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Atlanta, GA 30318 • (404) 352-4147 • FAX (404) 352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

MEMORANDUM

TO: Shane Hitchcock, OSC
EPA, Region IV

FROM: Phil Henderson
TAT Region, IV

THRU: Conley B. Phifer CBP
TATL, Region IV

SUBJECT: Final Report, Basket Creek Drum Disposal Site
Douglasville, Douglas County, Georgia
TDD# 04-9003-10-3110
TAT# 04-F-03962

DATE: 02 May 1990

SITUATION

This report has been prepared in accordance with the requirements of Technical Direction Document (TDD) 304-9003-10, assigned to the Roy F. Weston Inc., Technical Assistance Team (TAT) Atlanta office by Region IV of the U.S. Environmental Protection Agency (EPA).

The initial requirements of this TDD, issued by OSC Shane Hitchcock, were to collect and review existing file material on the site, conduct a PRP search, obtain site access, conduct a site inspection and prepare a sampling plan. The final requirement of this TDD was to conduct a geophysical survey of the drum disposal area and conduct a sampling investigation at both the drum disposal area and the former surface impoundment. The first part of this report includes a summary of relevant backgound material on the site, results of the site inspection, and a proposed sampling plan. The second part of this report summarizes the geophysical and sampling investigations.

BACKGROUND

In 1976, waste oil and solvents were illegally disposed of by Young Refinery Corporation of Douglasville, Georgia. The waste was dumped at two locations off Basket Creek Road on the property of Lee Wallace. The site came to the attention of Georgia EPD when the Douglas County Sanitarian reported an incident of illegal dumping. The Sanitarian noted two tractor trailers pulled up next to a ravine adjacent to Basket Creek Road. One of the trailers had dumped 80 drums into the ravine and a bulldozer was covering them with fill. The sanitarian prevented the second tractor trailer from dumping. Georgia EPD came out the next day and collected two half gallon samples from two of the remaining 80 drums. One sample contained 50 percent ortho chlorophenol. State records indicated that Young Refinery accepted waste from various industries for disposal or resale. The company is believed to have disposed of refinery wastes, amines, phenols, chloroform, acetone, and trichloroethane. It is presumed that these chemicals are present in the buried drums.

EPD also discovered that an unlined surface impoundment had been constructed about 1000 feet north of the drum disposal area. Young Refinery was dumping drums of waste oil and solvents into this impoundment, allowing the wastes to evaporate and/or percolate into the soil. EPD required Young Refinery to dispose of the 80 remaining drums elsewhere and the surface impoundment to be backfilled. Fines were levied against Young Refinery, the waste hauler, and the property owner, Mr. Lee Wallace.

In October of 1985, Georgia EPD conducted a Site Inspection of the former surface impoundment. A number of samples were collected. A background soil, downgradient soil, and a composite soil sample from the impoundment were collected. A water sample was collected from the nearest private well (75 ft. from impoundment) and a surface water sample was collected from a spring 600 ft. downgradient of the impoundment. The only sample showing any contamination was the composite subsurface soil sample collected from the impoundment. This sample contained 300 mg/kg benzene, 62,000 mg/kg methyl ethyl ketone, 1740 mg/kg trichloroethylene, 5700 mg/kg ethyl benzene, 51,000 mg/kg total xylenes, 75,000 mg/kg toluene, 2,400 mg/kg tetrachloroethane, 177,000 mg/kg acetone 22,100 mg/kg methyl isobutyl ketone, 4.24 mg/kg PCB and a number of other organic compounds that were dectected in the low parts per million range. EP Toxicity tests for leachability of metals detected 12,000 ug/l lead and 120 ug/l cadmium.

Georgia EPD considered the drum disposal area as a separate site. In 1985-1986 there was no residence located next to this disposal area. No file material was found indicating that EPD pursued any additional investigation of this site. It should be noted that a 1985 EPD trip report indicates that there was a third disposal area used by Young Refinery on Wallace Lake Road (presumably owned by Lee Wallace). This site consisted of disposal trenches. Arivec

Chemicals (located in Douglasville next to Young Refinery) also was reported to have dumped at this site. This site was closed out in 1969-1970. According to the EPD 1985 trip report, this site was now being used as a pasture. Wallace Lake Road is located about 1/4 mile southeast of the Douglasville City limits. A site investigation of this area may be warrented under a separate TDD.

When interviewed by EPD in 1976 Mrs. Lee Wallace stated that Young Refinery was not given permission to dump drums on their property. She then stated that Arivec Chemicals had been given permission to dump some old empty drums in the ravine, and that they had been covered up.

In May of 1989, NUS Corporation conducted Phase I of a Screening Site Inspection at the Basket Creek drum disposal area for the Site Investigation and support branch of EPA. This inspection was limited to a review of existing file material, completion of a target survey and an offsite reconaissance of the site. The site did not score high enough using the hazard ranking system to merit sampling. The offsite reconniassance revealed that a home had been built next to the drum disposal area and that the resident was obtaining drinking water from a private well. Due to the waste characteristics and the proximity of the residence to the disposal area it was recommended that the Emergency Response, Removal Branch of EPA evaluate this site.

INSPECTION REPORT

On March 7, 1990 property records were obtained from the Douglas County Tax Assessors office for the Basket Creek Road disposal areas. A drive-by survey of the site was then conducted to verify what property(s) the disposal areas were located on. The drum disposal area was located on the property of Harriet Foster. Mrs. Foster was contacted and TAT was given verbal permission to come back later in the week and conduct a site inspection. Mrs. Foster purchased the property in 1987 from Ethyl Wallace. She was not aware that drums had been buried on the property until after she purchased it.

Mrs. Fosters house is located about 250 feet east of drum disposal area. Originally she had a well located directly behind her house. However, due to water quality problems (poor taste, odor) a second well was installed at the north end of her property. There were also water quality problems with this well. According to Mrs. Foster, they use the water for their livestock and for general household supply, but drink bottled water.

The property to the north was owned by Paula Parker. This property had the surface impoundment. The property downgradient of the drum disposal area was owned by the President of Southwire Corporation. Mrs. Parker was contacted by phone and access to her property was granted. The Environmental Control Officer for Southwire Corporation was also contacted and permission was granted to go on this property.

A surface water and a sediment sample will be collected from the spring downgradient of the drum disposal area. Three subsurface soil samples will be collected from locations within the drum disposal area. Depth of collection will be dependent on field observations, and readings from air monitoring instruments. If no indications of contamination are encountered the sample will be collected 12-15 feet below land surface near the bottom of the fill.

Two additional subsurface soil samples will be collected from the surface impoundment. State file material indicates the depth of this impoundment was 6-8 feet. The same criteria will be used for depth of collection at this disposal area.

Groundwater samples will be collected from the Foster's private well and the Parker's private well. At the OSC's discretion background soil and water samples will also be collected.

Based on past sampling data from the state it is recommended that Full Priority Pollutant Analysis be run on all samples.

GEOPHYSICAL SURVEY

On 26 March, 1990 a geophysical survey of the drum disposal area was conducted using an EM-31D Non-contacting Terrain Conductivity Meter and a Proton Magnetometer. The purpose of this survey was to confirm the presence of buried drums at this location and to help pinpoint subsurface soil sample locations.

Both instruments were calibrated in an undisturbed area approximately 200 feet south of the disposal area.Instrument readings were then recorded at this location to establish background conditions. The average background magnetic reading was 52,300 gammas and the background conductivity reading on the EM was 3.4 mmho/m (millimhos/meter).

The filled area was then gridded on 30 foot centers using a measuring tape and compass. Instrument readings were recorded at each station on field data sheets. This data was then hand contoured in the field and subsurface soil sample locations were selected for the following day.

Results of the magnetic survey indicate that there are two large positive magnetic anomalies that probably represent buried drums. There is also an area in the middle of the fill that has a large negative anomaly. It is believed that this area is underlain with brush and contains significant void spaces.

The EM Conductivity survey detected an area of higher conductivity coincident with the northern magnetic anomaly. A second area of higher conductivity was located in the southern half of the filled area. Higher conductivity at this location is probably related both

to the presence of drums and to increased water saturation of the fill material.

The raw data from both surveys was computor contoured using the "surfer" program to produce anomaly contour maps. These contour maps as well as the field data sheets are presented in attachment G.

SAMPLING INVESTIGATION

On March 26, and 27, environmental samples were collected at the site. Actual sample locations are shown in figure 3. The only significant deviation from the proposed sampling plan was the elimination of two subsurface soil samples from the drum disposal area. Augering in the southwest portion of the filled area coincident with the large magnetic anomally was difficult due to the consistent presence of drums within four feet of the surface. At approximately 20 locations within this area drums were encountered. Since there were no readings on the air monitoring instruments above the drums and we were enable to penetrate below the drums it was decided to eliminate two subsurface soil samples. It should be noted that each of the auger holes a zone containing charcoal was encountered immediately above the drums.
This confirms statements made by the current property owner, that she had heard from neighbors that the drum disposal area burned for four days before the fire department was able to put it out.

CONCLUSIONS

Analytical results are summarized in table 1. The complete set of data is presented in attachment F. The most significant findings of the investigation were the extremely high levels of organic and inorganic contamination found in the two subsurface soil samples collected from the former surface impoundment.

The well sample collected downgradient of this impoundment showed low levels of two contaminants found in high concentrations within the impoundment. Trichloroethene, which was detected in the surface impoundment at a estimated concentration of 90,000 ug/kg was also found in the Foster's well at 5 ug/kg. The EPA Maximum Contaminant Level (MCL) in the drinking water standards is also 5 ug/kg. Mercury was also detected in the impoundment at a concentration of 3554 mg/kg and in the well at 1.45 ug/kg, which is just below the MCl of 2.0 ug/kg.

Low levels of mercury were also detected in the sediment and surface water samples collected downgradient of the drum disposal area. A number of other metals were also detected in the downgradient sediment sample as well as trace amounts of several solvents.

ATTACHMENTS

Figures 1-3, Maps and Sketches
A - Preliminary Assessment Form
B - Photographs
C - Log Notes
D - Table of Witnesses
E - Site Safety Plan
F - Analytical Data
G - Geophysical Data
H - Georgia EPD File
I - Property Ownership Information

TABLE 1

BASKET CREEK ANALYTICAL DATA

CHEMICALS	PW01	PW02	SW01	SB01	SB05	SB06	SD01
Aluminum (ppb)	101 C	117 C	148 C	36487.5(ppm)	23009.73(ppm)	17872.02(ppm)	13693.11(ppm)
Arsenic (ppm)				20.48	4.87	11.12	7.06
Barium (ppm)				157.75	58.15	103.14	34.33C
Beryllium (ppm)				1.50	0.24C	0.25C	0.78C
Cadmium (ppm)				5.00	6.33	17.57	2.86
Calcium(ppb)	5400	13500	1500 C	475(ppm)	48.66C(ppm)	100.38C(ppm)	234.07C(ppm)
Chromium (ppm)				49.75	312.90	192.97	35.37
Cobalt (ppm)				15.75		14.05	7.80
Copper (ppm)				42.50	34.06	63.49	15.34
Iron (ppb)	127	1016	613	49505(ppm)	59416.06(ppm)	157377.67(ppm)	32959.69(ppm)
Lead (ppm)				40.35	667.88	2579.67	8.87
Magnesium (ppb)	400 C	2900 C	1900 C	3150(ppm)	632.60C(ppm)	1405.27(ppm)	1170.35C(ppm)
Manganese (ppm)		.172	67(ppb)	232.25	98.30	41.41	113.65
Mercury (ppm)		1.45(ppb)	0.29(ppb)	0.12	38.20	3553.68	0.30
Nickel(ppm)				21.75	82.73	13.55	
Potassium (ppb)	1400 C	1600 C	1200 C	2750(ppm)	1046.23(ppm)	1355.08(ppm)	1092.33C(ppm)
Sodium (ppb)	5100	4500 C	1800 C	1650(ppm)	2068.13 (ppm)	5370.14(ppm)	1118.34C(ppm)
Vanadium (ppm)				106.50	30.90	47.43	45.51
Zinc (ppb)	31			94.75(ppm)	66.42(ppm)	156.34(ppm)	58.00 (ppm)
Cyanide (ppm)						1.49	
Methylene Chloride (ppb)	2BJ	2BJ	3BJ	17B			9B
Acetone (ppb)	4BJ	4BJ	2BJ	17B	890B (ppm)	1300B(ppm)	42B
2-Butanone (ppb)	6BJ	6BJ	5BJ	10BJ	890(ppm)		32B
1,2-Dichloroethene (ppb)		2J					
Trichloroethene (ppb)		5			90J(ppm)		
4-Methyl-2-Pentanone (ppb)				4BJ	1400(ppm)		
Tetrachloroethene (ppm)					120J	720	

TABLE 1

BASKET CREEK ANALYTICAL DATA

Toluene (ppm)					9300	11,000	
Ethylbenzene (ppm)					220J	170J	4J(ppb)
Xylene (ppm)					1300	1500	.015
1,1-Dichloroethane (ppb)							2J
1,1,2,2-Tetrachloroethane (ppb)			1J				4J
bis(2-Ethylhexyl)phthalate (ppb)	5BJ	5BJ	5BJ	480B	95000B	220,000BE	280BJ
Phenol (ppb)					4300J		
2-Chlorophenol (ppb)					1000J		
Isophorone (ppb)					1900J		
Naphthalene (ppb)					4200J	19000	
2-Methylnaphthalene (ppb)					1800J	8000J	
Dimethylphthalate (ppm)					10		
Di-n-butylphthalate (ppm)					21	5.9J	
Butylbenzylphthalate (ppm)					36B	41B	
Gamma - BHC (ppb)					240		
Heptachlor (ppb)					120		
Aldrin (ppb)					130		9.2
Aroclor - 1254 (ppb)					3400	2700	
Alpha Chlordane (ppb)							7.2J
Heptachlor Epoxide (ppb)			.068J				

B Compound was also detected in the associated blank.

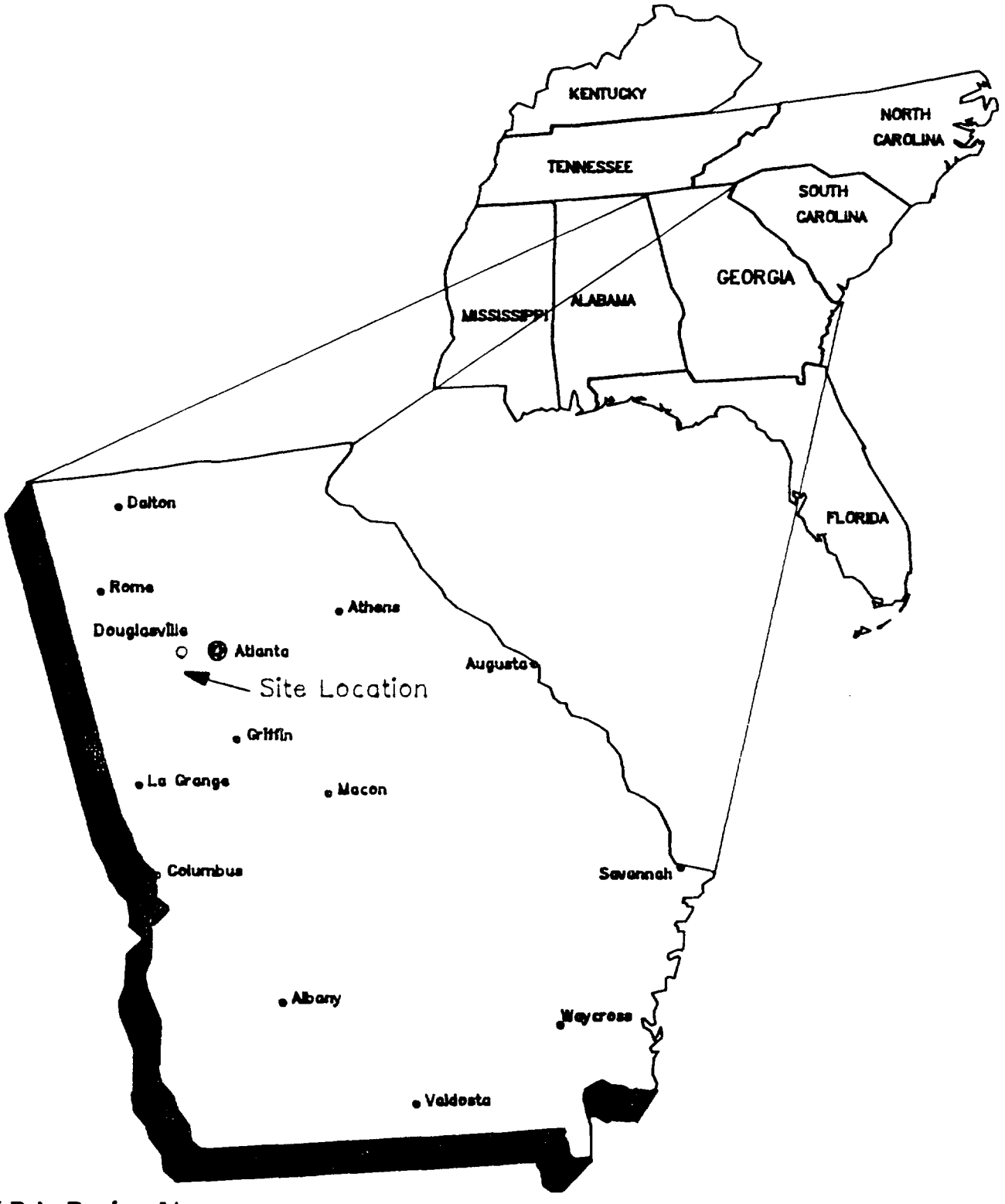
C Analysis result was less than the contract required detection limit, but greater than or equal to the instrument detection limit.

E estimated value, exceeded calibration limit.

J Estimated value, compound was detected below the detection limit.

FIGURE 1

GENERAL SITE LOCATION MAP

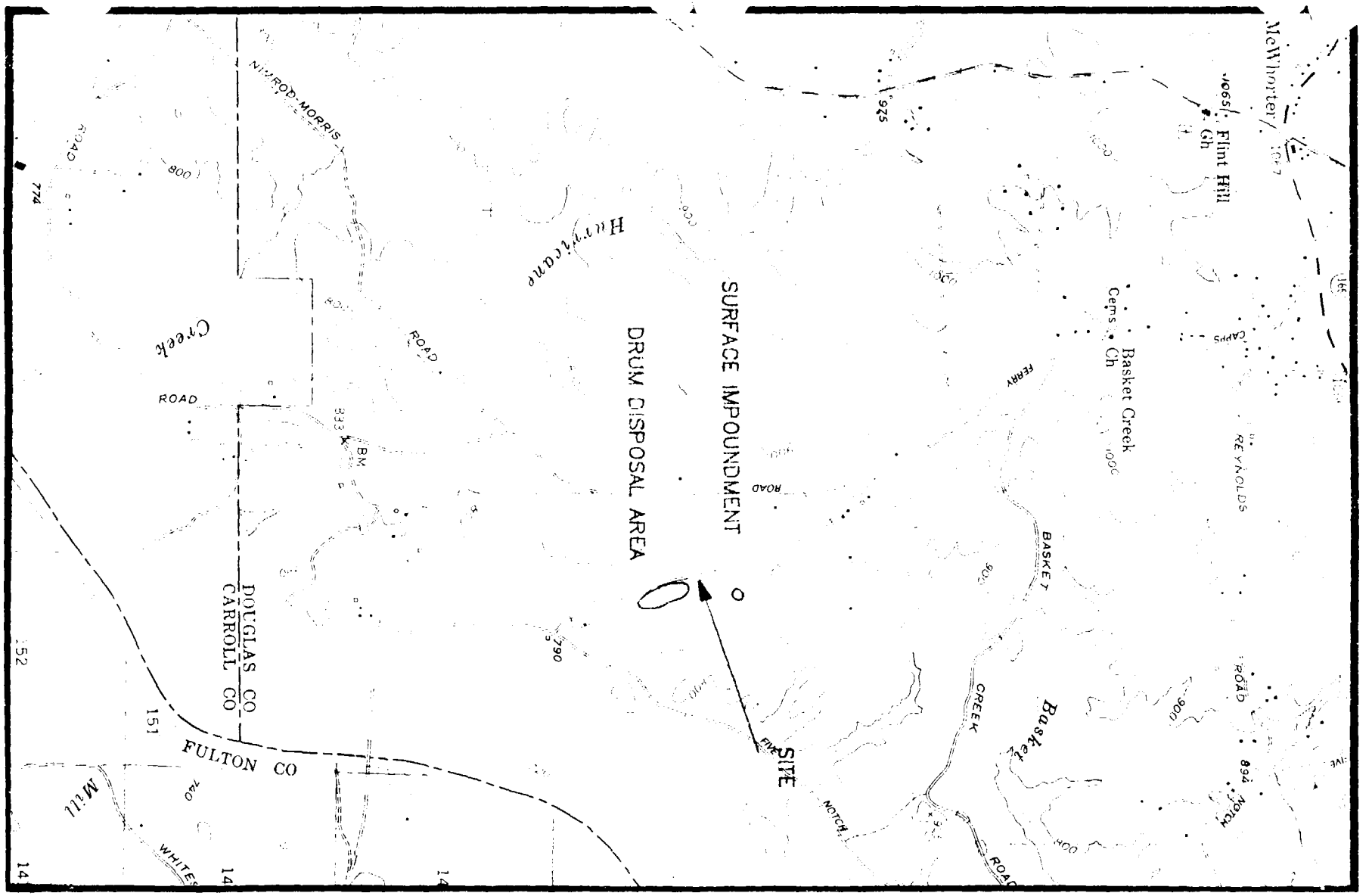


E.P.A. Region IV
Weston T.A.T. Activity Location
TDD No. 04-8912-10-2951
S and P Grading
Roswell, Fulton Co., Georgia

EPA

FIGURE 2

AREA LOCATION MAP



WESTON SPER Region IV TAT

TAT Activity Description: SITE LOCATION MAP

(RICO QUAD) DOUGLASVILLE, DOUGLAS CO., GA

SITE: BASKET CREEK DRUM DUMP

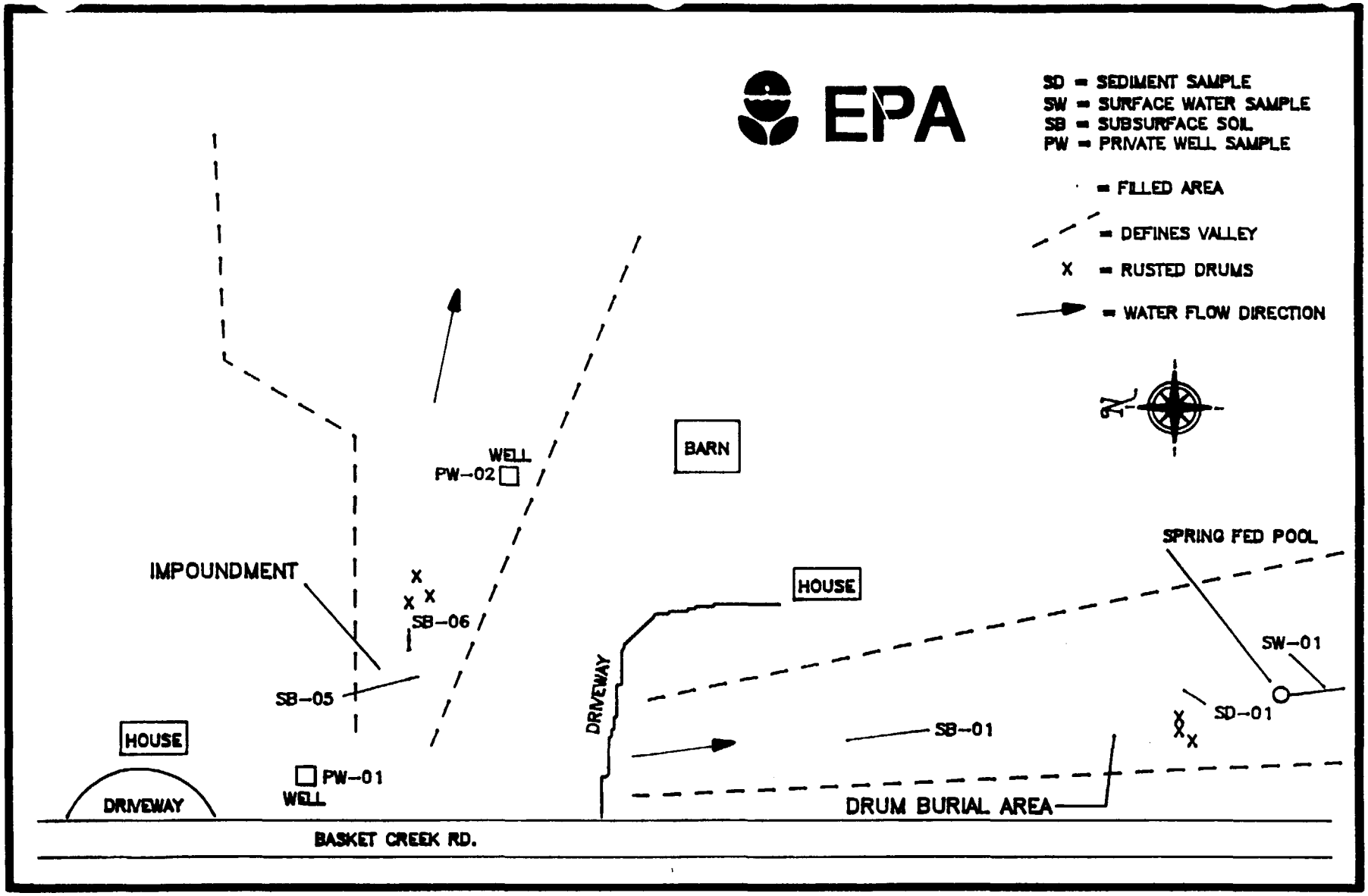
TDD NO.: 04-9003-10-3110

DATE: 06 APRIL, 1990

19 0016

FIGURE 3

SITE DIAGRAM



WESTON SPER Region IV TAT

TAT Activity Description: SAMPLE LOCATION MAP

DOUGLASVILLE, DOUGLAS CO., GA

SITE: BASKET CREEK DRUM DUMP

TDD NO.: 04-9003-10-3110

DATE: 30 MARCH 1990

ATTACHMENT A

PRELIMINARY ASSESSMENT FORM

USEPA REGION 4 EMERGENCY RESPONSE BRANCH
SITE ASSESSMENT REFERRAL FORM

SITE NAME: BASKET CREEK DRUM DISPOSAL SITE | **TDD No:** 04-9003-10

LOCATION: (ATTACH MAP) THE SITE IS LOCATED OFF BASKET CREEK ROAD IN DOUGLAS COUNTY GEORGIA

DESCRIPTION OF TAT INCIDENT RESPONSE: (Include Dates) : THIS SITE WAS REFERRED TO THE EMERGENCY RESPONSE BRANCH OF EPA BY THE SITE ASSESSMENT BRANCH. A PRELIMINARY INVESTIGATION CONDUCTED BY THE SITE ASSESSMENT BRANCH DETERMINED THAT THE BASKET CREEK SITE WOULD NOT SCORE HIGH ENOUGH USING THE HRS TO MERIT FURTHER WORK. A PA FORM AND HRS SCORE ARE ALLREADY ON FILE FOR THIS SITE.

LONG TERM CLEAN-UP GOALS:

SITE DESCRIPTION (ATTACH SITE LAYOUT MAP)

TYPE OF FACILITY:

KNOWN OR SUSPECTED HAZARDOUS SUBTANCES PRESENT ON SITE:

WASTE QUANTITY (Drums, Soils, Lagoons, etc...):

REGULATORY STATUS:

OWNER/LESSEE-NAME:

ADDRESS: | **PHONE:**

SITE CONTACT - NAME:

ADDRESS: | **PHONE:**

USEPA CONTACT - NAME: | **PHONE:**

TAT CONTACT - NAME: | **PHONE:**

TARGET INFORMATION

OBSERVED RELEASE TO ENVIRONMENT (Attach Sampling Data) | **YES:** | **NO:**

SURFACE WATER:

GROUNDWATER:

AIR:

SURFACE WATER

LOCATION OF NEAREST DOWNGRADIENT SURFACE WATER BODY (Lake, Stream, Ocean, etc...) [Show On Map]:

LOCATION OF SURFACE WATER INTAKE (Show On Map):

NUMBER OF PEOPLE SERVED:

CITY/COUNTY WATER SYSTEM CONTACTS:

NAME: | **PHONE:** | **NAME:** | **PHONE:**

ADDRESS: | **ADDRESS:**

RECREATIONAL USE (Boating, Fishing, Swimming,, etc...):

COMPUTERIZED FORM BY JGM

SITE ASSESSMENT REFERRAL FORM

SURFACE WATER (Cont...)

A' 'ILTURAL USE:

S VE ENVIRONMENTS (Wetlands, Endangered Species):

AT TO HUMAN FOOD CHAIN:

GROUNDWATER

CITY/COUNTY WATER SYSTEM CONTACTS:

NAME:	PHONE:	NAME:	PHONE:
ADDRESS:		ADDRESS:	

LOCATION OF WELLS:

DEPTH OF WELLS:

NUMBER OF PEOPLE SERVED:

PRIVATE WELL USE SURVEY (Number of homes within 0.5 miles of site) [Attach survey forms]:

KARST AQUIFER AREA (LIMESTONE/SINKHOLES):

ONSITE EXPOSE/DIRECT CONTACT

SITE ACCESS (Restricted, Unrestricted):

OCCUPIED BUILDINGS ON SITE: WORKERS ON SITE:

SCHOOLS/DAYCARE CENTERS WITHIN 0.5 MILES:

E RE PATHWAYS (Contamminated Soils, Lagoons, Drums, etc...):

POTENIAL FOR AIR RELEASE (Describe Known or Potenial Sources of Air Emmissions on Site):

OTHER COMMENTS

COMPUTERIZED FORM BY JGM

ATTACHMENT B

PHOTOGRAPHS

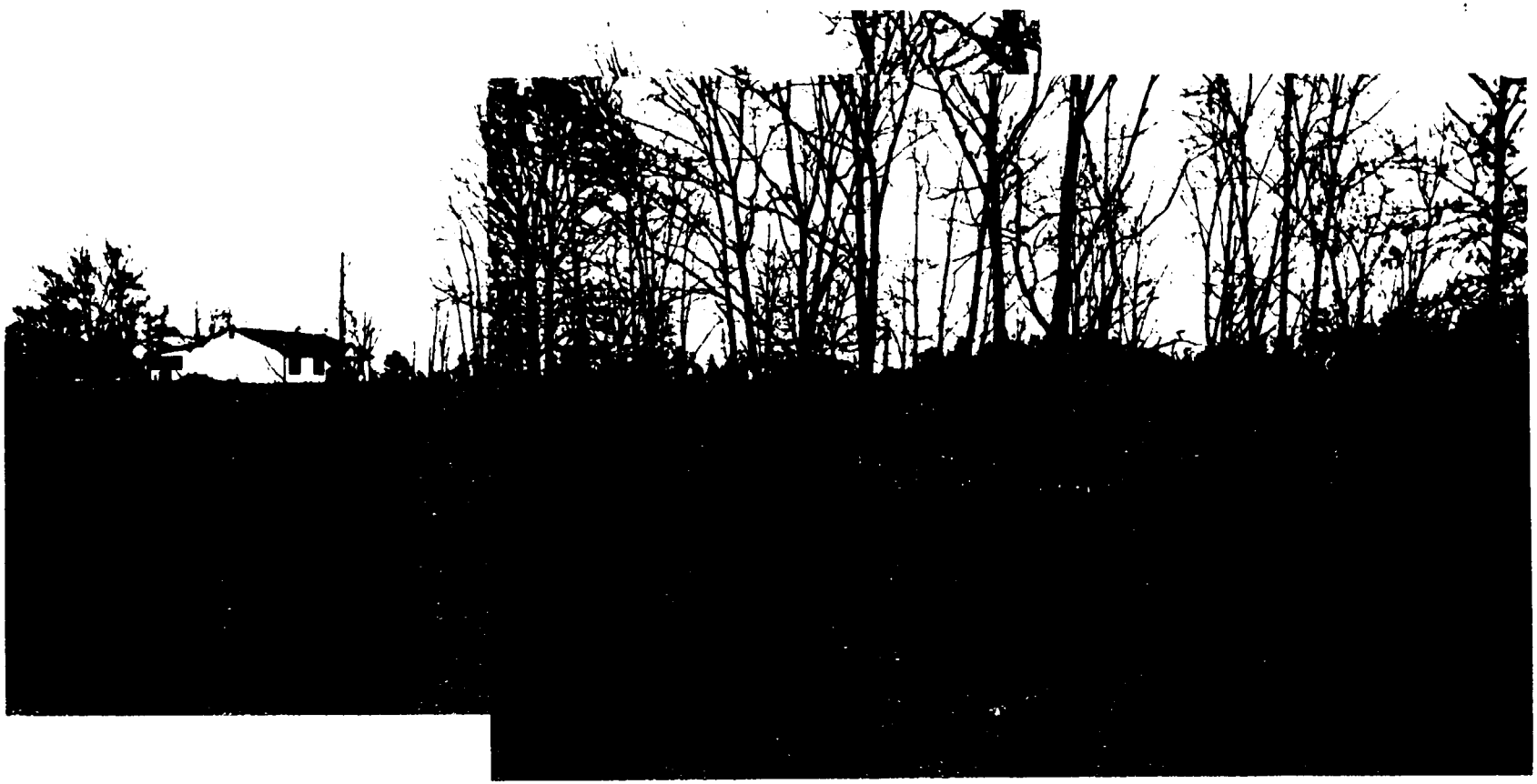


PHOTO NUMBER #1
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Foster residence with drum disposal area to the right, beyond trees.
Location: Basket Creek Drum Disposal Site Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1330
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

PHOTO NUMBER #2
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Looking back up toward filled ravine. (drum disposal area)
Location: Basket Creek Drum Disposal Site Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1350
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

PHOTO NUMBER #3
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Partially buried drums (empty) visible at south end of drum disposal ravine.
Location: Basket Creek Drum Disposal Site Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1355
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

PHOTO NUMBER #4
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Spring located approximately 300ft. below drum disposal area.
Location: Basket Creek Drum Disposal Site Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1400
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

PHOTO NUMBER #5
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Parker residence, with surface impoundment in second growth pines.
Location: Basket Creek Drum Disposal Site Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1415
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

PHOTO NUMBER #6
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Empty drums below surface impoundment.
Location: Basket Creek Drum Disposal Site Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1420
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

ATTACHMENT C

LOG NOTES

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Tues Mar 6, 1990. 0730 Arrive at Weston. Start work on the Basket Creek Drum Burial site PCS 3110. Site Assm Branch of EPA referred this site to us. 1000 meet with Mario Villamarzo GA State project officer (EPA Site Assm Branch) and obtain permission to review File on the Basket Creek site. Spend afternoon reviewing file material. Leave Weston at 1630. Phillip Henderson 3/6/90

Wed Mar 7, 1990 - 0800 Arrive at Weston. Spend morning reviewing Basket Creek File material. 1100 Drive to Douglasville County TAX Assors Office to verify current ownership of site property.

☆ Note - NUS FIT did a Phase I SSI, limited to off site recon of site + target survey at the Basket Creek drum disposal site. Due to lack of targets this site did not score high enough to merit further action. The State (GA EPD) conducted a Site Inspection in 1986 of the Basket Creek Buried Pit site 2. This report was on a surface impoundment

where drums of waste solvents were dumped about 1000 ft north of ravine, where drums were dumped. The state files contain reference material dating back to 1976 when the state orginally became inuplved with this site. A total of 3 sites are mentioned in this report. The 3rd was located on Wallace Lake Rd in Douglas County. The two previously mentioned sites impdnt & drum disposal area ~~where~~ were so close together access information will be obtained for both.

1130 arrive at tax assessors office. Obtain property information

1300 Drive out to site to verify property information obtained at tax assessors office. Drum disposal area located on the Property of Mrs Harriet Foster of 7840 Basket Creek Rd. Mrs Foster observed me looking at her property from road. I then drove up to her house to explain who I was, what I was doing.

Mrs Foster bought the property from Ethyl Wallace ~~sou~~ in May of 1987. Mrs Wallace is

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Wallace is

the widow of Lea Wallace who in 1976 allowed Young Refinery of Douglasville to dump waste oil + solvents on this property.
Mrs Foster was not informed of the buried drums when she purchased the property.
Her son used bulldozer to fill in ravine + they ~~haulde~~ PF hauled several loads of tires out of ravine.
Originally had well located directly behind house. (House is ~ 150 ft east of ravine w/ drums). Water tasted bad so they moved well into valley to the NE. Still have problems with water quality, they drink bottled water + use well water for showering etc. 2nd well location is downgradient of surface impdmt.
Mrs Foster has barn w horses behind house. One of their horses got loose and went grazing in former drum disposall area. Horse got sick, Vetrinarian said it had probably been poisoned.
I told Mrs Foster that we would like to come

out and inspect the ravine on thursday or friday. She gave me permission to do this.

1430 Arrive back at Weston Office Called Mrs Paula Parker who owns property to North of Mrs Foster. This property has surface impoundment on it. Mrs Parker gave me permission to go on her property for site inspection thurs or Fridays.

1510 – Mrs Foster stated that Southwire Corp owns property downgradient of Ravine. I called up Southwire Corp + talked to their Environmental Control officer – Joel Dicks. The president of Southwire owns this land, it is used as a private hunting club. May be developed into a refreat. Mr Dicks gave me permission to go on this property during our inspection. I told him I would contact him again and let him know what I saw and whether we would want to collect any samples on their property.

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Summary of Access Info

Harriet Foster
7840 Basket Cr Rd
Douglasville GA 30135
Phone 489-2515
— Drum Disposal Area.

River Junction Lands (Southwire)
Contact Joel Dicks
Phone (404) 832-4242

Paula Parker
7768 Basket Creek Rd
Douglasville GA 30135
Phone 489-1281
— Surface Impoundment

1700 - Leave office for Home —
Phillip Henderson 3/7/90
Thurs March 8, 1990. 0730 Arrive at Weston. Spend day working on Admin tasks, Leave office at 1630, Phillip Henderson 3/8/90
Friday Mar 9, 1990 - Arrive at Weston 0700. Spend morning making pH copies of Site Assm/Referal ~~letter~~ Form, example, + cover letter sent copies to Satellite, TAT offices in Memphis + Louisville.
1200 Load out EPA 1086 to conduct site inspection at Basket Cr.
1330 Arrive at Harriet Fosters residence Weather is clearing, cloud cover breaking up, tem ~ 50°F with

light breeze. Begin inspection north of ravine in Hardwood Calc trees. According to Mrs Foster County altered drainage on Basket Cr road such that increased runoff goes into ravine. Standing water noted between hardwood trees and filled ravine where drums dumped. Dimensions of filled area ~ 600-700 ft N-S and ~ 350 feet east-west. Entire filled area is traversed (except for several thick briar patches) No drums visible on surface. Only scrub vegetation + briars growing on fill. Surface cracks noted near SW corner of fill. No readings above bkgrd on HNU, CGI or OVA. Filled area ends abrupthy with natural valley/ trees below. Looking back up - estimated that depth of fill is 15 ft in center of valley. Several empty drums below southern edge of fill. One of them is labeled "trichloroethane". Minor rust staining on valley floor immediately below filled area. No leachate visible Aprox 300 feet from end of filled area a spring

... Hardwood
... Mrs
... drainage
... such that
... ter noted
... rees, and
... drums
... of filled.
... N-S and
... t. Entire
... aversed (except
... briar patches)
... n surface.
... + briars
... urface
... r SW corner
... s above
... or OVA.
... bruptly with
... es below.
... stimated
... ll is 15 ft
... alley. Several
... southern
... of them,
... roethane.
... ing on
... ediately below
... eachate visible
... em and
... a spring

emerges. Hole ... several feet wide. No labor visible in spring no road ... or air mon equip. ... + bullfrog observed ... for ~200 yds farther down tires are scattered in valley but no additional drums seen.

1420. Walk from Mrs Fosters driveway north to Mrs Parkers home where surface impoundment was located. A top of hill between homes, area visible where fill dirt was taken to be used in ravine.

1430 - Announce our arrival to Mrs Parker + request permission to go on property. Surface impoundment is located ~75 ft South west of Mrs Parkers trailer. This area is currently grassed over. No waste is visible. Dense briar patch along western part of impoundment. Dimensions ~100 ft x 250 ft. Below this briar patch 7 empty drums. Impoundment located at head of natural drainage path. Mrs Fosters well is located ~400 ft downgradient from impoundment.

Mrs Parker also has well

that is located aprox
100 ft west of impoundment.
* Note some outcrop visible
in immed site vicinity
Saprolite schist. Foliation
appears to be dipping ~60%
towards east.
1520 - Leave site + drive back to
office.
~~Phil~~ 1630 - Finish unloading van and
depart for home. Phillip Henderson
3/19/90

Mon ~~April~~ March 12, 1990 - 0800 Arrive at Weston.
Spend day working on site
Inspection Report for Basket
Creek Drum Burial Site RCS 3110
Leave Weston 1700
~~Tues March 13, 1990~~ Phillip Henderson 3/12/90
Tues March 13, 1990 - 0750 Arrive at Weston
Spend day working on Site Inspection
Report for Basket Creek. Leave
Weston 1630. Phillip Henderson 3/13/90
Wed March 14 1990 - 0800 Arrive at
Weston. Spend Morning doing
Freelance drawing of Maps
for Basket Creek. Spend afternoon
loging photo's and preparing
safety plan for next week
sampling at Basket Cr 3110.
~~Thurs~~ March 15 → Friday March 16
Vacation.

Mon March 19, 1990 - 0800 Arrive a Weston,
Spend day working on the

[illegible]

[illegible] Phillip Henderson

[illegible] at Weston, [illegible] site [illegible] basket [illegible] PCS 3110 [illegible] 3/12/90 [illegible] arrive at Weston [illegible] Site Inspection [illegible] leave [illegible] Henderson 3/12/90 [illegible] arrive at [illegible] doing [illegible] Map [illegible] [illegible] preparing [illegible] at week [illegible] at Cr 3110. March 16

[illegible] a Weston, [illegible] on the

proposed sampling plan [illegible] basket Creek PCS 3110. [illegible] Phillip Henderson [illegible]

Tues March 2[illegible] 1990 [illegible] Weston [illegible] basket Creek [illegible] review process. Leave Weston 1700 Phillip Henderson [illegible]

Wed March 2[illegible] 1990 - 0730 Arrive at Weston. Work on Administrative tasks. Leave Weston 1630 Phillip Henderson 3/21/90

Thurs March 22 - Friday March 23 - [illegible]

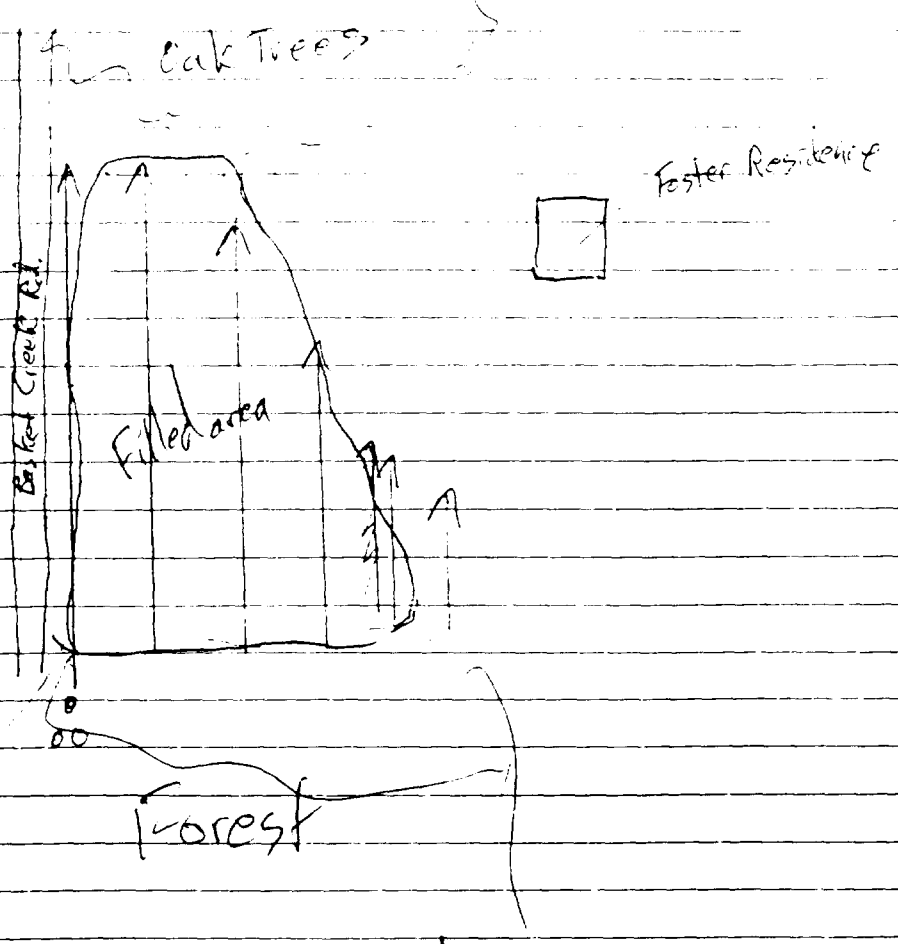
Mon March 26 1990 - 0700 arrive at Weston. Spend AM conducting Administrative Tasks. 1300-1700 Prepare equipment load out list for sampling tomorrow at Basket Creek PCS 3110. Phillip Henderson 3/26/90

Tues March 27 1990 - 0730 arrive at Weston. Load out EPA 1086 with sampling equipment for Basket Creek. Calibrate air monitoring equipment.

1030 - Arrive at site, begin calibrating geophysical instruments. Instruments calibrated in forested area on 200ft south of fill and 100 ft east of Basket Creek Road. Background magnetic readings were between 5237.

gammas and 52,286 gammas
Average value 52,306 gammas
Average background conductivity
reading for the EM-31 was
3.4 mmho/m.

Geophysical survey started in
SW corner of filled area.
Station 0,0 ~ 30 ft South of
end of fill and 15 feet
east of road.



Instrument readings were
recorded at 30 foot intervals.

6 lines were traversed in a North-South direction. Spacing between lines was also 50 ft. Readings were recorded on field data sheets.

1320 - Geophysical survey completed.

1340 - SB-01 collected at toe of filled area. Small pools of water along drainage path. Not flowing now. Water has irredescent sheen on it. Faint solvent smell noted while collecting this sediment sample. No reading above background on HNU or OVA.

1400 - Water sample collected ~ 200 ft below spring pool. Pool has silted up since inspection probably occured during Atlanta areas 7 inch rain fall last friday. Water appears clean, no readings above bkgrd on HNU or OVA. Frog seen in stream next to sample collection location.

1415 - Break for lunch. Called TAT Joanna Cole for lab info. Samples will be taken to Ecotek, phone 244-0827, contact Mark Broxton. Called Mr Broxton, arranged to bring samples by lab at 1830.

1435 - Arrive at Parkers residence. Start water running at well

~ 75 gal reservoir tank.

1500 Collect well sample PW-01. No readings above bkgrd on air monit. instruments (HNU + OVA). Water is clear.

1520 - Collect subsurface soil sample SB-05 from former surface impoundment. Location ~400 ft east of road - area of briars and young second growth pines. All TAT members dressed out in level C. Reading 500 ppm HNU, + 650 ppm OVA in auger hole. Up to 200 ppm 1-2 ft above hole. ~5 ppm in breathing zone. Sample collected 12-18 inches below surface. Soil went from ~~buff colored Md grain~~ RH natural redish brn clay to buff colored med grn sand. Both media collected in sample.

1530 Subsurface soil sample SB-06 collected ~ 25 ft farther east of SB-05. 500 ppm on HNU in auger hole, 350 ppm on OVA. Sample collected 14 inches below surface. Dark grey-black soil.

1620 - Well sample PW-02 collected from ~~Parkers~~ Fosters well. Well allowed to run for 20 min prior to sampling. This well is located ~400 ft downhill of surface impoundment. Water is clear, no reading on instruments.

tank.
pl- IW-01. No
on air monit.
sl. water is

soil sample
r surface impurities
st of road in
and young second
TAT members
level C
NU, + 650ppm OVA
up to 200ppm
ile. ~5 ppm in
ample collected
low surface, soil
~~lored Md grain~~ Rt natural
buff colored med.
media collected

mple SB-06
farther east
on HNU in
m on OVA.
14 inches below
black soil.
-02 collected
'l. Well allowed
min prior to
is located
surface
ter is clear
nstruments.

. This well is located in erosional gulley. Runoff from the Fosters barn may enter this gulley.

1800 - Arrive back at Weston, drop van off.

1830 - Samples delivered to Footek — Phillip Henderson 3/27/90

Wed March 28 1990. 0800 - Arrive at Weston. Load out equipment in EPA 1086. Power Auger borrowed from NUS FIT loaded in my pickup truck, no EPA vehicles available.

1010 - Arrive at Basket Creek, set up to collect subsurface soil sample SB-01 from drum disposal area. Location selected 10 ft downgradient of magnetic anomally near north end of filled area. Air monitoring instruments calibrated. Used little Beaver to power auger 3 flights ~ 8 ft. Hit what appeared to be undisturbed soil at bottom of hole. No readings on HNU or OVA above bckgrd, no signs of any waste. Decided to try and hand auger in the middle of magnetic anomally. Area of fairly thick briars coincident with anomaly. Hand augered down ~ 20 inches. Reading of 7-10 ppm in hole on HNU. SB-01 is

collected at this location
Saprolite (weathered rock) at
at bottom of hole.
Sample collected at 1145.

Attempts made to collect SB-[illegible]
Aprox 20 auger holes attempted
in second major magnetic
anomaly located in SW portion
of filled area. At a depth averaging
~4ft below surface consistent
auger refusal. Auger is hitting
drums probably at most locations.
Also at all locations bits of
charcoal encountered just above
drums. This substantiates Mrs
Fosters statement that drum
disposal ravine caught fire
and burned for 4 days before
fire dept could put it out.
At one location, reading of
10ppm on HNU ~ 4ft deep
hole with drum definitely at
bottom of hole. Unable to collect
sample due to presence of
drum. No readings on HNU above
bkgrd at any of the other
auger holes. Since soil above
drums does not appear to be
contaminated and unable to
penetrate below drums, no
additional subsurface soil
samples were collected. This

.s. location.
rock) bit
2.
at 1145.

collect SB-02
holes attempted
r magnetic
in SW portion
t a depth averag
face consistent
uger is hitting
at most location
tions bits of
ered just abov
stantiates Mrs
t that drum
caught fire
4 days befor
it out,
reading of
4ft deep
definitely at
Unable to collec
resence of
s on HWU abov
f the other
nce soil above
t. appear to be
unable to
drums, no
rface soil
collected. This

area is located just uphill of area where small amount of leachate coming out of toe of landfill. Sediment sample collected at this location yesterday. This sample will give evidence as to what sort of chemicals present in drum

ATTACHEMNT D

TABLE OF WITNESSES

Shane Hitchock, OSC
U.S. Environmental Protection Agency
Emergency Response Branch, Region IV
345 Courtland Street, NE
Atlanta, GA 30365
(404) 347-3931

Phil Henderson, TAT
Tim Neal, TAT
Keith LaGuaite, TAT
Roy F. Weston, Inc., Major Programs Division
Suite 120, 100 Atlanta Technology Center
1575 Northside Drive, NW
Atlanta, GA 30318
(404) 352-4147

Harriet Foster
7840 Basket Creek Road
Douglasville, Georgia 30135
(404) 489-2515

ATTACHMENT E

SITE SAFETY PLAN

WESTON SPER DIVISION
HAZARDOUS WASTE SITE INVESTIGATION AND EMERGENCY RESPONSE
HEALTH AND SAFETY PLAN

U.S. EPA CONTACT: Shane Hitchcock
Date of Inspection: 5/9/96 Time: 1330 TDD No. 04-9003-10
Original Safety Plan: Yes X No ___ PCS No. 3110
Admendment/Modification No. ___

SITE SAFETY COORDINATOR: Phillip Henderson

Site Name: Basket Creek Drum Burial Site

Site Address: Street No. 7840 Basket Creek Road
City Douglasville
County Douglas
State GA Zip Code 30135

Site Contact: Harriet Foster Phone (404) 489-2515

Directions to Site: (Attach Map) I-20 W to Hwy 5. South on Hwy 5 to Rt 166 (Go left). Take 1st Right on Capps Ferry Rd. Go ~1.5 miles then take left on Basket Creek Rd.

SITE HISTORY: Waste oil and solvents were illegally disposed by Young Refinery Corporation of Douglasville GA, on a parcel of land owned by Mr Lee Wallace. This took place in 1976. Drums of waste were dumped into a surface impoundment at one location on the property. In a ravine on the property at least 80 drums were dumped and then covered with dirt

INCIDENT DESCRIPTION

TYPE: A) Spill ___ Air Release ___ Fire ___ HW Site X Other ___
B) Assessment X Sampling X Emergency Response ___
Clean-up/Removal ___ Other (specify) ___
C) Urban/Residential ___ Commercial ___ Industrial ___
Rural X Remote ___

PERSONNEL PHYSICAL SAFETY HAZARDS:

Heat ___ Cold ___ Noise ___ Underground Utilities ___
Overhead Utilities ___ Heavy Equipment ___ Slip, Trip, Fall X
Confined Spaces ___ Pressurized Airlines ___ Explosive ___
Ladders ___ Scaffolds ___ Unguarded Openings-Wall, Floor ___
Liquids in Open Containers, Ponds/Lagoons X
Other ___

CHEMICAL CONTAMINANTS OF CONCERN

CONTAMINANT	TLV PEL	IDLH	PHYSICAL CHARACTERISTICS	ROUTE OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE	FIRST AID	INSTRUMENTS TO DETECT
Benzene	10ppm	Potential carcinogen	Colorless liquid Aromatic odor	Inh, Ing Absorb.	Irrt Resp System nausea fatigue	Medical Attn Wash Skin	IP 9.25eV
Methy ethyl ketone	200ppm	3000ppm	Clear colorless liquid Fragrent, mint-like odor	Inh. Ing	Irrt. eyes nose head dizz. + vomit	Wash, fresh air Medical Attn for Ing	IP 9.48eV
trichloroethylene	100ppm	Potential carcinogen	Colorless liquid. Sweet odor like chloroform	Inh Ing Skin contact	Inh - vertigo, vis dist Ing - tremors, somnolence Con - nau, vomit, irrt eyes derm, card arrhy	wash Medical Attn	IP 9.47eV
ethyl benzene	100ppm	2000ppm	Colorless liquid. Aromatic odor	Inh Ing	Inh - irrt eyes muc membr Ing - Head, derm. narco coma	Irr immed Medical Attn	IP 8.76eV
Xylene	100ppm	1000ppm	Colorless liquid aromatic odors	Inh, Abs Ing	Dizz, excitement, inco, irrt resp vomit adom pain	Medical Attn	IP 8.56eV
Toluene	200ppm	2000ppm	Colorless liquid Aromatic odor	Inh Ing Con	Irrt nose throat choke muse fty insom	Medical Attn	IP 8.82eV
Tetrachloroethene	100ppm	Potential Carcinogen	Colorless liquid Odor like ether or Chloroform	Inh, Abs, Ing Con	Acnuform derm fty anor liver inj	Medical Attn	IP 9.32
Acetone	1000ppm	20,000ppm	Colorless liquid mint like odor	Inh Ing Con	Irrt eyes nose throat dizz derm	Medical Attn	IP 9.69
Phenol	5ppm	250ppm	Colorless to pink solid or thick liquid with char sweet tarry odor	Inh Abs Ing Con	Irrt eyes nose throat muscle ache pain dark urin liver Kidney damage	Med Attn	IP 8.5eV
PCB's	.5mg/m	Potential Carcinogen 5mg/m		Inh Abs Ing Con	Irrt eyes skin muc membr Liver damage	Medical Attn	

Description of Decontamination To Be Used: Rubber boots will be washed with soap & water. Gloves & Tyvek disposed of.

★ Initial Site Inspection will not include any sampling. When sampling is conducted plan will be modified according to findings of inspection.

TDD#_____ PDD#_____

OBSERVED CONDITIONS/ACTIVITIES

Describe Initial Conditions (Source/Type/Quantity): _____

_____

_____

_____

_____

_____

DOCUMENTATION PERFORMED BY: _____

Type: Photo_____ Log Book_____ Recorder_____ Video_____

PHYSICAL DESCRIPTION

Size of Site: _____ Topography Terrain: _____ Weather _____

Distance to Nearest: Residence_____ School_____ Hospital _____

Public Building_____ Other_____

Evacuation: Yes___ No___ Number___ By Whom_____

Nearest Waterway: _____ Distance: _____

Condition	Observed	Potential	None
Surface Water Contamination	_____	_____	_____
Ground Water Contamination	_____	_____	_____
Drinking Water Contamination	_____	_____	_____
Air Contamination	_____	_____	_____
Soil Contamination	_____	_____	_____
Stressed Vegetation	_____	_____	_____
Dead Fish, Other Animals	_____	_____	_____

ACTIONS TAKEN ON SITE: (Attach Map of Site Control Zones)

Was Entry Made by TAT: YES_____ NO_____

TASK CONDUCTED: on 3/28 - 3/29/90 Describe Specific PPE Used and Why

1) Offsite sampling - private wells, surface water, sediment level D, Rubber boots, latex inner, nitrile outer gloves. No visible contamination no readings above bkgrd, on air monitoring inst.

2) Onsite Subsurface Soil sampling - Level C, Rubber boots, Tyvek, latex inner, nitrile outer gloves, GMC-H cartridges, Hand Augering into area where drums of solvents suspected to be ~~areas~~ buried. up to 500 ppm in auger hole. < 5 ppm in breathing zone

AIR MONITORING LOG

OVA Calibration 3/1/90
HNU Calibration 3/1/90
CGI Calibration 3/1/90

Background O_2 [illegible]
Organics [illegible] ppm
Radiation [illegible]

CGI _____

(ATTACH CALIBRATION DATA TO LOG)

S I T E N A M E

STATION/ LOCATION	DATE	TIME	NAME OF AIR MONITOR	TYPE OF EQUIPMENT (HNU(PROBE/SPAN), CGI, OVA, RAD MTR	READING	SUMMARY/COMMENTS
Background	3/9/90	1345	M.I. Henderson	HNU w 10.2 probe OVA CGI	0 ppm [illegible] [illegible]	
Drum Disposal Area	3/9/90	1400	T. [illegible]	HNU w 10.2 probe OVA CGI	0 1 ppm [illegible]	Entire [illegible] area [illegible] No readings above background
Downgradient Spring	3/9/90	1410	T. [illegible]	HNU OVA CGI	0 [illegible] ppm [illegible]	No readings above background OVA [illegible]
Surface Impoundment	3/9/90	1430	M.I. Henderson	HNU OVA CGI	0 [illegible] ppm [illegible]	

19 0050

AIR MONITORING LOG

OVA Calibration 3/27/90 3/28
HNU Calibration 3/27/90 3/28
OGI Calibration 3/2

Background O_2
Organics 1-2ppm OVA 0ppm HNU
Radiation 2/90

OGI

(ATTACH CALIBRATION DATA TO LOG)

SITE NAME

SAMPLE/ LOCATION	DATE	TIME	NAME OF AIR MONITOR	TYPE OF EQUIPMENT (HNU(PROBE/SPAN), OGI, OVA, RAD MTR	READING	SUMMARY/COMMENTS
Sediment sample Surface water sample	3/27/90	1340 1400	Tim Neal Tim Neal	HNU 10.2 Probe 9.8 OVA	0 1ppm	Nothing above bkgrd.
Private well sample Parker Residence	3/27/90	1500	P. Henderson	HNU OVA	0 1ppm	Nothing above bkgrd
Subsurface soil SB-05 (Surface Implmt)	3/27/90	1520	K. LaGuardia	HNU OVA	500ppm 650ppm	In auger hole
				HNU OVA	200ppm 135ppm	1-2 ft above hole
				HNU OVA	4ppm 5ppm	Breathing Zone
Subsurface soil SB-06 (Surface Implmt)	3/27/90	1530	Henderson	HNU OVA	500ppm 350ppm	In auger hole
				HNU OVA	1ppm 3ppm	Breathing Zone
Private well sample Forster Residence	3/27/90	1620	Neal	HNU OVA	0 1ppm	Nothing above bkgrd
Subsurface Soil	3/22/90	1445	Henderson	HNU	0ppm	In Auger hole. No readings

19 0051

SAMPLING: CONDUCTED? YES_____ NO_____

If Yes, Describe Sampling Method_____

Has Lab Been Notified of Potential Hazard Level? Yes___ No___ NA__

Note: This Health and Safety Plan was prepared for work to be conducted under the Technical Assistance Team (TAT) Contract 68-01-7367 Zone 1. Use of this plan by WESTON and its subcontractors on the TAT contract is intended to fulfill the OSHA requirements found in 29 CFR 1910.120. Items not specifically covered in this plan are included by reference to 29 CFR 1910 and 1926.

I have read and understand this safety plan.

NAME (PRINTED)	SIGNATURE	AFFILIATION	DATE
Phillip Henderson	Phillip Henderson	Weston	3/9/90
[illegible]	Timothy B. NEAL	TAT	3/9/90
[illegible]	[illegible]	TAT	[illegible]

Final Submission of Plan by _____ Date_____

Post Response Approval [illegible] Date 4/26/90

Copy to ZPMO_____ Date_____

SPER HSO Reviewed by:_____ Date:_____
Followup Required: Yes___ No____
Followup Performed: Date: _____ With:_____
Comments: _____

JOB SAFETY & HEALTH PROTECTION

1 9 0053

The Occupational Safety and Health Act of 1970 provides job safety and health protection for workers by promoting safe and healthful working conditions throughout the Nation. Requirements of the Act include the following:

Employers

All employers must furnish to employees employment and a place of employment free from recognized hazards that are causing or are likely to cause death or serious harm to employees. Employers must comply with occupational safety and health standards issued under the Act.

Employees

Employees must comply with all occupational safety and health standards, rules, regulations and orders issued under the Act that apply to their own actions and conduct on the job.

The Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor has the primary responsibility for administering the Act. OSHA issues occupational safety and health standards, and its Compliance Safety and Health Officers conduct jobsite inspections to help ensure compliance with the Act.

Inspection

The Act requires that a representative of the employer and a representative authorized by the employees be given an opportunity to accompany the OSHA inspector for the purpose of aiding the inspection.

Where there is no authorized employee representative, the OSHA Compliance Officer must consult with a reasonable number of employees concerning safety and health conditions in the workplace.

Complaint

Employees or their representatives have the right to file a complaint with the nearest OSHA office requesting an inspection if they believe unsafe or unhealthful conditions exist in their workplace. OSHA will withhold, on request, names of employees complaining.

The Act provides that employees may not be discharged or discriminated against in any way for filing safety and health complaints or for otherwise exercising their rights under the Act.

Employees who believe they have been discriminated against may file a complaint with their nearest OSHA office within 30 days of the alleged discrimination.

Citation

If upon inspection OSHA believes an employer has violated the Act, a citation alleging such violations will be issued to the employer. Each citation will specify a time period within which the alleged violation must be corrected.

The OSHA citation must be prominently displayed at or near the place of alleged violation for three days, or until it is corrected, whichever is later, to warn employees of dangers that may exist there.

Proposed Penalty

The Act provides for mandatory penalties against employers of up to $1,000 for each serious violation and for optional penalties of up to $1,000 for each nonserious violation. Penalties of up to $1,000 per day may be proposed for failure to correct violations within the proposed time period. Also, any employer who willfully or repeatedly violates the Act may be assessed penalties of up to $10,000 for each such violation.

Criminal penalties are also provided for in the Act. Any willful violation resulting in death of an employee, upon conviction, is punishable by a fine of not more than $10,000, or by imprisonment for not more than six months, or by both. Conviction of an employer after a first conviction doubles these maximum penalties.

Voluntary Activity

While providing penalties for violations, the Act also encourages efforts by labor and management, before an OSHA inspection, to reduce workplace hazards voluntarily and to develop and improve safety and health programs in all workplaces and industries. OSHA's Voluntary Protection Programs recognize outstanding efforts of this nature.

Such voluntary action should initially focus on the identification and elimination of hazards that could cause death, injury, or illness to employees and supervisors. There are many public and private organizations that can provide information and assistance in this effort, if requested. Also, your local OSHA office can provide considerable help and advice on solving safety and health problems or can refer you to other sources for help such as training.

Consultation

Free consultative assistance, without citation or penalty, is available to employers, on request, through OSHA supported programs in most State departments of labor or health.

More Information

Additional information and copies of the Act, specific OSHA safety and health standards, and other applicable regulations may be obtained from your employer or from the nearest OSHA Regional Office in the following locations:

Atlanta, Georgia
Boston, Massachusetts
Chicago, Illinois
Dallas, Texas
Denver, Colorado
Kansas City, Missouri
New York, New York
Philadelphia, Pennsylvania
San Francisco, California
Seattle, Washington

Telephone numbers for these offices, and additional area office locations, are listed in the telephone directory under the United States Department of Labor in the United States Government listing.

Washington, D.C.
1985
OSHA 2203

William E. Brock, Secretary of Labor

U.S. Department of Labor
Occupational Safety and Health Administration

Under provisions of Title 29, Code of Federal Regulations, Part 1903.2(a)(1) employers must post this notice (or a facsimile) in a conspicuous place where notices to employees are customarily posted.

Date	Battery	Cal Standard	Cal Reading	PCS	Comments/Site	Name
3/9/90	OK	50 ppm/10.2/9.8 span	50 ppm/10.2/9.8 span	3110	Basket Creek Drum	Phil Henderson
3/9/90	OK	50 ppm/10.2/9.8	50 ppm/10.2/9.8	3110	Field Calib	Phil Henderson

DATE	BATTERY	PUMP	ALARM	FIRE	CAL STAND	CAL READOUT	PCS	NAME
2/21/90	OK	OK	OK	Fast	99.6 @ 3.0	99 @ 2.5	3086	Moore
2/21/90	LOW	OK	OK	MED	99.6 @ 3.0	99 @ 7 Red Tag for Internal	3086	MOORE
2/22/90	LOW	Fire	OK	1/2/FAST	99.6 @ 3.0	99 PPM @ 2.5	0015	Herrick
2/22/90	LOW	OK	OK	Fast	99.6 @ 3.0	99 ppm @ 2.6	0012	Ringwall
2/22/90	LOW	OK	OK	Fast	99.6 @ 3.0	99 ppm @ 2.9	3090	Ringwall
2/23/90	LOW	OK	OK	Slow	99.6 @ 3.0	99 @ 2.9	0012	Ringwall
2/28/90	OK	OK	OK	Fast	99.6 @ 3.0	98 @ 4.30	0012	Derrick
2/28/90	—	Reset (replaced) Male Electronic Plug Reset Electronic Adjustments Internally					0015	Herrick
3/1/90	OK	OK	OK	Fast	99.6 @ 3.0	99 ppm @ 3.0	3102	Benfield
3/8/90	OK	OK	OK	Fast	99.6 @ 3.0	99.6 @ 3.0	3109	Refill H_2 Derrick
3/8/90	OK	OK	OK	fast	99.6 @ 3.0	3.9 span	3109	Derrick
3/9/90	OK	OK	OK	FAST	99.6 @ 3.0	98.0 @ 3.0	3110	Herrick
3/9/90	OK	OK	OK	Fas	99.6 + 3.0	98.0 @ 3.0	3110	Henderson

DATE	PUMP	BATTERY	LOW O_2	HIGH	LEL	Cal std	Cal Read	PCS#	NAME
1/3/90	OK	OK	19%	24%	25%	50%	50%	2974	DWB
1/5/90	OK	OK	19.5%	24%	25%	50%	50%	2992	McKEEN
1/10/89									
1/19/89	ok	ok	19.5%	24%	25%	50%	50%	3006	Hudgins
			internal Calibration - O_2 Detector Replaced						
2/6/90	ok	ok	19%	24%	25%	50%	50%	3037	Sunderlawn
2/14/90	OK	OK	19%	24%	25%	50%	*	2922	Laguaite
* LEL read ≈ 50% with standard but still reads 25% with no standard									
2/20/90	REPAIRED BY MSA + FACTORY CALIBRATED								KRNIK
2/21/90	OK	OK	19.5%	24%	25%	50%	50%	3086	Ringwall
2/21/90	OK	OK	19.5%	24%	25%	50%	40%	3086	Ringwall
2/21/90	OK	OK	19.5%	24%	25%	50%	48	3086	Moore
2/22/90	OK	OK	19.5	24%	— NO CAL GAS AVAIL —				Ringwall
DEAD BATTERY — will not recharge							Request sent 3-6-90 for new battery		KRNIK
3/8/90	BATTERY Received + installed - [illegible]						15% O_2		
3-9-90	OK	New	19.5%	24%	25%	50%	50% LEL	3110	Tim Neal
3-9-90	OK	New	19.5%	24%	25%	50%	50% LEL	3110	Phil Henderson

9 0056

Date	Battery	Cal Standard	Cal Reading	PCS	Comments/Site	Name
3/9/90	OK	50ppm/10.2/9.8span	50ppm/10.2/9.8span	3110	Basket Creek Drum	Phil Henderson
3/9/90	OK	50ppm/10.2/9.8	50ppm/10.2/9.8	3110	Field Calib	Phil Henderson
3/13/90	OK	50ppm/10.2/9.8	50ppm/10.2/9.8 ADW	3108	Dewey + Almy Chem	[illegible] Walt
3/14/90	OK	50ppm/10.2/9.8	50 ppm w/10.2 9.8	0015	office Check	Hornik
3/27/90	OK	50ppm/10.2/9.8	50ppm/10.2/9.8	3110	Basket Creek	Henderson
3/27/90	OK	50ppm/10.2/9.8	50ppm/10.2/9.8	3110	Basket Creek	Henderson
3/28/90	OK	50ppm/10.2/9.8	50ppm/10.2/9.6	3110	(Field Calib)	Laguarik

10

19 0057

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.0	7.0	[illegible]	[illegible]
3/8/90	OK	OK	OK	Fast	99.6 @ 3.0	.6 @ 3.0	3109	Refill H_2 Derrick
/8/90	OK	OK	OK	fast	99.6 @ 3.0	3.9 [illegible]	3109	Derrick
/9/90	OK	OK	OK	FAST	99.6 @ 3.0	98.0 @ 3.0	3110	Hennik
/9/90	OK	OK	OK	Fas	99.6 + 3.0	98.0 @ 3.0	3110	Henderson
/15/90	ON CHARGE	OK	OK	FAST	99.6 @ 3.0	99.0 @ 5.25		Dubois
3/17/90	OK	OK	OK	MED	99.6 @ 3.0	99 @ 6.6	3136	Dubois
/18/90	OK	OK	OK	MED	99.6 @ 3.0	99 @ 7.10	3136	Dubois
3/19/90	OK	OK	OK	Med	99.6 @	99 @ 7.1	3136	Shaia
/26/90	OK	Fine	OK	FAST	99.6 @ 3.0	99.6 @ 3.0	Readjust internal + electronics	Hennik
/27/90	OK	OK	OK	2nd time	99.6 @ 3.0	99.6 @ 4.2		Laguarte
3/27/90	OK	OK	OK	1st time	99.6 @ 3.0	98 @ 4.2		Laguarte
3/28/90	OK	OK	OK	1st		99 @ 7.6		Laguarte

1/9 0058 9

VICTOREEN RAD METER — EPA # 190572

Date	BATT	Source Check	RCS		TAT
1/26/90	OK	220 c/m	3028	Field Cal	McKEEN
1/31/90	OK	250 c/m	0012	OFFICE CAL	Ringwall
2/7/90	OK	200 c/m @ 10x	0012	On Call	Cannon
2/19/90	OK	210 c/m @ 10 x	0015	OFFICE CALL	MOORE
2/20/90	OK	200 c/m @ 10X	3070	OYSTER SHELL	Walter
2/21/90	OK	200 c/m @ 10x	3077	Field Cal	Canny
3/1/90	OK	200 cm @ 10x closed	3102	Office Cal	Benfield
3/2/90	OK	210 cm/@ 10x closed	3102	Field - Mennis Port	Benfield
3/6/90	OK	400 cm/@ 10x open	3109	Byromville drum	DRUMBAR
3/26/90	OK	±400 cm/@ 10X no cap	3110	office	NEAC
3.27.90	OK	400 cm @ 10X no cap	3110	Basket creek Rd. DRUM.	NEAC

1 9 0060

SPECIFY PPE TYPE

TASK TO BE PERFORMED	ANTIC. LEVEL OF PROTECT.	COVERALL	GLOVE IN/OUT.	AIR PURI RESPIRAT CART/CAN
Site Inspection	D/C	Tyvek	latex/Nitrile	GMC-H
Conduction of verbal				
report & photo recorded				
Darkin Kim from Supply				

Anticipated Monitoring: No sampling will be conducted during initial inspection. Initial approach will be level D w/monitoring inst. If any readings above bckgrd level C.

Radiation Meter [X] CGI [X] HNU [Y] 10.2 eV Probe OVA [X]

Detector Tube [ ] _____ Other _____

EMERGENCY PHONE NUMBERS:	LOCATION	PHONE	NOTIFIED
FIRE	Douglasville	949-1212	
POLICE	Douglasville	942-3211	
AMBULANCE	Douglasville	949-1212	
HOSPITAL Douglas General	Douglasville	949-1500	Yes

CHEMICAL TRAUMA CAPABILITY? Yes

DIRECTIONS TO HOSPITAL: (ATTACH MAP) RTE. VERIFIED BY____ DATE_____

Go north on Basket Ferry Rd. Take rt on Capps Ferry Rd. Go left on Rt 166 ~ 1/4 mi. Turn Rt on Hwy 5 (North). Go to I-20 E. Take I20E to Prestly Mill Rd Exit Go left (West) Hospital 1/2 mi on left

ADDITIONAL EMERGENCY PHONE CONTACTS:

CHEMTREC	(800) 424-9300
TSCA HOTLINE	(800) 424-9065, (202) 544-1404
ATSDR	(DAY) (404) 329-2888
	(NIGHT) (404) 566-7777
AT & F (EXPLOSIVES INFO.)	(800) 424-9555
NATIONAL RESPONSE CENTER	(800) 424-8802
WESTON MEDICAL EMERGENCY SERVICE	(513) 421-3063
WESTON 24 HOUR HOTLINE	(215) 524-1925, 1926
PESTICIDE INFORMATION SERVICE	(800) 845-7633
EPA ERT EMERGENCY	(201) 321-6660
RCRA HOTLINE	(800) 424-9346
CMA CHEMICAL REFERRAL CENTER	(800) 262-8200
NATIONAL POISON CONTROL CENTER	(800) 942-5969
U.S. DOT	(202) 366-0656 (Day only)

Prepared by: Phillip Henderson Date: 3/7/90

Pre-Response Approval by: KMK Date: 3/7/90

TDD# _____ PCS# _____

OBSERVED CONDITIONS/ACTIVITIES

Describe Initial Conditions (Source/Type/Quantity): Ravine where drums buried filled (2-10ft) with dirt. No drums visible. Several empty drums noted. No readings above bckgrd on air monitoring equip. Former surface impdmt covered with dirt/grass also, No waste visible. Several empty drums, downhill of impoundment

DOCUMENTATION PERFORMED BY: Phil Henderson

Type: Photo X Log Book X Recorder _____ Video _____

PHYSICAL DESCRIPTION

Size of Site: 3-5 acres Topography Terrain: Hilly Weather _____

Distance to Nearest: Residence 30 ft School _____ Hospital _____

Public Building _____ Other _____

Evacuation: Yes ___ No ___ Number ___ By Whom _____

Nearest Waterway: _____ Distance: _____

Condition	Observed	Potential	None
Surface Water Contamination		✓	
Ground Water Contamination		✓	
Drinking Water Contamination		✓	
Air Contamination			
Soil Contamination		✓	
Stressed Vegetation			✓
Dead Fish, Other Animals			

ACTIONS TAKEN ON SITE: (Attach Map of Site Control Zones)

Was Entry Made by TAT: YES X NO _____

TASK CONDUCTED: Describe Specific PPE Used and Why

Site Inspection - Level D - work cloths + rubber boots 3/9/90

ATTACHMENT F

ANALYTICAL DATA

WESTON
MANAGERS DESIGNERS CONSULTANTS
100 Atlanta Technology Center, Suite 120, 1575 Northside Drive, NW,
Atlanta, GA 30318 • (404) 352-4147 • FAX (404) 352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

MEMORANDUM

TO: File

FROM: Donnissa L. Duvic
TAT, Region IV

THRU: Conley B. Phifer CBP
TATL, Region IV

SUBJECT: Basket Creek Analytical Data
TDD# 04-9003-L05-0885
TAT# 04-F-03933

DATE: 18 April 1990

EcoTek Laboratory Services, Inc., conducted the requested full scan analyses on four soil and three water samples from the Basket Creek site. The data package was received on the requested due date.

The inorganic QC data conducted on sample SB05 revealed that antimony, arsenic, mercury, selenium, silver and thallium had matrix spike recoveries below the acceptable range of ± 25%. Duplicate analysis of this sample revealed calcium, chromium, copper, magnesium, manganese, nickel and potassium to have a relative percent difference exceeding 20% between original and duplicate data.

The volatile blank run in conjunction with samples PW01, PW02 and SW01 contained 2 J(ppb) of methylene chloride, 7 J(ppb) of acetone and 6 J(ppb) of 2-butanone. The concentrations of these compounds detected in samples PW01, PW02 and SW01 should be disregarded, as they do not exceed ten times the concentration detected in the blank.

The volatile blank run in conjunction with samples SB05 and SB06 contained 2 J(ppb) of methylene chloride and 14 (ppb) of acetone. The concentration of acetone detected in samples SB05 and SB06 is valid because it exceeds ten times the concentration detected in the blank. Methylene chloride was not detected in either sample.

The volatile blank run in conjunction with sample SB01 contained 6 (ppb) of methylene chloride, 9 J(ppb) of acetone, 8 J(ppb) of 2-butanone and 3 J(ppb) of 4-methyl-2-pentanone. The concentration of these compounds detected in sample SB01 should be disregarded, as they do not exceed ten times the concentration detected in the blank.

The volatile blank run in conjunction with sample SD01 contained 6 (ppb) of methylene chloride, 45 (ppb) of acetone and 18 (ppb) of 2-butanone. The concentration of these compounds detected in sample SD01 should be disregarded, as they do not exceed ten times the concentration detected in the blank.

The volatile matrix spike and matrix spike duplicate recovery data for toluene was found to be below QC guidelines. All other volatile spike recovery data revealed acceptable percentages.

The semivolatile blank run in conjunction with samples PW01, PW02, and SW01 contained 4 J(ppb) of bis(2-ethylhexyl)phthalate. The concentration of this compound detected in each sample should be disregarded as it does not exceed five times the concentration detected in the blank.

The semivolatile blank run in conjunction with samples SB01, SB05, SB06, and SD01 contained 67 J(ppb) of Butylbenzylphthalate and 110 J(ppb) of bis(2-ethylhexyl)phthalate. Butylbenzylphthalate was not detected in sample SB01, however it was detected in samples SB05 and SB06. The concentration detected in sample SB05 is valid as it exceeds the blank concentration by more than five times. The concentration detected in sample SB06 should be disregarded as it is less than the concentration detected in the associated blank. The concentration of bis(2-ethylhexyl)phthalate detected in sample SB01 should be disregarded as it is less than five times the concentration detected in the blank. Samples SB05 and SB06 contained bis(2-ethylhexyl)phthalate at concentrations greatly exceeding the levels found in the associated blank.

I have requested the lab to rerun bis(2-ethylhexyl)phthalate for sample SB06 as the reported concentration exceeded the calibration limit.

Two out of four semivolatile surrogate compounds revealed an unacceptable recovery. Three out of eleven semivolatile matrix spike compounds and one out of eleven matrix spike duplicate compounds revealed recoveries outside of the QC guidelines.

The QC data conducted for the pesticide fraction revealed all surrogate and spike data to be unacceptable due to the elevated levels of Aroclor-1254 detected in the sample which subsequently caused interferences.

All organic QC analyses were conducted on sample SB05.

A summary of the analytical data is found on the following pages.

cc: Shane Hitchcock
Phil Henderson

EcoTek LSI
EcoTek Laboratory Services Incorporated

1 9 0066

April 12, 1990

Donnissa L. Duvic
Roy F. Weston, Inc.
100 Atlanta Technology Center, Suite 120
1575 Northside Drive, NW
Atlanta, GA 30318

Basket Creek
9003-L05-0885

re: TDD# 04-9003-L05-0885
TAT# 04-F-03892

Dear Ms. Duvic

Enclosed along with this letter are the results for the seven samples received on March 28 and March 30, 1990.

If you have any questions or comments, please do not hesitate to contact me or Ms. Sushama Paranjape at (404)244-0827. Also, please refer to LSDG number 0054/56 in future correspondence. Thank you.

Sincerely,

ECOTEK LABORATORY SERVICES, INC.

James M. Broxton
Acting Laboratory Director

JMB/pef

0001

ENVIRONMENTAL PROTECTION AGENCY
ON 4 TAT

Roy F. WESTON, INC.
404·352·4147

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

J. NO.

PROJECT NAME: Basket Creek Drum Disposal Site

ERS (Signature): Phillip Henderson

Circle/add Parameters Desired ( ) - Indicates Separate Containers

Water/Wastewater | Soil/Sed/Sldg | Waste | Misc

NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	(Gal G (ext org. Pest) (EP) (herb)	40 ml vial (VOA)	250 ml G (TOX)	P (Bod, TSS, Cl, Fl, Sol, etc)	ILG (phenol) (O&G) (pest)	ILP (met, herb) (Toc, COD, N, P, etc)	0.5-ILP (SC)	½ gal or ILP (CN)	1 liter plastic	8 oz G (ext org. pest, herb) (met) (EP)	4 oz G (VOA)	P or G (CN, S⁻, N, P, COD, etc)	8 oz G (ext org. pest, herb, VOA)	8 oz G (EP) (met, CN, S⁻, FP) (FP, BTU)	REMARKS/TAG NUM
01	3/27	1340		X	Toe of filled area	4										2	2				T3681-3684
01	3/27	1400		X	Creek below spring	7	2	3							2						T3674 → 3680
01	3/27	1500		X	Parker Well	7	2	3							2						T3652 3653 3654 →
05	3/27	1520		X	Surface Implmt	4										2	2				~~T61~~ T3659 → T366
06	3/27	1530		X	Surface Implmt (east)	4										2	2				T3662 → T3666
02	3/27	1620		X	Foster Well	7	2	3							2						T3667 → T3673

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Phillip Henderson	3/27 1820	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Remarks: Full Priority Pollutant Analysis all samples. No samples h[illegible] been preserved

19 0067

ENVIRONMENTAL PROTECTION AGENCY
ION 4 TAT

CHAIN OF CUSTODY RECORD

COLLEGE STATION ROA
ATHENS, GEORGIA 3061

0002

ROJ. NO.

PROJECT NAME: Basket Creek Drum Disposal

MPLERS (Signature): Phillip Henderson

Circle/add Parameters Desired ( ) - Indicates Separate Containers

A NO	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Water/Wastewater: (Gal G (ext org, Pest) (EP) (herb)	40 ml vial (VOA)	250 ml G (TOX)	P (Bod, TSS, Cl, Fl, Sol, etc)	ILG (phenol) (O&G) (pest)	ILP (met, hard) (Toc, COD, N, P, etc)	0.5-ILP (S⁻)	½ gal or ILP (CN)	Soil/Sed/Sldg: 8 oz G (ext org, pest, herb) (met) (EP)	4 oz G (VOA)	P or G (CN, S⁻, N, P, COD, etc)	Waste: 8 oz G (ext org, pest, herb, VOA)	8 oz G (EP) (met, CN, S⁻, FP) (FP, BTU)	Misc	REMARKS/T
-01	3/28	1145		X	Drum Disposal area	4									2	2					T 3685 → 3

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks
Phillip Henderson	3/29 1130	[signature]				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

TRIBUTION: Original and Pink copies accompany sample shipment to laboratory. Pink copy retained by laboratory, Yellow copy retained by samplers. Blue copy extra copy as needed

T4-1557

19 0068

U.S. EPA - CLP

1 9 0069

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

PW01

Lab Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: 005401

Level (low/med): LOW Date Received: 3/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight) UG/L

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	101.00	B		P
7440-36-0	Antimony	50.00	U		P
7440-38-2	Arsenic	5.00	U		F
7440-39-3	Barium	20.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	5400.00			P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	30.00	U		P
7440-50-8	Copper	25.00	U		P
7439-89-6	Iron	127.00			P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	400.00	B		P
7439-96-5	Manganese	5.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	35.00	U		P
7440-09-7	Potassium	1400.00	B		P
7782-49-2	Selenium	5.00	U		F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	5100.00			P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	15.00	U		P
7440-66-6	Zinc	31.00			P
	Cyanide	10.00	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN 7/87

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

1 9 0070
EPA SAMPLE NO.

PW02

Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: 005402

Level (low/med): LOW Date Received: 3/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight) UG/L

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	117.00	B		P
7440-36-0	Antimony	50.00	U		P
7440-38-2	Arsenic	5.00	U		F
7440-39-3	Barium	20.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	13500.00			P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	30.00	U		P
7440-50-8	Copper	25.00	U		P
7439-89-6	Iron	1016.00			P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	2900.00	B		P
7439-96-5	Manganese	172.00			P
7439-97-6	Mercury	1.45			CV
7440-02-0	Nickel	35.00	U		P
7440-09-7	Potassium	1600.00	B		P
7782-49-2	Selenium	5.00	U		F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	4500.00	B		P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	15.00	U		P
7440-66-6	Zinc	20.00	U		P
	Cyanide	10.00	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

1 9 0071
EPA SAMPLE NO.

SB01

Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 005601

Level (low/med): LOW Date Received: 3/30/90

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36487.50			P
7440-36-0	Antimony	12.50	U		P
7440-38-2	Arsenic	20.48			F
7440-39-3	Barium	157.75			P
7440-41-7	Beryllium	1.50			P
7440-43-9	Cadmium	5.00			P
7440-70-2	Calcium	475.00			P
7440-47-3	Chromium	49.75			P
7440-48-4	Cobalt	15.75			P
7440-50-8	Copper	42.50			P
7439-89-6	Iron	49505.00			P
7439-92-1	Lead	40.35			F
7439-95-4	Magnesium	3150.00			P
7439-96-5	Manganese	232.25			P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	21.75			P
7440-09-7	Potassium	2750.00			P
7782-49-2	Selenium	1.25	U		F
7440-22-4	Silver	2.50	U		P
7440-23-5	Sodium	1650.00			P
7440-28-0	Thallium	0.75	U		F
7440-62-2	Vanadium	106.50			P
7440-66-6	Zinc	94.75			P
	Cyanide	0.31	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

1 9 0072

EPA SAMPLE NO.

SB05

Lab Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 005404

Level (low/med): LOW Date Received: 3/28/90

% Solids: 82.2

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23009.73			P
7440-36-0	Antimony	12.17	U		P
7440-38-2	Arsenic	4.87			F
7440-39-3	Barium	58.15			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	6.33			P
7440-70-2	Calcium	48.66	B		P
7440-47-3	Chromium	312.90			P
7440-48-4	Cobalt	7.30	U		P
7440-50-8	Copper	34.06			P
7439-89-6	Iron	59416.06			P
7439-92-1	Lead	667.88			P
7439-95-4	Magnesium	632.60	B		P
7439-96-5	Manganese	98.30			P
7439-97-6	Mercury	38.20			CV
7440-02-0	Nickel	82.73			P
7440-09-7	Potassium	1046.23			P
7782-49-2	Selenium	1.22	U		F
7440-22-4	Silver	2.43	U		P
7440-23-5	Sodium	2068.13			P
7440-28-0	Thallium	0.73	U		F
7440-62-2	Vanadium	30.90			P
7440-66-6	Zinc	66.42			P
	Cyanide	0.30	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1 9 0073
EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

SB06

b Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 005405

Level (low/med): LOW Date Received: 3/28/90

% Solids: 79.7

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17872.02			P
7440-36-0	Antimony	12.55	U		P
7440-38-2	Arsenic	11.12			F
7440-39-3	Barium	103.14			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	17.57			P
7440-70-2	Calcium	100.38	B		P
7440-47-3	Chromium	192.97			P
7440-48-4	Cobalt	14.05			P
7440-50-8	Copper	63.49			P
7439-89-6	Iron	157377.67			P
7439-92-1	Lead	2579.67			P
7439-95-4	Magnesium	1405.27			P
7439-96-5	Manganese	41.41			P
7439-97-6	Mercury	3553.68			CV
7440-02-0	Nickel	13.55			P
7440-09-7	Potassium	1355.08			P
7782-49-2	Selenium	1.25	U		F
7440-22-4	Silver	2.51	U		P
7440-23-5	Sodium	5370.14			P
7440-28-0	Thallium	0.75	U		F
7440-62-2	Vanadium	47.43			P
7440-66-6	Zinc	156.34			P
	Cyanide	1.49			C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

1 9 0074

EPA SAMPLE NO.

SD01

Lab Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: 005406

Level (low/med): LOW Date Received: 3/28/90

% Solids: 76.9

Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13693.11			P
7440-36-0	Antimony	13.00	U		P
7440-38-2	Arsenic	7.06			F
7440-39-3	Barium	34.33	B		P
7440-41-7	Beryllium	0.78	B		P
7440-43-9	Cadmium	2.86			P
7440-70-2	Calcium	234.07	B		P
7440-47-3	Chromium	35.37			P
7440-48-4	Cobalt	7.80			P
7440-50-8	Copper	15.34			P
7439-89-6	Iron	32959.69			P
7439-92-1	Lead	8.87			F
7439-95-4	Magnesium	1170.35	B		P
7439-96-5	Manganese	113.65			P
7439-97-6	Mercury	0.30			CV
7440-02-0	Nickel	9.10	U		P
7440-09-7	Potassium	1092.33	B		P
7782-49-2	Selenium	1.30	U		F
7440-22-4	Silver	2.60	U		P
7440-23-5	Sodium	1118.34	B		P
7440-28-0	Thallium	0.78	U		F
7440-62-2	Vanadium	45.51			P
7440-66-6	Zinc	58.00			P
	Cyanide	0.32	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN 7/87

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

1 9 0075

EPA SAMPLE NO.

SW01

Name: ECOTEK LSI CLIENT: RFW

Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: 005403

Level (low/med): LOW Date Received: 3/28/90

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight) UG/L

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	148.00	B		P
7440-36-0	Antimony	50.00	U		P
7440-38-2	Arsenic	5.00	U		F
7440-39-3	Barium	20.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	1500.00	B		P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	30.00	U		P
7440-50-8	Copper	25.00	U		P
7439-89-6	Iron	613.00			P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	1900.00	B		P
7439-96-5	Manganese	67.00			P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	35.00	U		P
7440-09-7	Potassium	1200.00	B		P
7782-49-2	Selenium	5.00	U		F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	1800.00	B		P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	15.00	U		P
7440-66-6	Zinc	20.00	U		P
	Cyanide	10.00	U		C

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN 7/87

3
BLANKS

Name: ECOTEK LSI Contract: RFW

Lab Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									75.0	U	P
Antimony									50.0	U	P
Arsenic									5.0	U	F
Barium									20.0	U	P
Beryllium									1.0	U	P
Cadmium									5.0	U	P
Calcium									25.0	U	P
Chromium									10.0	U	P
Cobalt									30.0	U	P
Copper									25.0	U	P
Iron									20.0	U	P
Lead									3.0	U	F
Magnesium									10.0	U	P
Manganese									5.0	U	P
Mercury									0.2	U	CV
Nickel									35.0	U	P
Potassium									362.0	U	P
Selenium									5.0	U	F
Silver									10.0	U	P
Sodium									90.0	U	P
Thallium									3.0	U	F
Vanadium									15.0	U	P
Zinc									20.0	U	F
Cyanide									10.0	U	C

U. S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

1 9 0077

EPA SAMPLE NO.

SB05

Lab Name: ECOTEK LSI Contract: RFW

Lab Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: SOIL Level (low/med): LOW

%SOLIDS: 82.2 Concentration Units:(UG/L or MG/KG)MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	0.0000	U	0.0000	U	121.65	0.0	N	P
Arsenic	75-125	4.7800		4.8700		12.16	-1.8	N	F
Barium	75-125	1246.2300		58.1500		1216.50	97.6		P
Beryllium	75-125	12.6500		0.2400	B	12.16	102.1		P
Cadmium	75-125	17.7600		6.3300		12.16	94.0		P
Calcium									NR
Chromium		359.3700		312.9000		48.66	95.5		P
Cobalt	75-125	122.3800		0.0000	U	121.65	100.6		P
Copper	75-125	89.7800		34.0600		60.83	91.6		P
Iron									NR
Lead	75-125	1664.2300		667.8800		1216.55	81.9		P
Magnesium									NR
Manganese	75-125	209.9800		98.3000		121.65	91.8		P
Mercury	75-125	62.8100		38.2000		95.01	25.9	N	CV
Nickel	75-125	191.4800		82.7300		121.65	89.4		P
Potassium									NR
Selenium	75-125	0.0000	U	0.0000	U	6.08	0.0	N	F
Silver	75-125	0.0000	U	0.0000	U	12.16	0.0	N	P
Sodium									NR
Thallium	75-125	0.0000	U	0.0000	U	12.16	0.0	N	F
Vanadium	75-125	148.4200		30.9000		121.65	96.6		P
Zinc	75-125	176.8900		66.4200		121.65	90.8		P
Cyanide	75-125	0.2420		0.0000		0.30	80.8		C

Comments:

U. S. EPA - CLP

6
DUPLICATES

1 9 0078
EPA SAMPLE NO.

SB05

Lab Name: ECOTEK LSI Contract: RFW

Lab Code: ECOTEK Case No.: SAS No.: SDG No.:

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.2 % Solids for Duplicate: 82.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		23009.7300		22180.0500		3.7		P
Antimony		0.0000	U	0.0000	U			P
Arsenic	2.43	4.8700		4.1800		15.2		F
Barium	48.66	58.1500		54.9900		5.6		P
Beryllium		0.2400	B	0.2400	B	0.0		P
Cadmium		6.3300		5.8400		8.1		P
Calcium		48.6600	B	72.9900	B	40.0		P
Chromium		312.9000		91.7300		109.3	*	P
Cobalt		0.0000	U	0.0000	U			P
Copper		34.0600		25.3000		29.5	*	P
Iron		59416.0600		59824.8200		0.7		P
Lead		667.8800		687.3500		2.9		P
Magnesium		632.6000	B	486.6200	B	26.1		P
Manganese		98.3000		33.8200		97.6	*	P
Mercury		38.2000		32.3000		16.7		CV
Nickel		82.7300		8.7600	B	161.7	*	P
Potassium		1046.2300	B	802.9200	B	26.3		P
Selenium		0.0000	U	0.0000	U			F
Silver		0.0000	U	0.0000	U			P
Sodium	1216.55	2068.1300		1873.4800		9.9		P
Thallium		0.0000	U	0.0000	U			F
Vanadium	12.17	30.9000		30.6600		0.8		P
Zinc		66.4200		62.7700		5.7		P
Cyanide		0.0000	U	0.0000	U			C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

PW01

Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005401

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 21158

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	BJ
67-64-1	ACETONE	4.	BJ
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	6.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1 9 0080
EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

PW02

b Name: ECOTEK Contract:

J Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005402

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 21159

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	BJ
67-64-1	ACETONE	4.	BJ
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	2.	J
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	6.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB01

Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: SB01

Matrix: (soil/water) SOIL Lab Sample ID: 005601

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 21140

Level: (low/med) LOW Date Received: 3/29/90

% Moisture: not dec. 20. Date Analyzed: 3/29/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	13.	U
74-83-9	BROMOMETHANE	13.	U
75-01-4	VINYL CHLORIDE	13.	U
75-00-3	CHLOROETHANE	13.	U
75-09-2	METHYLENE CHLORIDE	17.	B
67-64-1	ACETONE	17.	B
75-15-0	CARBON DISULFIDE	6.	U
75-35-4	1,1-DICHLOROETHENE	6.	U
75-34-3	1,1-DICHLOROETHANE	6.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	6.	U
67-66-3	CHLOROFORM	6.	U
107-06-2	1,2-DICHLOROETHANE	6.	U
78-93-3	2-BUTANONE	10.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	6.	U
56-23-5	CARBON TETRACHLORIDE	6.	U
108-05-4	VINYL ACETATE	13.	U
75-27-4	BROMODICHLOROMETHANE	6.	U
78-87-5	1,2-DICHLOROPROPANE	6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.	U
79-01-6	TRICHLOROETHENE	6.	U
124-48-1	DIBROMOCHLOROMETHANE	6.	U
79-00-5	1,1,2-TRICHLOROETHANE	6.	U
71-43-2	BENZENE	6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.	U
75-25-2	BROMOFORM	6.	U
108-10-1	4-METHYL-2-PENTANONE	4.	BJ
591-78-6	2-HEXANONE	13.	U
127-18-4	TETRACHLOROETHENE	6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.	U
108-88-3	TOLUENE	6.	U
108-90-7	CHLOROBENZENE	6.	U
100-41-4	ETHYLBENZENE	6.	U
100-42-5	STYRENE	6.	U
1330-20-7	XYLENE (TOTAL)	6.	U

1 9 0032
EPA SAMPLE NO.

SB05

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

ab Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005404

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 30780

Level: (low/med) MED Date Received: 3/28/90

% Moisture: not dec. 14. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: ~~33333.34~~ 333.34

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	480000.	U
74-83-9	BROMOMETHANE	480000.	U
75-01-4	VINYL CHLORIDE	480000.	U
75-00-3	CHLOROETHANE	480000.	U
75-09-2	METHYLENE CHLORIDE	240000.	U
67-64-1	ACETONE	890000.	B
75-15-0	CARBON DISULFIDE	240000.	U
75-35-4	1,1-DICHLOROETHENE	240000.	U
75-34-3	1,1-DICHLOROETHANE	240000.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	240000.	U
67-66-3	CHLOROFORM	240000.	U
107-06-2	1,2-DICHLOROETHANE	240000.	U
78-93-3	2-BUTANONE	890000.	
71-55-6	1,1,1-TRICHLOROETHANE	240000.	U
56-23-5	CARBON TETRACHLORIDE	240000.	U
108-05-4	VINYL ACETATE	480000.	U
75-27-4	BROMODICHLOROMETHANE	240000.	U
78-87-5	1,2-DICHLOROPROPANE	240000.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	240000.	U
79-01-6	TRICHLOROETHENE	90000.	J
124-48-1	DIBROMOCHLOROMETHANE	240000.	U
79-00-5	1,1,2-TRICHLOROETHANE	240000.	U
71-43-2	BENZENE	240000.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	240000.	U
75-25-2	BROMOFORM	240000.	U
108-10-1	4-METHYL-2-PENTANONE	1400000.	
591-78-6	2-HEXANONE	480000.	U
127-18-4	TETRACHLOROETHENE	120000.	J
79-34-5	1,1,2,2-TETRACHLOROETHANE	240000.	U
108-88-3	TOLUENE	9300000.	
108-90-7	CHLOROBENZENE	240000.	U
100-41-4	ETHYLBENZENE	220000.	J
100-42-5	STYRENE	240000.	U
1330-20-7	XYLENE (TOTAL)	1300000.	

4/10/90

0016

1 9 0083

EPA SAMPLE NO.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SB06

Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005405

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 30784

Level: (low/med) MED Date Received: 3/28/90

% Moisture: not dec. 20. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: 500~~00.00~~

4/10/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	780000.	U
74-83-9	BROMOMETHANE	780000.	U
75-01-4	VINYL CHLORIDE	780000.	U
75-00-3	CHLOROETHANE	780000.	U
75-09-2	METHYLENE CHLORIDE	390000.	U
67-64-1	ACETONE	1300000.	B
75-15-0	CARBON DISULFIDE	390000.	U
75-35-4	1,1-DICHLOROETHENE	390000.	U
75-34-3	1,1-DICHLOROETHANE	390000.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	390000.	U
67-66-3	CHLOROFORM	390000.	U
107-06-2	1,2-DICHLOROETHANE	390000.	U
78-93-3	2-BUTANONE	780000.	U
71-55-6	1,1,1-TRICHLOROETHANE	390000.	U
56-23-5	CARBON TETRACHLORIDE	390000.	U
108-05-4	VINYL ACETATE	780000.	U
75-27-4	BROMODICHLOROMETHANE	390000.	U
78-87-5	1,2-DICHLOROPROPANE	390000.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	390000.	U
79-01-6	TRICHLOROETHENE	390000.	U
124-48-1	DIBROMOCHLOROMETHANE	390000.	U
79-00-5	1,1,2-TRICHLOROETHANE	390000.	U
71-43-2	BENZENE	390000.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	390000.	U
75-25-2	BROMOFORM	390000.	U
108-10-1	4-METHYL-2-PENTANONE	780000.	U
591-78-6	2-HEXANONE	780000.	U
127-18-4	TETRACHLOROETHENE	720000.	
79-34-5	1,1,2,2-TETRACHLOROETHANE	390000.	U
108-88-3	TOLUENE	11000000.	
108-90-7	CHLOROBENZENE	390000.	U
100-41-4	ETHYLBENZENE	170000.	J
100-42-5	STYRENE	390000.	U
1330-20-7	XYLENE (TOTAL)	1500000.	

0017

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SD01

Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005406

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 21152

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 23. Date Analyzed: 3/31/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	13.	U
74-83-9	BROMOMETHANE	13.	U
75-01-4	VINYL CHLORIDE	13.	U
75-00-3	CHLOROETHANE	13.	U
75-09-2	METHYLENE CHLORIDE	9.	B
67-64-1	ACETONE	42.	B
75-15-0	CARBON DISULFIDE	7.	U
75-35-4	1,1-DICHLOROETHENE	7.	U
75-34-3	1,1-DICHLOROETHANE	2.	J
156-60-5	1,2-DICHLOROETHENE (TOTAL)	7.	U
67-66-3	CHLOROFORM	7.	U
107-06-2	1,2-DICHLOROETHANE	7.	U
78-93-3	2-BUTANONE	32.	B
71-55-6	1,1,1-TRICHLOROETHANE	7.	U
56-23-5	CARBON TETRACHLORIDE	7.	U
108-05-4	VINYL ACETATE	13.	U
75-27-4	BROMODICHLOROMETHANE	7.	U
78-87-5	1,2-DICHLOROPROPANE	7.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	7.	U
79-01-6	TRICHLOROETHENE	7.	U
124-48-1	DIBROMOCHLOROMETHANE	7.	U
79-00-5	1,1,2-TRICHLOROETHANE	7.	U
71-43-2	BENZENE	7.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	7.	U
75-25-2	BROMOFORM	7.	U
108-10-1	4-METHYL-2-PENTANONE	13.	U
591-78-6	2-HEXANONE	13.	U
127-18-4	TETRACHLOROETHENE	7.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	4.	J
108-88-3	TOLUENE	7.	U
108-90-7	CHLOROBENZENE	7.	U
100-41-4	ETHYLBENZENE	4.	J
100-42-5	STYRENE	7.	U
1330-20-7	XYLENE (TOTAL)	15.	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SW01

b Name: ECOTEK Contract:

b Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005403

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 21160

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	3.	BJ
67-64-1	ACETONE	2.	BJ
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	5.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.	J
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1 9 0086

EPA SAMPLE NO.

VBLKOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: VBLKOA

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 21157

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	J
67-64-1	ACETONE	7.	J
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	6.	J
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

0020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK0B

Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 21147

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/31/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	6.	
67-64-1	ACETONE	45.	
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	18.	
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1 9 0038

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKOM

Lab Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 30778

Level: (low/med) MED Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: ~~1.00~~ 0.008 SP 4/10/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	J
67-64-1	ACETONE	14.	
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	10.	U
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK0D

Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: SB01

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 21133

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. Date Analyzed: 3/29/90

Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	6.	
67-64-1	ACETONE	9.	J
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	8.	J
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	3.	J
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

1 9 0090

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB05 MS

Lab Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005404MS

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 30781

Level: (low/med) MED Date Received: 3/28/90

% Moisture: not dec. 14. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: ~~33333.34~~ 333.34 SP 4/10/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	480000.	U
74-83-9	BROMOMETHANE	480000.	U
75-01-4	VINYL CHLORIDE	480000.	U
75-00-3	CHLOROETHANE	480000.	U
75-09-2	METHYLENE CHLORIDE	240000.	U
67-64-1	ACETONE	460000.	BJ
75-15-0	CARBON DISULFIDE	240000.	U
75-35-4	1,1-DICHLOROETHENE	3200000.	
75-34-3	1,1-DICHLOROETHANE	240000.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	240000.	U
67-66-3	CHLOROFORM	240000.	U
107-06-2	1,2-DICHLOROETHANE	240000.	U
78-93-3	2-BUTANONE	1100000.	
71-55-6	1,1,1-TRICHLOROETHANE	240000.	U
56-23-5	CARBON TETRACHLORIDE	240000.	U
108-05-4	VINYL ACETATE	480000.	U
75-27-4	BROMODICHLOROMETHANE	240000.	U
78-87-5	1,2-DICHLOROPROPANE	240000.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	240000.	U
79-01-6	TRICHLOROETHENE	2200000.	
124-48-1	DIBROMOCHLOROMETHANE	240000.	U
79-00-5	1,1,2-TRICHLOROETHANE	240000.	U
71-43-2	BENZENE	1900000.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	240000.	U
75-25-2	BROMOFORM	240000.	U
108-10-1	4-METHYL-2-PENTANONE	1300000.	
591-78-6	2-HEXANONE	480000.	U
127-18-4	TETRACHLOROETHENE	110000.	J
79-34-5	1,1,2,2-TETRACHLOROETHANE	240000.	U
108-88-3	TOLUENE	10000000.	E
108-90-7	CHLOROBENZENE	2000000.	
100-41-4	ETHYLBENZENE	200000.	J
100-42-5	STYRENE	240000.	U
1330-20-7	XYLENE (TOTAL)	1100000.	

1A 1 9 0091

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB05 MSD

b Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005404MD

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 30782

Level: (low/med) MED Date Received: 3/28/90

% Moisture: not dec. 14. Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK Dilution Factor: ~~33333.34~~ 333.34 SP 4/10/90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	480000.	U
74-83-9	BROMOMETHANE	480000.	U
75-01-4	VINYL CHLORIDE	480000.	U
75-00-3	CHLOROETHANE	480000.	U
75-09-2	METHYLENE CHLORIDE	240000.	U
67-64-1	ACETONE	500000.	B
75-15-0	CARBON DISULFIDE	240000.	U
75-35-4	1,1-DICHLOROETHENE	3200000.	
75-34-3	1,1-DICHLOROETHANE	240000.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	240000.	U
67-66-3	CHLOROFORM	240000.	U
107-06-2	1,2-DICHLOROETHANE	240000.	U
78-93-3	2-BUTANONE	1200000.	
71-55-6	1,1,1-TRICHLOROETHANE	240000.	U
56-23-5	CARBON TETRACHLORIDE	240000.	U
108-05-4	VINYL ACETATE	480000.	U
75-27-4	BROMODICHLOROMETHANE	240000.	U
78-87-5	1,2-DICHLOROPROPANE	240000.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	240000.	U
79-01-6	TRICHLOROETHENE	2200000.	
124-48-1	DIBROMOCHLOROMETHANE	240000.	U
79-00-5	1,1,2-TRICHLOROETHANE	240000.	U
71-43-2	BENZENE	2000000.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	240000.	U
75-25-2	BROMOFORM	240000.	U
108-10-1	4-METHYL-2-PENTANONE	1500000.	
591-78-6	2-HEXANONE	480000.	U
127-18-4	TETRACHLOROETHENE	110000.	J
79-34-5	1,1,2,2-TETRACHLOROETHANE	240000.	U
108-88-3	TOLUENE	11000000.	E
108-90-7	CHLOROBENZENE	2100000.	
100-41-4	ETHYLBENZENE	210000.	J
100-42-5	STYRENE	240000.	U
1330-20-7	XYLENE (TOTAL)	1300000.	

0025

2A
WATER VOLATILE SURROGATE RECOVERY

Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Inst. ID. 10501 4990

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLK0A	97	96	93		0
2	PW01	98	100	101		0
3	PW02	91	91	93		0
4	SW01	98	97	98		0
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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16						
17						
18						
19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS
S1 (TOL) = TOLUENE-D8	(88-110)
S2 (BFB) = BROMOFLUOROBENZENE	(86-115)
S3 (DCE) = 1,2-DICHLOROETHANE-D4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

FORM II VOA-1

2B

SOIL VOLATILE SURROGATE RECOVERY

1 9 0093

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Level:(low/med) LOW

Inst. ID. 10501 11/29/90

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLKOB	109	106	117		0
2	SD01	107	98	118		0
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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27						
28						
29						
30						

	QC LIMITS
S1 (TOL) = TOLUENE-D8	(81-117)
S2 (BFB) = BROMOFLUOROBENZENE	(74-121)
S3 (DCE) = 1,2-DICHLOROETHANE-D4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0027

FORM II VOA-2 1/87 Rev.

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: POW01

Level:(low/med) MED

Inst. ID. 4000 4-9-90

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLKOM	103	99	97		0
2	SB05	102	101	99		0
3	SB05 MS	89	85	99		0
4	SB05 MSD	93	91	100		0
5	SB06	95	97	106		0
6						
7						
8						
9						
10						
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12						
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	QC LIMITS
S1 (TOL) = TOLUENE-D8	(81-117)
S2 (BFB) = BROMOFLUOROBENZENE	(74-121)
S3 (DCE) = 1,2-DICHLOROETHANE-D4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

ab Name: ECOTEK Contract: RFW

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: SB01

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLKOD	104	90	98		0
2	SB01	109	80	93		0
3						
4						
5						
6						
7						
8						
9						
10						
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28						
29						
30						

	QC LIMITS
S1 (TOL) = TOLUENE-D8	(81-117)
S2 (BFB) = BROMOFLUOROBENZENE	(74-121)
S3 (DCE) = 1,2-DICHLOROETHANE-D4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: ECOTEK Contract:

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix Spike - EPA Sample No.: SB05 Level:(low/med) MED

Inst. ID. 4000 ul 4-9-90

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
1,1-DICHLOROETHENE	2416858.	0.	3239857.	134.	59-172
TRICHLOROETHENE	2416858.	90468.	2221389.	88.	62-137
BENZENE	2416858.	0.	1938254.	80.	66-142
TOLUENE	2416858.	9291839.	10274360.	41. *	59-139
CHLOROBENZENE	2416858.	0.	2015564.	83.	60-133

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-DICHLOROETHENE	2416858.	3162084.	131.	2.	22	59-172
TRICHLOROETHENE	2416858.	2229184.	88.	0.	24	62-137
BENZENE	2416858.	1979372.	82.	2.	21	66-142
TOLUENE	2416858.	11041590.	72.	56. *	21	59-139
CHLOROBENZENE	2416858.	2106018.	87.	4.	21	60-133

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS:

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PW01

Lab Name: ECOTEK Contract:

ab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 005401

Sample wt/vol: 932.0 (g/mL) ML Lab File ID: 41347

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11.	U
111-44-4	bis(2-Chloroethyl)ether	11.	U
95-57-8	2-Chlorophenol	11.	U
541-73-1	1,3-Dichlorobenzene	11.	U
106-46-7	1,4-Dichlorobenzene	11.	U
100-51-6	Benzyl alcohol	11.	U
95-50-1	1,2-Dichlorobenzene	11.	U
95-48-7	2-Methylphenol	11.	U
108-60-1	bis(2-Chloroisopropyl)ether	11.	U
106-44-5	4-Methylphenol	11.	U
621-64-7	N-Nitroso-di-n-propylamine	11.	U
67-72-1	Hexachloroethane	11.	U
98-95-3	Nitrobenzene	11.	U
78-59-1	Isophorone	11.	U
88-75-5	2-Nitrophenol	11.	U
105-67-9	2,4-Dimethylphenol	11.	U
65-85-0	Benzoic acid	54.	U
111-91-1	bis(2-Chloroethoxy)methane	11.	U
120-83-2	2,4-Dichlorophenol	11.	U
120-82-1	1,2,4-Trichlorobenzene	11.	U
91-20-3	Naphthalene	11.	U
106-47-8	4-Chloroaniline	11.	U
87-68-3	Hexachlorobutadiene	11.	U
59-50-7	4-Chloro-3-methylphenol	11.	U
91-57-6	2-Methylnaphthalene	11.	U
77-47-4	Hexachlorocyclopentadiene	11.	U
88-06-2	2,4,6-Trichlorophenol	11.	U
95-95-4	2,4,5-Trichlorophenol	54.	U
91-58-7	2-Chloronaphthalene	11.	U
88-74-4	2-Nitroaniline	54.	U
131-11-3	Dimethylphthalate	11.	U
208-96-8	Acenaphthylene	11.	U
606-20-2	2,6-Dinitrotoluene	11.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0098

EPA SAMPLE NO.

PW01

Lab Name: ECOTEK Contract:

ab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID: 005401

Sample wt/vol: 932.0 (g/mL) ML Lab File ID: 41347

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54.	U
83-32-9	Acenaphthene	11.	U
51-28-5	2,4-Dinitrophenol	54.	U
100-02-7	4-Nitrophenol	54.	U
132-64-9	Dibenzofuran	11.	U
121-14-2	2,4-Dinitrotoluene	11.	U
84-66-2	Diethylphthalate	11.	U
7005-72-3	4-Chlorophenyl-phenylether	11.	U
86-73-7	Fluorene	11.	U
100-01-6	4-Nitroaniline	54.	U
534-52-1	4,6-Dinitro-2-methylphenol	54.	U
86-30-6	N-Nitrosodiphenylamine	11.	U
101-55-3	4-Bromophenyl-phenylether	11.	U
118-74-1	Hexachlorobenzene	11.	U
87-86-5	Pentachlorophenol	54.	U
85-01-8	Phenanthrene	11.	U
120-12-7	Anthracene	11.	U
84-74-2	Di-n-butylphthalate	11.	U
206-44-0	Fluoranthene	11.	U
129-00-0	Pyrene	11.	U
85-68-7	Butylbenzylphthalate	11.	U
91-94-1	3,3'-Dichlorobenzidine	21.	U
56-55-3	Benzo(a)anthracene	11.	U
218-01-9	Chrysene	11.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	BJ
117-84-0	Di-n-octylphthalate	11.	U
205-99-2	Benzo(b)fluoranthene	11.	U
207-08-9	Benzo(k)fluoranthene	11.	U
50-32-8	Benzo(a)pyrene	11.	U
193-39-5	Indeno(1,2,3-cd)pyrene	11.	U
53-70-3	Dibenz(a,h)anthracene	11.	U
191-24-2	Benzo(g,h,i)perylene	11.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0099

PW02

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 005402

Sample wt/vol: 982.0 (g/mL) ML Lab File ID: 41348

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	51.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	51.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	51.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0100

PW02

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID: 005402

Sample wt/vol: 982.0 (g/mL) ML Lab File ID: 41348

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	51.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	51.	U
100-02-7	4-Nitrophenol	51.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	51.	U
534-52-1	4,6-Dinitro-2-methylphenol	51.	U
86-30-6	N-Nitrosodiphenylamine	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	51.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	BJ
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0101

SB01

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005601

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41352

Level: (low/med) LOW Date Received: 3/29/90

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U
95-57-8	2-Chlorophenol	430.	U
541-73-1	1,3-Dichlorobenzene	430.	U
106-46-7	1,4-Dichlorobenzene	430.	U
100-51-6	Benzyl alcohol	430.	U
95-50-1	1,2-Dichlorobenzene	430.	U
95-48-7	2-Methylphenol	430.	U
108-60-1	bis(2-Chloroisopropyl)ether	430.	U
106-44-5	4-Methylphenol	430.	U
621-64-7	N-Nitroso-di-n-propylamine	430.	U
67-72-1	Hexachloroethane	430.	U
98-95-3	Nitrobenzene	430.	U
78-59-1	Isophorone	430.	U
88-75-5	2-Nitrophenol	430.	U
105-67-9	2,4-Dimethylphenol	430.	U
65-85-0	Benzoic acid	2100.	U
111-91-1	bis(2-Chloroethoxy)methane	430.	U
120-83-2	2,4-Dichlorophenol	430.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U
91-20-3	Naphthalene	430.	U
106-47-8	4-Chloroaniline	430.	U
87-68-3	Hexachlorobutadiene	430.	U
59-50-7	4-Chloro-3-methylphenol	430.	U
91-57-6	2-Methylnaphthalene	430.	U
77-47-4	Hexachlorocyclopentadiene	430.	U
88-06-2	2,4,6-Trichlorophenol	430.	U
95-95-4	2,4,5-Trichlorophenol	2100.	U
91-58-7	2-Chloronaphthalene	430.	U
88-74-4	2-Nitroaniline	2100.	U
131-11-3	Dimethylphthalate	430.	U
208-96-8	Acenaphthylene	430.	U
606-20-2	2,6-Dinitrotoluene	430.	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0102

EPA SAMPLE NO.

SB01

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID: 005601

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41352

Level: (low/med) LOW Date Received: 3/29/90

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2100.	U
83-32-9	Acenaphthene	430.	U
51-28-5	2,4-Dinitrophenol	2100.	U
100-02-7	4-Nitrophenol	2100.	U
132-64-9	Dibenzofuran	430.	U
121-14-2	2,4-Dinitrotoluene	430.	U
84-66-2	Diethylphthalate	430.	U
7005-72-3	4-Chlorophenyl-phenylether	430.	U
86-73-7	Fluorene	430.	U
100-01-6	4-Nitroaniline	2100.	U
534-52-1	4,6-Dinitro-2-methylphenol	2100.	U
86-30-6	N-Nitrosodiphenylamine	430.	U
101-55-3	4-Bromophenyl-phenylether	430.	U
118-74-1	Hexachlorobenzene	430.	U
87-86-5	Pentachlorophenol	2100.	U
85-01-8	Phenanthrene	430.	U
120-12-7	Anthracene	430.	U
84-74-2	Di-n-butylphthalate	430.	U
206-44-0	Fluoranthene	430.	U
129-00-0	Pyrene	430.	U
85-68-7	Butylbenzylphthalate	430.	U
91-94-1	3,3'-Dichlorobenzidine	870.	U
56-55-3	Benzo(a)anthracene	430.	U
218-01-9	Chrysene	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate	480.	B
117-84-0	Di-n-octylphthalate	430.	U
205-99-2	Benzo(b)fluoranthene	430.	U
207-08-9	Benzo(k)fluoranthene	430.	U
50-32-8	Benzo(a)pyrene	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U
53-70-3	Dibenz(a,h)anthracene	430.	U
191-24-2	Benzo(g,h,i)perylene	430.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0103

SB05

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005404

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 41384

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4300.	J
111-44-4	bis(2-Chloroethyl)ether	10000.	U
95-57-8	2-Chlorophenol	1000.	J
541-73-1	1,3-Dichlorobenzene	10000.	U
106-46-7	1,4-Dichlorobenzene	10000.	U
100-51-6	Benzyl alcohol	10000.	U
95-50-1	1,2-Dichlorobenzene	10000.	U
95-48-7	2-Methylphenol	10000.	U
108-60-1	bis(2-Chloroisopropyl)ether	10000.	U
106-44-5	4-Methylphenol	10000.	U
621-64-7	N-Nitroso-di-n-propylamine	10000.	U
67-72-1	Hexachloroethane	10000.	U
98-95-3	Nitrobenzene	10000.	U
78-59-1	Isophorone	1900.	J
88-75-5	2-Nitrophenol	10000.	U
105-67-9	2,4-Dimethylphenol	10000.	U
65-85-0	Benzoic acid	49000.	U
111-91-1	bis(2-Chloroethoxy)methane	10000.	U
120-83-2	2,4-Dichlorophenol	10000.	U
120-82-1	1,2,4-Trichlorobenzene	10000.	U
91-20-3	Naphthalene	4200.	J
106-47-8	4-Chloroaniline	10000.	U
87-68-3	Hexachlorobutadiene	10000.	U
59-50-7	4-Chloro-3-methylphenol	10000.	U
91-57-6	2-Methylnaphthalene	1800.	J
77-47-4	Hexachlorocyclopentadiene	10000.	U
88-06-2	2,4,6-Trichlorophenol	10000.	U
95-95-4	2,4,5-Trichlorophenol	49000.	U
91-58-7	2-Chloronaphthalene	10000.	U
88-74-4	2-Nitroaniline	49000.	U
131-11-3	Dimethylphthalate	10000.	
208-96-8	Acenaphthylene	10000.	U
606-20-2	2,6-Dinitrotoluene	10000.	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB05

Lab Name: ECOTEK Contract: 1 9 0104

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005404

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 41384

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	49000.	U
83-32-9	Acenaphthene	10000.	U
51-28-5	2,4-Dinitrophenol	49000.	U
100-02-7	4-Nitrophenol	49000.	U
132-64-9	Dibenzofuran	10000.	U
121-14-2	2,4-Dinitrotoluene	10000.	U
84-66-2	Diethylphthalate	10000.	U
7005-72-3	4-Chlorophenyl-phenylether	10000.	U
86-73-7	Fluorene	10000.	U
100-01-6	4-Nitroaniline	49000.	U
534-52-1	4,6-Dinitro-2-methylphenol	49000.	U
86-30-6	N-Nitrosodiphenylamine	10000.	U
101-55-3	4-Bromophenyl-phenylether	10000.	U
118-74-1	Hexachlorobenzene	10000.	U
87-86-5	Pentachlorophenol	49000.	U
85-01-8	Phenanthrene	10000.	U
120-12-7	Anthracene	10000.	U
84-74-2	Di-n-butylphthalate	21000.	
206-44-0	Fluoranthene	10000.	U
129-00-0	Pyrene	10000.	U
85-68-7	Butylbenzylphthalate	36000.	B
91-94-1	3,3'-Dichlorobenzidine	20000.	U
56-55-3	Benzo(a)anthracene	10000.	U
218-01-9	Chrysene	10000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	95000.	B
117-84-0	Di-n-octylphthalate	10000.	U
205-99-2	Benzo(b)fluoranthene	10000.	U
207-08-9	Benzo(k)fluoranthene	10000.	U
50-32-8	Benzo(a)pyrene	10000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000.	U
53-70-3	Dibenz(a,h)anthracene	10000.	U
191-24-2	Benzo(g,h,i)perylene	10000.	U

(1) - Cannot be separated from diphenylamine

1E

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0105

SB06

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BAGNET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005405

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41387

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	11000.	U
111-44-4	bis(2-Chloroethyl)ether	11000.	U
95-57-8	2-Chlorophenol	11000.	U
541-73-1	1,3-Dichlorobenzene	11000.	U
106-46-7	1,4-Dichlorobenzene	11000.	U
100-51-6	Benzyl alcohol	11000.	U
95-50-1	1,2-Dichlorobenzene	11000.	U
95-48-7	2-Methylphenol	11000.	U
108-60-1	bis(2-Chloroisopropyl)ether	11000.	U
106-44-5	4-Methylphenol	11000.	U
621-64-7	N-Nitroso-di-n-propylamine	11000.	U
67-72-1	Hexachloroethane	11000.	U
98-95-3	Nitrobenzene	11000.	U
78-59-1	Isophorone	11000.	U
88-75-5	2-Nitrophenol	11000.	U
105-67-9	2,4-Dimethylphenol	11000.	U
65-85-0	Benzoic acid	53000.	U
111-91-1	bis(2-Chloroethoxy)methane	11000.	U
120-83-2	2,4-Dichlorophenol	11000.	U
120-82-1	1,2,4-Trichlorobenzene	11000.	U
91-20-3	Naphthalene	19000.	
106-47-8	4-Chloroaniline	11000.	U
87-68-3	Hexachlorobutadiene	11000.	U
59-50-7	4-Chloro-3-methylphenol	11000.	U
91-57-6	2-Methylnaphthalene	8000.	J
77-47-4	Hexachlorocyclopentadiene	11000.	U
88-06-2	2,4,6-Trichlorophenol	11000.	U
95-95-4	2,4,5-Trichlorophenol	53000.	U
91-58-7	2-Chloronaphthalene	11000.	U
88-74-4	2-Nitroaniline	53000.	U
131-11-3	Dimethylphthalate	11000.	U
208-96-8	Acenaphthylene	11000.	U
606-20-2	2,6-Dinitrotoluene	11000.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0106

SBC8

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005405

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41387

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	53000.	U
83-32-9	Acenaphthene	11000.	U
51-28-5	2,4-Dinitrophenol	53000.	U
100-02-7	4-Nitrophenol	53000.	U
132-64-9	Dibenzofuran	11000.	U
121-14-2	2,4-Dinitrotoluene	11000.	U
84-66-2	Diethylphthalate	11000.	U
7005-72-3	4-Chlorophenyl-phenylether	11000.	U
86-73-7	Fluorene	11000.	U
100-01-6	4-Nitroaniline	53000.	U
534-52-1	4,6-Dinitro-2-methylphenol	53000.	U
86-30-6	N-Nitrosodiphenylamine	11000.	U
101-55-3	4-Bromophenyl-phenylether	11000.	U
118-74-1	Hexachlorobenzene	11000.	U
87-86-5	Pentachlorophenol	53000.	U
85-01-8	Phenanthrene	11000.	U
120-12-7	Anthracene	11000.	U
84-74-2	Di-n-butylphthalate	5900.	J
206-44-0	Fluoranthene	11000.	U
129-00-0	Pyrene	11000.	U
85-68-7	Butylbenzylphthalate	41000.	B
91-94-1	3,3'-Dichlorobenzidine	22000.	U
56-55-3	Benzo(a)anthracene	11000.	U
218-01-9	Chrysene	11000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	220000.	B E
117-84-0	Di-n-octylphthalate	11000.	U
205-99-2	Benzo(b)fluoranthene	11000.	U
207-08-9	Benzo(k)fluoranthene	11000.	U
50-32-8	Benzo(a)pyrene	11000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	11000.	U
53-70-3	Dibenz(a,h)anthracene	11000.	U
191-24-2	Benzo(g,h,i)perylene	11000.	U

(1) - Cannot be separated from diphenylamine

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0107

SD01

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005406

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41351

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450.	U
111-44-4	bis(2-Chloroethyl)ether	450.	U
95-57-8	2-Chlorophenol	450.	U
541-73-1	1,3-Dichlorobenzene	450.	U
106-46-7	1,4-Dichlorobenzene	450.	U
100-51-6	Benzyl alcohol	450.	U
95-50-1	1,2-Dichlorobenzene	450.	U
95-48-7	2-Methylphenol	450.	U
108-60-1	bis(2-Chloroisopropyl)ether	450.	U
106-44-5	4-Methylphenol	450.	U
621-64-7	N-Nitroso-di-n-propylamine	450.	U
67-72-1	Hexachloroethane	450.	U
98-95-3	Nitrobenzene	450.	U
78-59-1	Isophorone	450.	U
88-75-5	2-Nitrophenol	450.	U
105-67-9	2,4-Dimethylphenol	450.	U
65-85-0	Benzoic acid	2200.	U
111-91-1	bis(2-Chloroethoxy)methane	450.	U
120-83-2	2,4-Dichlorophenol	450.	U
120-82-1	1,2,4-Trichlorobenzene	450.	U
91-20-3	Naphthalene	450.	U
106-47-8	4-Chloroaniline	450.	U
87-68-3	Hexachlorobutadiene	450.	U
59-50-7	4-Chloro-3-methylphenol	450.	U
91-57-6	2-Methylnaphthalene	450.	U
77-47-4	Hexachlorocyclopentadiene	450.	U
88-06-2	2,4,6-Trichlorophenol	450.	U
95-95-4	2,4,5-Trichlorophenol	2200.	U
91-58-7	2-Chloronaphthalene	450.	U
88-74-4	2-Nitroaniline	2200.	U
131-11-3	Dimethylphthalate	450.	U
208-96-8	Acenaphthylene	450.	U
606-20-2	2,6-Dinitrotoluene	450.	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0108 SD01

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID: 005406

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41351

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2200.	U
83-32-9	Acenaphthene	450.	U
51-28-5	2,4-Dinitrophenol	2200.	U
100-02-7	4-Nitrophenol	2200.	U
132-64-9	Dibenzofuran	450.	U
121-14-2	2,4-Dinitrotoluene	450.	U
84-66-2	Diethylphthalate	450.	U
7005-72-3	4-Chlorophenyl-phenylether	450.	U
86-73-7	Fluorene	450.	U
100-01-6	4-Nitroaniline	2200.	U
534-52-1	4,6-Dinitro-2-methylphenol	2200.	U
86-30-6	N-Nitrosodiphenylamine	450.	U
101-55-3	4-Bromophenyl-phenylether	450.	U
118-74-1	Hexachlorobenzene	450.	U
87-86-5	Pentachlorophenol	2200.	U
85-01-8	Phenanthrene	450.	U
120-12-7	Anthracene	450.	U
84-74-2	Di-n-butylphthalate	450.	U
206-44-0	Fluoranthene	450.	U
129-00-0	Pyrene	450.	U
85-68-7	Butylbenzylphthalate	450.	U
91-94-1	3,3'-Dichlorobenzidine	900.	U
56-55-3	Benzo(a)anthracene	450.	U
218-01-9	Chrysene	450.	U
117-81-7	bis(2-Ethylhexyl)phthalate	280.	BJ
117-84-0	Di-n-octylphthalate	450.	U
205-99-2	Benzo(b)fluoranthene	450.	U
207-08-9	Benzo(k)fluoranthene	450.	U
50-32-8	Benzo(a)pyrene	450.	U
193-39-5	Indeno(1,2,3-cd)pyrene	450.	U
53-70-3	Dibenz(a,h)anthracene	450.	U
191-24-2	Benzo(g,h,i)perylene	450.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0109

SW01

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID: 005403

Sample wt/vol: 1015.0 (g/mL) ML Lab File ID: 41349

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	49.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	49.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	49.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0110

SW01

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) WATER Lab Sample ID: 005403

Sample wt/vol: 1015.0 (g/mL) ML Lab File ID: 41349

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	49.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	49.	U
100-02-7	4-Nitrophenol	49.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	49.	U
534-52-1	4,6-Dinitro-2-methylphenol	49.	U
86-30-6	N-Nitrosodiphenylamine	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	49.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	BJ
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0111 | SBLKW

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Q1032802

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 41346

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0112

SBLKW

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: Q1032802

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 41346

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	4.	J
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0113

SBLKS

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: Q1032902

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41350

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350.	U
111-44-4	bis(2-Chloroethyl)ether	350.	U
95-57-8	2-Chlorophenol	350.	U
541-73-1	1,3-Dichlorobenzene	350.	U
106-46-7	1,4-Dichlorobenzene	350.	U
100-51-6	Benzyl alcohol	350.	U
95-50-1	1,2-Dichlorobenzene	350.	U
95-48-7	2-Methylphenol	350.	U
108-60-1	bis(2-Chloroisopropyl)ether	350.	U
106-44-5	4-Methylphenol	350.	U
621-64-7	N-Nitroso-di-n-propylamine	350.	U
67-72-1	Hexachloroethane	350.	U
98-95-3	Nitrobenzene	350.	U
78-59-1	Isophorone	350.	U
88-75-5	2-Nitrophenol	350.	U
105-67-9	2,4-Dimethylphenol	350.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(2-Chloroethoxy)methane	350.	U
120-83-2	2,4-Dichlorophenol	350.	U
120-82-1	1,2,4-Trichlorobenzene	350.	U
91-20-3	Naphthalene	350.	U
106-47-8	4-Chloroaniline	350.	U
87-68-3	Hexachlorobutadiene	350.	U
59-50-7	4-Chloro-3-methylphenol	350.	U
91-57-6	2-Methylnaphthalene	350.	U
77-47-4	Hexachlorocyclopentadiene	350.	U
88-06-2	2,4,6-Trichlorophenol	350.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	350.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethylphthalate	350.	U
208-96-8	Acenaphthylene	350.	U
606-20-2	2,6-Dinitrotoluene	350.	U

0047

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKS

Lab Name: ECOTEK Contract: 1 9 0114

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

atrix: (soil/water) SOIL Lab Sample ID: Q1032902

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41350

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	350.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	350.	U
121-14-2	2,4-Dinitrotoluene	350.	U
84-66-2	Diethylphthalate	350.	U
7005-72-3	4-Chlorophenyl-phenylether	350.	U
86-73-7	Fluorene	350.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine	350.	U
101-55-3	4-Bromophenyl-phenylether	350.	U
118-74-1	Hexachlorobenzene	350.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	350.	U
120-12-7	Anthracene	350.	U
84-74-2	Di-n-butylphthalate	350.	U
206-44-0	Fluoranthene	350.	U
129-00-0	Pyrene	350.	U
85-68-7	Butylbenzylphthalate	67.	J
91-94-1	3,3'-Dichlorobenzidine	690.	U
56-55-3	Benzo(a)anthracene	350.	U
218-01-9	Chrysene	350.	U
117-81-7	bis(2-Ethylhexyl)phthalate	110.	J
117-84-0	Di-n-octylphthalate	350.	U
205-99-2	Benzo(b)fluoranthene	350.	U
207-08-9	Benzo(k)fluoranthene	350.	U
50-32-8	Benzo(a)pyrene	350.	U
193-39-5	Indeno(1,2,3-cd)pyrene	350.	U
53-70-3	Dibenz(a,h)anthracene	350.	U
191-24-2	Benzo(g,h,i)perylene	350.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0115

SB05 MS

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005404MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41385

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7600.	J
111-44-4	bis(2-Chloroethyl)ether	10000.	U
95-57-8	2-Chlorophenol	4200.	J
541-73-1	1,3-Dichlorobenzene	10000.	U
106-46-7	1,4-Dichlorobenzene	1400.	J
100-51-6	Benzyl alcohol	10000.	U
95-50-1	1,2-Dichlorobenzene	10000.	U
95-48-7	2-Methylphenol	10000.	U
108-60-1	bis(2-Chloroisopropyl)ether	10000.	U
106-44-5	4-Methylphenol	10000.	U
621-64-7	N-Nitroso-di-n-propylamine	10000.	U
67-72-1	Hexachloroethane	10000.	U
98-95-3	Nitrobenzene	10000.	U
78-59-1	Isophorone	2400.	J
88-75-5	2-Nitrophenol	10000.	U
105-67-9	2,4-Dimethylphenol	10000.	U
65-85-0	Benzoic acid	49000.	U
111-91-1	bis(2-Chloroethoxy)methane	10000.	U
120-83-2	2,4-Dichlorophenol	10000.	U
120-82-1	1,2,4-Trichlorobenzene	1700.	J
91-20-3	Naphthalene	5600.	J
106-47-8	4-Chloroaniline	10000.	U
87-68-3	Hexachlorobutadiene	10000.	U
59-50-7	4-Chloro-3-methylphenol	2900.	J
91-57-6	2-Methylnaphthalene	2300.	J
77-47-4	Hexachlorocyclopentadiene	10000.	U
88-06-2	2,4,6-Trichlorophenol	10000.	U
95-95-4	2,4,5-Trichlorophenol	49000.	U
91-58-7	2-Chloronaphthalene	10000.	U
88-74-4	2-Nitroaniline	49000.	U
131-11-3	Dimethylphthalate	11000.	
208-96-8	Acenaphthylene	10000.	U
606-20-2	2,6-Dinitrotoluene	10000.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB05 MS

1 9 0116

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005404MS

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 41385

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	49000.	U
83-32-9	Acenaphthene	1700.	J
51-28-5	2,4-Dinitrophenol	49000.	U
100-02-7	4-Nitrophenol	49000.	U
132-64-9	Dibenzofuran	10000.	U
121-14-2	2,4-Dinitrotoluene	530.	J
84-66-2	Diethylphthalate	10000.	U
7005-72-3	4-Chlorophenyl-phenylether	10000.	U
86-73-7	Fluorene	10000.	U
100-01-6	4-Nitroaniline	49000.	U
534-52-1	4,6-Dinitro-2-methylphenol	49000.	U
86-30-6	N-Nitrosodiphenylamine	10000.	U
101-55-3	4-Bromophenyl-phenylether	10000.	U
118-74-1	Hexachlorobenzene	10000.	U
87-86-5	Pentachlorophenol	2900.	J
85-01-8	Phenanthrene	10000.	U
120-12-7	Anthracene	10000.	U
84-74-2	Di-n-butylphthalate	26000.	
206-44-0	Fluoranthene	10000.	U
129-00-0	Pyrene	1400.	J
85-68-7	Butylbenzylphthalate	40000.	B
91-94-1	3,3'-Dichlorobenzidine	20000.	U
56-55-3	Benzo(a)anthracene	10000.	U
218-01-9	Chrysene	10000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	120000.	B
117-84-0	Di-n-octylphthalate	10000.	U
205-99-2	Benzo(b)fluoranthene	10000.	U
207-08-9	Benzo(k)fluoranthene	10000.	U
50-32-8	Benzo(a)pyrene	10000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000.	U
53-70-3	Dibenz(a,h)anthracene	10000.	U
191-24-2	Benzo(g,h,i)perylene	10000.	U

(1) - Cannot be separated from diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBCS MSD

Lab Name: ECOTEK Contract: 1 9 0117

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005404MSD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 41386

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	6900.	J
111-44-4	bis(2-Chloroethyl)ether	10000.	U
95-57-8	2-Chlorophenol	4000.	J
541-73-1	1,3-Dichlorobenzene	10000.	U
106-46-7	1,4-Dichlorobenzene	1200.	J
100-51-6	Benzyl alcohol	10000.	U
95-50-1	1,2-Dichlorobenzene	10000.	U
95-48-7	2-Methylphenol	10000.	U
108-60-1	bis(2-Chloroisopropyl)ether	10000.	U
106-44-5	4-Methylphenol	10000.	U
621-64-7	N-Nitroso-di-n-propylamine	3400.	J
67-72-1	Hexachloroethane	10000.	U
98-95-3	Nitrobenzene	10000.	U
78-59-1	Isophorone	2200.	J
88-75-5	2-Nitrophenol	10000.	U
105-67-9	2,4-Dimethylphenol	10000.	U
65-85-0	Benzoic acid	49000.	U
111-91-1	bis(2-Chloroethoxy)methane	10000.	U
120-83-2	2,4-Dichlorophenol	10000.	U
120-82-1	1,2,4-Trichlorobenzene	1600.	J
91-20-3	Naphthalene	5000.	J
106-47-8	4-Chloroaniline	10000.	U
87-68-3	Hexachlorobutadiene	10000.	U
59-50-7	4-Chloro-3-methylphenol	3000.	J
91-57-6	2-Methylnaphthalene	2000.	J
77-47-4	Hexachlorocyclopentadiene	10000.	U
88-06-2	2,4,6-Trichlorophenol	10000.	U
95-95-4	2,4,5-Trichlorophenol	49000.	U
91-58-7	2-Chloronaphthalene	10000.	U
88-74-4	2-Nitroaniline	49000.	U
131-11-3	Dimethylphthalate	11000.	
208-96-8	Acenaphthylene	10000.	U
606-20-2	2,6-Dinitrotoluene	10000.	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0118

SB05 MSD

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 005404MSD

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 41386

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	49000.	U
83-32-9	Acenaphthene	1800.	J
51-28-5	2,4-Dinitrophenol	49000.	U
100-02-7	4-Nitrophenol	5100.	J
132-64-9	Dibenzofuran	10000.	U
121-14-2	2,4-Dinitrotoluene	670.	J
84-66-2	Diethylphthalate	10000.	U
7005-72-3	4-Chlorophenyl-phenylether	10000.	U
86-73-7	Fluorene	10000.	U
100-01-6	4-Nitroaniline	49000.	U
534-52-1	4,6-Dinitro-2-methylphenol	49000.	U
86-30-6	N-Nitrosodiphenylamine	10000.	U
101-55-3	4-Bromophenyl-phenylether	10000.	U
118-74-1	Hexachlorobenzene	10000.	U
87-86-5	Pentachlorophenol	3300.	J
85-01-8	Phenanthrene	10000.	U
120-12-7	Anthracene	10000.	U
84-74-2	Di-n-butylphthalate	24000.	
206-44-0	Fluoranthene	10000.	U
129-00-0	Pyrene	1500.	J
85-68-7	Butylbenzylphthalate	39000.	B
91-94-1	3,3'-Dichlorobenzidine	20000.	U
56-55-3	Benzo(a)anthracene	10000.	U
218-01-9	Chrysene	10000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	110000.	B
117-84-0	Di-n-octylphthalate	10000.	U
205-99-2	Benzo(b)fluoranthene	10000.	U
207-08-9	Benzo(k)fluoranthene	10000.	U
50-32-8	Benzo(a)pyrene	10000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000.	U
53-70-3	Dibenz(a,h)anthracene	10000.	U
191-24-2	Benzo(g,h,i)perylene	10000.	U

(1) - Cannot be separated from diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

1 9 0119

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SBLKW	61	75	115	54	26	63		0
2	PW01	79	71	90	55	28	68		0
3	PW02	82	84	66	44	32	63		0
4	SW01	71	71	41	47	22	59		0
5									
6									
7									
8									
9									
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28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d6	(10- 94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0053

FORM II SV-1 1/87 Rev.

2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

1 9 0120

Lab Name: ECOTEK Contract:

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SB05	82	42	57	47	20 *	29		1
2	SB05 MS	98	49	59	62	27	34		0
3	SB05 MSD	87	52	65	60	23 *	41		1
4	SB06	120 *	53	74	80	35	50		1
5									
6									
7									
8									
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29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d6	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0054

FORM II SV-2 1/87 Rev.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

1 9 0121

Lab Name: ECOTEX Contract:

Lab Code: ECOTEX Case No.: BASKET SAS No.: SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SBLKS	74	72	108	92	50	61		0
2	SD01	70	65	103	89	53	66		0
3	SB01	72	65	102	92	47	75		0
4									
5									
6									
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28									
29									
30									

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d6	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0055

FORM II SV-2 1/87 Rev.

3D

SOIL SEMIVOLATILE MATRIX SPIKE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ECOTEK Contract: 1 9 0122

Lab Code: ECOTEK Case No.: 8A8/ET SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: 8B05 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Phenol	7734.	4267.	7640.	44.	26- [illegible]
2-Chlorophenol	7734.	1012.	4250.	42.	25-[illegible]
1,4-Dichlorobenzene	3867.	0.	1371.	35.	28-[illegible]
N-Nitroso-di-n-prop.(1)	3867.	0.	0.	0. *	41-126
1,2,4-Trichlorobenzene	3867.	0.	1679.	43.	38-107
4-Chloro-3-methylphenol	7734.	0.	2905.	38.	26-103
Acenaphthene	3867.	0.	1699.	44.	31-137
4-Nitrophenol	7734.	0.	0.	0. *	11-114
2,4-Dinitrotoluene	3867.	0.	533.	14. *	28- 89
Pentachlorophenol	7734.	0.	2897.	37.	17-109
Pyrene	3867.	0.	1359.	35.	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	7708.	6918.	34.	24.	35	26- 90
2-Chlorophenol	7708.	4006.	39.	7.	50	25-102
1,4-Dichlorobenzene	3854.	1177.	31.	15.	27	28-104
N-Nitroso-di-n-prop.(1)	3854.	3378.	88.	200. *	38	41-126
1,2,4-Trichlorobenzene	3854.	1606.	42.	4.	23	38-107
4-Chloro-3-methylphenol	7708.	3036.	39.	5.	33	26-103
Acenaphthene	3854.	1803.	47.	6.	19	31-137
4-Nitrophenol	7708.	5078.	66.	200. *	50	11-114
2,4-Dinitrotoluene	3854.	672.	17. *	23.	47	28- 89
Pentachlorophenol	7708.	3296.	43.	13.	47	17-109
Pyrene	3854.	1468.	38.	8.	36	35-142

(1) N-Nitroso-di-n-propylamine

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

* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 4 out of 22 outside limits

COMMENTS:

0056

1 9 0123
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

PW01

Lab Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005401

Sample wt/vol: 970. (g/mL)ML Lab File ID: 1009B8

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec.100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	ALPHA-BHC	.031	U
319-85-7	BETA-BHC	.062	U
319-86-8	DELTA-BHC	.094	U
58-89-9	GAMMA-BHC	.042	U
76-44-8	HEPTACHLOR	.031	U
309-00-2	ALDRIN	.042	U
1024-57-3	HEPTACHLOR EPOXIDE	.86	U
959-98-8	ENDOSULFAN I	.15	U
60-57-1	DIELDRIN	.021	U
72-55-9	4,4'-DDE	.042	U
72-20-8	ENDRIN	.062	U
33213-65-9	ENDOSULFAN II	.042	U
72-54-8	4,4'-DDD	.11	U
1031-07-8	ENDOSULFAN SULFATE	.69	U
50-29-3	4,4'-DDT	.12	U
72-43-5	METHOXYCHLOR	1.8	U
7421-93-4	ENDRIN ALDEHYDE	.24	U
5103-71-9	ALPHA CHLORDANE	.15	U
5103-74-2	GAMMA CHLORDANE	.15	U
8001-35-2	TOXAPHENE	2.5	U
12674-11-2	AROCLOR-1016	.26	U
11104-28-2	AROCLOR-1221	.26	U
11141-16-5	AROCLOR-1232	.26	U
53469-21-9	AROCLOR-1242	.68	U
12672-29-6	AROCLOR-1248	.26	U
11097-69-1	AROCLOR-1254	.52	U
11096-82-5	AROCLOR-1260	.52	U

1 9 0124

EPA SAMPLE NO.

PWC2

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005402

Sample wt/vol: 995. (g/mL)ML Lab File ID: 1009B9

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec.100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	ALPHA-BHC	.030	U
319-85-7	BETA-BHC	.061	U
319-86-8	DELTA-BHC	.091	U
58-89-9	GAMMA-BHC	.041	U
76-44-8	HEPTACHLOR	.030	U
309-00-2	ALDRIN	.041	U
1024-57-3	HEPTACHLOR EPOXIDE	.84	U
959-98-8	ENDOSULFAN I	.14	U
60-57-1	DIELDRIN	.020	U
72-55-9	4,4'-DDE	.041	U
72-20-8	ENDRIN	.061	U
33213-65-9	ENDOSULFAN II	.041	U
72-54-8	4,4'-DDD	.11	U
1031-07-8	ENDOSULFAN SULFATE	.67	U
50-29-3	4,4'-DDT	.12	U
72-43-5	METHOXYCHLOR	1.8	U
7421-93-4	ENDRIN ALDEHYDE	.23	U
5103-71-9	ALPHA CHLORDANE	.14	U
5103-74-2	GAMMA CHLORDANE	.14	U
8001-35-2	TOXAPHENE	2.4	U
12674-11-2	AROCLOR-1016	.25	U
11104-28-2	AROCLOR-1221	.25	U
11141-16-5	AROCLOR-1232	.25	U
53469-21-9	AROCLOR-1242	.66	U
12672-29-6	AROCLOR-1248	.25	U
11097-69-1	AROCLOR-1254	.51	U
11096-82-5	AROCLOR-1260	.51	U

1 9 0125
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB01

Name: ECOTEK Contract: RFW

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005601

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B19

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/10/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	2.5	U
319-85-7	BETA-BHC	5.1	U
319-86-8	DELTA-BHC	7.6	U
58-89-9	GAMMA-BHC	3.4	U
76-44-8	HEPTACHLOR	2.5	U
309-00-2	ALDRIN	3.4	U
1024-57-3	HEPTACHLOR EPOXIDE	70.	U
959-98-8	ENDOSULFAN I	12.	U
60-57-1	DIELDRIN	1.7	U
72-55-9	4,4'-DDE	3.4	U
72-20-8	ENDRIN	5.1	U
33213-65-9	ENDOSULFAN II	3.4	U
72-54-8	4,4'-DDD	9.3	U
1031-07-8	ENDOSULFAN SULFATE	56.	U
50-29-3	4,4'-DDT	10.	U
72-43-5	METHOXYCHLOR	150.	U
7421-93-4	ENDRIN ALDEHYDE	19.	U
5103-71-9	ALPHA CHLORDANE	12.	U
5103-74-2	GAMMA CHLORDANE	12.	U
8001-35-2	TOXAPHENE	200.	U
12674-11-2	AROCLOR-1016	21.	U
11104-28-2	AROCLOR-1221	21.	U
11141-16-5	AROCLOR-1232	21.	U
53469-21-9	AROCLOR-1242	55.	U
12672-29-6	AROCLOR-1248	21.	U
11097-69-1	AROCLOR-1254	42.	U
11096-82-5	AROCLOR-1260	42.	U

1 9 0126
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB05

L Name: ECOTEK Contract: RFW

L Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005404*20

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B11

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	47.	U
319-85-7	BETA-BHC	94.	U
319-86-8	DELTA-BHC	140.	U
58-89-9	GAMMA-BHC	240.	
76-44-8	HEPTACHLOR	120.	
309-00-2	ALDRIN	130.	
1024-57-3	HEPTACHLOR EPOXIDE	1300.	U
959-98-8	ENDOSULFAN I	220.	U
60-57-1	DIELDRIN	31.	U
72-55-9	4,4'-DDE	63.	U
72-20-8	ENDRIN	94.	U
33213-65-9	ENDOSULFAN II	63.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	ENDOSULFAN SULFATE	1000.	U
50-29-3	4,4'-DDT	190.	U
72-43-5	METHOXYCHLOR	2800.	U
7421-93-4	ENDRIN ALDEHYDE	360.	U
5103-71-9	ALPHA CHLORDANE	220.	U
5103-74-2	GAMMA CHLORDANE	220.	U
8001-35-2	TOXAPHENE	3800.	U
12674-11-2	AROCLOR-1016	390.	U
11104-28-2	AROCLOR-1221	390.	U
11141-16-5	AROCLOR-1232	390.	U
53469-21-9	AROCLOR-1242	1000.	U
12672-29-6	AROCLOR-1248	390.	U
11097-69-1	AROCLOR-1254	3400.	
11096-82-5	AROCLOR-1260	780.	U

1 9 0127
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB06

Name: ECOTEK Contract: RFW

L Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005405*20

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B14

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	51.	U
319-85-7	BETA-BHC	100.	U
319-86-8	DELTA-BHC	150.	U
58-89-9	GAMMA-BHC	68.	U
76-44-8	HEPTACHLOR	51.	U
309-00-2	ALDRIN	68.	U
1024-57-3	HEPTACHLOR EPOXIDE	1400.	U
959-98-8	ENDOSULFAN I	240.	U
60-57-1	DIELDRIN	34.	U
72-55-9	4,4'-DDE	68.	U
72-20-8	ENDRIN	100.	U
33213-65-9	ENDOSULFAN II	68.	U
72-54-8	4,4'-DDD	190.	U
1031-07-8	ENDOSULFAN SULFATE	1100.	U
50-29-3	4,4'-DDT	200.	U
72-43-5	METHOXYCHLOR	3000.	U
7421-93-4	ENDRIN ALDEHYDE	390.	U
5103-71-9	ALPHA CHLORDANE	240.	U
5103-74-2	GAMMA CHLORDANE	240.	U
8001-35-2	TOXAPHENE	4100.	U
12674-11-2	AROCLOR-1016	420.	U
11104-28-2	AROCLOR-1221	420.	U
11141-16-5	AROCLOR-1232	420.	U
53469-21-9	AROCLOR-1242	1100.	U
12672-29-6	AROCLOR-1248	420.	U
11097-69-1	AROCLOR-1254	2700.	
11096-82-5	AROCLOR-1260	850.	U

1 9 0128
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SD01

Name: ECOTEK Contract: RFW

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005406

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B16

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 23. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/10/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	2.6	U
319-85-7	BETA-BHC	5.3	U
319-86-8	DELTA-BHC	7.9	U
58-89-9	GAMMA-BHC	3.5	U
76-44-8	HEPTACHLOR	2.6	U
309-00-2	ALDRIN	9.2	
1024-57-3	HEPTACHLOR EPOXIDE	73.	U
959-98-8	ENDOSULFAN I	12.	U
60-57-1	DIELDRIN	1.8	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	ENDRIN	5.3	U
33213-65-9	ENDOSULFAN II	3.5	U
72-54-8	4,4'-DDD	10.	U
1031-07-8	ENDOSULFAN SULFATE	58.	U
50-29-3	4,4'-DDT	11.	U
72-43-5	METHOXYCHLOR	150.	U
7421-93-4	ENDRIN ALDEHYDE	20.	U
5103-71-9	ALPHA CHLORDANE	7.2	J
5103-74-2	GAMMA CHLORDANE	12.	U
8001-35-2	TOXAPHENE	210.	U
12674-11-2	AROCLOR-1016	22.	U
11104-28-2	AROCLOR-1221	22.	U
11141-16-5	AROCLOR-1232	22.	U
53469-21-9	AROCLOR-1242	57.	U
12672-29-6	AROCLOR-1248	22.	U
11097-69-1	AROCLOR-1254	44.	U
11096-82-5	AROCLOR-1260	44.	U

1 9 0129
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SW01

Lab Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005403

Sample wt/vol: 1005. (g/mL)ML Lab File ID: 1009B10

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec.100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	ALPHA-BHC	.030	U
319-85-7	BETA-BHC	.060	U
319-86-8	DELTA-BHC	.090	U
58-89-9	GAMMA-BHC	.040	U
76-44-8	HEPTACHLOR	.030	U
309-00-2	ALDRIN	.040	U
1024-57-3	HEPTACHLOR EPOXIDE	.068	J
959-98-8	ENDOSULFAN I	.14	U
60-57-1	DIELDRIN	.020	U
72-55-9	4,4'-DDE	.040	U
72-20-8	ENDRIN	.060	U
33213-65-9	ENDOSULFAN II	.040	U
72-54-8	4,4'-DDD	.11	U
1031-07-8	ENDOSULFAN SULFATE	.66	U
50-29-3	4,4'-DDT	.12	U
72-43-5	METHOXYCHLOR	1.8	U
7421-93-4	ENDRIN ALDEHYDE	.23	U
5103-71-9	ALPHA CHLORDANE	.14	U
5103-74-2	GAMMA CHLORDANE	.14	U
8001-35-2	TOXAPHENE	2.4	U
12674-11-2	AROCLOR-1016	.25	U
11104-28-2	AROCLOR-1221	.25	U
11141-16-5	AROCLOR-1232	.25	U
53469-21-9	AROCLOR-1242	.65	U
12672-29-6	AROCLOR-1248	.25	U
11097-69-1	AROCLOR-1254	.50	U
11096-82-5	AROCLOR-1260	.50	U

1 9 0130
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

PBLKW

Name: ECOTEK Contract: RFW

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: Q1032801

Sample wt/vol: 1000. (g/mL)ML Lab File ID: 1009B5

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec.100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	ALPHA-BHC	.030	U
319-85-7	BETA-BHC	.061	U
319-86-8	DELTA-BHC	.091	U
58-89-9	GAMMA-BHC	.040	U
76-44-8	HEPTACHLOR	.030	U
309-00-2	ALDRIN	.040	U
1024-57-3	HEPTACHLOR EPOXIDE	.84	U
959-98-8	ENDOSULFAN I	.14	U
60-57-1	DIELDRIN	.020	U
72-55-9	4,4'-DDE	.040	U
72-20-8	ENDRIN	.061	U
33213-65-9	ENDOSULFAN II	.040	U
72-54-8	4,4'-DDD	.11	U
1031-07-8	ENDOSULFAN SULFATE	.67	U
50-29-3	4,4'-DDT	.12	U
72-43-5	METHOXYCHLOR	1.8	U
7421-93-4	ENDRIN ALDEHYDE	.23	U
5103-71-9	ALPHA CHLORDANE	.14	U
5103-74-2	GAMMA CHLORDANE	.14	U
8001-35-2	TOXAPHENE	2.4	U
12674-11-2	AROCLOR-1016	.25	U
11104-28-2	AROCLOR-1221	.25	U
11141-16-5	AROCLOR-1232	.25	U
53469-21-9	AROCLOR-1242	.66	U
12672-29-6	AROCLOR-1248	.25	U
11097-69-1	AROCLOR-1254	.51	U
11096-82-5	AROCLOR-1260	.51	U

1 9 0131

EPA SAMPLE NO.

PBLKS

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Name: ECOTEK Contract: RFW

L Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: Q1032902

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B4

Level: (low/med) LOW Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	2.0	U
319-85-7	BETA-BHC	4.1	U
319-86-8	DELTA-BHC	6.1	U
58-89-9	GAMMA-BHC	2.7	U
76-44-8	HEPTACHLOR	2.0	U
309-00-2	ALDRIN	2.7	U
1024-57-3	HEPTACHLOR EPOXIDE	56.	U
959-98-8	ENDOSULFAN I	9.5	U
60-57-1	DIELDRIN	1.4	U
72-55-9	4,4'-DDE	2.7	U
72-20-8	ENDRIN	4.1	U
33213-65-9	ENDOSULFAN II	2.7	U
72-54-8	4,4'-DDD	7.4	U
1031-07-8	ENDOSULFAN SULFATE	45.	U
50-29-3	4,4'-DDT	8.1	U
72-43-5	METHOXYCHLOR	120.	U
7421-93-4	ENDRIN ALDEHYDE	16.	U
5103-71-9	ALPHA CHLORDANE	9.5	U
5103-74-2	GAMMA CHLORDANE	9.5	U
8001-35-2	TOXAPHENE	160.	U
12674-11-2	AROCLOR-1016	17.	U
11104-28-2	AROCLOR-1221	17.	U
11141-16-5	AROCLOR-1232	17.	U
53469-21-9	AROCLOR-1242	44.	U
12672-29-6	AROCLOR-1248	17.	U
11097-69-1	AROCLOR-1254	34.	U
11096-82-5	AROCLOR-1260	34.	U

1 9 0132
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB05 MS

Name: ECOTEK Contract: RFW

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005404MS*20

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B12

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	47.	U
319-85-7	BETA-BHC	94.	U
319-86-8	DELTA-BHC	140.	U
58-89-9	GAMMA-BHC	200.	
76-44-8	HEPTACHLOR	120.	
309-00-2	ALDRIN	140.	
1024-57-3	HEPTACHLOR EPOXIDE	1300.	U
959-98-8	ENDOSULFAN I	220.	U
60-57-1	DIELDRIN	31.	U
72-55-9	4,4'-DDE	63.	U
72-20-8	ENDRIN	94.	U
33213-65-9	ENDOSULFAN II	63.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	ENDOSULFAN SULFATE	1000.	U
50-29-3	4,4'-DDT	190.	U
72-43-5	METHOXYCHLOR	2800.	U
7421-93-4	ENDRIN ALDEHYDE	360.	U
5103-71-9	ALPHA CHLORDANE	220.	U
5103-74-2	GAMMA CHLORDANE	220.	U
8001-35-2	TOXAPHENE	3800.	U
12674-11-2	AROCLOR-1016	390.	U
11104-28-2	AROCLOR-1221	390.	U
11141-16-5	AROCLOR-1232	390.	U
53469-21-9	AROCLOR-1242	1000.	U
12672-29-6	AROCLOR-1248	390.	U
11097-69-1	AROCLOR-1254	4800.	
11096-82-5	AROCLOR-1260	790.	U

1 9 0133
EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

SB05 MSD

Name: ECOTEK Contract: RFW

L Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Matrix: (soil/water) SOIL Lab Sample ID: 005404MSD*20

Sample wt/vol: 30. (g/mL) G Lab File ID: 1009B13

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0. Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	ALPHA-BHC	47.	U
319-85-7	BETA-BHC	94.	U
319-86-8	DELTA-BHC	140.	U
58-89-9	GAMMA-BHC	170.	
76-44-8	HEPTACHLOR	100.	
309-00-2	ALDRIN	110.	
1024-57-3	HEPTACHLOR EPOXIDE	1300.	U
959-98-8	ENDOSULFAN I	220.	U
60-57-1	DIELDRIN	31.	U
72-55-9	4,4'-DDE	63.	U
72-20-8	ENDRIN	94.	U
33213-65-9	ENDOSULFAN II	63.	U
72-54-8	4,4'-DDD	170.	U
1031-07-8	ENDOSULFAN SULFATE	1000.	U
50-29-3	4,4'-DDT	190.	U
72-43-5	METHOXYCHLOR	2800.	U
7421-93-4	ENDRIN ALDEHYDE	360.	U
5103-71-9	ALPHA CHLORDANE	220.	U
5103-74-2	GAMMA CHLORDANE	220.	U
8001-35-2	TOXAPHENE	3800.	U
12674-11-2	AROCLOR-1016	390.	U
11104-28-2	AROCLOR-1221	390.	U
11141-16-5	AROCLOR-1232	390.	U
53469-21-9	AROCLOR-1242	1000.	U
12672-29-6	AROCLOR-1248	390.	U
11097-69-1	AROCLOR-1254	4200.	
11096-82-5	AROCLOR-1260	780.	U

2E
WATER PESTICIDE SURROGATE RECOVERY

L Name: ECOTEK Contract: RFW

L Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKW	51	
2	ZZZZZ	28	
3	ZZZZZ	28	
4	PW01	46	
5	PW02	45	
6	SW01	45	
7	ZZZZZ	40	
8	ZZZZZ	36	
9	ZZZZZ	17 *	
10	ZZZZZ	0 *	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = DBC

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0053

FORM II PEST-1 1/87 Rev.

2F
SOIL PESTICIDE SURROGATE RECOVERY

1 9 0135

Lab Name: ECOTEK Contract: RFW

Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKS	50	
2	SB05	2649 *	
3	SB05 MS	3530 *	
4	SB05 MSD	3103 *	
5	SB06	4955 *	
6	SD01	71	
7	SB01	51	
8	AR1254	17 *	
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

S1 (DBC) = DBC

ADVISORY QC LIMITS (20-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0069

FORM II PEST-2 1/87 Rev.

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: Basket SAS No.: SDG No.: PW01

Matrix Spike - EPA Sample No.: SB05 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
GAMMA-BHC	30.94	238.67	196.81	0. *	46-127
HEPTACHLOR	30.94	123.54	122.53	0. *	35-130
ALDRIN	30.94	132.07	137.22	17. *	34-132
DIELDRIN	77.34	.00	.00	0. *	31-134
ENDRIN	77.34	.00	.00	0. *	42-139
4,4'-DDT	77.34	.00	.00	0. *	23-134

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
GAMMA-BHC	30.83	174.64	0. *	42.	50	46-127
HEPTACHLOR	30.83	100.00	0. *	184. *	31	35-130
ALDRIN	30.83	109.68	0. *	319. *	43	34-132
DIELDRIN	77.08	.00	0. *	*#NA	38	31-134
ENDRIN	77.08	.00	0. *	*#NA	45	42-139
4,4'-DDT	77.08	.00	0. *	*#NA	50	23-134

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

* Values outside of QC limits

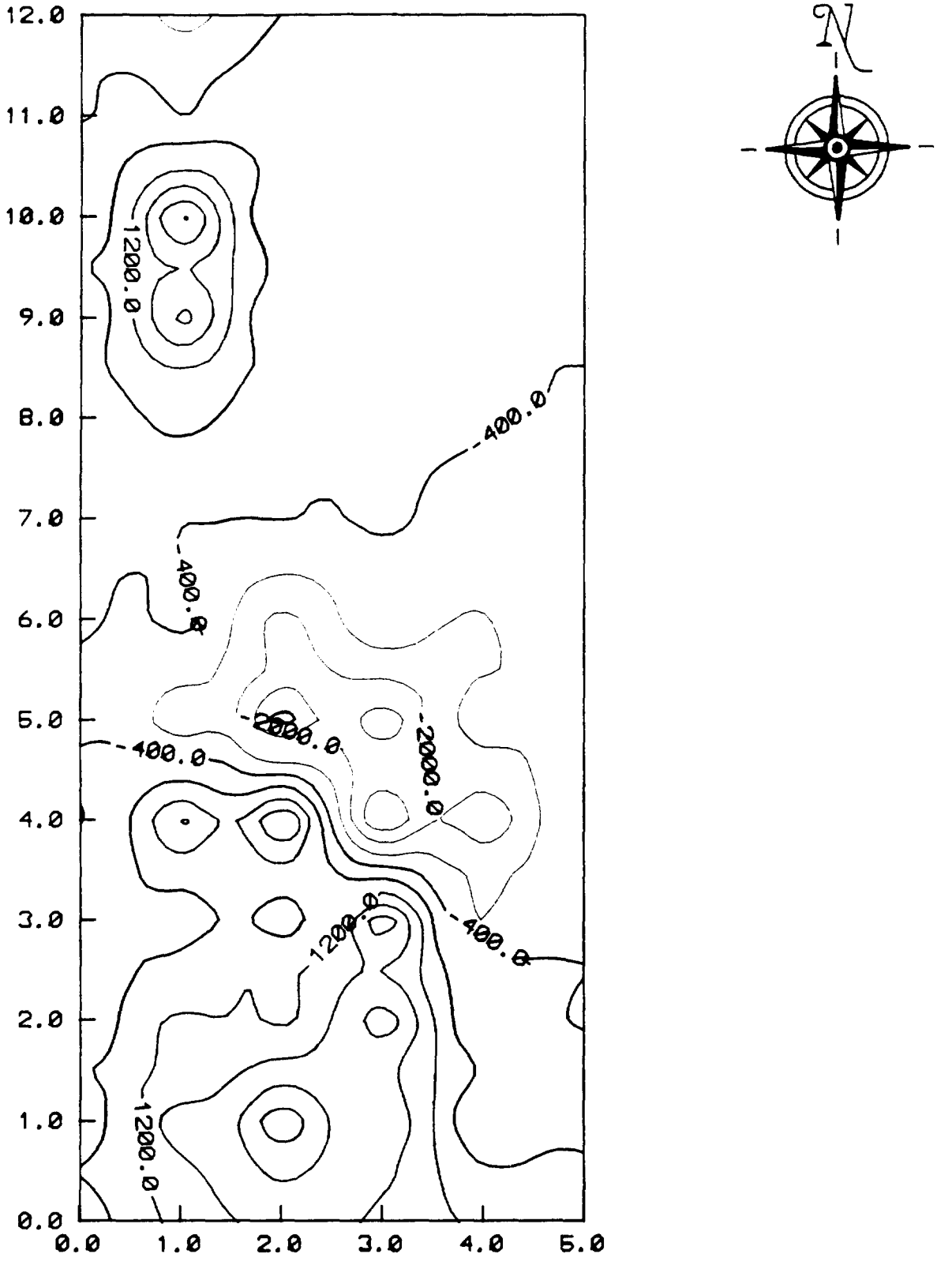
RPD: 2 out of 6 outside limits
Spike Recovery: 12 out of 12 outside limits

COMMENTS:

ATTACHMENT G

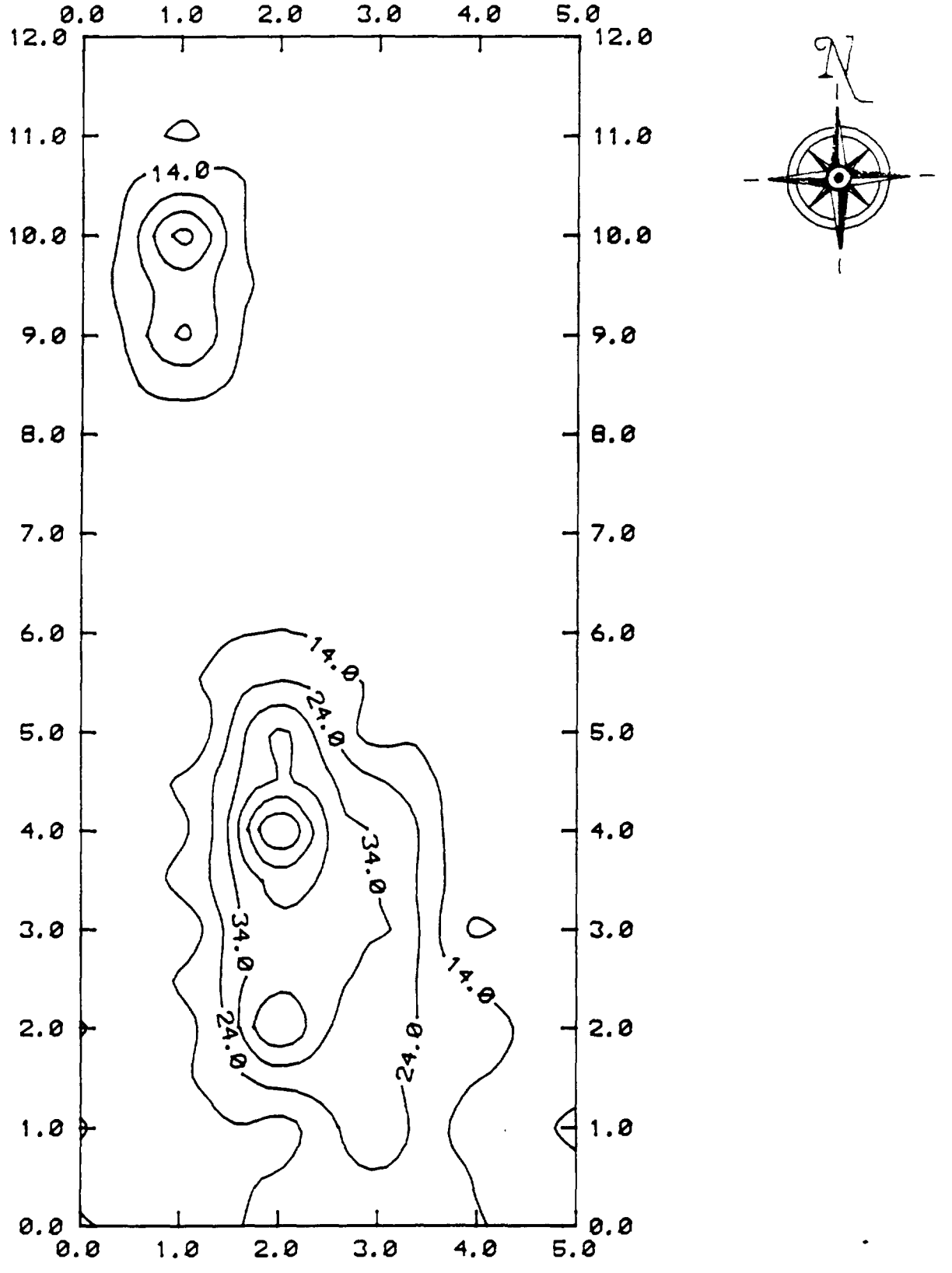
GEOPHYSICAL DATA

‘KET CREEK MAGNETIC ANOMALY CONTOUR MAP



SCALE 1 inch = 1.5 data units

BASKET CREEK EM-CONDUCTIVITY CONTOUR MAP



SCALE 1 inch = 1.5 data units

MAG FIELD DATA SHEET

1 9 0140

Background 52,300

STATION X	STATION Y	Reading	Reading	Reading	52300	Comments
0	0			52475	+175	
0	1			52353	+53	
0	2			52134	-166	
0	3			51987	-313	
0	4			51875	-425	
0	5			51831	-469	
0	6			52000	-300	
0	7			52020	-280	
0	8			52147	-153	
0	9			52148	-152	
0	10			52093	-207	
0	11			51844	-456	Power lines
0	12			51670	-630	
1	1			54634	+2,334	
1	2			53600	+1,300	x
1	3			52240	-60	
1	4			54410	+2,110	x
1	5			50541	-1759	
1	6			52125	-175	
1	7			51918	-382	
1	8			52919	+619	
1	9			55303	+3003	x
1	10			55999	+3,699	x
1	11			51873	-427	
1	12			50800	-1500	

Location Basket Creek

MAG FIELD DATA SHEET

1 9 0141

Background 52,300

STATION X	STATION Y	Reading	Reading	Reading	52300	Comments
2	1			56415	4,115	
2	2			53361	1,061	
2	3			52300	0	
2	4			55140	2840	☆ 58800 ½ between 23-24
2	5			48385	-3,915	
2	6			50127	-2,173	
2	7			51940	-360	
2	8			52137	-163	
2	9			52031	-269	
2	10			51980	-320	
3	1			54710	2,410	
3	2			55435	3,135	
3	3			58501	6,201	& Near Concrete Pipe
3	4			49720	-3,580	
3	5			49140	-3,160	
3	6			51610	-690	
3	7			52051	-249	
3	8			52146	-154	
4	1			52120	-180	
4	2			52062	-238	
4	3			51082	-1218	
4	4			49698	-2602	
4	5			51518	-782	On Outcrop

Location Basket Creek

MAG FIELD DATA SHEET

1 9 0142

Background 52,300

STATION X	STATION Y	Reading	Reading	Reading	52300	Comments
5	1					
5	2			51840	-460	
5	3			51770	-530	
5	4			51713	-587	
5	5			51873	-427	Outcrop

Location Basket Creek

EM FIELD DATA SHEET

Background 3.4 mmho/m

STATION		Instrument Reading	SCALE	Conductivity mmho/m	Comments
X	Y				
0	0	.35	10	3.5	
0	1	.36	10	3.6	
0	2	.36	10	3.6	
0	3	.40	10	4.0	
0	4	.42	10	4.2	
0	5	.42	10	4.2	
0	6	.44	10	4.4	
0	7	.58	10	5.8	
0	8	.45	10	4.5	
0	9	.44	10	4.4	
0	10	.46	10	4.6	Power line
0	11	.52	10	5.2	
0	12	.44	10	4.4	
1	1	.82	10	8.2	
1	2	.38	30	11.4	.18 (30) E-W
1	3	.80	10	8.0	
1	4	.41	30	12.3	.25(30) E-W
1	5	Ø	Ø	Ø	4.4 E-W
1	6	.40	30	12	.56(30) E-W
1	7	.88	10	8.8	
1	8	.75	10	7.5	
1	9	.36	100	36	
1	10	.48	100	48	.28(100) E-W
1	11	Ø	Ø	Ø	Void
1	12	.36	30	10.8	.30(30) E-W

Location Basket Creek

EM FIELD DATA SHEET

STATION X	STATION Y	Instrument Reading	SCALE	Conductivity mmho/m	Comments
2	1	.32	30	9.6	
2	2	.55	100	55	Crevass in Ground
2	3	.42	100	42	
2	4	.76	100	76	
2	5	.46	100	46	
2	6	.47	30	14.1	
2	7	.70	10	7.0	
2	8	.55	10	5.5	
2	9	.51	10	5.1	
2	10	.50	10	5.0	
3	1	.95	30	28.5	
3	2	.92	30	27.6	.65(30) E-W
3	3	.35	100	35	Near Concrete Pipe
3	4	.34	100	34	.55(100) E-W
3	5	.91	10	9.1	
3	6	.50	10	5.0	
3	7	.50	10	5.0	
3	8	.49	10	4.9	Outcrop
4	1	.34	30	10.2	
4	2	.60	30	18	
4	3	Ø	Ø	Ø	
4	4	.76	10	7.6	
4	5	.42	10	4.2	

Location Basket Creek

EM FIELD DATA SHEET

STATION		Instrument Reading	SCALE	Conductivity mmho/m	Comments
X	Y				
5	2	.64	10	6.4	
5	3	.48	10	4.8	
5	4	.45	10	4.5	
5	5	.42	10	4.2	Outcrop

Location Basket Creek

ATTACHMENT H

GEORGIA EPD FILE MATERIAL

SITE SUMMARY

BASKET CREEK BURIAL PIT/SITE NO. 2
DOUGLASVILLE, GA - DOUGLAS COUNTY

GAD980844849

The site consists of an old impoundment roughly ¼ acre in size that was used for approximately one year (1975-1976) before being burned and covered over. Mr. Lee Wallace of Douglasville, Georgia (now deceased) owned the site and accepted wastes from Young Refinery in Atlanta. State records indicate that Young Refinery accepted wastes for disposal or resale from various industries in Georgia and Alabama. The refinery is believed to have disposed of refinery wastes, amines, phenols, chloroform, acetone and trichloroethane, among other possible hazardous chemicals. The impoundment was probably unlined and the exact depth is uncertain (hence the impoundment contains an unknown amount of waste). The impoundment may be releasing its contents into the groundwater. There is no indication of surface water contamination at the site but the Chattahoochee River is about 1 mile away.

There are about 10 residences in the area and all use ground water for domestic purposes. One residence (trailer) is located about 75 feet from the impoundment and its well (depth unknown) is also about 75 feet from the impoundment.

The site is assessed as "high priority" for site inspection because of the distinct possibility that the buried impoundment may be contaminating nearby drinking wells. Mr. Lee Wallace's widow currently owns the site.

CSW/mcw006

1 9 0148

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D980844849

II. SITE NAME AND LOCATION

01 SITE NAME	02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER
Basket Creek Burial Pit/Site No. 2	Basket Creek Road

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Douglasville	GA	30135	Douglas	097	6

09 COORDINATES LATITUDE	LONGITUDE
33° 35' 33.5"	84° 49' 01.0"

10 DIRECTIONS TO SITE (Starting from nearest public road)

1 mile south of Hwy. 166 and Hwy. 5 off Capps Ferry Road on Basket Creek Road.

III. RESPONSIBLE PARTIES

01 OWNER (Facility)	02 STREET (Business, mailing, residential)
Lee Wallace	4022 Boyd Road

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Douglasville	GA	30134	404 377-7010

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Same as above	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)

X A. PRIVATE B. FEDERAL C. STATE D. COUNTY E. MUNICIPAL F. OTHER G. UNKNOWN

14 OWNERSHIP OF WASTES (Check all that apply)

A. RCRA 3005(c) DATE RECEIVED B. UNCONTROLLED WASTE SITE (CERCLA 103(c)) DATE RECEIVED X C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION?

X YES DATE 01 14 85 NO

02 SITE INSPECTED BY

A. EPA B. EPA CONTRACTOR X C. STATE D. OTHER CONTRACTOR E. LOCAL HEALTH OFFICIAL F. OTHER

CONTRACTOR NAME(S)

03 SITE STATUS (Check one)

A. ACTIVE X B. INACTIVE C. UNKNOWN

04 YEARS OF OPERATION

Unknown | about 1975 X UNKNOWN

05 DESCRIPTION OF POTENTIAL HAZARD OF SITE

Old impoundment containing unknown substances burned about 10 years ago. Shortly after the fire, the impoundment was backfilled. Drinking well within 75 feet.

06 POTENTIAL HAZARDOUS CONSEQUENCES AND ENVIRONMENTAL CONDITIONS

Residential structures in the immediate area using well water for drinking purposes. The Chattahoochee River is less than one mile in the drainage from this site.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Based on the above information and all other available information, is this site a high, medium, low, or none priority for inspection?)

X A. HIGH B. MEDIUM C. LOW D. NONE

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 AGENCY	03 TELEPHONE NUMBER
Mrs. Lee Wallace	Owner's Wife	404 377-7010

04 PERSON MAKING INSPECTION	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Steve Walker	DNR	EPD-RAU	404 656-7404	01 23 85

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D980844849

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: Unknown
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
X POTENTIAL ALLEGED

From liquids in old impoundment. Drinking water well is about 75 feet from old impoundment.

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL ALLEGED

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL ALLEGED

01 X D. FIRE AND EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: Unknown
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL X ALLEGED

Impoundment reportedly caught fire about 1975.

01 E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL ALLEGED

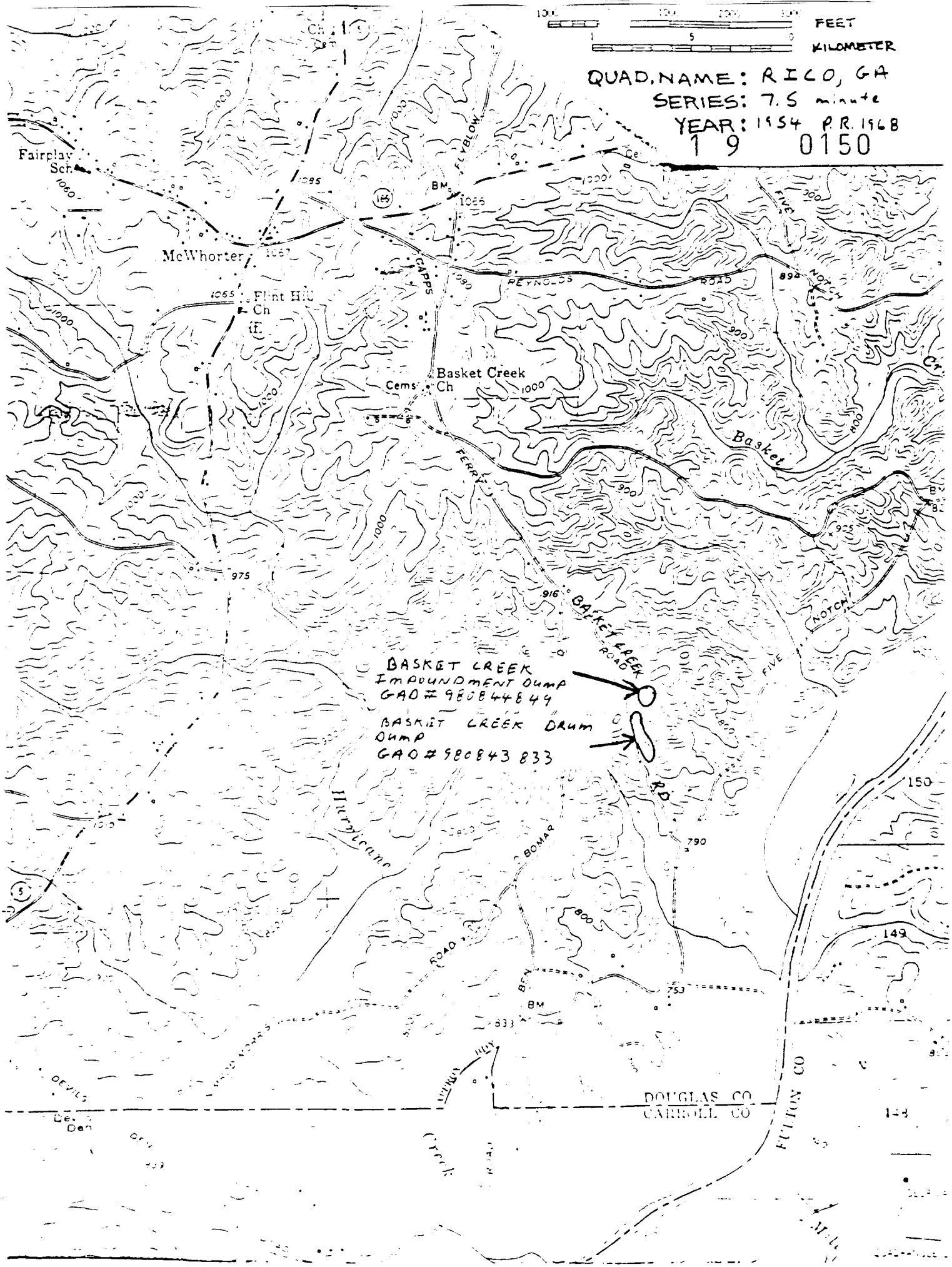
01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL ALLEGED

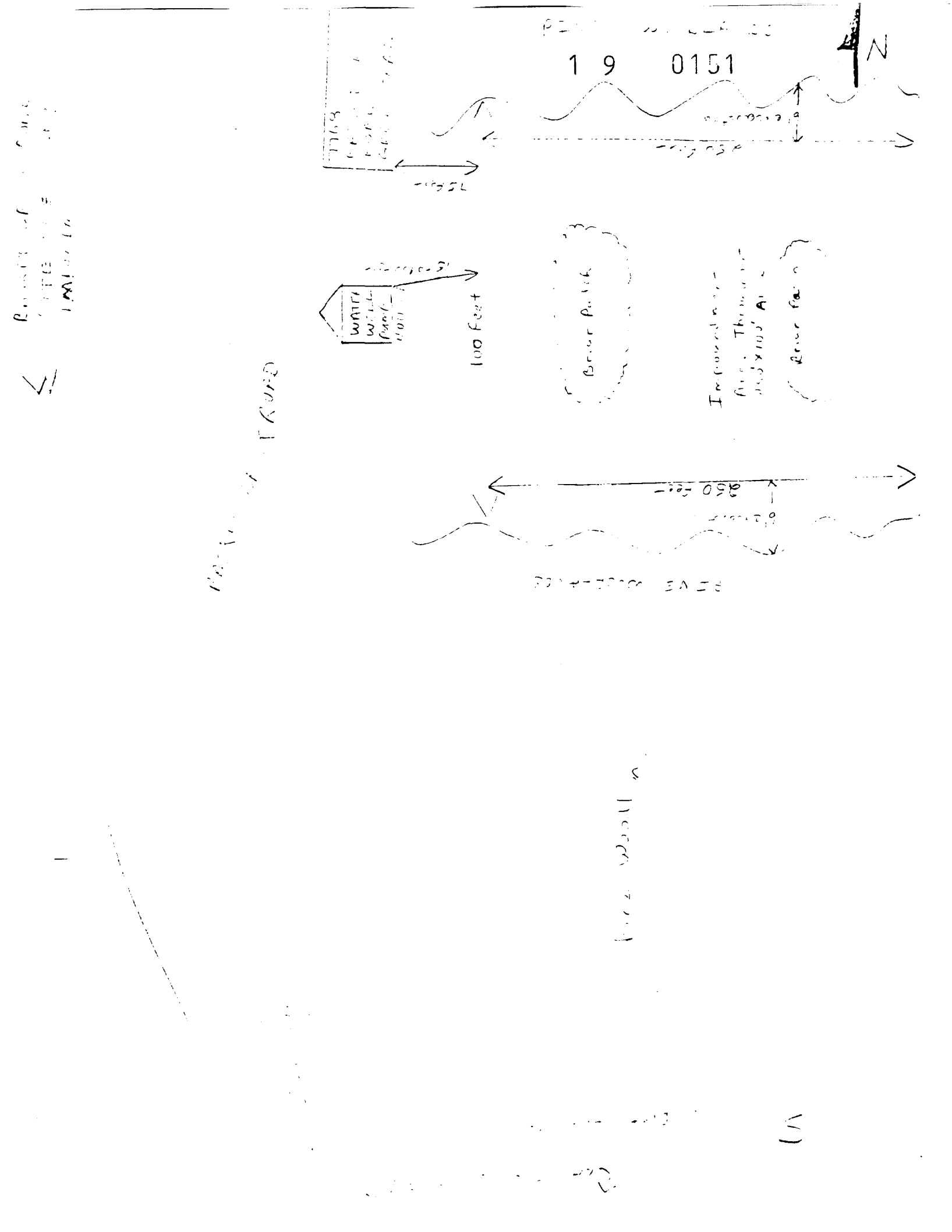
01 X G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: Unknown
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
X POTENTIAL ALLEGED

Drinking water well is about 75 feet from old impoundment.

01 H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL ALLEGED

01 I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED
02 OBSERVED DATE
04 NARRATIVE DESCRIPTION
POTENTIAL ALLEGED


FEET
KILOMETER
QUAD. NAME: RICO, GA
SERIES: 7.5 minute
YEAR: 1954 P.R. 1968
19 0150
Fairplay Sch
McWhorter
Flint Hill Ch
Basket Creek Ch
Cems
CAPPS FERRY
REYNOLDS ROAD
FLYBLOW
FIVE NOTCH
Basket
BASKET CREEK ROAD
BASKET CREEK IMPOUNDMENT DUMP GAD # 980844844
BASKET CREEK DRUM DUMP GAD # 980843833
Hurricane
BOMAR ROAD
DOUGLAS CO
CARROLL CO
FULTON CO


1 9 0151
N
100 Feet
Brier Patch
Brier Patch
250 Feet

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA, GEORGIA 30334

Commissioner

J. LEONARD LEDBETTER
Division Director

1 9 0152

TRIP REPORT
March 13, 1985

Site Names and
Location: Basket Creek Road Impoundment
Basket Creek Road Drum
Wallace Lake Road Dump
Douglas County, Georgia 30134

Trip By: Jeff Williams
Environmental Specialist
Remedial Action Unit

Accompanied By: None

Date of Trip: March 4, 1985, 10:00 a.m.

Officials Contacted: Mr. Douglas Daniell, Sanitarian
Douglas County Health Department
6770 Selman Drive
Douglasville, Georgia 30134
(404)949-1970

Mr. Clyde Walker, Douglas County DNR Ranger
P. O. Box 382
Douglasville, Georgia 30134
(404)942-4938
GIST - 259-7438

Reference: Site Follow-up regarding Lee Wallace disposal sites in Douglas County.

Comments: The purpose of this trip was to verify and sketch the exact disposal locations of these three former dumpsites in Douglas County. There are two disposal sites located on Basket Creek Road, formerly named Old Capps Ferry Road.

The first site consists of an old abandoned impoundment located at 7768 Basket Creek Road. The residents at this address (Green Trailer), have a thirty-six inch bored well that is located about 75 to 100 feet from the old impoundment area (Photographs). According to Mr. Clyde Walker of the Douglas County Game and Fish Division, the impoundment area was approximately five to eight feet in depth and consisted of a ¼ acre area. According to Mr. Walker, liquid waste from Young Refinery in Douglasville, were poured into this unlined pond. Approximately 10 years ago (1975) the liquids in the impoundment caught fire and were subsequently covered over with fill material. It is unknown if residual waste is contaminating the local drinking water wells in the area. Vegetation in this area is very sparce and consists mostly of briar patches (Photographs, Sketch Site 1).

The second site on Basket Creek Road is located approximately 1,500 feet south of the impoundment area. This site consists of a relatively open valley of young pine trees that is bordered on the north and south by hardwood trees (Sketch Site #2). According to Mr. Doug Daniell, this site was once a steep embankment in which approximately eighty fifty-five gallon drums were dumped and subsequently covered with fill material. Sample analysis of the wastes by Georgia EPD personnel in May 1976 revealed the presence of ortho chlorophenol, actone, tetrachlorethane and chloroform. There is evidence of buried drums still remaining at this site. Several residences in the area use ground water for domestic purposes.

The third site, Wallace Lake Road dump is located at the end of Wallace Lake Road in Douglas County. Formerly, this site consistec of a series of disposal trenches that allegedly received industrial wastes from Young Refinery Corporation and Arrivec Chemicals Company of Douglasville (Site Sketch 3). This site was closed in late 1969 - early 1970 after the Douglas County Sanitary Landfill was opened. This site has since been leveled and filled and is now used as a horse pasture.

All residents living in the immediate area obtain their drinking water from the municipal supplies of Douglas County. There are no private wells within the area according to Mr. Doug Daniell of the Douglas County Health Department.

Conclusions: Based on the file review and officials contacted, it is believed that hazardous materials were accepted at all three subject sites.

Recommendations and Follow-up: Conduct Preliminary Assessments on all three subject sites anc follow-up with possible site inspections.

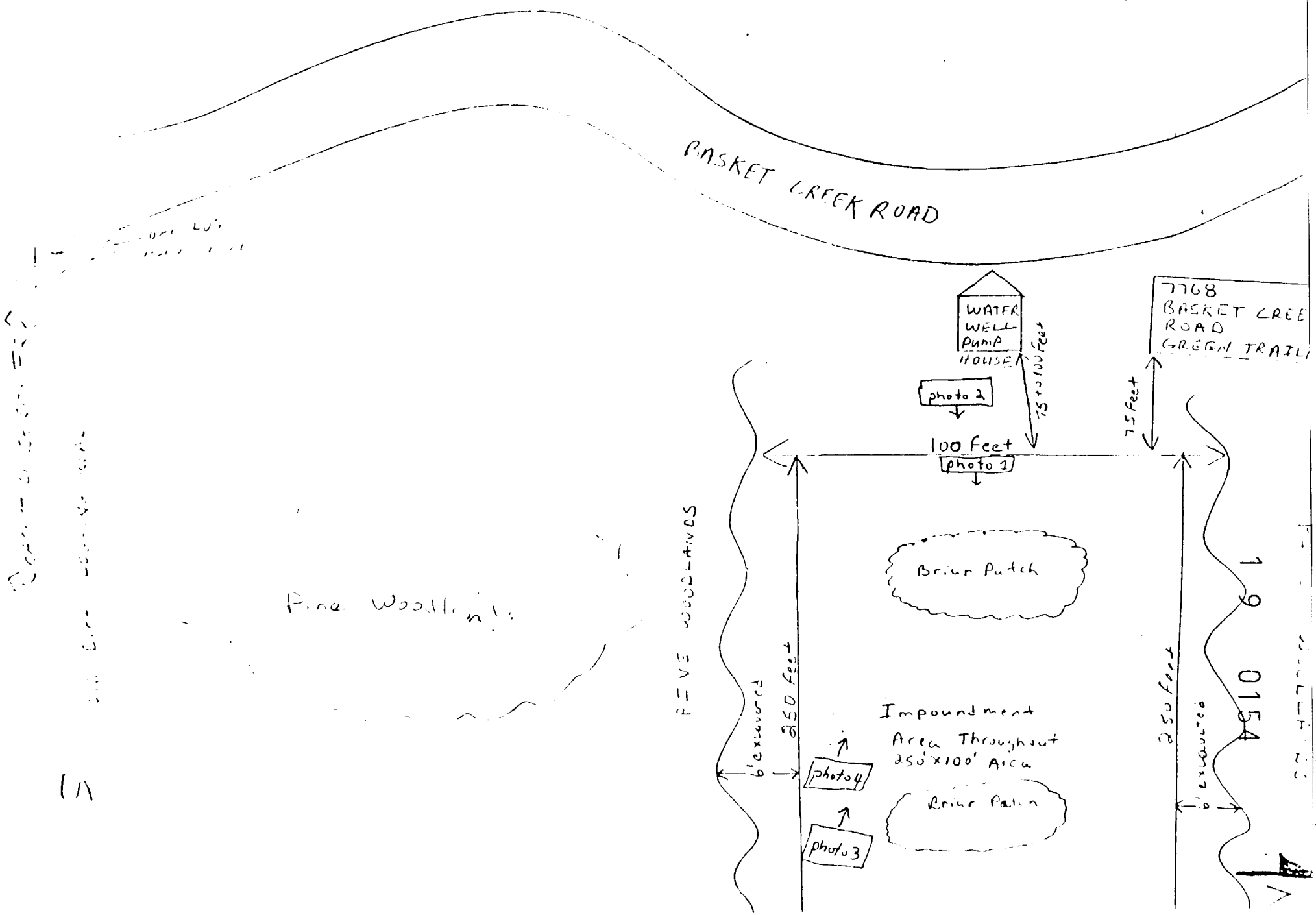
Photographs: Eleven Polaroids

Reviewed By: F. M. Allred for J. F. Surrovie

Attachments: Site Sketchs #1, #2, and #3
USGS 7.5 minute Quadrangle map of Site Locations

JMW/mcw009
cc: John D. Taylor, Jr.
File: Wallace Lake Road (B)
Basket Creek Road Drum Dump (B)
Basket Creek Road Impoundment (B)

BASKET C. K ROAD
SITE SKETCH #1
IMPOUNDMENT



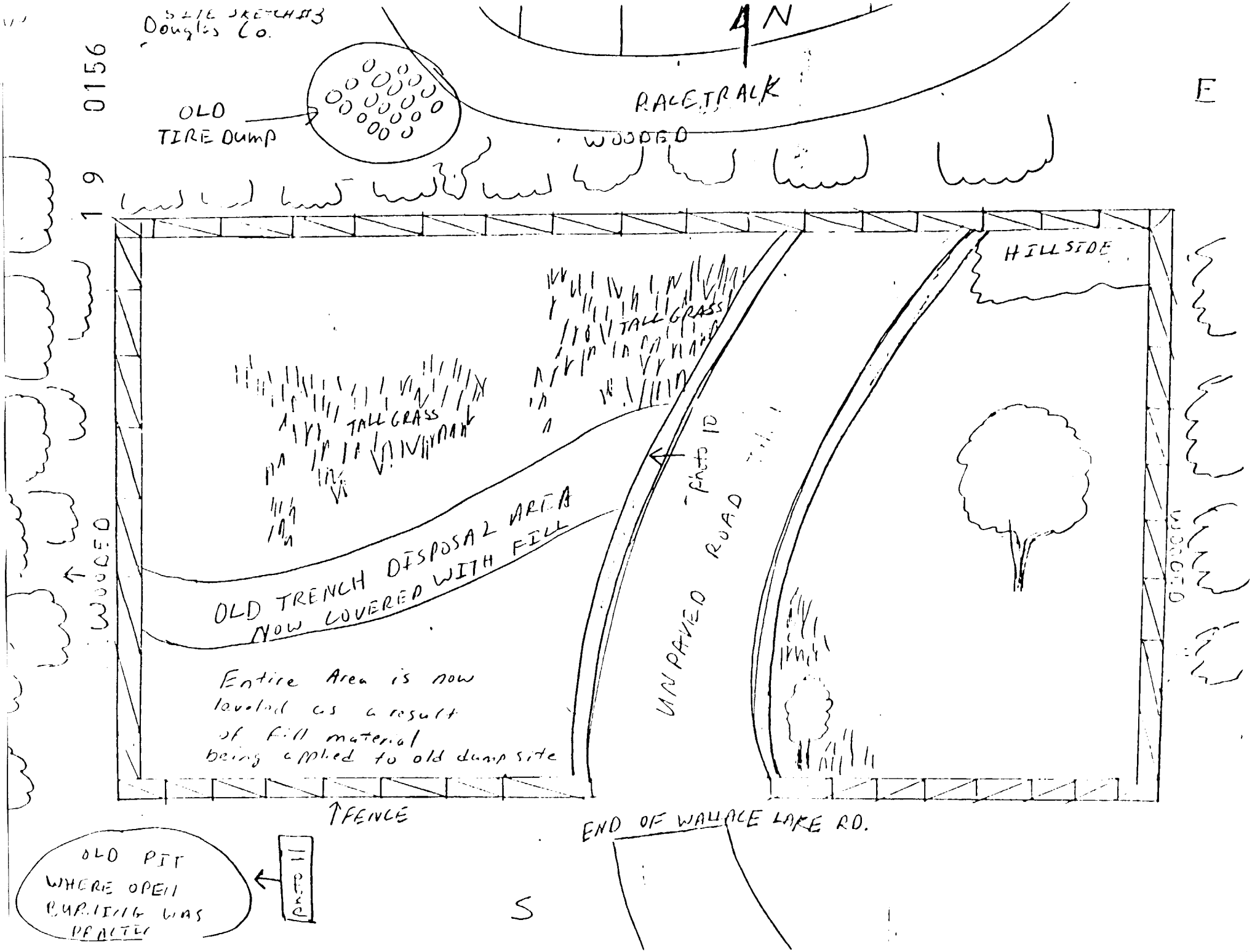
19 0154

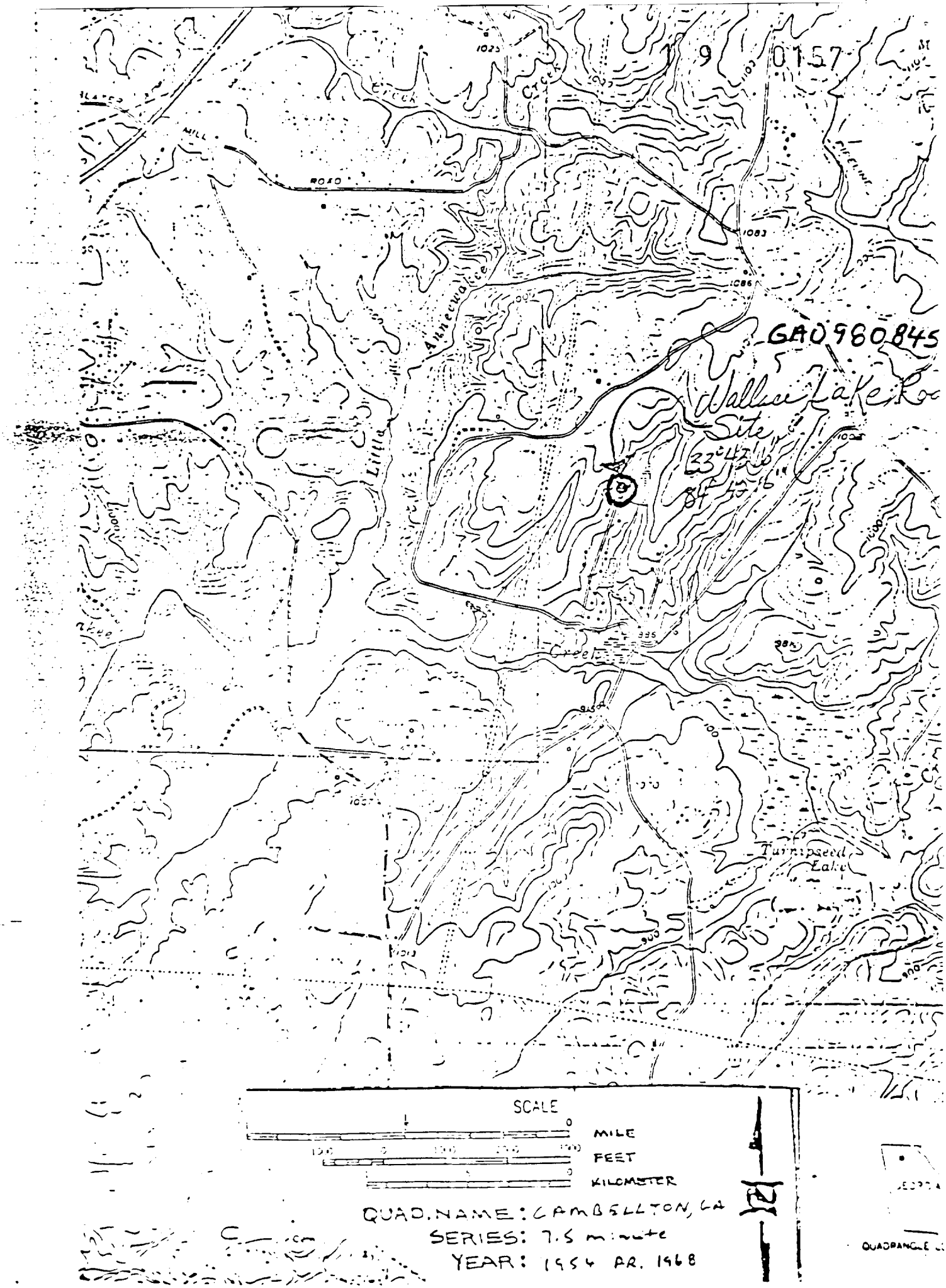
6. JET CREEK RO
SITE SKETCH
DRUM DUMP

SITE SKETCH #3
Douglas Co.

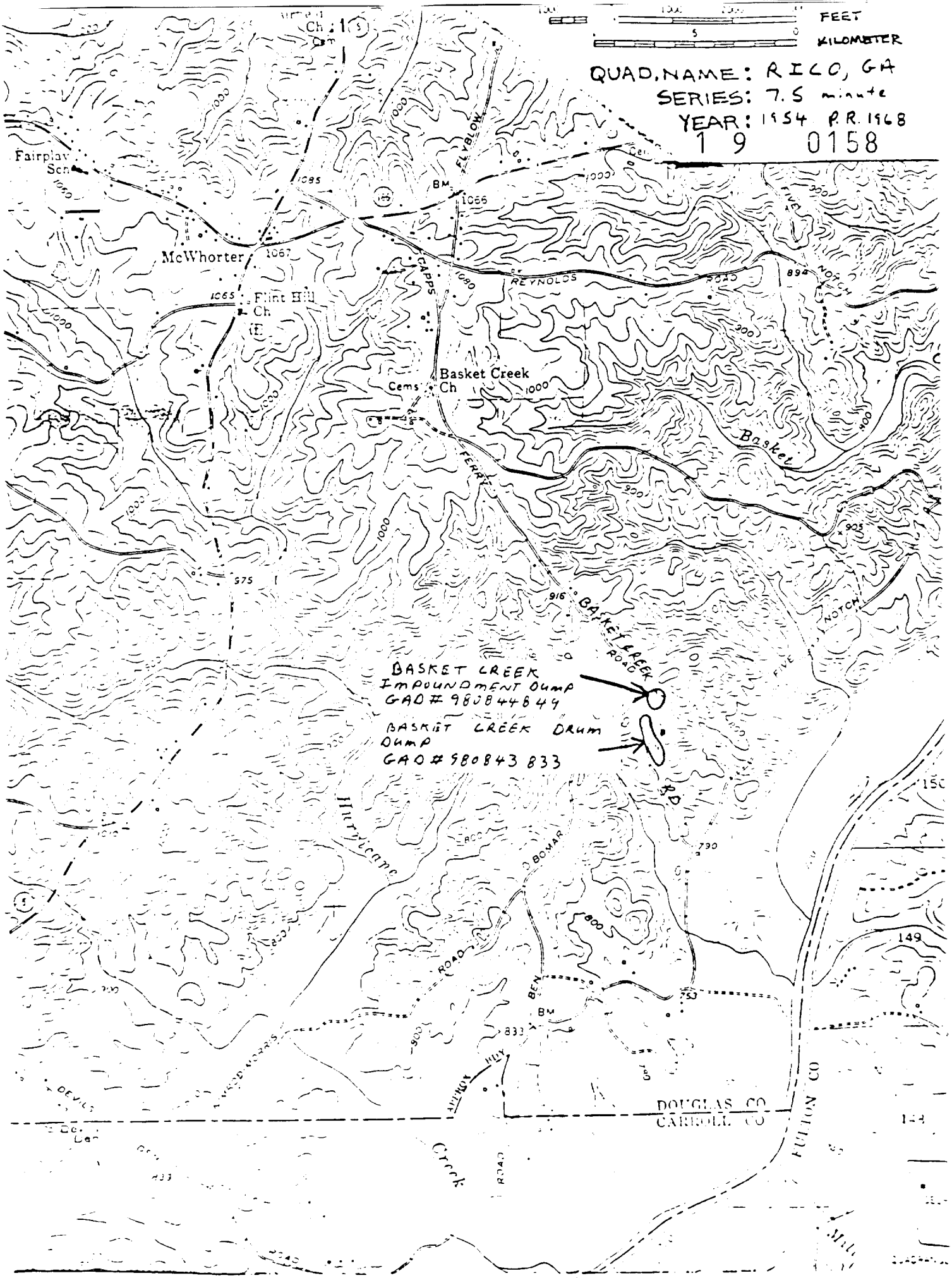
0156

19



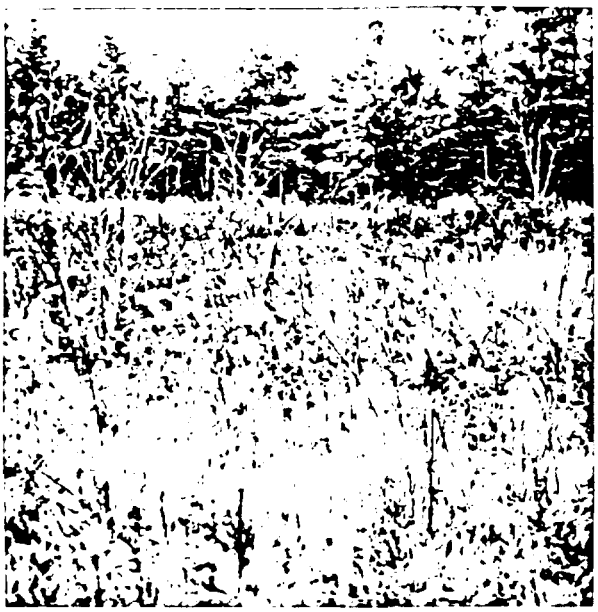


9 0157
GAD980845
Wallace Lake Road
Site
Creek
Little
Annecwakee
Turnipseed Lake
SCALE
MILE
FEET
KILOMETER
QUAD. NAME: CAMBELLTON, GA
SERIES: 7.5 minute
YEAR: 1954 AR. 1968
QUADRANGLE

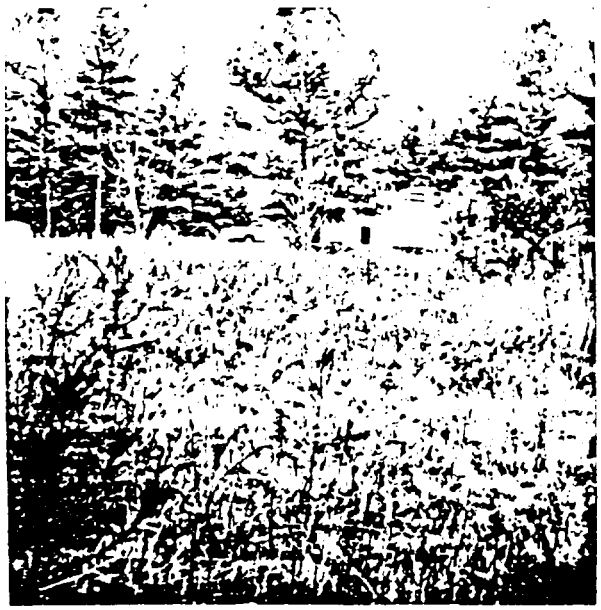

FEET
KILOMETER
QUAD. NAME: RICO, GA
SERIES: 7.5 minute
YEAR: 1954 P.R. 1968
1 9 0158
Fairplay Sch
McWhorter
Flint Hill Ch
Basket Creek Ch
Cems
FLYBLOW
CAPPS
REYNOLDS
ROAD
FERRY
Basket
BASKET CREEK ROAD
FIVE NOTCH
BASKET CREEK IMPOUNDMENT DUMP GAD # 980844849
BASKET CREEK DRUM DUMP GAD # 980843 833
Hurricane
BOMAR
BEN
APPROX HDY
DOUGLAS CO
CARROLL CO
FULTON CO
Creek
ROAD

County Name Douglas
Picture No. 1 of 11
Site Name Basket Creek Impoundment
Date 3-4-85 Weather Clear
Direction Facing Southeast
Photographer Jeff Williams
Program Remedial Actions Unit
Explanation Photograph showing the length and width of old impoundment area. Note the
Other sparse vegetation where the old impoundment was.

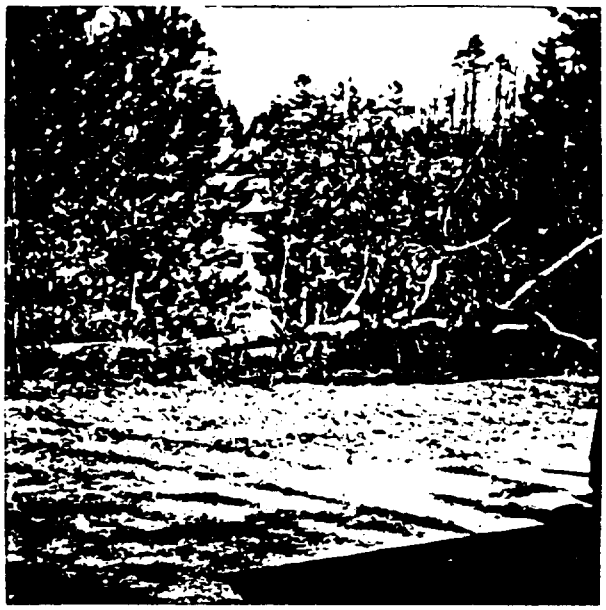
County Name Douglas
Picture No. 2 of 11
Site Name Basket Creek Impoundment Dur
Date 3-4-85 Weather clear
Direction Facing Southeast
Photographer Jeff Williams
Program Remedial Actions Unit
Explanation Photograph of Old Impoundment area from the residence of 7768
Other Basket Creek Road. Residence is approximately 40 to 50 feet ~~from~~ to the left of this photo.



County Name Douglas
Picture No. 3 of 11
Site Name Basket Creek Impoundment Dam
Date 3-4-85 Weather Clear
Direction Facing Northwest
Photographer Jeff Williams
Program Remedial Actions Unit
Explanation Photograph from the back of the impoundment area. Basket Creek Rd is located along
Other Pine Tree Line.
Little White House in upper right of photo is pumphouse for 36" bored well. Well is approx 100-200' from here.

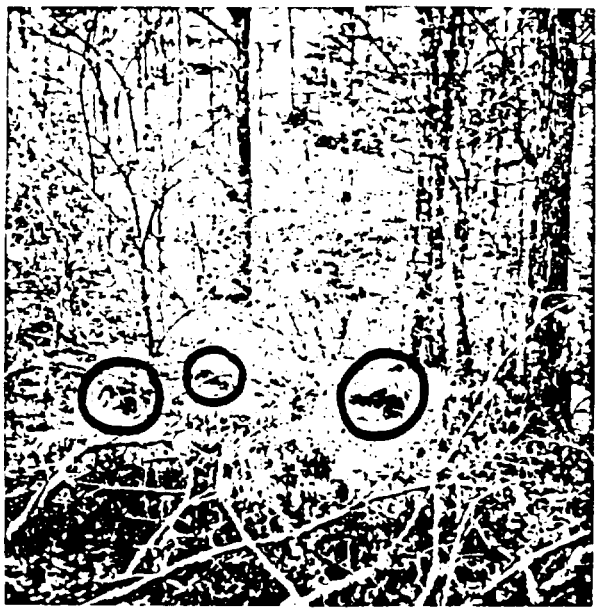


County Name Douglas
Picture No. 4 of 11
Site Name Basket Creek Impoundment Dam
Date 3-4-85 Weather Clear
Direction Facing Northwest
Photographer Jeff Williams
Program Remedial Actions Unit
Explanation Photograph of the Residence and pumphouse from the back of the old
Other impoundment area.
Site slopes to the Southeast

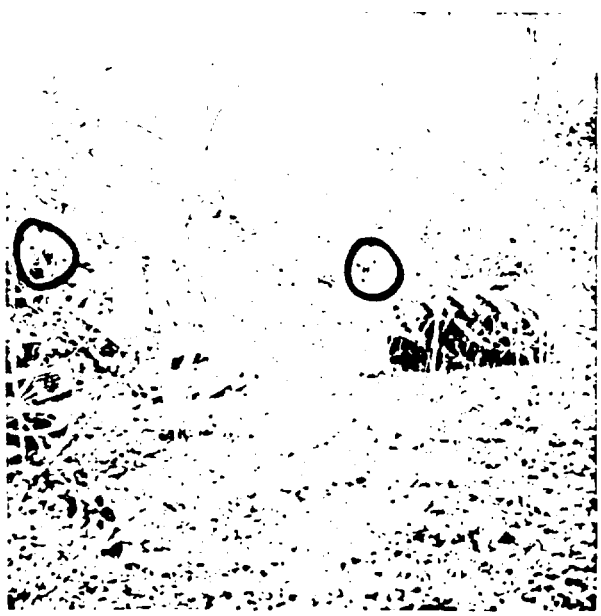


County Name Douglas
Picture No. 5 of 11
Site Name Basket Creek Drum Dump
Date 2-21-85 Weather Clear
Direction Facing North East
Photographer mike Allred
Program Remedial Actions Unit
Explanation Photograph from Basket Creek Road looking at the front area of the drum dump.
Other Old Logging Road runs thru the valley to the top of the hill in upper part of photograph. Note tree that is blocking entrance to the front area of the site. main dumpsite occurs on the right side of this road in the photograph

County Name Douglas
Picture No. 6 of 11
Site Name Basket Creek Drum Dump
Date 2-21-85 Weather Clear
Direction Facing East
Photographer mike Allred
Program Remedial Actions Unit
Explanation Close up photograph of pine tree field which slopes to the bottom of
Other the valley floor. Brown area in middle of photograph is a Briarpatch that has recieved fill material and may contain buried drums.



County Name Douglas
Picture No. 7 of 11
Site Name Basket Creek Drum Dump
Date 3-4-85 Weather Clear
Direction Facing East
Photographer Jeff Williams
Program Remedial Actions Unit
Explanation Photograph of 3 empty crushed drums that are seen from Basket Creek
Other Road. This photograph is taken at the southern end of the drum dump. The slope in this photograph continues to steepen as you encounter the valley floor.



County Name Douglas
Picture No. 8 of 11
Site Name Basket Creek Drum Du.
Date 3-4-85 Weather Clear
Direction Facing North
Photographer Jeff Williams
Program Remedial Actions Unit
Explanation Photograph of tires and some rusted drums that are lying at the bott
Other of the valley floor. Hill side embankment is th result of cover material and drum burial

County Name Douglas
Picture No. 9 of 11
Site Name Basket Creek Drum D
Date 3-4-85 Weather Clear
Direction Facing North west
Photographer Jeff Williams
Program Remedial Actions Un
Explanation Photograph of another tire dump and rusted drums that are
Other lying in this intermitte drainage area.

County Name
Picture No. of
Site Name
Date Weather
Direction Facing
Photographer
Program
Explanation

Other

County Name Douglas
Picture No. 10 of 11
Site Name Wallace Lake Rd Dump
Date 3-4-85 Weather Clear
Direction Facing West
Photographer Jeff Williams
Program Remedial Actions Un.
Explanation Photograph of old trench disposal area that was used to discard waste. Site has since been leveled and turned into a horse pasture. Photograph is from unpaved road that bisects the horse pasture.
Other

County Name Douglas
Picture No. 11 of 11
Site Name Wallace Lake Rd Dump
Date 3-4-85 Weather Clear
Direction Facing West
Photographer Jeff Williams
Program Remedial Actions Un
Explanation Photograph of unconsolidated soils that contained tar like residue on the surface. This area occurs just outside of the fenced pasture on the western margins of the trees. This area is presumed to be an old pit where burning was once practiced.
Other

SITE INSPECTION REPORT

BASKET CREEK BURIED PIT/SITE 2

GAD980844849

Charles P. Evans

Georgia Environmental Protection Division

August 1986

Reviewed By: Mike Allred Date: 9-11-86

BASKET CREEK BURIED PIT/SITE 2

SITE INVESTIGATION REPORT

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BASKET CREEK BURIED PIT/SITE 2

SITE INVESTIGATION REPORT

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1.0 EXECUTIVE SUMMARY

Waste oil and solvents were illegally disposed by Young Refinery Corporation of Douglasville, Georgia in 1976 on a parcel of land owned by Mr. Lee Wallace, now deceased. The wastes disposed on the site consist of waste oil and a variety of solvents. The most predominant of these are methyl ethyl ketone, xylene, toluene, and acetone. The disposal was stopped by the Georgia EPD when they were made aware of it. Details of the incident are incomplete, however, it is suspected that the waste was transported to the site in drums where the contents of the drums were emptied into the impoundment and the drums were reclaimed. The impoundment was built by damming a natural drainage area. The waste poured into the impoundment percolated into the soil or evaporated. The impoundment was later backfilled with dirt. The topography of the area concentrates the surface drainage onto the disposal area. The site is located in a rural area of Douglas County. There are at least a dozen homes within a radius of one mile of the site that depend on ground water for drinking water.

Samples collected at the site included: 1) a background soil sample, 2) a downgradient soil sample, 3) a composite soil sample from the waste disposal area, 4) a water sample from the nearest well, and 5) a water sample from a spring 600 feet downgradient of the site. No constituent of the wastes was found in the drinking water well or outside the waste disposal area.

2.0 BACKGROUND

2.1 Location

The site is located east of Basket Creek Road, Douglasville, Georgia, approximately 0.4 mile from the intersection of Capps Road and Basket Creek Road (Appendix A, Figure 1).

2.2 Site Layout

The site consists of a backfilled impoundment originally formed by constructing a dam across a natural drainage area. The site lies in a rural area of Douglas County, however, population growth in the area is expected to continue. A mobile home is now located northwest of the disposal area. Water is supplied to this and other residences in the area by individual wells. Surface water flows across the disposal area toward the southwest and into an unnamed creek. Old diversion ditches on the north and south side of the impoundment appear to have re-routed the surface water from higher ground around the impoundment.

2.3 Ownership History

The impoundment is located on or near the property line bordering property owned by Mrs. Lee Wallace, 4022 Boyd Road, Douglasville, Georgia 30145, (404)377-7010 and Mrs. Greg W. Parker, 7768 Basket Creek Road, Douglasville, Georgia 30135, (404)489-1281. Neither owner could adequately describe the exact location of the property boundary. A survey of the properties may be necessary to determine the exact location of the property line in relation to the disposal area. Mr. Lee Wallace was named in past EPD enforcement

actions; therefore, Mrs. Lee Wallace, the former owner's widow, is assumed to hold title to the Wallace property.

2.4 Site Use History

The land on which the disposal area lies is undeveloped. The disposal area is located on the northern boundary of a 10.8 acre tract of land owned by Mrs. Lee Wallace.

2.5 Permit and Regulatory History

In March of 1976 the Douglas County Sanitarian notified the Georgia EPD of illegal disposal activities on the subject site. Upon investigation, it was discovered that an unpermitted disposal operation was taking place on Mr. Wallace's property. Due to the nature of the wastes, an emergency order was issued by the EPD requiring Dr. C. B. Young to cease removing the waste from his facility in Douglasville and disposing of it on Mr. Wallace's property. Penalties were imposed on the waste hauler Mr. B. B. Hulsey and the property owner, Mr. Lee Wallace, for improper disposal. Legal action against the waste generator, Young Refining Corporation was initiated by the State Attorney General's office.

2.6 Remedial Actions to Date

The impoundment was closed by backfilling.

2.7 Summary Trip Report

An initial reconnaissance of the area was conducted September 25, 1985. The

location of the former impoundment was confirmed. The property lies southeast of a parcel of property and a mobile home owned by Mrs. Greg Parker. Mrs. Parker's water is supplied by a well located about 200 feet west of the old disposal area. A spring was located about 600 feet from the disposal area at the base of a drainage route from the site. The spring feeds into an unnamed creek that empties into the Chattahoochee River. Several rusting and empty drums were found below the impounded area. The sampling team collected three soil samples during the site inspection (See Appendix A, Figure 2 for all sampling locations): 1) a background soil sample (S-1), 2) a soil sample in the drainage area of the old impoundment at a depth of three feet below the surface (S-2), and a composite soil sample from the waste disposal area (S-3). The soil obtained from the waste area was collected at a depth of 18-48 inches below the surface. The odor of toluene was present while drilling in this area. The soil obtained from the disposal area was dark colored as though it had been mixed with used motor oil. At a depth of about six feet, red clay was once again encountered. Two water samples were obtained during the site inspection. The spring downgradient of the site (W-1) and the well to the west of the disposal area (W-2).

3.0 ENVIRONMENTAL SETTING

3.1 Topography

The site lies in the northern Piedmont physiographic province of the state. The surrounding terrain is characterized by rolling hills. The disposal area is in a natural drainage area. The land descends steadily to an unnamed stream which drains into the Chattahoochee River. Surface drainage across the site will be channeled into the stream down-slope.

3.2 Surface Waters

The closest surface water is an intermittent stream approximately 650 feet southeast of the disposal area. A spring downgradient of the site feeds this stream.

3.3 Geology and Soils

The soil observed at the site is a dense red soil of the Madison soil series. This soil is characterized by a low infiltration rate (1). An outcrop of Biotite-Quartz-Plagioclase gneiss was observed down-slope of the site in an eroded area. Similar rock is expected to underlie the site. The Chattahoochee-Blairs Bridge fault lies about 1,200 feet to the northwest of the site (2).

3.4 Ground Water

The surficial aquifer is the only water bearing formation thought to be affected. The Parker's well, a 75 foot deep bored well, is completed in this

aquifer. This aquifer likely feeds the spring to the southeast of the site. Groundwater flow is believed to follow the topography, traveling away from the Parker's well and in the direction of the spring. The effect that pumping of the Parker's well has on ground water flow is unknown. Deeper wells in the area may depend on water bearing fractures in rock for their source of water. These flow patterns may be highly complex and are as yet not defined. Thus far no waste constituents have been found in ground water around the site.

3.5 Climate and Meteorology

The mean annual precipitation in the area is 48 inches per year. The mean annual lake evaporation is 41 inches per year. December through January are the wettest months of the year and September through October the dryest. Temperatures vary from highs approaching 100°F in the late summer to lows in the teens in the winter. A low at or below freezing can be expected 80 days per year (3).

3.6 Land Use

The predominant use of land surrounding the site is for single family residences and farmland. The trend is away from agricultural and toward residential development.

3.7 Population Distribution

Population estimates were made by counting the number of residences on a 7.5 minute topographic map and multiplying by 3,8 (4). Population estimates within

one, two and three mile radii are 57, 395, and 809, respectively.

3.8 Water Supply

The well closest to the disposal area belongs to Greg Parker; it is a bored 75 foot deep well. The well is located about 100 feet to the west of the waste disposal area. The well is expected to be upgradient of the disposal area, however, it is unknown how heavy pumping of the well will affect ground water flow in the area. A spring lies southeast and down-slope of the site. It is possible that leachate will travel toward the spring. The water from this spring flows into an unnamed creek and then into the Chattahoochee River.

3.9 Critical Environments

None

4.0 WASTE TYPES AND QUANTITIES

4.1 Waste Types

The waste is believed to have been waste oil contaminated with a variety of chlorinated hydrocarbons and solvents.

4.2 Waste Disposal Methods and Locations

The waste was disposed by emptying drums into an unlined impoundment. The disposal area is adjacent to and south of 7768 Basket Creek Road, Douglasville, Georgia 30135, approximately 0.4 mile south of the intersection of Capps Road and Basket Creek Road and 200 feet east of Basket Creek Road.

4.3 Waste Quantities

The exact quantity of waste disposed at this location is unknown. However, at least 80 fifty-five gallon drums of waste oil containing solvents were disposed at this location in March of 1976 (See Appendix C, Attachment 6). The size of the impoundment is estimated at 417 cubic yards.

5.0 LABORATORY DATA

5.1 Summary

There is no evidence of migration of the wastes from the site. The background soil sample, downgradient soil sample, well sample and spring sample were uncontaminated. The only sample found to be contaminated was sample S-3, the composite soil sample from the waste disposal area (See Appendix B).

5.2 Quality Assurance Review

All sampling and subsuquent laboratory analyses were carried out in accordance with QA/QC procedures set forth in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste" (5).

6.0 TOXICOLOGICAL/CHEMICAL CHARACTERISTICS

The following substances were identified in samples collected at the site (6):

acetone - oral LD_{50} rat: 9,750 mg/kg; tolerance - 750 ppm in air; dangerous due to fire and explosion hazard; can react vigorously with oxidizing material.

benzene - lowest toxic dose reported (human) - 130 mg/kg; lowest toxic dose reported (rat) - 52 mg/kg; tolerance 10 ppm in air; combustible, flash point 12°F.

2-butoxy ethanol - oral LD_{50} (rat) - 790 mg/kg; tolerance - 25 ppm skin; when heated to decomposition it emits acrid smoke and fumes.

bis (2-ethylhexyl) phthalate - oral, lowest reported toxic dose - 143 mg/kg; tolerance - 5 mg/cubic meter in air; an experimental teratogen and possible human carcinogen.

cadmium - inhalation, lowest published toxic concentration (human) - 1,500 $\mu g/m^3$; tolerance - 40 $\mu g/m^3$ in air; an experimental carcinogen.

chlorobenzene - oral LD_{50} (rat) - 2,910 mg/kg; tolerance - 75 ppm in air.

1,2-dichlorobenzene - oral LD_{50} (rat) - 500 mg/kg; tolerance - 50 ppm in air; can react vigorously with oxidizing materials.

dimethyl phthalate - oral LD_{50} - 6,900 mg/kg; tolerance - 5 mg/m^3 in air; an experimental teratogen; can react with oxidizing materials.

ethyl benzene - oral LD_{50} (rat) - 3,500 mg/kg; tolerance - 100 ppm in air; dangerous when exposed to heat or flame; can react violently with oxidizing material.

lead - oral, lowest published toxic concentration (rat) - 790 mg/kg; tolerance - 0.15 mg/m^3 in air.

1-ethyl-2-methyl benzene - oral, lowest lethal dose reported (rat) 5,000 mg/kg; tolerance - 100 mg/kg in air; an eye irritant.

methyl ethyl ketone - oral LD_{50} (rat) - 3,400 mg/kg; tolerance - 200 ppm in air; combustible, flash point 22°F.

methyl isobutyl ketone - oral, lowest toxic dose reported (human) - 480 mg/kg; tolerance - 0.2 ppm in air; when heated to decomposition it emits acrid smoke and fumes.

naphthalene - oral LD_{50} (man) - 1,000 mg/kg; tolerance - 10 ppm in air; reacts with oxidizing materials; reacts violently with chromium trioxide.

PCB's - known carcinogen; dangerous when heated to decomposition, they emit highly toxic fumes.

phenol - oral, lowest lethal dose reported - 140 mg/kg; tolerance - 5 ppm skin; when heated it emits toxic fumes, can react with oxidizing materials.

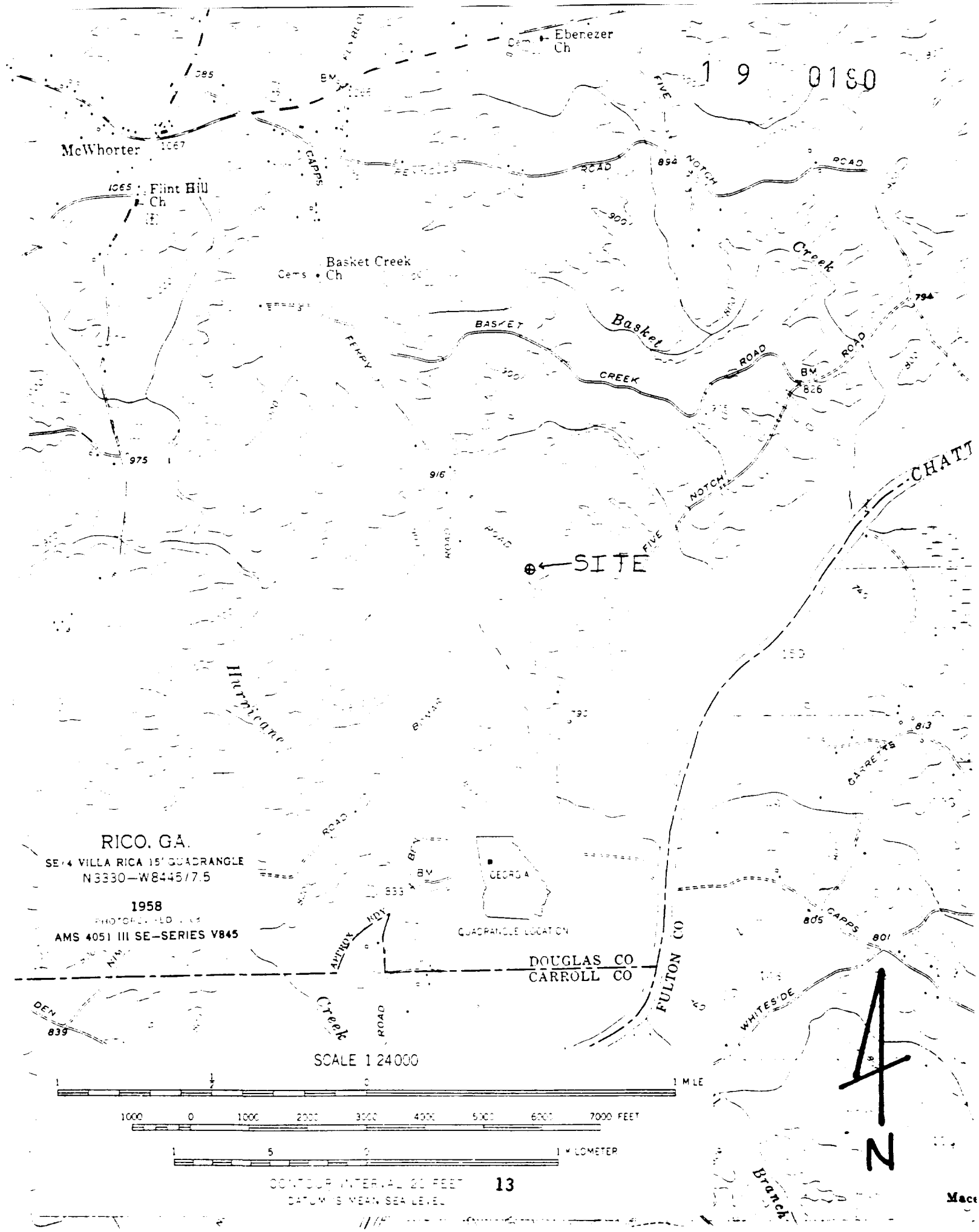
tetrachloroethene - oral LD_{50} (rat) - 200 mg/kg; tolerance - 5 ppm in air; when heated to decomposition it emits toxic fumes of chlorine.

toluene - oral LD_{50} (rat) - 5,000 mg/kg; LD_{50} (inhalation) lowest reported toxic dose (human) - 200 ppm; tolerance - 100 ppm. in air; when heated it emits irritating fumes; can react vigorously with oxidizing materials.

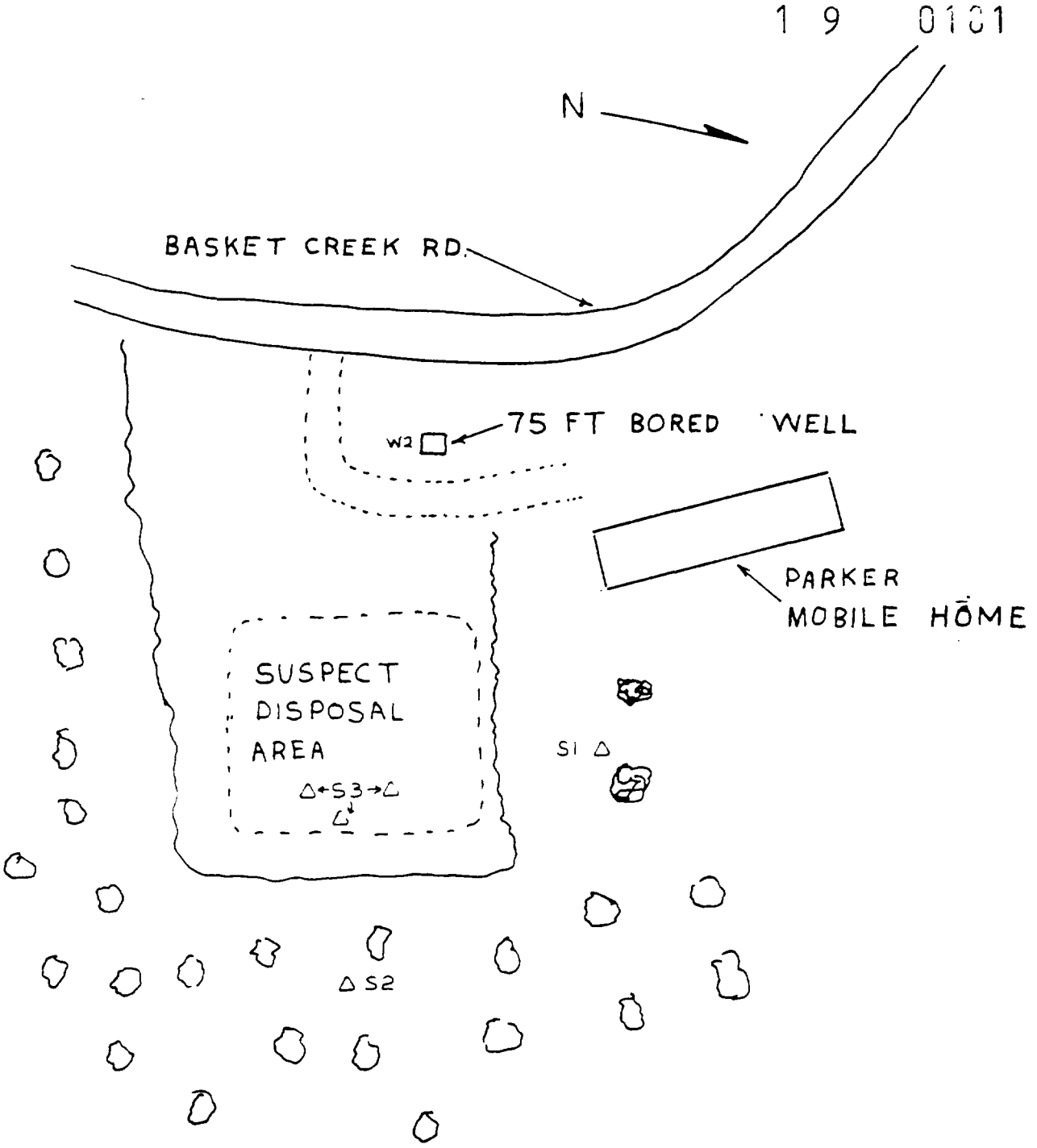
trichloroethylene - lowest toxic dose reported (human) - oral, 7 g/kg; oral LD_{50} (rat) - 4,920 mg/kg; tolerance - 50 ppm in air; flash point 89.60°F.

1,2,3, trimethyl benzene - oral, lowest lethal dose reported (rat) - 5,000 mg/kg; tolerance - 25 mg/kg in air; when heated to decomposition it emits acrid smoke and fumes.

xylene - (total) - oral LD_{50} (rat) - 4,300 mg/kg; tolerance - 100 ppm in air; when heated to decomposition it emits acrid smoke and fumes.



19 0180
Ebenezer Ch
McWhorter
Flint Hill Ch
Basket Creek Ch
Basket Creek
BASKET CREEK ROAD
FIVE NOTCH ROAD
CAPPS
FERRY
SITE
CHATT
Hurricane
Creek
DOUGLAS CO
CARROLL CO
FULTON CO
WHITESIDE
CARRETTS
GEORGIA
QUADRANGLE LOCATION
RICO, GA.
SE/4 VILLA RICA 15' QUADRANGLE
N3330—W8445/7.5
1958
AMS 4051 III SE—SERIES V845
SCALE 1:24000
1 MILE
7000 FEET
1 KILOMETER
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
N



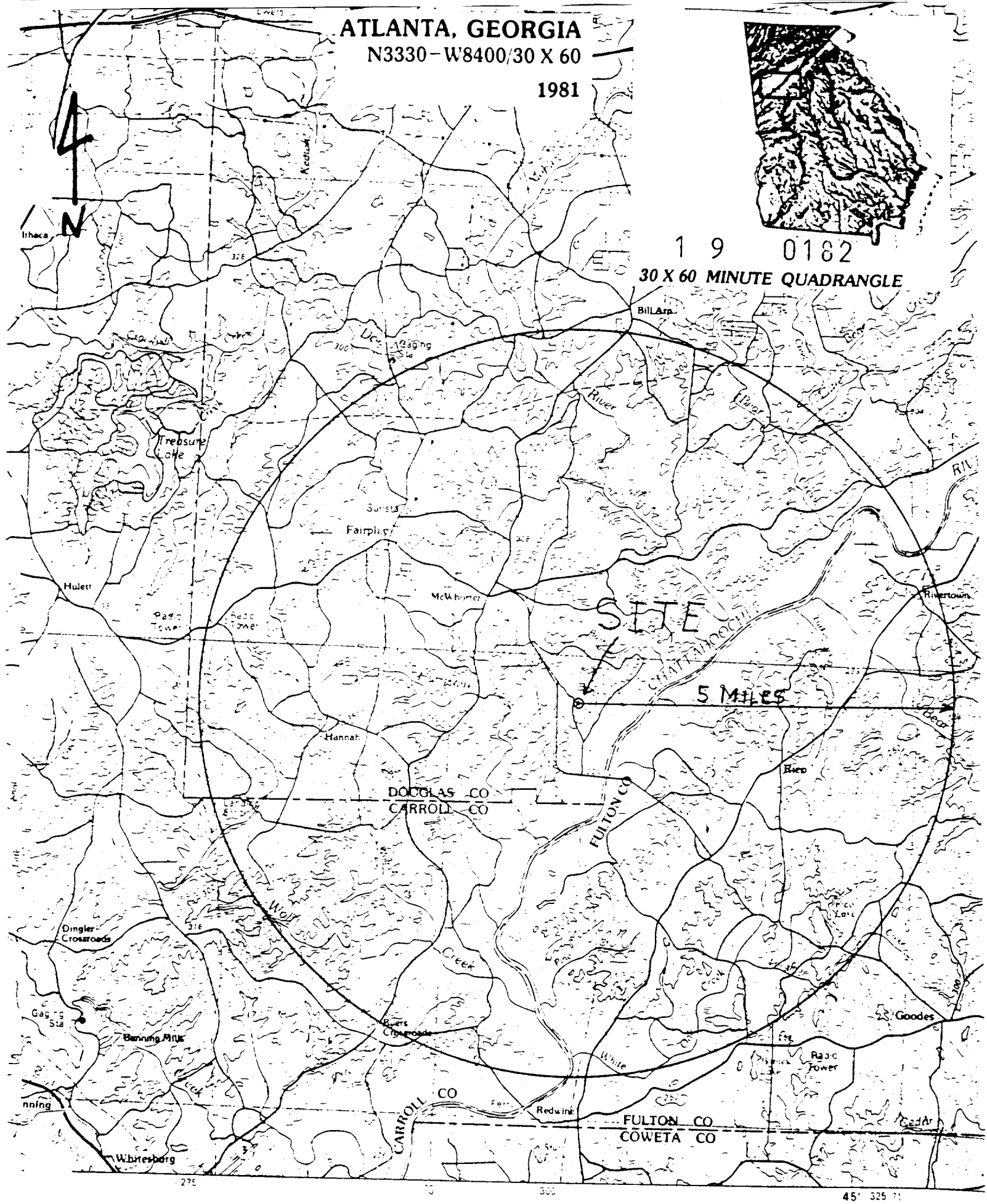
BASKET CREEK BURIED PIT / SITE 2
SITE SKETCH
NOT TO SCALE

APPENDIX A

ATLANTA, GEORGIA

N3330 – W8400/30 X 60

1981



KILOMETERS 1 0 1 2 3 4 5

MILES 1 0 1 2 3

APPENDIX B

ORGIA ENVIRONMENTAL PROTECTIO' IVISION

LABORATORY REPORT

1 9 0184

656-7404

SITE OCT 8, 1985 PROJECT: BASKET CREEK RD. Buried PIT / ~~DISPOSAL~~ CPE SITE 2 COLLECTOR: CHARLES EVANS

HW LOG NO.		1551	1552	1553		
DATE REC'D	10/9/85					
LABEL		S 1	S 2	S 3		
TIME REC'D	1300					
REC'D BY:	D Reed	BACKGROUND ~~DOWNGRADIENT~~ CPE SOIL	DOWNGRADIENT SOIL	COMPOSITE SOIL		
EL BY:	Evans					
	Harold Lanford LABORATORY MANAGER					
DATE:	11-20-85					
PARAMETERS	LAB NO.	HW1551	HW1552	HW1553		
Benzene	mg/Kg	<1	<1	300		
Trichloroethene	"	<1	<1	1740		
Methyl Ethyl Ketone	"	<10	<10	62,000		
Ethyl Benzene	"	<1	<1	5700		
Xylenes (total)	"	<1	<1	51,000		
Toluene	"	<1	<1	75,000		
Tetrachloroethene	"	<1	<1	2400		
Acetone	"	<10	<10	177,000		
Ethyl Isobutyl Ketone	"	<10	<10	22,100		
PCB's	mg/Kg	<0.2	<0.2	4.24		
1,2 Dichlorobenzene	mg/Kg	<0.2	<0.2	10		
Naphthalene	"	<0.2	<0.2	12.9		
Dimethyl Phthalate	"	<0.2	<0.2	24.4		
Bis(2-Ethylhexyl) Phthalate	"	<0.2	<0.2	102		
Phenol	"	<0.2	<0.2	32		
Chlorobenzene	"	<0.2	<0.2	24		
2-Butoxy Ethanol	"	<0.2	<0.2	141 *		
1,2,3 Trimethyl Benzene	"	<0.2	<0.2	86 *		
1-Ethyl-2-Methyl Benzene	"	<0.2	<0.2	156 *		
EP Ag	ug/l	<25	<25	<50		
" As	"	<30	<30	<250		
" Ba	"	<2500	<2500	<2500		
" Cd	"	<20	<20	120		
" Cr	"	<20	<20	<50		
" Pb	"	<30	<30	12000		
" Se	"	<50	<50	<700		

* Estimated Values

APPENDIX B

LABORATORY REPORT

1 9 0165

Basket Creek Rd. 656-7404

SAMPLE DATE: OCT 8, 1985 PROJECT: Buried Pit / Site 2 COLLECTOR: Charles P Evans

HW LOG NO. 1554

DATE REC'D 10/9/85 LABEL: W-1 Seep

TIME REC'D 1300

BY: D Reed

Evans

Harold Lanford
LABORATORY MANAGER

DATE: 11-20-85

PARAMETERS		LAB NO. HW 1554
Volatile Organic Compounds	ug/l	<1
PCB's	ug/l	<0.3
Base Neutral Compounds	ug/l	<10
Acid Extractable Compounds	ug/l	<10
pH		6.6
Ag Total	ug/l	<10
"	"	<25
"	"	10
Cd "	"	<10
Cr "	"	<10
Pb "	"	<25
Se "	"	<40

LABORATORY REPORT

1 9 0186

SAMPLE OCT 9, 1985 PROJECT: Basket Creek Rd. Buried Pit / Site 2 COLLECTOR: Charles Evans 656-7404

HW LOG NO. 1555

DATE REC'D 10/9/85 LABEL

TIME REC'D 1300

REC'D BY: D. Reed

DEL BY: Evans

Harold Lanford
LABORATORY MANAGER

DATE: 11-20-85

W-2

Well Water

PARAMETERS	LAB NO.	HW1555
Volatile Organic Compounds	ug/l	<1
PCB's	ug/l	<0.3
Base Neutral Compounds	ug/l	<10
Acid Extractable Compounds	ug/l	<10
pH		7.1
[illegible]s Total	ug/l	<10
[illegible]s "	"	<25
Ba "	"	20
Cd "	"	<10
Cr "	"	<10
Pb "	"	<25
Se "	"	<40

APPENDIX C

FILE SUMMARY
YOUNG REFINERY, INC.
DOUGLASVILLE, GA., DOUGLAS COUNTY

2/24/76 - Routine inspection of plant in response to information from Alabama Solid Waste Control Unit that wastes were being transported into Georgia for disposal. During inspection Charles Young stated 250 drums of waste oil, alcohols and greases were involved in the operation. All were being burned and none dumped.

3/17/76 - Dumping incident at Lee Wallace - Basket Creek Disposal Site. Douglas Danniell, Douglas County Sanitarian, reported it, and identified the hauler, Bart Hulsey, through license plates. Dr. Young called the Sanitarian and admitted the wastes were his. Dr. Young stated to the Sanitarian that at the time he contracted with Mr. Hulsey he did not know where the waste would be dumped.

3/18/76 - Issuance of Complaint Investigation form by Morgan Cantrell and dispatching of Jim Benson and Dan Hull to take samples at the site.

3/18/76 - Trip Report of Dan Hull verifying that Eighty 55 gallon drums were partially covered with earth and 80 drums were on the trailer. Two half-gallon samples were taken from two different drums.

3/18/76 - Issuance of Land Protection Branch Chain of Custody form to accompany the samples.

3/19/76 - Letter to Clyde Fehn from Jack Honeycutt, Solid Waste Control Unit, Alabama, stating he would check to see whether any waste from Young was still at Borden Spring, Alabama. He furnished a letter dated June 5, 1975, from Dr. C. B. Young stating the wastes stored at Borden Springs, Alabama were polymerized products in kerosene, benzene and hydrocarbon solvents; and aromatic products in a solution of benzene or other aromatic products.

3/19/76 - Memo by Morgan Cantrell reporting that he inspected the site for covering and leaching. He detected the noxious odors 4 miles away from the site.

3/19/76 - Trip by Shirley Maxwell to Young Refinery. Dr. Young stated that the wastes were composed of unsaturated amines, polymers and glycols. They come from other companies, some located outside Georgia. He stated he allowed the wastes to be dumped because he believed the site was permitted. He could not recall the exact nature of the wastes or the companies. He agreed to have an analysis performed on the material. He would hold the eighty remaining drums on his property pending further instructions.

3/19/76 - Issuance of Emergency Order requiring Dr. C. B. Young to cease using or removing the subject waste and to supply a list of companies and waste components by March 22, 1976.

APPENDIX C

3/22/76 - Letter from Dr. C. B. Young stating that the waste was generated by a number of plants, and named Jennat Company as one. He named B. B. Hulsey and himself as haulers. He stated the waste contained polymerized products, amines, and alcohols; also, wetting agents and asphaltic and paraffinic materials.

3/22/76 - Memo by John Taylor detailing his conversation with Dr. Young wherein he advised that the wastes should not be mixed or combined since there was a possibility it would have to be transported to a hazardous waste incinerator for safe disposal.

3/23/76 - Telephone call from Jack Honeycutt of Alabama Solid Waste to Clyde Fehn reporting that two trucks were being loaded with drums containing the waste at Borden Springs, Alabama. There were, by his count, about 1,000 drums in the group.

4/08/76 - Trip by Shirley Maxwell to Young Refinery. Dr. Young said that all of the liquid waste held at his Borden Springs Alabama facility had been transported to Douglasville. It had been placed in two large storage tanks on his property and he had added the material from the eighty 55 gallon drums brought from the Wallace Site. He had also diluted the waste with his own oil and stated he was slowly incinerating this material in his process boilers. The volume was reported as 12421 gallons in tank #223, and 11531 gallons in tank #224. He was told to cease burning and to supply the required lists of companies and chemicals.

4/09/76 - Memo by Clyde Fehn stating that both men who did the sampling at the site suffered clinical effects by skin contact and inhalation. Dan Hull's shoes had to be thrown away.

4/12/76 - Meeting with Dr. Young in Mr. McCall's office. Dr. Young was informed he was in violation of the emergency order by burning and diluting the waste, and not submitting lists of companies and chemicals. Dr. Young denied that the waste had been incinerated. He agreed to have two samples of the diluted waste and two samples of the original waste analyzed by G.C.-Mass Spectrometer. He agreed to furnish a list of sources within two weeks of receipt of a letter of instruction.

4/15/76 - Letter to Dr. Young by Mr. McCall instructing him to have the samples analyzed, to supply the list of sources, and reminding him not to use or remove or dilute the wastes being held in the tanks. Two weeks from receipt of letter was given as a deadline.

4/22/76 - Memo by John Taylor stating that Dr. Young called to say he had contracted with McMillan Laboratories to run his samples. We would receive results within one week.

4/23/76 - Complaint by Mr. and Mrs. Wages about noxious gases coming from Young Refinery. They operate the Bilbo Motel.

4/23/76 - Night - Visits by Mr. McCall to Bilbo Motel and Young Refinery to
4/24/76 check for odors. He found none.

4/28/76 - Trip to Young Refinery by Shirley Maxwell and Joe Newton to seal the two holding tanks.

4/28/76 - Letter from Dr. Young to Mr. McCall denying that he was burning the material in the holding tanks.

4/29/76 - Report received by us from MacMillan Laboratories on the samples taken by Dr. Young. Denial that any phenolic materials were present.

4/29/76 - Night - Complaint by Mr. Wages of noxious odors and arrival of Mr. McCall at Bilbo Motel. Mr. McCall could only detect a faint petro-chemical odor.

4/30/76 - Visit of Dr. Young to Mr. McCall. He stated he was looking for a high temperature incinerator for disposal. He stated there is still some waste in Alabama. He had not yet compiled his list of companies but would send it in a few days. He denied having any phenolic wastes in his waste stream. He denied that the waste had come from a military installation or Federal facility.

5/02/76 - Complaint by Mrs. Wages to Mr. McCall about noxious odors coming again from Young Refinery. He arrived on the scene and detected only petro-chemical odors.

5/10/76 - Receipt of written analysis of the original waste samples taken by Dan Hull of EPD and performed by EPA Surveillance Laboratory stating that 51% of one sample was ortho chlorophenol, and that all samples contained some.

5/14/76 - Letter to Lee Wallace by Carl Jones, Assistant Attorney General, imposing penalty for illegal dumping.

5/19/76 - Memo from Marvin Lowry to Moses McCall stating that Air Quality Control cannot approve burning the subject waste in Young's process boiler.

5/20/76 - Letter to Dr. Young by Carl Jones, Assistant Attorney General, informing him of pending legal action for non-compliance with the emergency order.

5/21/76 - Letter to Mr. Hulsey by Carl Jones imposing penalty for illegal hauling.

1 9 0191

State of Alabama
Department of Public Health
State Office Building
Montgomery, Alabama 36130

IRA L. MYERS, M. D.
STATE HEALTH OFFICER

March 4, 1976

RECEIVED
MAR 8 1976
SOLID WASTE
MANAGEMENT SECTION

Mr. Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and Resource Recovery Program
Department of Natural Resources
270 Washington Street S.W.
Atlanta, GA 30334

Dear Mr. Maxwell:

We appreciate receiving a copy of your February 25 Trip Report covering your investigation of disposal capabilities of the C. B. Young Refinery, Douglasville, Georgia.

As a matter of record, our earlier call to Mr. Clyde Fehn was not intended as a "complaint," or that wastes generated in Alabama were necessarily being "dumped" in Georgia.

In May of 1975, Dr. C. B. F. Young approached agencies in this state with a proposition for the recovery and disposal of certain liquid waste products at a site in Cleburne County, Alabama. His proposed site was determined not to be geologically or hydrologically acceptable, and neither was his proposed plan of disposal. Several hundred drums were openly stored at the site, and over the course of time had started to leak and present a potential threat to the water system of a nearby city. His organization was asked to remove the waste and properly dispose of it. Incidentally, to our knowledge this waste did not originate in Alabama. We were notified that Dr. Young's orginization would have the waste picked up early in February, 1976, and hauled to Douglasville for disposal.

The reason for our call to Mr. Fehn was two-fold: Firstly, we do not condone the disposal of waste in this state, or in any other state, unless at an approved facility, and secondly we wished to advise your agency of the proposed hauling of this waste as a matter of courtesy.

We are pleased to learn that the site at Douglasville satisfies Georgia requirements, and if Dr. Young should wish it, and have further capability, we could possibly recommend this site to other sources of liquid wastes.

Sincerely,

Alfred S. Chipley, Director
Division of Solid Waste & Vector Control
Environmental Health Administration

ASC:cl

cc: Mr. Clyde F. Fehn

H. W. Wallace - Basket Creek Road

19 0132

File No.

Recheck Date

Georgia Department of Public Health

COMPLAINT INVESTIGATION AND DISPOSITION

Complainant's Name: Douglas Daniell

Date: 3-18-76

Complainant's Address: Douglas Co. Health Dept.

Comp. Phone No.: 949-0360

Location of Problem: Basket Creek Road

Received By: M. Cantrell

Owner of Property on which Problem Exist: Lee H. Wallace

Nature of Problem: 80 55-gal. oil drums of waste dumped in landfill. Another 80 not allowed to be dumped by D. Daniell.

Correspondence Attached: Yes ☐ No ☐

INITIAL DAT

File Number: 1 2 3 4 5 6 7

Date: 8 9 10 11 12 13

Purpose (14): 1. Initial 2. Follow up 3. Other ____ (Specify)

Investigation Time (15): 1. 1 - 15 2. 16 - 30 3. 31 - 45 4. 46 - 1 hr. 5. 1:01 - 1:15 6. 1:16 - 1:30 7. 1:31 - 1:45 8. 1:46 - 2 hr. 9. 2:01 - & over

Disposition (16): 1. Clear 2. Follow up 3. No Violation 4. Referral 5. Court 6. Other ____ (Specify)

Complainant (17): 1. Tenant 2. Neighbor 3. Owner or Mgr. 4. Official Agency 5. Anonymous 6. Other ____ (Specify)

Received By (18): 1. Phone 2. Letter 3. Personal 4. Other ____ (Specify)

Actual Problem (19 20): (See Above Left)

FIELD INVESTIGATION

Housing	Maintenance	01	
	Accident Hazard	02	
General Sanitation	Water Supply	03	
	Sewage Disposal	04	
	Tourist Accommodations	05	
Solid Waste	Storage	06	
	Collection	07	
	Disposal	08	
Vector Control	Rodents	09	
	Insects	10	
	Dogs	11	
	Other Animals (Specify)	12	
Food Service		13	
Industrial Hygiene		14	
Other (Specify)		15	

Investigated By: Date

Persons Contacted

Copies Furnished

Remarks:

Waste hauled to site by B.B. Hulse, 942-6355. Waste generated at Young Refining Co., Douglasville (Formerly Cracker Asphalt).

D. Daniell called Sheriff "he would not come".

I called Lee Wallace (He will meet Jimmy Benson & Dan Hull this p.m. at site).

D. Morg

(Use Reverse Side for Additional Remarks)

Original - Return to State Files 1st Copy - County File Additional Copies - Prepare as necessary

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

May 19, 1976

M E M O R A N D U M

TO: Gene D. Drew, Unit Coordinator
Air Pollution Compliance Program

FROM: Marvin Bradford, Environmental Specialist
Air Pollution Compliance Program

SUBJECT: Young Refinery, Douglasville, Georgia

Reference: Sample Numbers SW100 & SW101

The chemical analysis of these samples indicated that the listed organic compounds are found within the samples:

1) O-chlorophenol
2) acetone
3) isopkropanol
4) chloroform
5) tetrachloroethane
6) phenol
7) Dichlorophenol.

Incineration of liquid waste as indicated could produce corrosive and poisonous combustion products. These less desirable combustion products may result from incomplete incineration of organic compounds containing the halogen, chlorine (chloroform, dichlorophenol, tetrachloroethane, and O-chlorophenol). Also if traces of amine or other sulfur compounds are within the liquid waste(s), the combustion products may contain H_2S_{04}, HCl and toxic sulfur compounds. It appears that the most poisonous gas that may be produced from incomplete combustion of the chlorinated compounds is phosgene. The current threshold limit value for phosgene is 0.1 ppm ($CO + Cl_2 \longrightarrow COCl_2$) (phosgene).

Chemical Reactions of Combustion

Alcohol (isopropanol) + O_2 $\longrightarrow$ aldehyde + O_2 $\longrightarrow$ R-COOH + O_2 $\longrightarrow$ $CO_2 + H_2O$
Temperature range = 1200°F to 1400°F for 0.3 to 0.6 second
Ketone (acetone) + O_2 $\longrightarrow$ aldehyde + O_2 $\longrightarrow$ R-COOH + O_2 $\longrightarrow$ $CO_2 + H_2O$

Phenol (aromatic) + O_2 " " " " $CO_2 + H_2O$
Please observe that incomplete combustion of the above chemicals may yeild aldehydes, carboxylic acids, and carbon monoxide. The carbon monoxide may then

react with any free chlorine. This reaction ($CO + Cl_2 \rightarrow COCl_2$) yeilds the carbonyl chloride (phosgene). Thus, the sources of free chlorine are the halogenated compounds. However, complete combustion of alkanes, alkenes, ketones, and alcohols would oxidize completely the organic chemicals to carbon dioxide and water.

Phenols

The simplest phenols are liquids or low melting solids. Because of hydrogen bonding, they have quite high boiling points. However, phenols are easily oxidized and fairly acidic compounds. Phenols are weaker acids than carboxylic acids; they can be separated from non-acidic compounds by means of their solubilities in basic mediums. Phenols may also be separated from carboxylic acids by means of their insolubilities in bicarbonate solutions. Aqueous hydroxides will convert phenols into salts; whereby, mineral acids (aqueous) will convert the salts into free phenols.

Phenol, C_6H_5OH, a carbolic acid, benzenol

M.P. = 43°C
B.P. = 182°C
Solubility = 9.3 g/100 g H_2O @ 25°C, soluble in alcohols
$k_a = 1.1 \times 10^{-10}$
density = 1.0722 @ 20°C
Heat of formation, gas = -21.71 kcal/mole @ 25°C
" " " , liquid = -37.80 kcal/mole @ 25°C
Free energy of formation - 6.26 " " " "
" " " " liquid = -11.06 kcal/mole @ 25°C
TLV = 5 ppm or 19 mg/m^3, skin
Mol. wt. = 94.11

O-Chlorophenol, C_6H_5ClO, Mol.wt. = 128.56

M.P. = 9°C
B.P. = 173°C
Solubility = 2.8 g/100 gH_2O at 25°C, very soluble benzene
K_a = 77
specific heat = 399 cal/g °C @ 0-20°C
density = 1.2410 @ 18°C
TLV = none

Chloroform, $CHCl_3$, Methane (trichloro)

specific heat =.232 cal/g °C @ 0°C
" " =.226 " " 15°C
" " =.234 " " 30°C
heat of vaporization = 64.74 cal/g @ 0°C
" " " = 60.01 " " 40°C
" " " = 59.01 " " 61.5°C
" " " = 55.19 " " 100°C
" " " = 0 " " 260°C

M.P. = -63.5°C
B.P. = 61.2 @ 760 mm Hg
density = 1.4916 @ 18°C
Solubility = soluble in acetone
Mol. wt. = 119.38
TLV = 50 ppm or 240 mg/m^3

Acetone, C_3H_6O, 2 - Propanone, Dimethyl Ketone
Heat of vaporization = 134.74 cal/g @ 0°C
Specific heat =.514 cal/g °C @ 3-22.6°C
" " =.504 " " " 0°C
Heat of formation, gas = -51.79 kcal/mole @ 25°C
" " " , liquid = -59.32 kal/mole @ 25°C
Free energy of formation = -36.45 " "
" " " " = -37.16 " "

M.P. = -95.35°C
B.P. = 56.2°C
Solubility: insoluble in water, alcohols, benzene
TLV = 1000 ppm or 2400 mg/m^3
Mol. Wt. = 58.08
density = 0.7908 @ 20°C

Dichlorophenol, 2,3-dichoro, $C_6H_4Cl_2O$
Mol.Wt. = 163.01
M.P. = 57°C
B.P. = NA
density = NA
Solubility = soluble in alcohols
TLV = none

Tetrachloroethane (1,1,2,2-), $C_2H_2Cl_4$ or Cl_2CHCl_2
Heat of vaporization = 55.07 cal/g @ 145°C
specific heat = .268 cal/g °C @ 20°C
M.P. = -43.8°C
B.P. = 146°C @ 760 mm Hg
Solubility = slightly soluble in water
density = 1.5984 @ 20°C
T.L.V. = 5 ppm or 35 mg/m^3, skin
Mol. Wt. = 167.85

Isopropanol, C_3H_8O, 2-Propanol
heat of vaporization = 159.35 cal/g @ 82.3°C
" " formation, gas = -62.41 kcal/mole @ 25°C
" " " , liquid = -74.32 " " "
Free energy of formation = -38.20 " " " (gas)
" " " " = -38.83 " " " (liquid)
Mol. wt. = 60.09
M.P. = -89.5°C
B.P. = 82.4°C
density = 0.7851 @ 20°C
Solubility: insoluble in water, acetone
TLV = 400 ppm or 980 mg/m^3
Phosgene, Cl_2CO, (carbonic acid dichloride,
carbonyl chloride, chloroformyl chloride)
Mol.wt. = 98.92
M.P. = -118°C
B.P. = 8.02°C
density = 1.392 @ 19°C
Solubility = decomposes in water and alcohols
TLV = 0.1 ppm or 0.4 mg/m^3

Memo - Gene D. [illegible]
May 19, 1976

1 9 0196

Please find attached additional information on the combustion and physical properties of fuel oils. Also, most of the sulfur present in fuel oils is converted to sulfur dioxide on combustion, and a typical fuel oil analysis does not reveal any chlorine present.

MB:mfw

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

March 23, 1976

M E M O R A N D U M

TO: The Record

FROM: Clyde F. Fehn, Unit Coordinator
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

SUBJECT: Liquid Wastes Belonging to Young Refining Corp., Douglas County.

1. Mr. Jack Hunnicutt called on Monday afternoon, March 21, 1976. He is with the Alabama Department of Health, Solid Waste Program. His telephone number is 205-832-6728.

2. He stated that observations had been made on Monday at the Young plant located in Borden Spring, Alabama. It was noted that two trucks were being loaded with the 55-gallon drums containing liquid waste. It was also noted that there may be about 1000 drums in the group. Some of the drums are leaking and some are puffed out from internal pressure.

CFF:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Shirley F. Maxwell
James W. Dunbar

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

Douglas County

1 9 0198

Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program
April 6, 1976

TRIP REPORT

Site Name & Location: Lee H. Wallace Property - Basket Creek Road
(Also Known as Old Capps Ferry Road)
Douglas County, Georgia
(See Attached Map).

Trip by: Daniel D. Hull, Environmental Engineer
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

Accompanied by: Jimmy B. Benson, Environmental Specialist
Municipal Solid Waste Control Unit
Municipal Solid Waste Control Program

Date of Trip: March 18, 1976; 2:00 p.m.
Weather: Clear; Temperature: 70°F+.
Winds: Light and variable.

Officials Contacted: Douglas Daniell, Sanitarian
24 W. Spring Street
P. O. Box 157
Douglasville, Georgia 30134.
Telephone: 942-5134.

Lee H. Wallace, Owner
3308 Wallace Lake Road
Douglasville, Georgia 30134.

B. B. Hulse, Waste Hauler
Telephone: 942-6355.

Howard Wallace, Son of Lee Wallace.

Reference: History of this site is in the files of the Municipal Solid Waste Control Unit.

Comments:

Jim Benson and I were dispatched to the Wallace Property in Douglas County to investigate a report of promiscuous dumping. EPD support was requested by Douglas Daniell, Douglas County Sanitarian.

An on-site inspection revealed that eighty 55-gallon drums of an unknown liquid had been dumped the night before and partially covered using a bulldozer. In addition, eighty 55-gallon drums of unknown liquid were at the site, loaded on a flat-bed trailer. Mr. Wallace had intended to dump the remaining 80 drums, but was stopped by Mr. Daniell.

Mr. Wallace, the landowner, and Mr. Hulse, the hauler, denied having any knowledge of the contents of the drum. Two half-gallon samples were taken from two different drums for analysis.

Conclusions:

1. Young Refinery of Douglasville is responsible for this waste by their own admission.

2. This was an unauthorized operation and clearly in violation of the Rules and Regulations for Solid Waste Management.

3. Judging from my own reactions to inhaling and touching the liquid material, the material will turn out to be classified as hazardous.

Recommendations & Follow-Up Required:

1. Determine the contents of the waste material.

2. Impound the remaining material.

3. Since this is such a blatant and deliberate act of unauthorized dumping, it would seem to me that a fine as provided for in the Act is called for.

4. Ms. Maxwell should follow-up with Young Refinery to resolve this problem, including proper disposal of the remaining material.

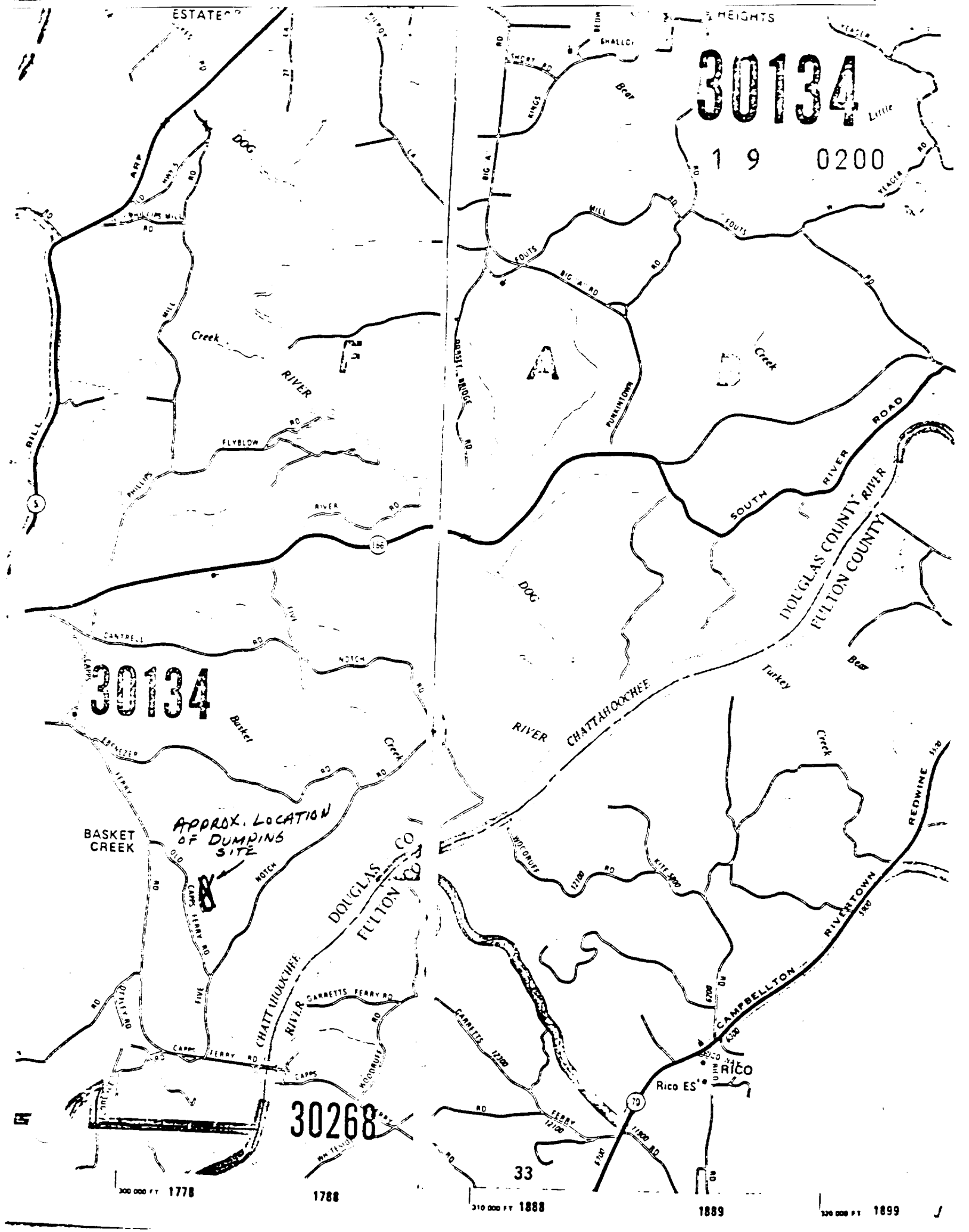
5. The Municipal Solid Waste Control Unit should determine what action should be taken against Mr. Wallace and Mr. Hulse.

Photographs: Taken by Jim Benson and part of his report.

Attachments: Area Map, showing dumping site.

DDH:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn
James W. Dunbar
Shirley F. Maxwell
Morgan V. Cantrell



30134
1 9 0200
30134
30268
APPROX. LOCATION OF DUMPING SITE
BASKET CREEK
DOUGLAS COUNTY
FULTON COUNTY
CHATTAHOOCHEE RIVER
SOUTH RIVER ROAD
CAMPBELLTON RIVERTOWN REDWINE
RICO
Rico ES
Creek
Basket
Turkey
Bear
Little
DOG
RIVER
FLYBLOW
PHILLIPS
CANTRELL
NOTCH
CAPPS FERRY RD
GARRETTS FERRY RD
FOUTS
MILL
BIG A RD
PUNKINTOWN
KINGS
SHALLOW
YEAGER
BILL
ARP
300 000 FT 1778
1788
310 000 FT 1888
1889
320 000 FT 1899
33

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

1 9 0201

April 9, 1976

M E M O R A N D U M

TO: The Record

FROM: C.F.F. Clyde F. Fehn, Unit Coordinator
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

SUBJECT: Promiscuous Dumping of Hazardous Liquid Wastes by Young Refining Corp.

1. Mr. James Dunbar notified me on the morning of March 18, 1976, that promiscuous dumping of liquid wastes had occurred in Douglas County. There was speculation that these wastes had originated from Arivec Chemicals, Inc.

2. I called Mr. James Parivechio, Sr., President of Arivec Chemicals, Inc. He stated that his company was not doing any promiscuous dumping of liquid wastes.

3. A little later in the morning, Mr. Dunbar notified me that his group had determined that these liquid wastes had originated from Young Refining Corp.

4. Still later in the morning, Mr. Parivechio called me and stated that he had discussed this matter with Dr. C. B. F. Young, President of Young Refining Corp. Dr. Young readily acknowledged that the liquid wastes were from his company. Mr. Parivechio told me that these wastes had a long history and strongly recommended that we obtain samples.

5. Mr. Dan Hull was sent out to the site of the promiscuous dumping in order to obtain samples. Mr. Hull tried to get samples of the material which had already been dumped but failed because of soupy conditions. Mr. Hull then got two samples from the remaining drums on the truck. He was able only to get two drums open. One sample came from each of these two drums. The two samples are held in the Water Quality Lab. Mr. James Benson assisted in this sampling. Both men were contaminated with the waste on their hands and arms. Both men suffered clinical effects of this exposure, probably through dermal route and inhalation routes. Mr. Hull suffered respiratory distress later in the evening while swimming. Mr. Benson felt ill for 2-3 days. The odor was still being emitted from the

skin of Mr. Benson 24 hours later. Mr. Hull's shoes were saturated with the liquid and were emitting strong vapors one week later. He was advised to discard these shoes.

6. Several months ago, we were advised by Mr. Alfred S. Chipley and Mr. Jack Hunnicutt, of the Alabama State Environmental Health Administration that they had just refused to permit the land disposal of certain liquid wastes stored at the Young Refining Co. plant located in Borden Springs, Alabama, which town is located on Highway #278, just west of the Georgia State Line. Mr. Chipley advised that he understood that the liquid wastes would be shipped to the State of Georgia.

7. Mr. Hunnicutt has subsequently inspected the Alabama Young Plant several times and subsequent telephone coordination has occurred. Please see my memo of March 31, 1976, on this subject.

8. Dr. Young called me on March 25, 1976, at about 4:30 p.m. to report the following:

   a. About 3800 to 4000 gallons of this liquid waste had just been transported from his Alabama plant to his Douglas County plant in a tank truck. The waste was then pumped from the tank truck into a large elevated tank.

   b. He planned to transport all the remaining liquid waste from Alabama in a similar manner because of the leaking condition of the 55-gallon drums in Alabama and enforcement pressures from Alabama environmental officials.

   c. He stated that "probably" some of the promiscuous dumping liquid waste included wastes hauled from Alabama.

9. I advised Dr. Young that we probably would require these liquid wastes to be hauled to the incinerator located at Baton Rouge, Louisiana.

CFF:dc

cc: Moses N. McCall
John D. Taylor, Jr.
James W. Dunbar
Shirley F. Maxwell

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA, GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program
April 21, 1976

TRIP REPORT

Site Name & Location: Young Refinery
Huey Road
Douglasville, Georgia.

Trip by: Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

Accompanied by: None.

Date of Trip: April 8, 1976.

Official Contacted: Dr. C. B. Young, President.

Reference: Continued surveillance of impounded waste from the Lee Wallace dumping incident of 3/18/76.

Comments:

Dr. Young reported that all of the liquid waste being held at his Borden Springs, Alabama, facility had been removed from the 55-gallon drums, loaded into tankers, and transported to the Douglasville, Georgia plant. He claimed a Mr. Roberts from EPD, had told him it was legal to do this. He had also removed the waste material from the eighty 55-gallon drums being held on his property and placed the entire quantity from tankers and drums in two large storage tanks #223 and #224 on his property. He has been adding his own oil to both tanks and slowly incinerating the diluted waste in his process boilers. Mr. Fang, one of his engineers, reported that the contents for the day of my visit were as follows:

#223 - 295.74 barrels = 12421 gallons
#224 - 274.56 barrels = 11531 gallons

All empty drums are being sold as scrap metal to Metals Recycling, P. O. Box 73A, Fruithurst, Alabama 36262. I found 80 empty drums on a trailer, still smelling faintly of the original material. Also, on adjacent ground, were 50 empty drums labeled "used solvents" and "tetrachloroethylene". Dr. Young

stated they would be picked up.

I reminded Dr. Young that an order had been issued restraining him from doing anything with the waste, and I mentioned that dilution would make analysis more difficult. I also told him that his original letter to Mr. McCall did not constitute compliance with the order and we would require a detailed list of waste components and the sources.

Conclusions:

Gathering all known data from all sources we know the waste contains:

unsaturated amines
benzene, kerosene, and hydrocarbon solvents
glycol and polyhydroxy alcohols
sodium sulfonate
paraffins
aromatics which have been polymerized
other aromatic products

Our samples have the odor of phenol-cresol-cresylic acid group.

We do not know how many drums are involved. Mr. Chipley of Alabama Solid Waste mentions "several hundred"; Mr. Honeycutt of the same office states 1000 drums; and Charles Young claims 250 drums. So we do not know how much it has been diluted.

I recommend that we have Dr. Young analyze samples of diluted waste and the original waste being held in our laboratory. We should keep in mind that more of the same waste may be brought in from outside the State in the future.

SFM:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn
✓File Copy

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA, GEORGIA 30334

1 9 0205

April 22, 1976

M E M O R A N D U M

TO: The Record

FROM: Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

SUBJECT: Meeting 4/12/76 with Dr. C. B. Young, President, Young Refinery.

Reference: Disposal of waste recovered at Lee Wallace property on 2/18/76.

The meeting was held in the office of the Branch Chief and was attended by John Taylor, Clyde Fehn, Marvin Lowry and Shirley Maxwell.

Dr. Young was informed by Mr. McCall that he was in violation of the previously issued ordinance on three (3) counts, namely incineration of the impounded wastes and dilution of the waste by an unknown amount with his own waste oil. He was also in violation by reason of not having submitted a sufficiently detailed list of waste constituents and also a list of the sources of these materials.

Dr. Young denied that the waste had been incinerated. This was a contradiction of his statement during a plant inspection on 4/8/76 and in a conversation with Mr. Taylor.

During the meeting, it was discovered that Young Refinery had changed from burning #2 oil to #5 oil which is higher in sulfur content, and they may, therefore, be in violation of their air quality permit to operate an incinerator.

Since Dr. Young continued to deny complete knowledge of the waste components, Mr. McCall suggested that a laboratory analysis be performed. Dr. Young agreed to remove a waste sample from each storage tank and to have these and the two samples of original waste held in the Water Quality Laboratory analyzed by G. C. - Mass Spec. to determine the composition.

He also agreed to go into his records and furnish us with a complete list of waste sources from January 1972 to the present time. This was to be accomplished within two (2) weeks of receipt of a letter of instruction.

SFM:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn
File Copy

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

1 9 0207

Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program
May 3, 1976

TRIP REPORT

Site Name and Location: Young Refinery
Huey Road
Douglasville, Georgia.

Trip by: Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

Accompanied by: Joseph W. Newton, Environmental Engineer
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

Date: April 28, 1976.

Officials Contacted: Dr. C. B. Young, President.

Reference: Investigation of illegal burning of impounded waste from the Wallace property, according to complaint of Bruce Wages, and as discussed in the meeting on the same day with Mr. McCall.

Comments:

The decision had been made to seal the two holding tanks #223 and #224 containing the waste and located on the Young property. Joe Newton and I arrived and were announced to Dr. Young through the receptionist. Fifteen to twenty minutes later we were admitted to his office.

I informed Dr. Young that there had been a complaint that he was burning the impounded waste during the night. He immediately became irate. He denied it emphatically and stated as follows: "I wish to hell I knew who was complaining". He said that they had no proof and mentioned going to court. I told him that we had come to seal his tanks, and he leaned over his desk, and in a rage, he stated, "I don't give a damn what you do. I want you people out of my hair". He made various derogatory statements about people in EPD not coordinating what they were doing, which I did not feel were worth refuting. He again stated that we should take the whole

issue to court.

He called in one of his engineers, a Mr. Fang, and instructed him to tell us whether they were burning the waste. Mr. Fang, who is oriental, stated, "No, not burning now". He presented tank strapping data which were the same as those given to me on my April 8, 1976, inspection. Dr. Young then called in another engineer and stated, "Some bastard has accused us of burning at night". The group proceeded to the tanks where we sealed them in Dr. Young's presence.

Dr. Young had stated in his office that there was no way they could possibly have burned the waste at night. During the sealing operation, I checked with the plant engineer and he affirmed that the plant operates on a 24 hour basis. I also knew from my April 8th visit that the waste had at one time been burned illegally (See Trip Report, 4/ 8/76). On a previous visit, I had inquired about odors at Arivec Chemical Co. which is adjacent to Young Refinery. Mr. Parivechio, the president, stated on an unofficial basis that they had noticed noxious odors coming from Young Refinery on several occasions during the past month. However, they were not making a complaint. This appears to substantiate Mr. Wages' allegations.

After leaving the Refinery, we visited Mr. Wages at his motel. He stated that he had no wish to make trouble but felt that something had to be done. He feared the fumes would affect him, his family, and his business. I told him to call Mr. McCall the moment he noticed the burning so that we could verify that it was taking place.

Conclusions:

Dr. Young was obviously out of control during the meeting. I felt there was nothing to be gained by further discussion. Before we left, Dr. Young stated that there was nothing personal intended in his remarks. My personal reaction was that the display was theatrical, and not consistent in someone of Dr. Young's apparent background.

SFM:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn

RECEIVED
1 9 0209
MAY 17

The Department of Law
State of Georgia
Atlanta
30334

SOLID WASTE
MANAGEMENT SECTION

ARTHUR K. BOLTON
ATTORNEY GENERAL

132 STATE JUDICIAL BUILDING
TELEPHONE 656 3300

May 14, 1976

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Lee H. Wallace
3308 Wallace Lake Road
Douglasville, Georgia 30134

Re: Disposal of hazardous solid wastes in Basket Creek Road Disposal Site, Douglas County

Dear Mr. Wallace:

This office has received from the Environmental Protection Division, Department of Natural Resources (hereinafter "EPD"), a thoroughly documented report of the willful, night-time disposal of approximately eighty (80) 55-gallon drums of hazardous waste obtained from the Young Refinery into the Basket Creek Road Disposal Site in Douglas County, Georgia. This disposal occurred, without permission, on or about the night of Wednesday, March 17, 1976, and was perpetrated with your apparent knowledge and consent.

The hazardous waste disposed of on this occasion was toxic and inherently dangerous in nature. Some of the identifiable compounds in this hazardous waste include orthochlorophenol, chloroform, tetrachlorethane, acetone, and dichlorophenol. The EPD has requested that the Attorney General's office initiate expeditious legal action against you for this violation of the Solid Waste Management Act, Ga. Laws 1972, pp. 1002 et seq., as amended, and the Rules and Regulations of the Department of Natural Resources promulgated thereunder.

Section 15 of the Solid Waste Management Act, supra, as amended (Ga. Code Ann. § 43-1615), provides that any person who violates any provision of the Act shall be liable to a civil penalty not to exceed $1,000.00 for such violation and an additional civil penalty not to

exceed $500.00 for each day during which such violation continues. Section 7 of the Act provides that it shall be unlawful for any person to engage in solid waste handling except in such a manner as to conform to and comply with all the rules and regulations established under the Act. Also, Section 7 decrees it unlawful to engage in solid waste handling in a manner which, among other things, will likely create a nuisance, impair the quality of the environment, or likely create hazards to the public health, safety or well-being. Rule 391-3-4-.04(5) specifies pointedly that hazardous wastes shall only be handled in accordance with a written procedure submitted to and approved by the EPD.

The referenced disposal of hazardous wastes on March 17, 1976, violated the provisions of Section 7 of the Act, described above, and the terms of Rule 391-3-4-.04(5) concerning the disposition of hazardous wastes. Additionally, this disposal also specifically violated your instructions from the EPD under date of March 5, 1976, that "Receipt of waste materials at this site must cease in accordance with your agreement to begin closing the site within two weeks."

The report rendered this office indicates that although the disposal occurred on March 17, 1976, there is a strong possibility the destructive effect lasted for several days thereafter. However, in a spirit of reasonableness and compromise, and to avoid any protracted litigation or administrative hearing, the EPD, at this time, is willing to accept a voluntary payment in the amount of $750.00 in full and final settlement of this matter.

Unless I hear from you within fifteen (15) days of your receipt of this letter, I will have no choice but to initiate appropriate legal action on behalf of the EPD. Of course, I will be happy to discuss this matter with you or your attorney should you so wish.

I certainly encourage this volitional payment and an amicable settlement of this matter so as to avert the initiation of legal proceedings. Let me make it clear that my receipt of your check in the amount of $750.00, made payable to the Georgia Environmental Protection Division, will settle this matter fully and finally and obviate the necessity for legal action.

If you are agreeable to this settlement figure, I will, following receipt of your check, draft a consent order between the EPD and you. This consent order would contain no admission by you of the violation of any State law or regulation and would be fashioned so as not to increase your exposure to any possible third-party liability. As stated previously, please let me know your intentions within fifteen (15) days from your receipt of this letter.

Very sincerely,

CARL C. JONES
Assistant Attorney General

CCJ/ec

cc: J. Leonard Ledbetter
Moses N. McCall III

The Department of Law
State of Georgia
Atlanta
30334

ARTHUR K. BOLTON
ATTORNEY GENERAL

132 STATE JUDICIAL BUILDING
TELEPHONE 656-3300

May 20, 1976

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
MAY 24 1976
SOLID WASTE
MANAGEMENT SECTION

Dr. C. B. Young
President
Young Refinery
Huey Road
Douglasville, Georgia 30134

Dear Dr. Young:

On March 19, 1976, the Director of the Environmental Protection Division (hereinafter "EPD"), J. Leonard Ledbetter, issued Emergency Order No. EPD-SW-17, naming you as a respondent. This Emergency Order was precipitated by the EPD's determination that, stored on your property or otherwise within your custody or control, were at least 80 fifty-five gallon drums of liquid waste material which had every indication of being hazardous waste. Also, the EPD had determined that some of this waste had already been deposited at the Basket Creek Road Disposal Site on property owned by Lee Wallace in Douglas County, Georgia.

The Emergency Order, which is a final Order, required you to, among other things, file a written report with the Director which explains and describes:

"(a) Where said liquid waste material was generated and transported from;

(b) The individual or individuals transporting said liquid waste material to and from Respondent's (your) facility;

(c) The exact nature of the chemical components and ingredients of said liquid waste material, sufficiently detailed so as to enable said Director to make a determination of the effect of said liquid waste material on the public health, safety, and well-being."

Moses N. McCall, Chief, Land Protection Branch, EPD, informs me that he and his staff have met with you since the issuance of the Order on several occasions. However, after the passage of two full months, the EPD still does not have a definitive description and explanation of the sources from which this waste was obtained and the exact nature of the components and ingredients of the waste material. The EPD has this morning referred this matter to the Attorney General's office for legal action.

The Solid Waste Management Act, Ga. Laws 1972, pp. 1002 et seq., as amended (Ga. Code Ann. § 43-1615), provides that any person who intentionally or negligently fails or refuses to comply with a final Order of the Director shall be liable to a civil penalty not to exceed $1,000.00 for such violation, and an additional civil penalty not to exceed $500.00 for each day during which such violation continues. The Order issued to you on March 19, 1976, required that the earlier-quoted description and explanation be filed with EPD by no later than 4:30 p.m. on March 22, 1976. On April 30, 1976, you informed Mr. McCall that you would furnish this information "in a few days". To this date, no such description and explanation has been filed as will comply with the specificity required by the Order.

This violation is a continuing one and must be remedied at once. Unless a report is filed with Mr. McCall, representing the Director, which report specifically and clearly delineates the sources and exact components of this waste, within five (5) days from your receipt of this letter, our office will have no alternative but to proceed to invoke the civil penalties statute and schedule a hearing.

I am sure you realize and can appreciate the gravity of this situation and the fact that the EPD is required and charged by law to determine the methods of hazardous waste disposal in order to protect the public health and safety. We need your cooperation to avoid any unnecessary litigation.

Very sincerely,

CCJ

CARL C. JONES
Assistant Attorney General

CCJ/ec

cc: J. Leonard Ledbetter
Moses N. McCall

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Young File

May 20, 1976

1 9 0214

Occurrence Date 5/18/76

MEMORANDUM

To: Mr. James W. Dunbar, Program Manager
Municipal Solid Waste Control Program

From: Moses N. McCall, III, Chief MC
Land Protection Branch

Subject: Lee Wallace--Civil Penalty

On May 18, 1976 I telephoned Mrs. Lee H. Wallace, as per discussions with Carl C. Jones, regarding Mr. Jones' May 14, 1976 demand letter regarding civil penalty for the illegal dumping of liquid waste from Young Refinery, Inc., the night of March 17, 1976. The following conversation /facts ensued during the conversation:

I informed Mrs. Wallace that she and her husband were responsible for the occurrence as property owners of the site. She stated that it had happened only one time and they did not know until telephoned by one of their neighbors ("Jimmy George...lives the first trailer back this side of the site.") the following morning. Their neighbor stated that someone "had carried something down there that didn't smell good".

Mrs. Wallace stated that there had been no more dumping at the site. When I advised that the access to the site was still not limited as required by State regulation, she replied "there's no fence, no gate, no nothing, but they wouldn't have a thing to do but throw it over the fence; there is a sign saying no dumping allowed".

Mrs. Wallace said she had no knowledge of the dumping of the Young waste--she and her husband had paid "about $1,900.00 to get it cleaned off and did not tell Young to carry any barrels down there". She stated that they had never let anyone put anything there except Airvec Chemical Company, which had some old empty barrels that they had to put somewhere, and they were all covered up now. She said they never let Young put anything there.

Memorandum
To: Mr. James W. Dunbar
From: Moses N. McCall
May 20, 1976
Page 2

I asked if B. B. Hulsey normally carried waste to the site. She replied, "No". When asked if Hulsey lived in Douglas County, she stated he lived "down near the Chattahoochee, coming out 92". She stated there would be no further disposal; they did not wish to operate a disposal site; and they wanted to sell the property.

I informed Mrs. Wallace that we were inclined to proceed with the fine demand because of the illegal dumping, but that Mr. Jones of the Attorney General's Office had indicated that it may present a financial burden. She replied, "...we're broke and bent, and I don't think it's fair to charge us for something we didn't even know about. I don't know why or who told Dr. Young to carry them down there, but we sure didn't". She related that she wasn't sure the dumping occurred at night, but "they said it did".

I advised Mrs. Wallace to hold Mr. Jones' letter and not to worry about it until I got back in touch with her. I advised I would talk to other people, including my staff and the Attorney General's Office.

Conclusions: Subsequent follow-up has convinced me that we should proceed with vigor to fully enforce the law against Lee H. Wallace, B. B. Hulsey, and Dr. C. B. F. Young.

MNM:bbk

cc: Mr. Carl C. Jones, III
Mr. John D. Taylor, Jr.

1 9 0216

Memo Frank

State of Georgia vs. Lee H.
B. B.
Dr. C. B. ..

Holding

Defendants in Case:

1. Lee H. Wallace (Owner of 20 acre disposal site)
   3308 Wallace Lake Road
   Douglasville, Georgia 30134
   Phone: 942-6026

2. B. B. (Bart) Hulsey (Transporter of Waste)
   Route 4
   Britt Road
   Douglasville, Georgia 30134
   Phone: Business - 942-6355
   Residence- 942-2144

3. Dr. C. B. F. Young, President
   Young Refining Corporation
   Huey Road
   Douglasville, Georgia 30134

Department of Natural Resources
ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA GEORGIA 30334

JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

1 9 0217

May 21, 1976

Occurrence Date--3/17/76

MEMORANDUM

To: Mr. John D. Taylor, Jr., Program Manager
Industrial Solid Waste & Resource Recovery Program

From: Moses N. McCall, III, Chief
Land Protection Branch

Subject: Young Refining Corporation (Telephone Conversation on May 19, 1976)

May 19, I discussed with Douglas W. Daniell, Public Health Sanitarian, Douglas County Health Department, his investigation of the illegal dumping of liquid wastes from Young Refinery, Inc. at the Lee Wallace--Basket Creek Solid Waste Disposal Site the night of March 17, 1976. Mr. Daniell related the following facts:

Daniell received a complaint call the night of March 17, 1976, and arrived at the Wallace owned disposal site at approximately 9:45 p.m. (He stated he could smell an odor some 3 miles before arriving at the site.) When Daniell arrived, 4 persons were on the scene (two of whom he recognized as B. B. Hulsey and Hulsey's son). Two tractor-trailer rigs were present. One had been emptied of its contents (approximately 80, 55-gallon drums) and the drums were being covered with a bulldozer. Another tractor-trailer was backed up to the "bank". The side rails had been removed from the trailer and persons were aboard the truck prepared to manually push the 55-gallon drums off.

Tag numbers of the 2 tractors and 2 trailers were recorded by Daniell. (The vehicles bore Paulding County identification stickers on the tags.) Persons confronted by Daniell at the site refused to answer questions. One person handed Daniell a business card and stated he was working for Lee Wallace. Daniell instructed the persons not to unload anything else and to wait at the site until he called the Sheriff (no phone was available onsite; therefore, Daniell proceeded to the intersection of Georgia Highways #5 and #166 to telephone the Sheriff). Daniell stated that he was gone approximately 5 minutes and observed only one pickup truck with a camper coming from the vicinity of the dump site during this period. Upon his (Daniell's) return to the site, one tractor-trailer (empty) and one tractor were gone. One trailer (still loaded with drums) remained. Because of the highway routing in the area, Daniel surmises the vehicles departed southwardly into Fulton County.

1776
1976

Memorandum
To: Mr. John D. Taylor, Jr.
From: Moses N. McCall, III
May 21, 1976
Page 2

The following morning, 3/18/76, Daniell ran a check of the license plates. By the time he received verification of registration to Bart Hulsey, Dr. C. B. Young of Young Refinery, Inc., phoned Daniell and admitted the liquid waste had come from his plant. Young also related to Daniell that Bart Hulsey had come to him (Young) and stated he (Hulsey) understood that Young had some material he (Young) needed moved, and said he (Hulsey) would contract to move it for him (Young). Young told Daniell that he (Young) did not know where Hulsey was taking the waste and had not asked Hulsey; he (Young) had just hired Hulsey to haul it off.

Daniell has been apprised of legal proceedings EPD is persuing. Daniell is willing to testify as a witness. Daniell further stated that on 3 occasions, as he drove past the Young plant in his normal line of duty, he had smelled an odor like the odor experienced the night of March 17, 1976, at the aforementioned dump site.

MNM:bbk

cc: Mr. Carl C. Jones, III
Mr. James W. Dunbar

The Department of Law
State of Georgia
Atlanta
30334

19 0219

ARTHUR K. BOLTON
ATTORNEY GENERAL

132 STATE JUDICIAL BUILDING
TELEPHONE 656-3300

May 21, 1976

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. B. B. Hulsey
Route 4
Britt Road
Douglasville, Georgia 30134

Re: Disposal of hazardous solid wastes in Basket Creek Road Disposal Site, Douglas County

Dear Mr. Hulsey:

This office has received from the Environmental Protection Division, Department of Natural Resources (hereinafter "EPD"), a thoroughly documented report of the willful, night-time disposal of approximately eighty (80) 55-gallon drums of hazardous waste obtained from the Young Refinery into the Basket Creek Road Disposal Site in Douglas County, Georgia. This disposal occurred without permission, on or about the night of Wednesday, March 17, 1976. The information this office has received shows that you were a principal participant in the disposal of this waste.

The hazardous waste disposed of on this occasion was toxic and inherently dangerous in nature. Some of the identifiable compounds in this hazardous waste include orthochlorophenol, chloroform, tetrachlorethane, acetone, and dichlorophenol. The EPD has requested that the Attorney General's office initiate expeditious legal action against you for this violation of the Solid Waste Management Act, Ga. Laws 1972, pp. 1002 et seq., as amended, and the Rules and Regulations of the Department of Natural Resources promulgated thereunder.

Section 15 of the Solid Waste Management Act, supra, as amended (Ga. Code Ann. § 43-1615), provides that any person who violates any provision of the Act shall be liable to a civil penalty not to exceed $1,000.00 for such violation and an additional civil penalty not to

exceed $500.00 for each day during which such violation continues. Section 7 of the Act provides that it shall be unlawful for any person to engage in solid waste handling except in such a manner as to conform to and comply with all the rules and regulations established under the Act. Also, Section 7 decrees it unlawful to engage in solid waste handling in a manner which, among other things, will likely create a nuisance, impair the quality of the environment, or likely create hazards to the public health, safety or well-being. Rule 391-3-4-.04(5) specifies pointedly that hazardous wastes shall only be handled in accordance with a written procedure submitted to and approved by the EPD.

The referenced disposal of hazardous wastes on March 17, 1976, violated the provisions of Section 7 of the Act, described above, and the terms of Rule 391-3-4-.04(5) concerning the disposition of hazardous wastes.

The report rendered this office indicates that although the disposal occurred on March 17, 1976, there is a strong possibility the destructive effect lasted for several days thereafter. However, in a spirit of reasonableness and compromise, and to avoid any protracted litigation or administrative hearing, the EPD, at this time, is willing to accept a voluntary payment in the amount of $750.00 in full and final settlement of this matter.

Unless I hear from you within fifteen (15) days of your receipt of this letter, I will have no choice but to initiate appropriate legal action on behalf of the EPD. Of course, I will be happy to discuss this matter with you or your attorney should you so wish.

I certainly encourage this volitional payment and an amicable settlement of this matter so as to avert the initiation of legal proceedings. Let me make it clear that my receipt of your check in the amount of $750.00, made payable to the Georgia Environmental Protection Division, will settle this matter fully and finally and obviate the necessity for legal action.

If you are agreeable to this settlement figure, I will, following receipt of your check, draft a consent order between the EPD and you. This consent order would contain no admission by you of the violation of any State law or regulation and would be fashioned so as not to increase your exposure to any possible third-party liability. As stated previously, please let me know your intentions within fifteen (15) days from your receipt of this letter.

Very sincerely,

CCJ

CARL C. JONES
Assistant Attorney General

CCJ/ec

cc: J. Leonard Ledbetter
Moses N. McCall III

PRELIMINARY ASSESSMENT
TELEPHONE CONVERSATION RECORD

1 9 0222

Site Name: Young Refining Corporation I.D.# GAD051011344

Location Address: 7982 Huey Road; Douglasville, Georgia.

Phone: (404) 942-2343.

Contact: Mr. Charles E. Young Jr. Title: Vice-President

Address: 7982 Huey Road, Douglasville, Ga.

Phone: (404) 942-2343.

Authority: Section 3012 of CERCLA, Comprehensive Environmental Response, Compensation and Liability Act.

Facility has notified EPA via - RCRA 3001 site is in HWDMS
CERCLA 103c site is in NOTIS

Need Information concerning waste generation and disposal prior to Nov. 19, 1980.

How long has facility been in operation? the late, 1955.

What kind of wastes were generated and how much?

Small amounts (200-300 lbs) of heat exchanger residue that is generated in one year.

Was it disposed on site and where?

Yes, a shovel or a couple of wheel barrels every now and then of sludge from heat exchanger (iron oxide - rust).

Was it transported offsite and where?

Materials that were brought in from other companies were disposed of in drums to an EPA approved facility in Kentucky. Liquids were disposed to South Carolina. No recollection of disposal to (over)

Was it treated and how?

Water was treated daily to recapture any oil escaping

Have there been any past spills? Describe.

2 spills early 60's and late 60's; wreck of a truck (oil) small spillage and a spill at refinery of 9,000 gals of diesel fuel, some recovered (over)

Date of call: December 10, 1985 Time: 11:15, 11:50 AM * left Message

December 10, 1985 12:50 PM Spoke with Mr. Charles Young

Gilda A. Knowles

Reviewed by Mike Allred

FROM: CHARLES P. EVANS (404) 656 - 7404

TO: Jimmy LEON GEORGE (404) 942 - 8324

SITE: BASKET CREEK BURIED PIT / SITE 2 1 9 0223

DATE: 12/18/85 TIME: 4:25 PM

COMMENTS: ① MR. GEORGE WAS CONTACTED IN ORDER TO OBTAIN ADDITIONAL DETAILS of WASTE DISPOSAL AT THE SUBJECT SITE

② MR GEORGE SAID THAT he COULD NOT RECALL ANY DETAILS of THE WASTE DISPOSAL, HOWEVER he SAID THE DISPOSAL AREA WAS NOT ON THE LAND he ONCE OWNED, NOW OWNED BY MRS GREG PARKER.

③ FROM MR GEORGE'S DISCRIPTION of THE LOCATION of THE PROPERTY LINE THE WASTE DISPOSAL AREA MAY be ON MRS WALLACE'S PROPERTY OR ON THE PROPERTY LINE SHARED BY BOTH PARCELS of LAND.

ACTION REQUIRED: NONE

Jimmy LEON GEORGE
8450 BANKHEAD HWY
VILLA RICA, GA 30180

TO BE REVIEWED BY:

1) Mike Allen 12-18-86
2)
3)
4)
5)

APPENDIX D

APPENDIX D

References

1. United States Department of Agriculture, Soil Conservation Service, 1959. Soil Survey of Douglas County.

2. McConnell, Keith and Charlotte Abrams, 1984. Geology of the Greater Atlanta Area, Bulletin 96, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey.

3. United States Department of Commerce, 1978. Climatological Data Annual Summary , Georgia, Volume 82, No. 82.

4. United States Geological Survey Map, 1958. 7.5 Minute Series, Rico Quadrangle.

5. United States Environmental Protection Agency, 1982. Test Methods for Evaluating Solid Waste, Publication SW-846.

6. Sax, Irving N., 1979. Dangerous Properties of Industrial Materials, Van Nostrand Reinhold Company.

APPENDIX E

APPENDIX E

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D980844849

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Basket Creek Rd Buried Pit/Site No. 2	Basket Creek Road				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Douglasville	GA	30135	Douglas	97	6

09 COORDINATES: LATITUDE 33 15 34.7 | LONGITUDE 084 48 58.0

10 TYPE OF OWNERSHIP (Check one): [X] A. PRIVATE [ ] B. FEDERAL ____ [ ] C. STATE [ ] D. COUNTY [ ] E. MUNICIPAL [ ] F. OTHER ____ [ ] G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 10 / 8 / 85 (MONTH DAY YEAR)

02 SITE STATUS: [ ] ACTIVE [X] INACTIVE

03 YEARS OF OPERATION: 1976 / 1976 (BEGINNING YEAR / ENDING YEAR) ____ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply): [ ] A. EPA [ ] B. EPA CONTRACTOR ____ (Name of firm) [ ] C. MUNICIPAL [ ] D. MUNICIPAL CONTRACTOR ____ (Name of firm) [X] E. STATE [ ] F. STATE CONTRACTOR ____ (Name of firm) [ ] G. OTHER ____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
Charles P. Evans	Environmental Specialist	GA EPD	(404) 656-7404

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Gilda A. Knowles	Environmental Specialist	GA EPD	(404) 656-7404
Steve Walker	Environmental Specialist	GA EPD	(404) 656-7404
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mrs. Lee Wallace	owner	4022 Boyd Road Douglasville, GA 30135	(404) 377-7010
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
[X] PERMISSION [ ] WARRANT	10.00a.m.-3:30p.m.	Clear

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Mrs. Lee Wallace	owner's wife	(404) 377-7010

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Charles P. Evans CPE	DNR	GA EPD	(404)656-7404	1 / / 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

APPENDIX E

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D980844849

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

X A SOLID
B POWDER, FINES
C SLUDGE
D OTHER _____ (Specify)
E SLURRY
F LIQUID
G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS 417
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

X A TOXIC
B CORROSIVE
C RADIOACTIVE
D PERSISTENT
E SOLUBLE
F INFECTIOUS
G FLAMMABLE
H IGNITABLE
I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	unknown	n/a	n/a
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	benzene	71432	LF	300	mg/kg
	methy ethyl ketone	78933	LF	62,00	mg/kg
	trichloroethylene	79016	LF	1740	mg/kg
	ethyl benzene	100414	LF	5700	mg/kg
	xylene (total)	1330207	LF	51,000	mg/kg
	toluene	108883	LF	75,000	mg/kg
	tetrachloroethene	630206	LF	2400	mg/kg
	acetone	67641	LF	177,000	mg/kg
	methyl isobutyl ketone	108101	LF	22,100	mg/kg
	PCB	53449219	LF	4.24	mg/kg
	1,2 dichlorobenzene	955501	LF	10	mg/kg
	napthalene	91203	LF	12.9	mg/kg
	dimethyl phtalate	131113	LF	24.4	mg/kg
	phenol	108952	LF	32	mg/kg
	chlorobenzene	108907	LF	24	mg/kg
	2-butoxy ethanol	7795917	LF	141	mg/kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	N/A		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Identify relevant documents, e.g., statements, sampling or lab reports)

GA EPD FILE "BASKET CREEK BURIED PIT /SITE #2"

EPA FORM 2070-13 (7-81)

APPENDIX E

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D980844849

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Potential for groundwater contamination due to lechate from the waste disposal area.

01 [X] B. SURFACE WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Surface water flows over old disposal area.

01 [ ] C. CONTAMINATION OF AIR — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] E. DIRECT CONTACT — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [X] F. CONTAMINATION OF SOIL — 02 [X] OBSERVED (DATE 10-8-85) — [ ] POTENTIAL — [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

sample S-3 of laboratory data

01 [X] G. DRINKING WATER CONTAMINATION — 02 [ ] OBSERVED (DATE _____) — [X] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Residents in area use groundwater as a source of drinking water

01 [ ] H. WORKER EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 [ ] I. POPULATION EXPOSURE/INJURY — 02 [ ] OBSERVED (DATE _____) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: GA
02 SITE NUMBER: D980844849

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 X P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Unauthorized disposal of waste

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

unknown

III. TOTAL POPULATION POTENTIALLY AFFECTED: 57

IV. COMMENTS

None

V. SOURCES OF INFORMATION (cite specific references, e.g., state files, sample analysis, reports)

GA EPD FILES "BASKET CREEK BURIED PIT/SITE #2"

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D980344849

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A NPDES				
☐ B UIC				
☐ C AIR				
☐ D RCRA				
☐ E RCRA INTERIM STATUS				
☐ F SPCC PLAN				
☐ G STATE (Specify)				
☐ H LOCAL (Specify)				
☐ I OTHER (Specify)				
☒ J NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☒ A SURFACE IMPOUNDMENT	417	cy
☐ B PILES		
☐ C DRUMS, ABOVE GROUND		
☐ D TANK, ABOVE GROUND		
☐ E TANK, BELOW GROUND		
☐ F LANDFILL		
☐ G LANDFARM		
☐ H OPEN DUMP		
☐ I OTHER _____ (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A INCENERATION
- ☐ B UNDERGROUND INJECTION
- ☐ C CHEMICAL/PHYSICAL
- ☐ D BIOLOGICAL
- ☐ E WASTE OIL PROCESSING
- ☐ F SOLVENT RECOVERY
- ☐ G OTHER RECYCLING/RECOVERY
- ☐ H OTHER _____ (Specify)

None

05 OTHER

☒ A BUILDINGS ON SITE

mobile home

06 AREA OF SITE

0.06 (Acres)

07 COMMENTS

None

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A ADEQUATE, SECURE ☒ B MODERATE ☐ C INADEQUATE, POOR ☐ D INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC

Impoundment - no liner, contents of drums emptied into impoundment.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO

02 COMMENTS

12" of earth cover the waste

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

GA EPD FILES

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
GA	D980844849

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check all that apply)

	SURFACE	WELL
COMMUNITY	A ☐	B ☐
NON-COMMUNITY	C ☐	D ☒

02 STATUS

	ENDANGERED	AFFECTED	MONITORED
COMMUNITY	A ☐	B ☐	C ☐
NON-COMMUNITY	D ☐	E ☐	F ☒

03 DISTANCE TO SITE

A _____ (mi)
B 0.04 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 35

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.02 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
unknown (ft)	west	unknown (ft)	unknown (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including useage, depth, and location relative to population and buildings)

30" diameter bored well, depth of well is 75-feet

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS Surface water drainage area	☐ YES ☒ NO	COMMENTS None

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
unnamed creek southeast of site	☒	0.13 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A 57 NO. OF PERSONS	B 395 NO. OF PERSONS	C 809 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.02 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 104

04 DISTANCE TO NEAREST OFF-SITE BUILDING .05 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Rural, single family residences in vicinity of the site.

EPA FORM 2070-13 (7-81)

APPENDIX E

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D980844849

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} – 10^{-8} cm/sec ☒ B. 10^{-4} – 10^{-6} cm/sec ☐ C. 10^{-4} – 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ☐ C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
unknown (ft)	4 (ft)	unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
48 (in)	3.25 (in)	20 %	East	20 %

09 FLOOD POTENTIAL

SITE IS IN n/a YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

n/a

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A unknown (mi)

OTHER: B _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: unknown

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 1.85 (mi)	B. 0.04 (mi)	C. _____ (mi)	D. 0.75 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The topography of the area is that of rolling hills and valleys. The site lies in a draw. Surface water from the surrounding terrain will be concentrated and flow across the site. Ground water flow is also expected to travel in a similar direction.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

GA EPD FILES

EPA FORM 2070-13 (7-81)

APPENDIX E

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D980844849

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	EPD LABORATORY	
SURFACE WATER			
WASTE	1	" "	
AIR			
RUNOFF			
SPILL			
SOIL	2	" "	
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
none	n/a

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL none

02 IN CUSTODY OF n/a (Name of organization or individual)

03 MAPS X YES ☐ NO

04 LOCATION OF MAPS GA ENVIRONMENTAL PROTECTION DIVISION

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

GA EPD FILES

EPA FORM 2070-13 (7-81)

APPENDIX E

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
GA	D980844849

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
Mr. Lee Wallace				N/A			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
4022 Boyd Road							
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
Douglasville	GA	30135					
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	

III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (If applicable; list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

GA EPD FILES

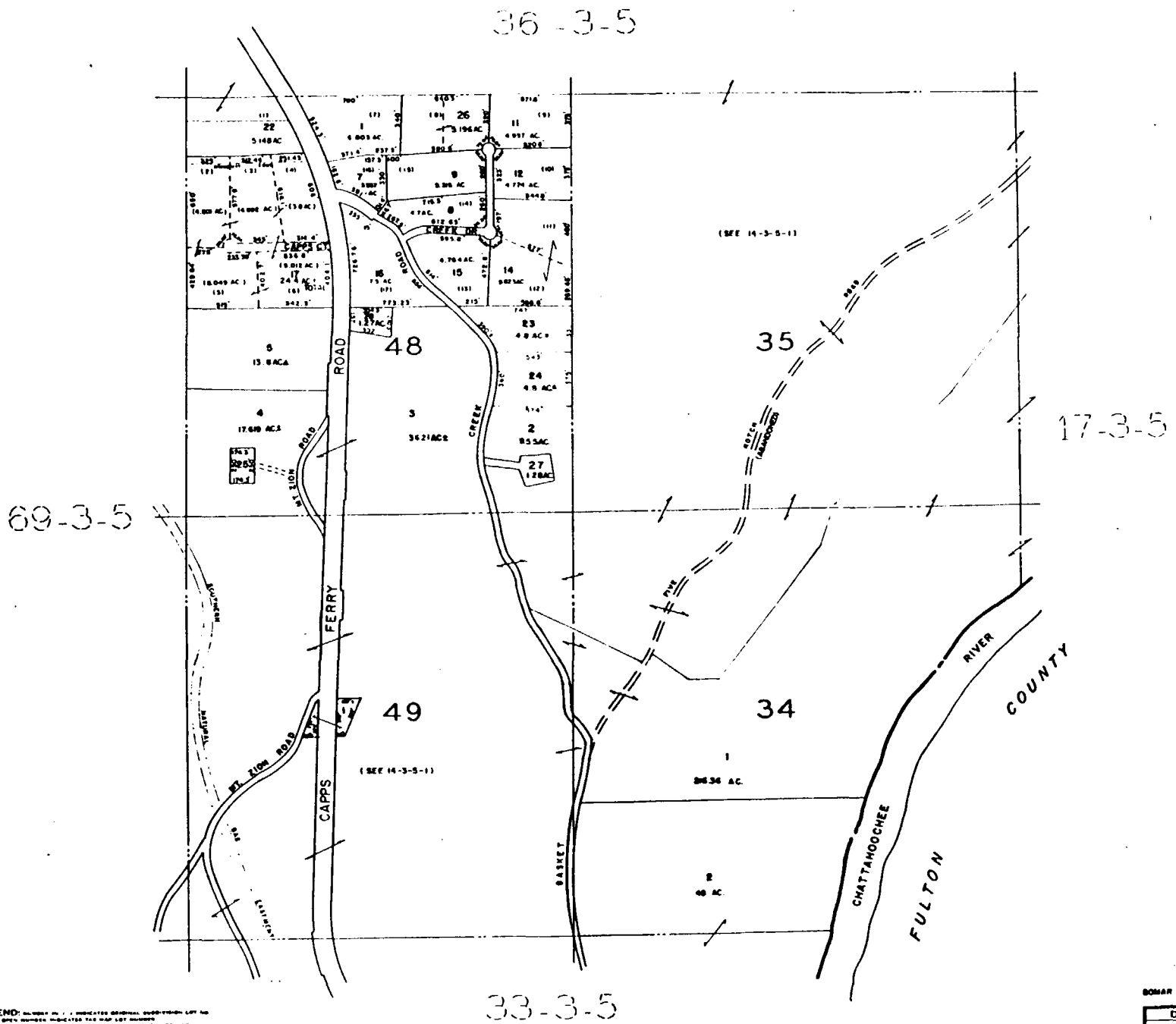
EPA FORM 2070-13 (7-81)

County Name Douglas
Picture No. 10 of 11
Site Name Wallace Lake Rd Dump
Date 3-4-85 Weather Clear
Direction Facing West
Photographer Jeff Williams
Program Remedial Action Unit
Explanation Photograph of old trench disposal area that was used to discard
Other waste. Site has since been leveled and turned into a horse pasture photograph is from unpaved road that bisects the horse pasture.

County Name Douglas
Picture No. 11 of 11
Site Name Wallace Lake Rd Dump
Date 3-4-85 Weather Clear
Direction Facing West
Photographer Jeff Williams
Program Remedial Action Unit
Explanation Photograph of unconsolidated soils that contained tar like residues
Other on the surface This area occurs just outside of the fenced pasture on the western margins of the trees. This area is presumed to be an old pit where burning was once practiced.

ATTACHMENT I

PROPERTY OWNERSHIP INFORMATION



Charles Allsip
Head of Security
Southwire Corp
Carrollton

19 0238

289

BOMAR PROP P.B. 7 P.66

DOUGLAS COUNTY, GA

34-3-5

LEGEND:

NOTE:

Photo AU-2 - 176 & 178

ALEXANDER JOHNSON & ASSOCIATES ATLANTA, GA

19 0239

DOUGLAS COUNTY APPRAISAL DEPARTMENT

PROPERTY RECORD CARD OF

PARCEL NO [illegible] ACCOUNT NO [illegible] LOCATION DESC [illegible]

OWNERSHIP RECORD	DATE	DB/PG	SP
	[illegible]		
PARKER, PAULA			
7768 LASKET CHUCK ACAD			
DOUGLASVILLE, GA			

ASSESSMENT RECORD

YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND	[illegible]	LAND	[illegible]	LAND		LAND	
BLDG	[illegible]	BLDG	[illegible]	BLDG		BLDG	
TOTAL	[illegible]	TOTAL	[illegible]	TOTAL		TOTAL	
YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND		LAND		LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL		TOTAL		TOTAL		TOTAL	

STRUCTURES

OCCUPANCY
SGL FMY
DUPLEX
MH X
OTHER

DESIGN
1 2½
1½ 2¾
1½ S/L
2 S/F

FOUNDATION
CONC
C B
BRK
PIER
STONE

SUBFLOOR
WOOD JOIST
CONC SLAB

EXTERIOR WALLS
FBV
CEDAR SDG
WD SDG
CEDAR SGL
ASB SGL
STUCCO FR
ALUM SDG
BRK FR
STUCCO C B
BRK C B
STONE
BD/BTNS
BEVEL SDG
DROP SDG
HRD BD SDG

ROOF DESIGN
FLAT HIP
GAB MAN
GAM

ROOF COVER
ASPH SHG
T & G
METAL
ROLL
SLATE
WD SHG
OTHER

FLOOR FINISH
CARPET
INLD VYL
TILE
HARD WD
SOFT WD
CONC
UNFIN

INTERIOR FINISH
DRYWALL
PNL SOFT WD
PNL HARD WD
PLASTER
UNFIN

PLUMBING
FULL BATHS
½ BATHS
TOTAL FIXTURES

ROOMS
BEDROOMS
TOTAL ROOMS

HEATING / A/C
GFWA OFWA
EFWA HWG
HWO HP
BBE WF
FF NO HT
A/C

QUALITY FACTORS
GRADE COND.
YR BLT EFF YB.
FUNCT LOC

LIVING
TOTAL BSMT
FIN BSMT
FIN ATTIC
ATTIC STG FL
CARPORT CAR CAP
BSMT GAR CAP
ATT GAR CAR CAP
STORAGE ROOM
PATIO OG
PATIO AG
SUNDECK
OPEN PORCH
ENCL PORCH
POOL

OTHER FEATURES
CHIMNEYS 1s 2s
FIREPLACES
DW IC AF
CV TM BA
MIC OVEN OR/VH

NOTES

MOBILE HOMES
SIZE [illegible] x [illegible]
YEAR BUILT [illegible]
CLASS [illegible]

COMPUTATIONS
BASE [illegible]
A/C
FACTORY ADD
FRAME ADD
SC PORCH
OFP
CANOPY
DECK
PATIO
OTHER

ESTIMATED REPLACEMENT
COST $ [illegible]
LESS DEPRECIATION [illegible]
DEPRECIATED VALUE $

LOCATION #		
DESCRIPTION	ACRES	VALUE
IF or HS		
IC		
IW		
IIF or HS	[illegible]	[illegible]
IIC	[illegible]	[illegible]
IIW		
IIIC		
OTHER		
TOTAL	[illegible]	[illegible]
AV RPA		[illegible]

ZONING	USE
R 1	
R 2	
R 3	
R 4	
R 6	
OTHER	

SITE FACTORS

UTILITIES	STREET	LANDSCAPING	DRAINAGE
PUB WATER	PAVED	NOMINAL X	GOOD
NAT GAS	C & G	FAIR	FAIR X
ELECT	S WALK	AVERAGE	POOR
SEWER	RESTRICTIVE COVENANTS YES	NO X	

STRUCTURES
MAIN
BSMT
FIN BSMT
F ATTIC
ATTIC STG
CARPORT
GARAGE
STG ROOM
PATIO
SUNDECK
OPEN PORCH
ENCL PORCH
POOL
HEAT
A/C
PLUMBING FIX
FIREPLACES
LS/ST/DW
OTHER FEAT
MISC BLDGS
ESTIMATED REPLACEMENT COST $
% COMPLETE
LESS PHYSICAL DEP
LESS FUNCTIONAL OBSOLESCENCE
LESS LOCATIONAL OBSOLESCENCE
ESTIMATED DEPRECIATED FMV
OTHER STRUCTURES
SUB TOTAL STRUCTURES
TOTAL STRUCTURES OTHER CARDS
TOTAL STRUCTURE VALUE
LAND VALUE
FINAL PROPERTY VALUE

19 0240

DOUGLAS COUNTY APPRAISAL DEPARTMENT

PROPERTY RECORD CARD OF

PARCEL NO [illegible] ACCOUNT NO LOCATION DESC [illegible]

OWNERSHIP RECORD DATE DB/PG SP

SHIPMAN, Katherine Transferred for 1989 per Min. Bk. Z Pg. 317
[illegible]
DOUGLASVILLE, GA [illegible]

ASSESSMENT RECORD

YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND	[illegible]	LAND	[illegible]	LAND		LAND	
BLDG	[illegible]	BLDG	[illegible]	BLDG		BLDG	
TOTAL	[illegible]	TOTAL	[illegible]	TOTAL		TOTAL	
YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND		LAND		LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL		TOTAL		TOTAL		TOTAL	

STRUCTURES

OCCUPANCY
SGL FMY
DUPLEX
MH X
OTHER

DESIGN
1 2%
1½ 2%
1½ S/L
2 S/F

FOUNDATION
CONC
C B
BRK
PIER
STONE

SUBFLOOR
WOOD JOIST
CONC SLAB

EXTERIOR WALLS
FBV
CEDAR SDG
WD SDG
CEDAR SGL
ASB SGL
STUCCO/FR
ALUM SDG
BRK/FR
STUCCO/C B
BRK/C B
STONE
BD/BTNS
BEVEL SDG
DROP SDG
HRD BD SDG

ROOF DESIGN
FLAT HIP
GAB MAN
GAM

ROOF COVER
ASPH SHG
T & G
METAL
ROLL
SLATE
WD SHG
OTHER

FLOOR FINISH
CARPET
INLD VYL
TILE
HARD WD
SOFT WD
CONC
UNFIN

INTERIOR FINISH
DRYWALL
PNL SOFT WD
PNL HARD WD
PLASTER
UNFIN

PLUMBING
FULL BATHS
½ BATHS
TOTAL FIXTURES

ROOMS
BEDROOMS
TOTAL ROOMS

HEATING / A/C
GFWA OFWA
EFWA HWG
HWO HP
BBE WF
FF NO HT
A/C

QUALITY FACTORS
GRADE COND
YR BLT EFF YB
FUNCT LOC

LIVING
TOTAL BSMT
FIN BSMT
FIN ATTIC
ATTIC STG FL
CARPORT CAR CAP
BSMT GAR CAP
ATT GAR CAR CAP
STORAGE ROOM
PATIO OG
PATIO AG
SUNDECK
OPEN PORCH
ENCL PORCH
POOL

OTHER FEATURES
CHIMNEYS 1s 2s
FIREPLACES
DW IC AF
CV TM BA
MIC OVEN OR/VH

NOTES

MOBILE HOMES
SIZE 1 x
YEAR BUILT 1
CLASS

COMPUTATIONS
BASE
A/C
FACTORY ADD
FRAME ADD 1
SC PORCH
OFP
CANOPY
DECK
PATIO
OTHER

ESTIMATED REPLACEMENT
COST* $
LESS DEPRECIATION
DEPRECIATED VALUE $

LOCATION #

DESCRIPTION	ACRES	VALUE
IF or HS		
IC		
IW		
IIF or HS		
IIC		
IIW		
IIIC		
OTHER		
TOTAL		
AV RPA		

ZONING	USE
R 1	
R 2	
R 3	
R 4	
R 6	
OTHER	

SITE FACTORS

UTILITIES	STREET	LANDSCAPING	DRAINAGE
PUB WATER	PAVED	NOMINAL X	GOOD
NAT GAS	C & G	FAIR	FAIR Y
ELECT	S. WALK	AVERAGE	POOR
SEWER	RESTRICTIVE COVENANTS YES	NO X	

STRUCTURES
MAIN
BSMT
FIN BSMT
F ATTIC
ATTIC STG
CARPORT
GARAGE
STG ROOM
PATIO
SUNDECK
OPEN PORCH
ENCL PORCH
POOL
HEAT
A/C
PLUMBING FIX
FIREPLACES
LS/ST/DW
OTHER FEAT
MISC BLDGS
ESTIMATED REPLACEMENT COST $
% COMPLETE
LESS PHYSICAL DEP
LESS FUNCTIONAL OBSOLESCENCE
LESS LOCATIONAL OBSOLESCENCE
ESTIMATED DEPRECIATED FMV
OTHER STRUCTURES
SUB TOTAL STRUCTURES
TOTAL STRUCTURES OTHER CARDS
TOTAL STRUCTURE VALUE
LAND VALUE
FINAL PROPERTY VALUE

19 0241

DOUGLAS COUNTY APPRAISAL DEPARTMENT

PROPERTY RECORD CARD 1 OF 1

PARCEL NO 0048035 00003 ACCOUNT NO C007095 LOCATION DESC HSE/36.00 ACRES, CAPPS FERRY RCA

OWNERSHIP RECORD DATE DB/PG SP

04580320

GANTT, AUGUSTA ANN
7790 CAPPS FERRY ROAD
DOUGLASVILLE, GA 30135

ASSESSMENT RECORD

YEAR	198 9 BOA	YEAR	1989	YEAR	198	YEAR	198
LAND	17594	LAND	10168	LAND		LAND	
BLDG	17073	BLDG	9867	BLDG		BLDG	
TOTAL	34667	TOTAL	20036	TOTAL		TOTAL	
YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND		LAND		LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL		TOTAL		TOTAL		TOTAL	

STRUCTURES

OCCUPANCY
SGL FMY X
DUPLEX
MH
OTHER

DESIGN
1 X 2%
1½ 2%
1½ S/L
2 S/F

FOUNDATION
CONC
C B X
BRK
PIER
STONE

SUBFLOOR
WOOD JOIST X
CONC SLAB

EXTERIOR WALLS
FBV X
CEDAR SDG
WD SDG
CEDAR SGL
ASB SGL
STUCCO/FR
ALUM SDG
BRK/FR
STUCCO/C B
BRK/C B
STONE
BD/BTNS
BEVEL SDG
DROP SDG
HRD BD SDG

ROOF DESIGN
FLAT HIP
GAB MAN
GAM

ROOF COVER
ASPH SHG X
T & G
METAL
ROLL
SLATE
WD SHG
OTHER

FLOOR FINISH
CARPET X
INLD VYL
TILE
HARD WD
SOFT WD
CONC
UNFIN

INTERIOR FINISH
DRYWALL X
PNL SOFT WD
PNL HARD WD
PLASTER
UNFIN

PLUMBING
FULL BATHS 1
½ BATHS
TOTAL FIXTURES 5

ROOMS
BEDROOMS 2
TOTAL ROOMS

HEATING / A/C
GFWA OFWA
EFWA HWG
HWO HP
BBF WF
FF NO HT X
A/C

QUALITY FACTORS
GRADE C • COND 2
YR BLT 81 EFF YB
FUNCT LOC

LIVING 1107
TOTAL BSMT 1107
FIN BSMT
FIN ATTIC
ATTIC STG FL
CARPORT CAR CAP
BSMT GAR CAP
ATT GAR CAR CAP
STORAGE ROOM
PATIO OG
PATIO AG
SUNDECK
OPEN PORCH 80
ENCL PORCH 328
POOL

OTHER FEATURES
CHIMNEYS 1s 1 2s
FIREPLACES 1
DW 1 IC 0 AF 0
CV C TM 0 BA 0
MIC OVEN ~~GRAVEL~~ 0
RCV X

NOTES

MOBILE HOMES
SIZE X
YEAR BUILT
CLASS

COMPUTATIONS
BASE
A/C
FACTORY ADD
FRAME ADD
SC PORCH
OFP
CANOPY
DECK
PATIO
OTHER

ESTIMATED REPLACEMENT
COST* $
LESS DEPRECIATION
DEPRECIATED VALUE $

LOCATION # 139

DESCRIPTION	ACRES	VALUE
IF or HS	7.45	8921
IC	10.66	5318
IW		
IIF or HS	7.23	6926
IIC	10.66	4255
IIW		
IIIC		
OTHER		
TOTAL	36.00	25421
AV RPA		706

ZONING	USE
X R-1	X
R-2	
R-3	
R-4	
R-6	
OTHER	

SITE FACTORS

UTILITIES		STREET		LANDSCAPING		DRAINAGE	
PUB WATER	2	PAVED	X	NOMINAL		GOOD	
NAT GAS	0	C & G		FAIR	X	FAIR	X
ELECT	1	S WALK		AVERAGE		POOR	
SEWER	2	RESTRICTIVE COVENANTS YES				NO	X

STRUCTURES

MAIN	17.19	19032
BSMT	2.063	2306
FIN BSMT		
F. ATTIC		
ATTIC STG		
CARPORT		
GARAGE		
STG. ROOM		
PATIO		
SUNDECK		
OPEN PORCH		504
ENCL PORCH		1861
POOL		
HEAT	.88	995CR
A/C		
PLUMBING FIX		500CP
FIREPLACES		1150
LS/ST/DW		1000
OTHER FEAT		300
MISC BLDGS		
ESTIMATED REPLACEMENT COST $		24668
% COMPLETE		
LESS PHYSICAL DEP		
LESS FUNCTIONAL OBSOLESCENCE		
LESS LOCATIONAL OBSOLESCENCE		
ESTIMATED DEPRECIATED FMV		24668
OTHER STRUCTURES		
SUB TOTAL STRUCTURES		24668
TOTAL STRUCTURES OTHER CARDS		
TOTAL STRUCTURE VALUE		24668
LAND VALUE		25421
FINAL PROPERTY VALUE		50089
		86669

0242

[illegible] COUNTY APPRAISAL DEPARTMENT — PROPERTY RECORD CARD — OF

PARCEL NO [illegible] ACCOUNT NO [illegible] LOCATION DESC [illegible]

OWNERSHIP RECORD — DATE — DB/PG — SP

[illegible]

ASSESSMENT RECORD

YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND	[illegible]	LAND	[illegible]	LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL	[illegible]	TOTAL		TOTAL		TOTAL	
YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND	[illegible]	LAND		LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL	[illegible]	TOTAL		TOTAL		TOTAL	

STRUCTURES

OCCUPANCY
SGL FMY
DUPLEX
MH
OTHER

DESIGN
1 2%
1½ 2%
1½ S/L
2 S/F

FOUNDATION
CONC
C B
BRK
PIER
STONE

SUBFLOOR
WOOD JOIST
CONC SLAB

EXTERIOR WALLS
FBV
CEDAR SDG
WD SDG
CEDAR SGL
ASB SGL
STUCCO/FR
ALUM SDG
BRK/FR
STUCCO/C B
BRK C B
STONE
BD/BTNS
BEVEL SDG
DROP SDG
HRD BD SDG

ROOF DESIGN
FLAT HIP
GAB MAN
GAM

ROOF COVER
ASPH SHG
T & G
METAL
ROLL
SLATE
WD SHG
OTHER

FLOOR FINISH
CARPET
INLD VYL
TILE
HARD WD
SOFT WD
CONC
UNFIN

INTERIOR FINISH
DRYWALL
PNL SOFT WD
PNL HARD WD
PLASTER
UNFIN

PLUMBING
FULL BATHS
½ BATHS
TOTAL FIXTURES

ROOMS
BEDROOMS
TOTAL ROOMS

HEATING / A/C
GFWA OFWA
EFWA HWG
HWO HP
BBE WF
FF NO HT
A/C

FOR [illegible] TYPED [illegible] [illegible] BONCE [illegible] [illegible] 7.0589 [illegible]

QUALITY FACTORS
GRADE COND
YR BLT EFF YB
FUNCT LOC

LIVING
TOTAL BSMT
FIN BSMT
FIN ATTIC
ATTIC STG FL
CARPORT CAR CAP
BSMT GAR CAP
ATT GAR CAR CAP
STORAGE ROOM
PATIO OG
PATIO AG
SUNDECK
OPEN PORCH
ENCL PORCH
POOL

OTHER FEATURES
CHIMNEYS 1s 2s
FIREPLACES
DW IC AF
CV TM BA
MIC OVEN OR/VH

NOTES

[illegible]

MOBILE HOMES
SIZE X
YEAR BUILT
CLASS

COMPUTATIONS
BASE
A/C
FACTORY ADD
FRAME ADD
SC PORCH
OFP
CANOPY
DECK
PATIO
OTHER

ESTIMATED REPLACEMENT
COST* $
LESS DEPRECIATION
DEPRECIATED VALUE $

LOCATION #		
DESCRIPTION	ACRES	VALUE
IF or HS		
IC		
IW		
IIF or HS	[illegible]	
IIC	[illegible]	[illegible]
IIW	[illegible]	[illegible]
IIIC		
OTHER		954
TOTAL	[illegible]	[illegible]
AV RPA		[illegible]
		1651

ZONING	USE
R 1	
R 2	
R 3	
R 4	
R 6	
OTHER	

SITE FACTORS

UTILITIES	STREET	LANDSCAPING	DRAINAGE
PUB WATER L	PAVED	NOMINAL	GOOD
NAT GAS L	C & G	FAIR	FAIR X
ELECT 1	S WALK	AVERAGE	POOR
SEWER	RESTRICTIVE COVENANTS YES	NO X	

STRUCTURES

MAIN
BSMT
FIN BSMT
F ATTIC
ATTIC STG
CARPORT
GARAGE
STG ROOM
PATIO
SUNDECK
OPEN PORCH
ENCL PORCH
POOL
HEAT
A/C
PLUMBING FIX
FIREPLACES
LS/ST/DW
OTHER FEAT
MISC BLDGS
ESTIMATED REPLACEMENT COST $
% COMPLETE
LESS PHYSICAL DEP
LESS FUNCTIONAL OBSOLESCENCE
LESS LOCATIONAL OBSOLESCENCE
ESTIMATED DEPRECIATED FMV
OTHER STRUCTURES
SUB TOTAL STRUCTURES
TOTAL STRUCTURES OTHER CARDS
TOTAL STRUCTURE VALUE
LAND VALUE [illegible]
FINAL PROPERTY VALUE [illegible]

19 0243

DOUGLAS COUNTY APPRAISAL DEPARTMENT

PROPERTY RECORD CARD 1 OF 1

PARCEL NO 0014035 00001 ACCOUNT NO R059751 LOCATION

DESC Hse/2538.557 ACRES, GEORGIA HIGHWAY 166

OWNERSHIP RECORD DATE DB/PG SP

C4215480

RIVER JUNCTION LANDS, INC.
P.O. BOX 400
CARROLLTON, GA 30117

ASSESSMENT RECORD

YEAR	198 9 BOA	YEAR	1989	YEAR	198	YEAR	198
LAND	496727	LAND	287074	LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL	496727	TOTAL	287074	TOTAL		TOTAL	
YEAR	198	YEAR	198	YEAR	198	YEAR	198
LAND		LAND		LAND		LAND	
BLDG		BLDG		BLDG		BLDG	
TOTAL		TOTAL		TOTAL		TOTAL	

STRUCTURES

OCCUPANCY
SGL FMY
DUPLEX
MH
OTHER

DESIGN
1 2½
1½ 2¾
1¾ S/L
2 S/F

FOUNDATION
CONC
C B
BRK
PIER
STONE

SUBFLOOR
WOOD JOIST
CONC SLAB

EXTERIOR WALLS
FBV
CEDAR SDG
WD SDG
CEDAR SGL
ASB SGL
STUCCO/FR
ALUM SDG
BRK/FR
STUCCO/C B
BRK/C B
STONE
BD/BTNS
BEVEL SDG
DROP SDG
HRD BD SDG

ROOF DESIGN
FLAT HIP
GAB MAN
GAM

ROOF COVER
ASPH SHG
T & G
METAL
ROLL
SLATE
WD SHG
OTHER

FLOOR FINISH
CARPET
INLD VYL
TILE
HARD WD
SOFT WD
CONC
UNFIN

INTERIOR FINISH
DRYWALL
PNL SOFT WD
PNL HARD WD
PLASTER
UNFIN

PLUMBING
FULL BATHS
½ BATHS
TOTAL FIXTURES

ROOMS
BEDROOMS
TOTAL ROOMS

HEATING / A/C
GFWA OFWA
EFWA HWG
HWO HP
BBL WF
FF NO HT
A/C

QUALITY FACTORS
GRADE COND.
YR BLT EFF YB.
FUNCT LOC.

LIVING
TOTAL BSMT
FIN BSMT
FIN ATTIC
ATTIC STG FL
CARPORT CAR CAP
BSMT GAR CAP
ATT GAR CAR CAP
STORAGE ROOM
PATIO OG
PATIO AG
SUNDECK
OPEN PORCH
ENCL PORCH
POOL

OTHER FEATURES
CHIMNEYS 1s 2s
FIREPLACES
DW IC AF
CV TM BA
MIC OVEN ~~GR/VH~~ XXXX
RCV

NOTES

MOBILE HOMES
SIZE X
YEAR BUILT
CLASS

COMPUTATIONS
BASE
A/C
FACTORY ADD
FRAME ADD
SC PORCH
OFP
CANOPY
DECK
PATIO
OTHER

ESTIMATED REPLACEMENT
COST* $
LESS DEPRECIATION
DEPRECIATED VALUE $

LOCATION #

DESCRIPTION	ACRES	VALUE
IF or HS		
IC		
IW		
IIF or HS		
IIC		
IIW		
IIIC		
OTHER		
TOTAL		
AV RPA		

ZONING USE
X R-1
R-2
R-3
R-4
R-6
OTHER

SITE FACTORS

UTILITIES		STREET		LANDSCAPING		DRAINAGE	
PUB WATER	0	PAVED	X	NOMINAL		GOOD	
NAT GAS	0	C & G		FAIR		FAIR	X
ELECT	1	S WALK		AVERAGE		POOR	
SEWER	0	RESTRICTIVE COVENANTS YES		NO	X		

STRUCTURES
MAIN
BSMT
FIN BSMT
F ATTIC
ATTIC STG
CARPORT
GARAGE
STG ROOM
PATIO
SUNDECK
OPEN PORCH
ENCL PORCH
POOL
HEAT
A/C
PLUMBING FIX
FIREPLACES
LS/ST/DW
OTHER FEAT
MISC BLDGS.
ESTIMATED REPLACEMENT COST $
% COMPLETE
LESS PHYSICAL DEP
LESS FUNCTIONAL OBSOLESCENCE
LESS LOCATIONAL OBSOLESCENCE
ESTIMATED DEPRECIATED FMV
OTHER STRUCTURES
SUB TOTAL STRUCTURES
TOTAL STRUCTURES OTHER CARDS
TOTAL STRUCTURE VALUE
LAND VALUE 717686
FINAL PROPERTY VALUE 717686
1241817