1]	ND	ND	ND	ND
016335	Water	ND	ND	ND	ND	ND	ND	ND	ND
016336	Water	ND	ND	ND	ND	ND	ND	ND	ND

Comments: 1000 mls water extracted, analyzed by GC/MS Analysis. Estimated Detection Limits (EDL) =0.0001 ppm based on lowest standard injected.
[1] Levels below EDL/MDL detected. [2] Heptachlor Epoxide below EDL/MDL detected. [3] Hydrocarbons possible.

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