(red)

FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

FIT PROJECT

TASK REPORT TO THE ENVIRONMENTAL PROTECTION AGENCY CONTRACT NO. 68-01-6056

A Resampling Trip Report
of

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

Preparation Date: August 9, 1982

Presented to: Linda Y. Boornazian, Acting DPO
EPA Region III

Prepared by: Elizabeth Cross

Joseph G. McGovern, FITL III

ecology and environment, inc.

International Specialists in the Environmental Sciences

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Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

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SECTION 1

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

SUMMARY AND RECOMMENDATIONS

1.1 SUMMARY

Wildcat Landfill was operated from the mid 1960's to 1973 as a sanitary landfill for Dover and the surrounding area. Both domestic and industrial wastes including latex were accepted. The landfill operation filled in low lying marsh areas along the St. Jones River with lifts of 3' to 10'. Approximately 50 acres of land was filled before the site was closed in 1973 because of leachate problems. Samples have been taken over the years and have shown that high biochemical oxygen demand (BOD) and chemical oxygen demand (COD) leachate is emanating from the site.

Sample results from June 3, 1982, show off-site migration of phthalates and heavy metals. The phthalates are presumably attributed to the large quantities of disposed plastics on site. The presence of these phthalates is to be expected as they are often associated with sanitary landfills. Section 4 discusses the toxicological impact of the metals and other compounds in the sample results.

The deep well (180' depth) on Hunn's property showed no evidence of contamination. (There are low levels of some heavy metals to include: aluminum, copper, iron and zinc). This aquifer is the source of the Dover area municipal supply. The shallower aquifer, represented by the shallow Hunn well (44'), showed some organic contamination (See Section 4). This aquifer serves a small population on domestic wells west of the site. As this shallow aquifer discharges into the St. Jones River, these domestic wells would be upgradient of the landfill.

1.2 RECOMMENDATIONS

It is recommended that a hydrogeologic assessment be performed for the purpose of locating potential groundwater monitoring wells.

SECTION 2

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

FIELD TRIP REPORT

2.1 INTRODUCTION

A site visit to the Wildcat Landfill in Dover, Delaware was made on Thursday, June 3, 1982. Ecology and Environment (E&E) Field Investigation Team (FIT) personnel Beth Gross, Gregg Crystall, Pat Ianni and Doug Taylor conducted a site investigation and resampling at the site. The site is owned by Mr. Alan Hunn and is located south of US Route 10 on the west bank of the St. Jones River, south of Dover (See Figure 3, Section 5).

2.2 CONTACTS

Alan Hunn (Site Owner)	Lebanon Road Dover, DE 19901 (302) 697-6108
William B. Mitten, III (Vice President Mitten Construction)	Lebanon Road Dover, DE 19901 (302) 697-2124
George Bender DE DNREC	Edward Tatnall Building P.O. Box 1401 Dover, DE 19901 (302) 736-5064

2.3 PERTINENT COMMENTS

Mr. Alan Hunn (owner) - Conversation on June 3, 1982

Wastes were accepted from General Foods, Dover Air Force Base, Playtex, Standard Brands, Kent County and some of New Castle County. The volume of wastes received are unknown and he no longer has any records. Of the 84 acres he has available, only 50 acres were actually filled. The head of the landfill (the area closest to his home) was filled to ten feet and tapers down to three

feet further into the site. The plan for the landfill was to dike the area from the river and then fill in the middle. The cover material for the landfill was excavated from the racetrack area. The pond by the racetrack was the source of the gravel and sand taken for cover. The pit has since filled with groundwater.

The vegetation which covers the landfill is all natural growth since closure in 1973.

2.4 FIELD OBSERVATIONS

- The weather on June 3, 1982 in Dover was warm (70's), sunny with light breezes and moderate humidity.

- The site is generally well covered at the head of the fill with more evidence of fill material further back. Tires are evident where they have worked their way back up through the fill.

- There is good natural vegetation covering the site. Junipers were noted growing on the fill. Reeds were abundant in the lower areas and throughout the marshes.

- The majority of the site is bordered by marshes.

- An orange-red leachate was noted in many areas where the marshes are adjacent to the landfill.

- The area near the pond on the west side of the fill was well vegetated with a thick undergrowth. Six rusted and crushed drums were found near the pond. One was open on its side and contained a plastic sheet with dry paint on it and a Jello recipe book.

- The pond appears to have been created by the blockage of natural drainage (see Figure 3) by the landfill. Except for the marshy area on the southeast corner where the orange-red leachate can be seen, the pond appeared healthy. Several turtles were observed swimming in the pond. (See Photos 1 through 5).

- Empty battery shell casings (gray Sears Die Hard) could be noted in several areas on-site. They did not contain the lead and acid components. (Off spec casings?)

- Many rolls of thin plastic sheeting with writing on it were noted. These appeared to be wrappings for boxes. One roll was wrapping for General Foods.

- In the southwest corner of the central marsh are nine rusty drums in ponded water. The drums are ring top with both top and side bungs. No markings were visible. Also in the water were long round lengths of a plastic or styrofoam waste (See Photos 7 through 11).

- The westside of the central marsh area had at least fourty visible drums. Twenty-eight of these were rusted and crushed. Some were partially full of what appeared to be latex waste. Twelve were mostly buried with only the edges showing. One marking which was visible read "Food Materials Corporation, Custom Flavor, Manufacturing Flavor Chemists Factory and Laboratory, Irving..." (See Photos 12 through 14).

- The area noted as the "drum area" on the sketch maps is located on the east side of the landfill. Thirty-five drums could be counted with an undetermined number covered with honeysuckle vines and partially buried. A pool of water was at the base of the pile. Tadpoles/minnows were noted swimming in the water. The ground under the water and surrounding the drums was covered with a hardened layer of latex. (See Photo 18).

- During sampling on the south side of the fill bordering the oxbow in the St. Jones River, the rushes on the bank were pulled up to get a soil/sediment sample. Plastic straws and other municipal trash were caught in the roots of the reeds.

- Air monitoring data on-site indicates only methane gases. Readings indicated levels as high as 90 ppm of methane on the fill area.

- Rabbits were seen on-site and bobwhites were heard.

2.5 SAMPLE LOG

All samples were taken on June 3, 1982 (See Figures 1 and 2 for sample locations).

SAMPLES

1. Water sample from the site owner's (Mr. Hunn) shallow well (44' depth) at the truck garage (work shed). Time: 0930
   Organic TR # C1139 Tag #3-4745-7
   Inorganic TR# MC8932 Tag #3-4748

2. Water sample taken from the north edge of the small pond just south of the racetrack and north of the St. Jones River. Time: 0950
   Organic TR # C1140 Tag #3-4749, 4750, 4754
   Inorganic TR # MC8933 Tag #3-5339

3. Water sample taken from the loop of the St. Jones River just downstream of the landfill and north of the racetrack. Time: 1000
   Organic TR # C1141 Tag #3-5340, 5345, 5352
   Inorganic TR # MC8934 Tag #3-5353

4. Leachate sample taken from the west pond in the bog area adjacent to the solid ground of the landfill. Time: 1000
   Organic TR # C1348 Tag #3-5362-4
   Inorganic TR # MC8937 Tag #3-5365

5. Water sample taken from Mitten Construction Co. well (approximately 60' depth) west of the landfill. Time: 1030
   Organic TR # C1142 Tag #3-5354-5356
   Inorganic TR # MC8935 Tag #3-5357

6. Leachate sample taken from the southwest corner of the central swamp adjacent to the solid ground of the landfill. Time: 1040
   Organic TR # C1347 Tag #3-5358-60
   Inorganic TR # MC8936 Tag # 3-5361

7. Soil/sediment sample taken from the southwest corner of the central swamp at the landfill bank. Time: 1040
   Organic TR # C1349 Tag #3-5366
   Inorganic TR # MC8938 Tag #3-5367

8. Water sample taken from the St. Jones River upstream of the landfill at the junction of the river and Rt. 10 (on the northwest side of Rt. 10 and on the south bank of the river). Time: 1230
   Organic TR # C1352 Tag #3-5763-5765
   Inorganic TR # MC 8940 Tag #5766

9. Aqueous sample taken from standing water in a drum disposal area in the center of the landfill. Time: 1240
   Organic TR # C1364 Tag #3-5767-9
   Inorganic TR # MC8942 Tag #3-5770

10. Water sample taken from the site owner's (Mr. Hunn) deep well (approximately 180' depth) in his home. Time: 1340
    Organic TR # C1365 Tag #3-5771-5773
    Inorganic TR # MC8943 Tag #3-5774

11. Leachate sample taken from the swampy area on the south edge of the landfill adjacent to St. Jones River. Time: 1340
    Organic TR # C1386 Tag #3-5781-3
    Inorganic TR # MC8946 Tag #305784

12. Soil/sediment sample taken from the edge of the swampy area on the south edge of the landfill adjacent to St. Jones River. Time: 1340
    Organic TR # C1366 Tag #3-5775
    Inorganic TR # MC8944 Tag #3-5776

13. Water sample from St. Jones River downstream from the site near the footbridge at Lebanon Road. Time: 1415
    Organic TR # C1367 Tag #3-5781-3
    Inorganic TR #MC8945 Tag #3-5780

SAMPLE BLANKS

Aqueous Blanks
Organic TR # C1350 Tag #3-5368-9, 3-5371
Inorganic TR # MC8939 Tag #3-5372

Sediment Blanks
Organic TR # C1351 Tag #3-5761
Inorganic TR #MC8941 Tag #3-5762

LABORATORIES

low concentration organic aqueous:
ERCO
185 Alewife Brook Parkway
Cambridge, MA 02183

low concentration organic solid:
Meade Technology Laboratory
5 Triangle Drive
Research Triangle Park, NC 27709

low concentration inorganic aqueous and solid:
University of Washington
College of Fisheries
108 Fisheries; WH-10
Seattle, WA 98195

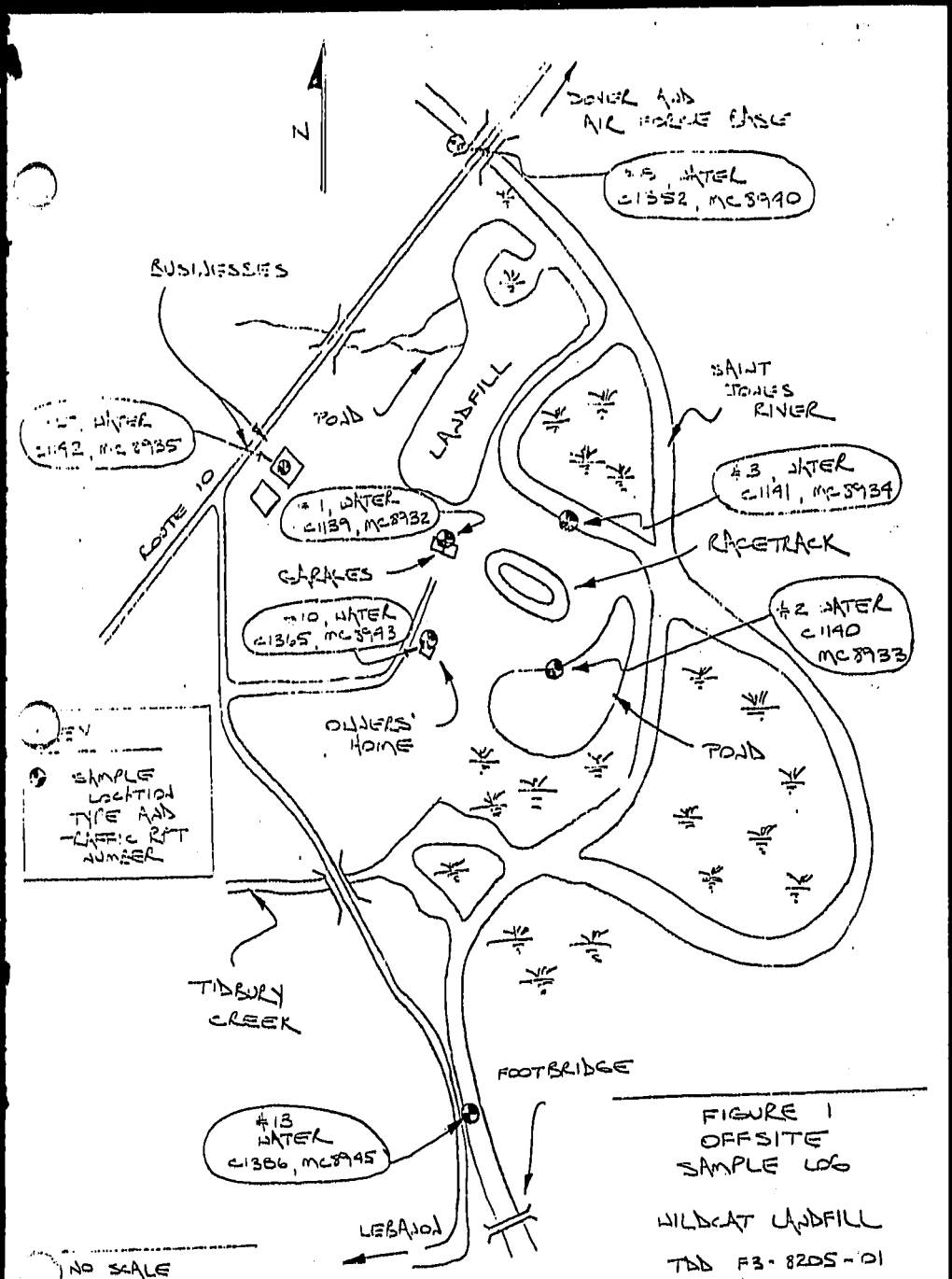

FIGURE 1
OFFSITE
SAMPLE LOC

WILDCAT LANDFILL

TDD F3-8205-01
EPA # DE-11

AR100017

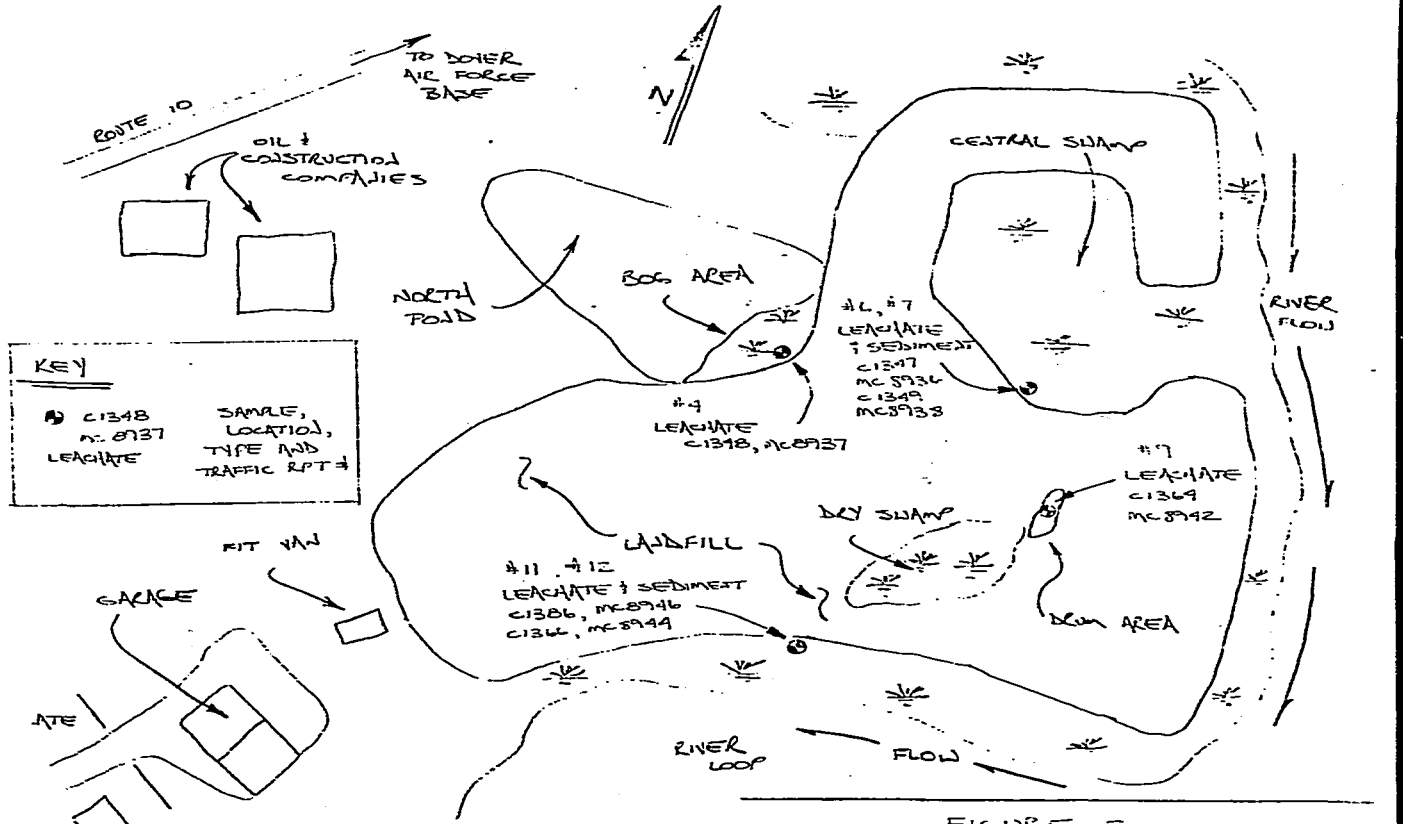

FIGURE 2

ON-SITE SAMPLE MAP

DOVER AIR FORCE BASE

NPL F3-A205-01

EPA # DE-11

AR100018

SECTION 3

SAMPLE DATA SUMMARY

Site Name: Wildcat Landfill
TDD No.: F3-8202-01
EPA No.: DE-11
Date of Sample: 3 June 1982

☒ ORGANIC
☐ INORGANIC
} COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendixes)

Sample I.D. No. Type and Location	Diethylphthalate	Phenol	Benzene	Ethyl-benzene	Toluene	PCB-1248	Naphthalene	Bis(2-ethylhexyl) Phthalate	Comments
Aqueous Equip. Blank C1350	ND							V	8 blank
Sediment Equip. Blank C1351	ND	-	-					V	9 blank
C 11339 (ug) / shallow well	ND							V	-
C 11340 (aq) / racetrack pond	ND							V	2
C 1341 (aq) / loop in river	40	ND						V	3
C 13178 (aq) / west leachate	ND	10	28	150	70	5.0	ND	ND	4
C 11342 (aq) / Mitten well	ND							V	5
C 13477 (aq) / north leachate	ND	ND	25	170	ND	5.4	10	ND	6
C 13479 (sed) / north leachate	ND							.1200	7
C 1352 (aq) / upstream river	ND							V	8
C 13641 (aq) / drum pond	ND				V	1.9	ND	ND	9
C 13365 (aq) / deep well	ND							V	10
C 13786 (aq) / south leachate	ND				V	3.1	ND	ND	11
C 13366 (sed) / south leachate	1200	-					V	420	12
C 1367 (aq) / downstream river	ND							V	13

AR100020

SAMPLE DATA SUMMARY

Site Name: Wildcat Landfill
TDD No.: F3-8205-01
EPA No.: DE-11
Date of Sample: 3 June 1982

[X] ORGANIC
[ ] INORGANIC
} COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendixes)

Sample I.D. No. Type and Location	Fluoranthene	Pyrene	Fluorene	Benzo(a) anthracene or Chrysene	Anthracene or Phenanthrene	Diethyl phthalate	Pentachlorophenol	Isophorone or Acetophenone	Comments
Aqueous Sample Blank C1350	ND	—	—	—	→	870	ND	ND	BLANK
Sediment Sample Blank C1351	ND	—	—	—	→	200	210	170	BLANK
C1139(aq)/ shallow well	ND								1
C1140(aq)/ racetrack pond	ND								2
C1141(aq)/ loop in river	ND								3
C1348(aq)/ west leachate	ND								4
C1142(aq)/ Milton well	ND								5
C1347(aq)/ north leachate	ND								6
C1349(sed)/ north leachate	ND	—	—	—	—	—	—		7
C1352(aq)/ upstream river	ND								8
C1364(aq)/ drum pond	ND								9
C1365(aq)/ deep well	ND								10
C1386(aq)/ south leachate	ND								11
C1366(sed)/ south leachate	1200	1260	320	460	2000				12
C1367(aq)/ downstream river	ND								13

Sheet of

AR100021

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

SAMPLE DATA SUMMARY

Tentatively identified compounds were found in the following samples: C1139 - Hunn's shallow well: 2-methyl-benzoyl chloride and 2 (3H)-benzothiazolone; C1348 - west leachate: freon; C1347 - north leachate: 1,2-benzenedicarboxylic acid, diisooctyl ester; C1349 - north leachate: 1,2-benzenedicarboxylic acid, diisooctyl ester; and C1366 south leachate sediment: 1,2-benzenedicarboxyl acid, diisooctyl ester. The compounds of concern are further discussed in Section 4.

SAMPLE DATA SUMMARY

Site Name: Wildcat Landfill
TDD No.: 13-8205-01
EPA No.: VE-11
Date of Sample: 8 June 1982

( ) ORGANIC
(X) INORGANIC
} COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendixes)

Sample I.D. No. Type and Location	Element/Compound Name: Aluminum	Chromium	Barium	Beryllium	Cadmium	Cobalt	Copper	Iron	Comments
MC 8934 Sample Blank (liter)	33.7	BDL	BDL	BDL	1.1	BDL	30.3	52.9	
Sample Blank MC 8947 (8 oz.)	BDL	---	---	---	---	---	---	---	
MC 8932/aq/ gradient well	17.6	BDL	2120	BDL	1.3	37.0	121	1710	
MC 8933/aq/ pond	100	BDL	26.8	BDL	1.5	BDL	32.4	143	
MC 8934/aq/ leak in MW#1	50.5	BDL	52.9	BDL	2.3	2.7	47.0	1970	
MC 8937/aq/ west leachate	2030	30.3	636	35.0	16	42.3	36.8	201000	
MC 8935/aq/ Mihen well	32.0	BDL	381	BDL	BDL	BDL	73.2	91.3	
MC 8936/aq/ north leachate	641	24.0	459	21.5	24	26.6	30.4	125000	
MC 8938/sed/ north leachate	111000	[790]	46600	[770]	4300	1510	5770	4670000	
MC 8940/aq/ upstream river	515	BDL	57.2	BDL	BDL	BDL	32.9	2010	
MC 8942/aq/ drum pond	114	BDL	77.6	[1.2]	[.5]	BDL	36.5	8888	
MC 8943/aq/ deep well	64.9	BDL	BDL	BDL	BDL	BDL	15.6	712	
MC 8946/aq/ south leachate	3100	22.9	414	19.3	14	21.3	55.7	112000	
MC 8944/sed/ south leachate	110000	BDL	6780	230	4300	BDL	[1590]	1340000	
MC 8945/aq/ down stream river	558	BDL	572	BDL	12.0	BDL	14.6	2560	

SAMPLE DATA SUMMARY

Site Name: Wildcat Landfill
TDD No.: 73-8407-01
EPA No.: 3e-11
Date of Sample: 3 June 1982

[ ] ORGANIC
[X] INORGANIC
} COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendices)

Sample I.D. No. Type and Location	Element/Compound Name: Lead	Nickel	Manganese	Zinc	Boron	Vanadium	Calcium	Magnesium	Comments
MC 8939 Equip. Blank (1 liter)	BDL	BDL	BDL	BDL	339	BDL	150	15	
MC 8949 Equip. Blank (8 oz.)	BDL	----	----	----	525	BDL	19	9	
MC 8932/aq/ shallow well	[0.8]	71.5	69.4	764	1670	[6.8]	3030	38500	[ ] - less than detection limit
MC 8933/sed/ pond	BDL	[9.7]	55.5	26.8	650	BDL	8710	5220	
MC 8934/aq/ leachate in river	9.2	[13.2]	288	243	683	14.9	22800	24700	
MC 8937/aq/ west leachate	147	99.8	1520	4250	1310	58.2	62600	29700	
MC 8935/aq/ Mitten well	2.7	[7.7]	64.2	45.6	44.3	BDL	4810	5330	
MC 8936/aq/ north leachate	120	87.6	760	929	1370	45.7	116000	45200	
MC 8938/sed/ north leachate	36900	2570	22800	43800	87100	1790	2010000	188000	
MC 8940/aq/ upstream river	9.2	[12.5]	217	50.3	827	13.6	17300	21300	
MC 8942/aq/ drum pond	4.6	[16.0]	117	83.4	1460	BDL	2700	4940	
MC 8943/aq/ deep well	BDL	[5.5]	41.5	108	625	BDL	31000	4860	
MC 8946/aq/ south leachate	225	50.3	1260	743	1211	30.9	57800	36400	
MC 8944/sed/ south leachate	94900	[1130]	25500	24000	64000	14900	633000	243000	
MC 8945/aq/ downstream river	14.1	[13.5]	260	722	183	17.9	31,000	20,100	

SAMPLE DATA SUMMARY

Site Name: Wildcat Landfill
TDD No.: 13-2205-01
EPA No.: 5E-11
Date of Sample: 3 June 1922

☐ ORGANIC
☒ INORGANIC
} COMPOUNDS IDENTIFIED IN SAMPLE RESULTS

Concentrations in: ppb = ug/l - L (aqueous); ppb = ug/kg - S (solid)

(For tentatively identified compounds see Analytical Data Sheets in the appendixes)

Sample I.D. No. Types and Location	Element/Compound Name: Sodium	Arsenic	Antimony	Selenium	Thallium	Mercury	Tin	Silver	Comments
MC 8939 Sample Plant (1 liter)	659	BDL	BDL	BDL	BDL	BDL	BDL	BDL	L
MC 8947 Sample Plant (8 oz)	1200	BDL							L
MC 8932/aq/ shallow well	191000	BDL							L
MC 8933/aq/ pond	13400	BDL							L
MC 8934/aq/ loop in river	133000	BDL							L
MC 8937/aq/ west leachate	83100	BDL							L
MC 8935/aq/ Mitten well	4200	BDL							L
MC 8936/aq/ north leachate	124000	25	BDL						L
MC 8938/sed/ north leachate	507000	BDL			155	BDL	BDL		S
MC 8940/aq/ upstream river	125000	BDL							L
MC 8942/aq/ drum pond	37900	BDL							L
MC 8943/aq/ deer well	12300	BDL							L
MC 8946/aq/ south leachate	126000	BDL			1.5	BDL	BDL		L
MC 8944/sed/ south leachate	288000	BDL			185	BDL	BDL		S
MC 8945/aq/ down stream river	103000	BDL							L

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SECTION 4

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ECOLOGY AND ENVIRONMENT, INC.
TOXICOLOGICAL ASSESSMENT
SITE: Wildcat Landfill
TDD NO.: F3-8205-01
EPA NO.: DE-11
DATE: August 9, 1982

Based on review of Background Information, Site Observations and Laboratory Analytical Data, the following conclusions are indicated:

☐ There is no indication of an imminent or severe adverse toxicological impact to public health or the environment.

☐ There are possible indication(s) of potential adverse toxicological and/or environmental impact. A more compreshensive Site Investigation and Sampling Program is recommended.

☒ A review of the information presented herein is sufficient to indicate a potential adverse impact on human health and/or the environment. The Toxicological Impact Assessment is as follows:

Comments:

Analyses of aqueous leachate samples taken on site indicate contamination by a number of priority pollutants of toxicological concern (See Sample Data Summary), including compounds representing several classes of potential carcinogens. These include the human carcinogen, benzene (up to 28 ug/l), PCB-1248 (up to 6.0 ug/l), and the potentially carcinogenic plasticizer di-ethylhexyl phthalate (up to 3,700 ug/l). In addition, the toxic alkylating agent benzoyl chloride which has been implicated as a possible carcinogen was detected in the shallow (40' depth) well sample, and low levels (320 to 2,000 ug/l) of polycyclic aromatic hydrocarbons, some carcinogenic, were detected in a leachate sediment sample.

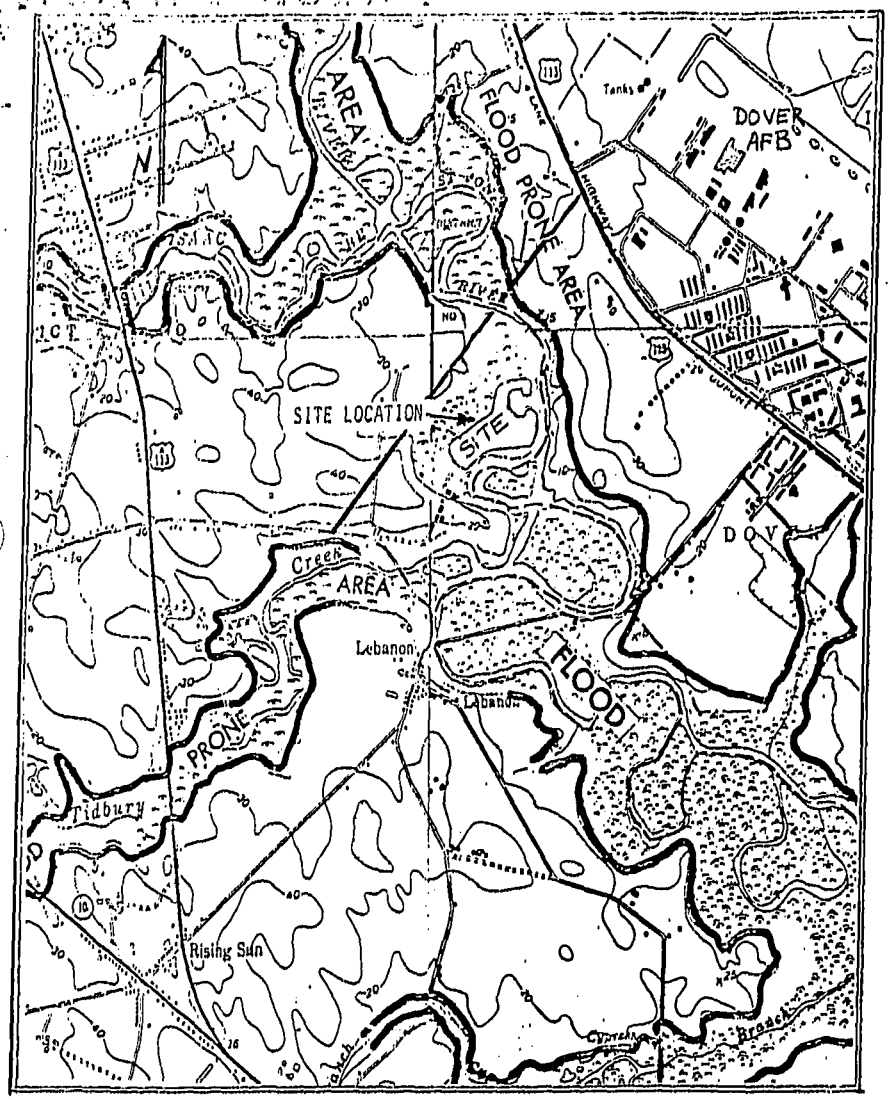
Among the inorganic compounds detected in the surface water (leachate) samples, the potentially carcinogenic metals beryllium and arsenic were detected at levels up to 35 ug/l and 25 ug/l, respectively. Other inorganic compounds of significance detected in aqueous leachate samples include the highly toxic metals, lead (up to 225 ug/l), cadmium (up to 24 ug/l), and mercury (up to 1.5 ug/l). Also of considerable concern are the high levels of these metals identified in leachate sediment samples. Cadmium, for example, was detected in the north leachate sediment at a concentration of 4,300 ug/kg. This highly nephro toxic (kidney damage) metal which biocumulates is normally found in unpolluted soils at levels ranging between 60 and 500 ug/kg. Mercury was identified in two sediment samples at levels of 155 and 185 ug/kg. This metal, which in its methyl form can bioaccumulate to an enormous extent in fish, causes injury to kidneys, liver, brain, and heart in humans. Elevated levels of boron and iron were also noted (See Sample Data Summary).

That priority pollutants of concern are migrating off site is evidenced by the identification of cadmium at 12 ug/l in a downstream sample of St. Jones River. An upstream sample showed no cadmium within limits of detection. The Ambient Water Quality Criterion for this metal is 10 ug/l. Analyses of the on-site shallow well (no longer used as a potable supply) indicated several Tentatively Identified Compounds suggesting probable contamination of the underlying aquifer. Installation and sampling of monitoring wells could provide information regarding the extent and severity of contamination.

Kenneth G. Symms, Ph.D., Toxicologist

SECTION 5

SITE NAME: Wildcat Landfill
TDD NO.: F2-2205-01
EPA NO.: DE-11
TITLE: Topographic Map
FIGURE NO. 3



SOURCE: USGS Topographic Quads: Dover, Little Creek
Wyoming, Frederica

SCALE: 1" = 2000'

AR100029

SECTION 6.

(cont)

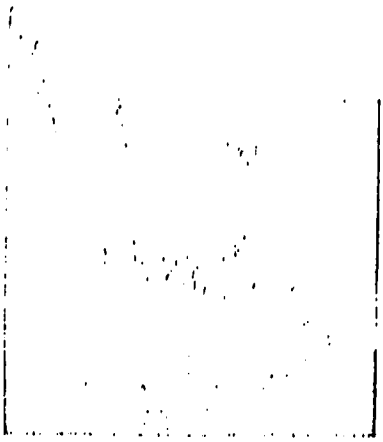
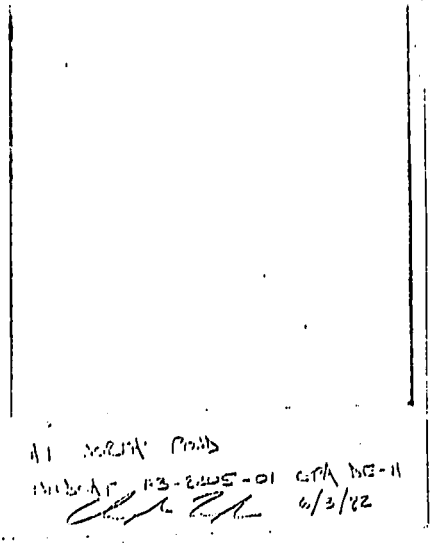


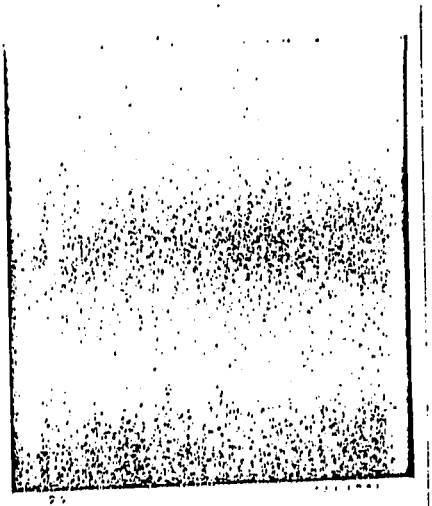
Photo 1 - Pond located on the west side of the site near the oil and construction complex. Taken from the N. E. corner of the pond at the Incinerator/Log Area.

Photo 2 - Same pond, showing area to the north of photo #1 taken from same location as photo #1.

2



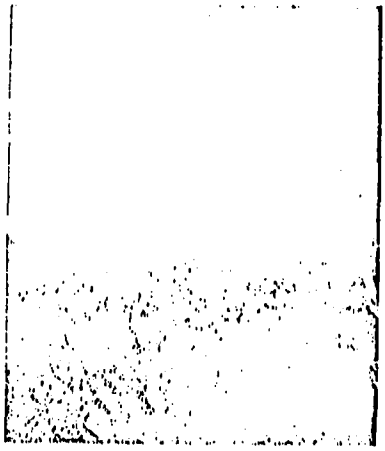
#2 NORTH POND
WILDCAT FB-8205-01 EPA DE-11
6/3/82



#1 NORTH POND
WILDCAT FB-8205-01 EPA DE-11
6/3/82

(Red)

Photo 3 - Northwest end of the pond, the bog area showing reddish leachate. Taken from same location as photos #1 &2.



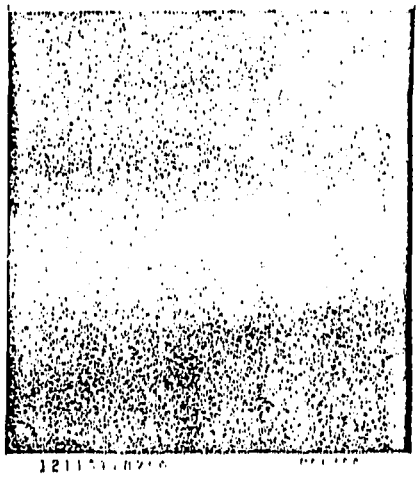
3

4

Photo 4 - The bog at the north end of the pond from another viewpoint. Photo taken from eastern bank of pond.

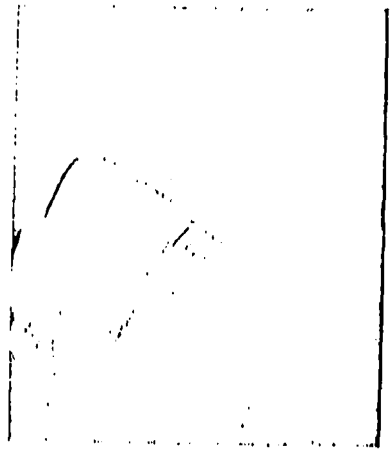
ORIGINAL
(Red)

#3 SUMP 12 NORTH POND
WILDCAT FB-8205-01 EPA DE-11
4/3/82

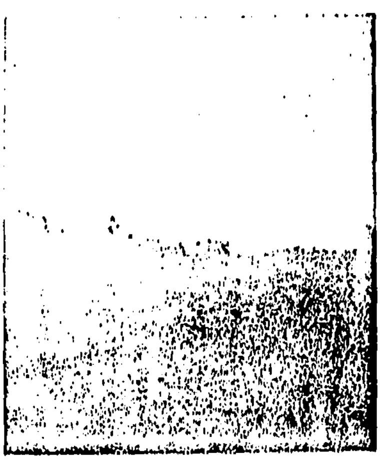


#4 SUMP 12 NORTH POND
WILDCAT FB-8205-01 EPA DE-11
4/3/82

Photo 5 - FITM Beth Cross, taking leachate sample at the bog in the N.E. corner of the pond. Taken from eastern bank of the pond.



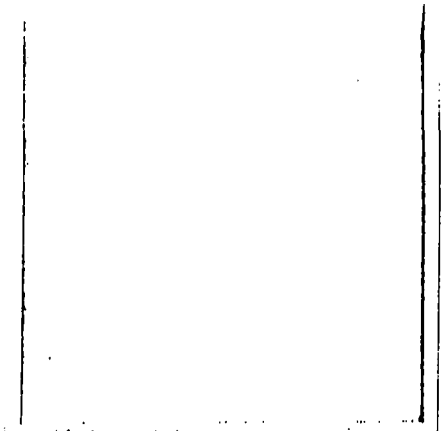
#5



#6

Photo 6 - FIT van and owner's garages and main access road; looking west. Photo taken from main access route at a location which is the same distance from the van as the pond sampling point.

AR100035



WILDCAT #6 BUILDING FROM FILL
FB-320E-01 EPA DE-11
4/3/22

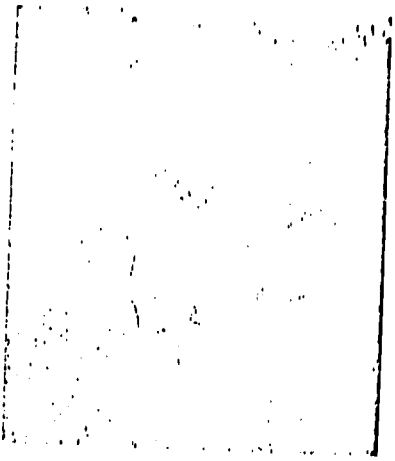
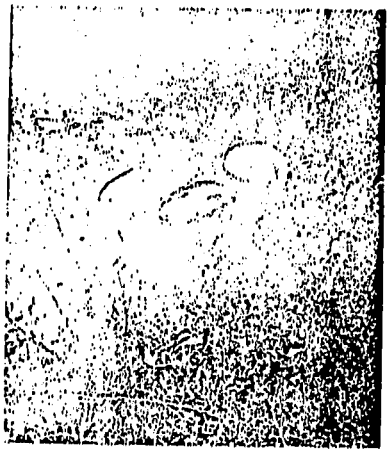


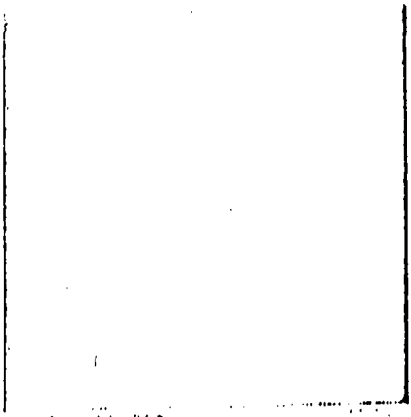
Photo 7 - Drums and other waste in an area near the southwest corner of the swamp in the center of the site. Photo taken from south bank of the swamp.

#7

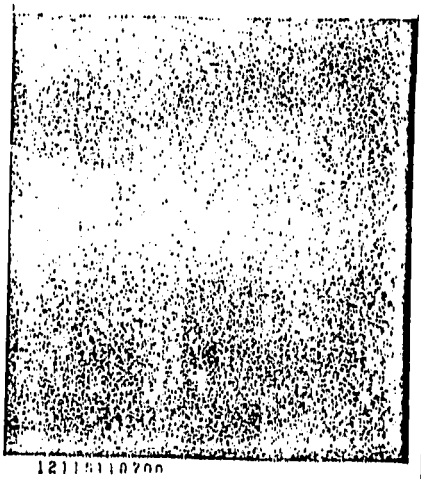


#8

Photo 8 - Drums and other waste in the S.W. corner of the central swamp. Photo shows area south of the area shown in photo #7. Taken from the same location as photo #7.

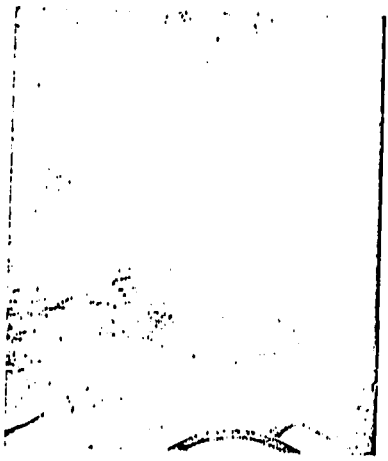


#7 LEACHATE, SW CORNER OF SWAMP
WILDCAT FB-8205-01 EPA DE-11
6/3/82



#8 LEACHATE SW CORNER OF SWAMP
WILDCAT FB-8205-01 EPA DE-11
6/3/82

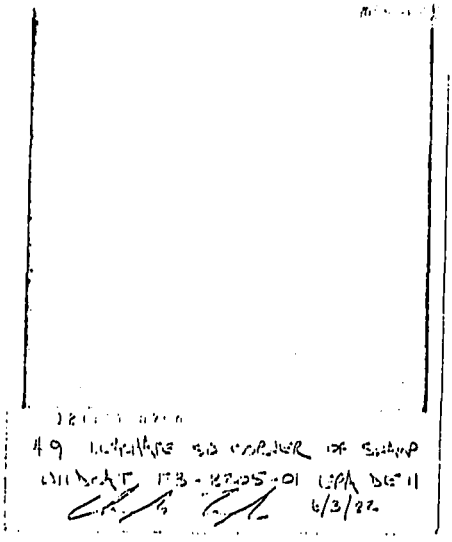
Photo 9 - S.W. corner of the [illegible], the area south of what is shown in photo #10. Taken from approximately the same location as photos #7 & 8.



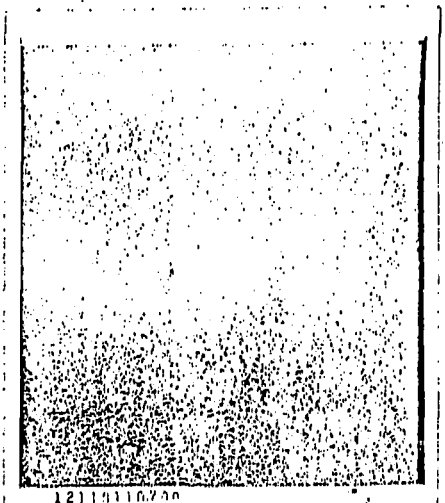
#9

#10

Photo 10 - FITM, Beth Gross, taking water sample; the same location as shown in photo #8. Taken from the same location as photo #8.

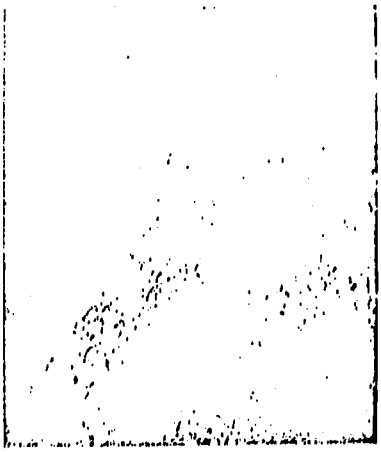


#9 LEACHATE SEEP NORTH OF SWAMP
WILDCAT F3-8205-01 EPA DE-11
6/3/82



#10 EAST LEACHATE SAMPLE
WILDCAT F3-8205-01 EPA DE-11
6/3/82

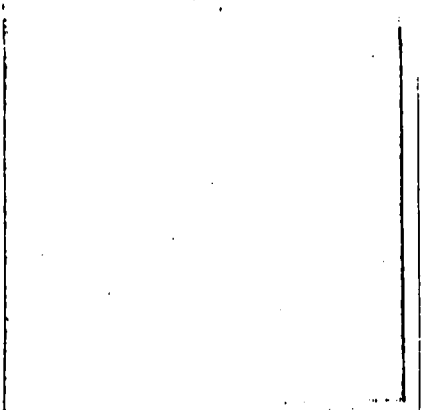
Photo 11 - "Styrofoam" material in S.W. corner of central swamp (shown from a distance in photo #9). Taken from south bank of swamp.



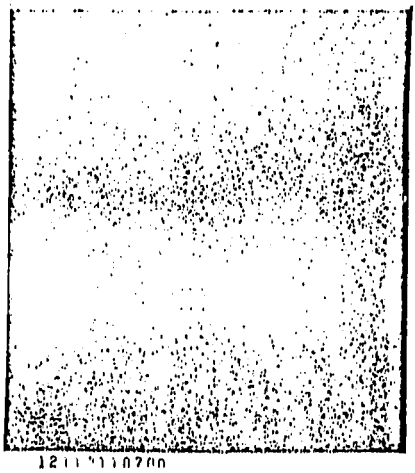
#11

#12

Photo 12 - Drums and other wastes dumped at the west edge of the central swamp. The photo was taken from the center of the drum area on the west bank.

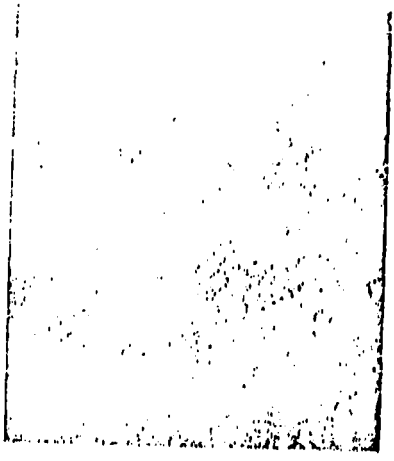


#11 TURBIDITY WATER, SILL SWAMP
WILDCAT 53-8205-01 EPA DE-11
4/3/82



#12 DRUMS & PLASTIC WEST END OF SWAMP
WILDCAT 53-8205-01 EPA DE-11
4/3/82

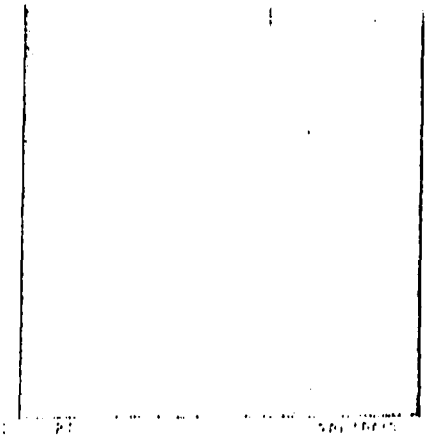
Photo 13 - "Latex" dump on west bank of central swamp. Photo shows area south of that shown in photo #12. Taken from same location as photo #12.



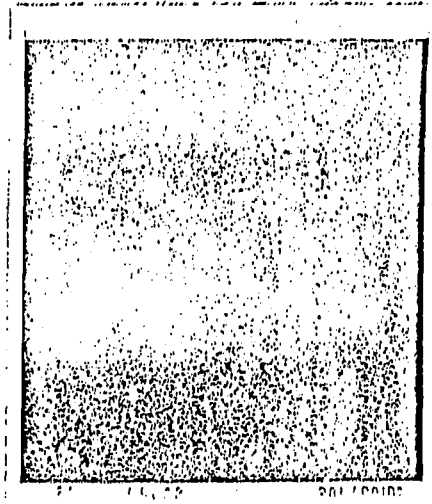
#13

#14

Photo 14 - Drum dump area south of that shown in photos #12 & 13. Taken from the same location as photos #12 & 13.

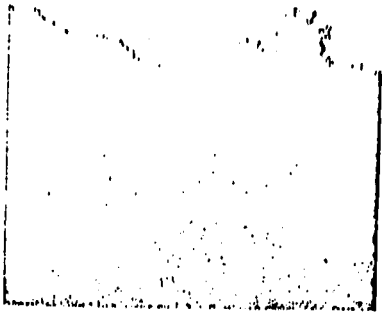


#13 DRUMS & PLASTIC WEST END OF SUMP
WILDCAT F3-8205-01 EPA DE-11
6/3/82

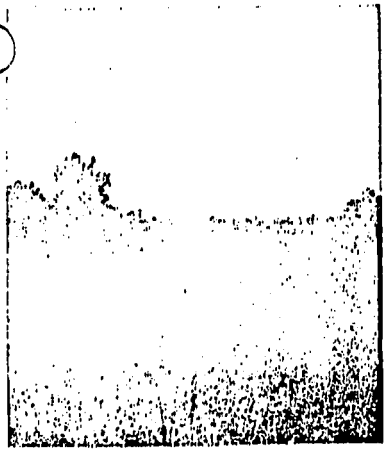


#14 DRUMS & PLASTIC WEST END OF SUMP
WILDCAT F3-8205-01 EPA DE-11
6/3/82

Photo 15 - Northern extension of the landfill, the section directly attached to the main fill (looking north at the extension). Taken from the main fill area about 50 yds. away from the southwest corner of the central swamp.

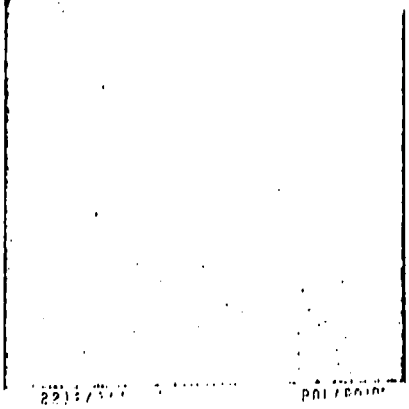


#15

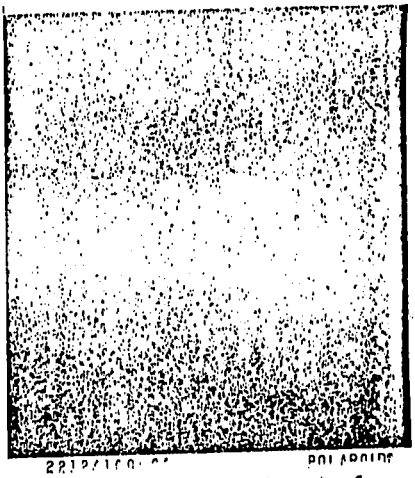


#16

Photo 16 - Central swamp with mobile homes (across the river) in the background. Taken from the same location as photo #15.

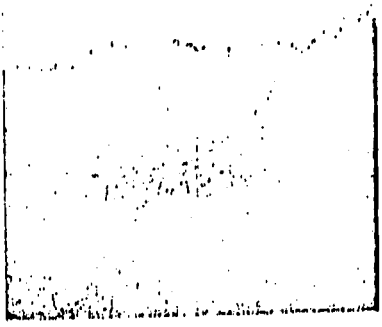


#15 VIEW OF FILL & SWAMP
WILDCAT F3-8205-01 EPA DE-11
6/3/82



#16 VIEW OF FILL & SWAMP
WILDCAT F3-8205-01 EPA DE-11
6/3/82

Photo 17 - Main fill area and the central swamp looking to the east. The area of the central swamp sample (photos #7-11) is behind FITM, Beth Gross. Taken from the same location as photos #15 & 16.



#17

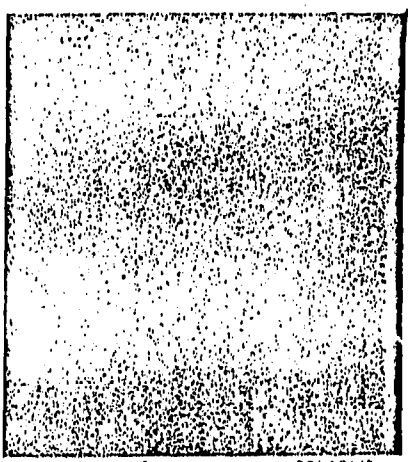
#18

Photo 18 - Waste drums, ponded water and dumped "latex" at the drum dump in the central area of the main fill area. Taken from the ridge above the drums west of drums.

#17 VIEW OF FILL & SWAMP

WILDCAT F3-8205-01 EPA-DE11

[illegible] 6/3/82



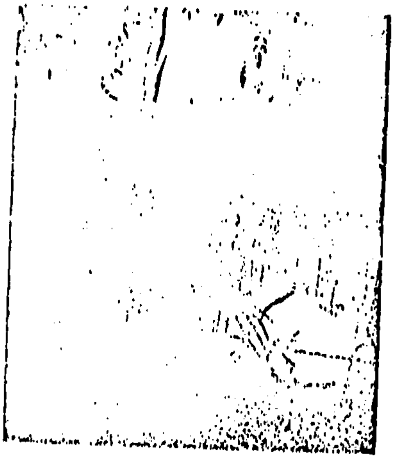
#18 CENTRAL DRUM PILE SAMPLE

WILDCAT: F3-8205-01 EPA DE-11

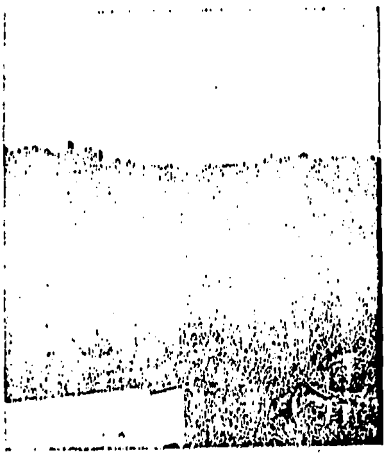
[illegible] 6/3/82

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

Photo 19 - Sampling location at south edge of main fill area, looking out towards the river loop. Sampling done at bog between fill and river. Taken from south bank of fill.



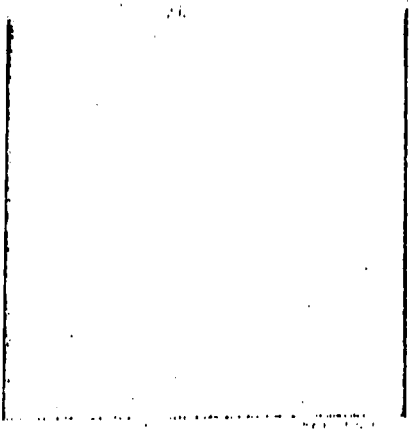
#19



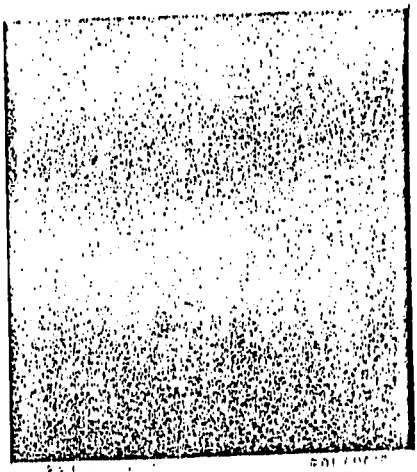
#20

Photo 20 - Main access area of fill, looking east at landfill. Taken from FIT van near garage.

AR100049

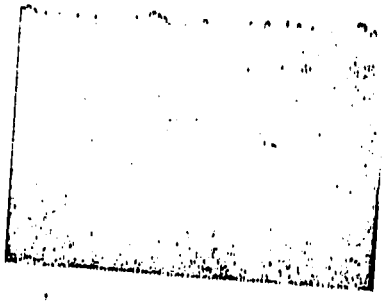


#19 SOUTH WEDGWRTE SAMPLE
WILDCAT FB-8205-01 EPA RE-11
6/3/82

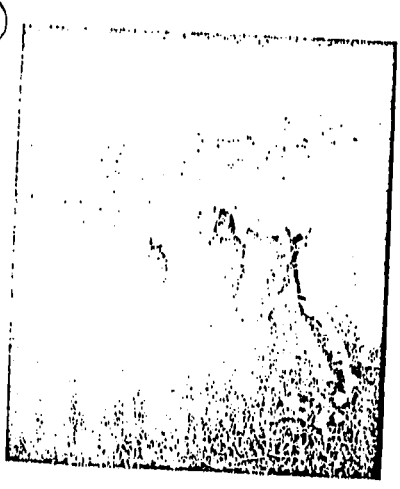


#20 VIEW OF FILL FROM NW
WILDCAT, FB-8205-01 EPA RE-11
6/3/82

Photo 21 - South edge of landfill, bog and river loop looking southeast. Taken from FIT van near garage.

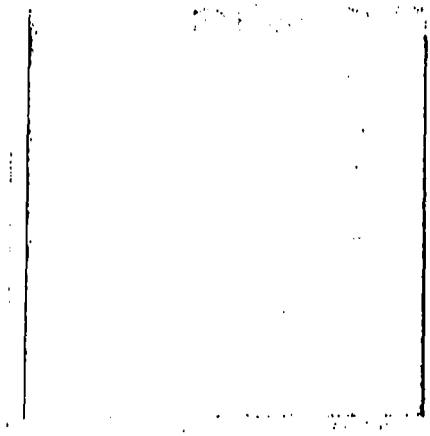


#21



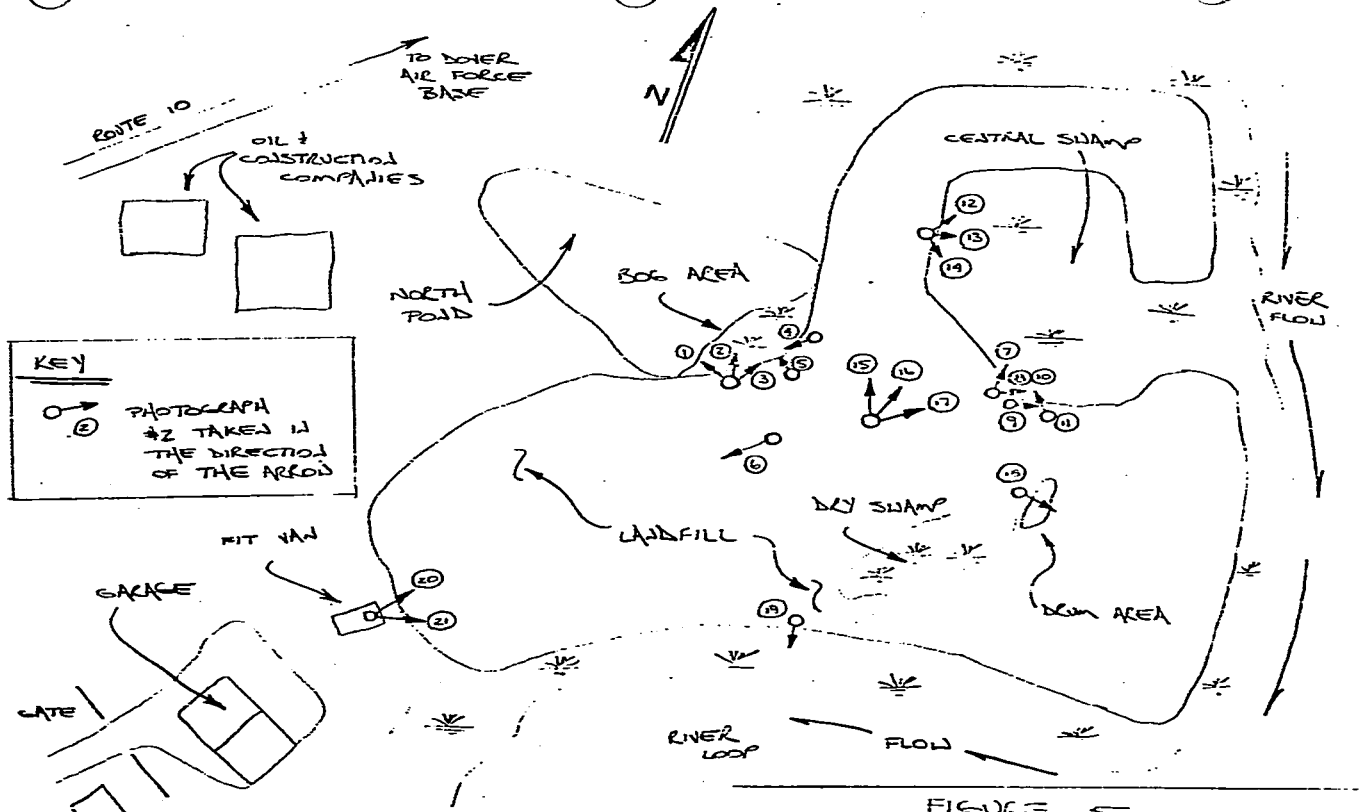
#22

Photo 22 - FITM, Doug Taylor, taking water sample at "downstream" location of Saint Jones River along road north of Lebanon (north of foot bridge). Taken from road.



#21 VIEW OF FILL FROM MAIN
WILDCAT, FB-8205-01, EPA DE-11
Pat Sanni 6/3/82

#22 DOWNSTREAM (MAIN CHANNEL) SAMPLE
WILDCAT FB-8205-01 EPA DE-11
Pat Sanni 6/7/82

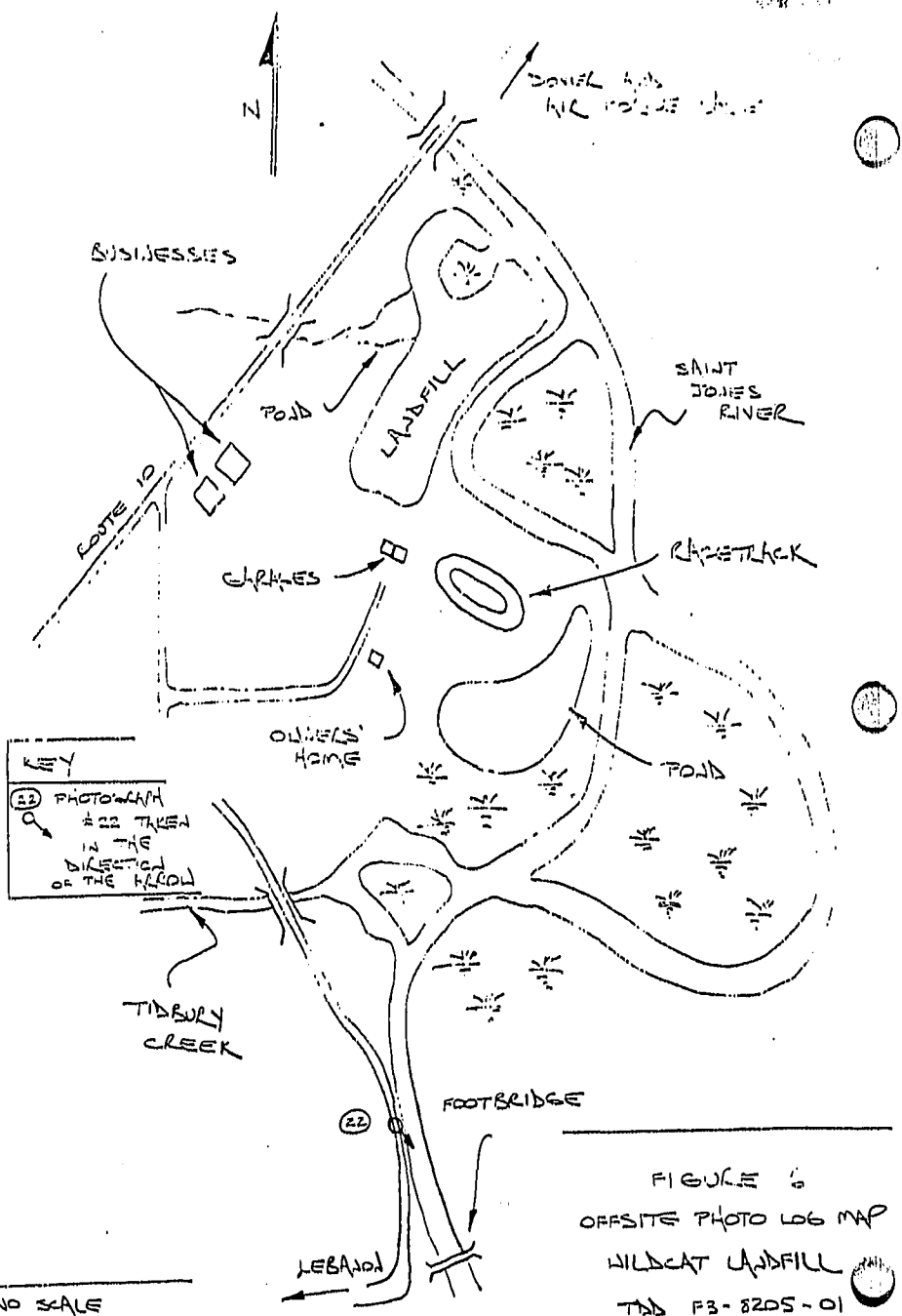


NO SCALE

PREPARED: 6/9/82
DOUG TAYLOR
BETH CROSS

FIGURE 5
PHOTOGRAPHIC LOG OF
WILCUTT LANDFILL
TMS FS - ACOS - 01
ERA # DE - 11

AR100053



NO SCALE

PREPARED 6/4/82
DOUG TAYLOR
BETH GROSS

FIGURE 6
OFFSITE PHOTO LOG MAP
WILDCAT LANDFILL
TDD F3-8205-01
EPA-4 DE-11

AR100054

SECTION 7

APPENDIX 1

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO. | PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS						REMARKS

Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)

Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)

Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time | Remarks

Distribution: Original Accompanies Shipment; Copy to Coordinator f[illegible] Files

AR100057

ORGANICS TRAFFIC REPORT

ORIGINAL (Red)

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)

__ Low Concentration
__ Medium Concentration

(3) SAMPLE MATRIX (Check One)

X Water
__ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	40 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Federal Express
Name of Carrier

Date Shipped:

132 362 570
Airbill Number:

(8) Sample Description

__ Surface Water
__ Mixed Media
X Ground Water
__ Solids
__ Leachate
__ Other (specify)

(9) Sample Location

Hunters Point

(10) Special Handling Instructions (e.g., safety precautions, hazardous nature)

24 hr TAT

REGIONAL OFFICE FILE COPY

AR100058

ORGANICS TRAFFIC REPORT

ORIGINAL (Red)

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)

___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)

_X_ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	80 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Federal Express
Name of Carrier

Date Shipped:

[illegible]
Airbill Number:

(8) Sample Description

_X_ Surface Water ___ Mixed Media
___ Ground Water ___ Solids
___ Leachate ___ Other (specify)

(9) Sample Location

(10) Special Handling Instructions: (e.g., safety precautions, hazardous nature)

REGIONAL OFFICE FILE COPY

AR100059

ORGANIC ANALYSIS REPORT

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

____ Low Concentration
____ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

____ Water
____ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To: **ORIGINAL (Red)**

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 ml
Water (VOA)	2	40 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Name of Carrier

Date Shipped:

132362570

Airbill Number:

(8) Sample Description

X Surface Water ____ Mixed Media
____ Ground Water ____ Solids
____ Leachate ____ Other (specify)

(9) Sample Location

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TAT

REGIONAL OFFICE FILE COPY

AR100060

ORGANICS TRAFFIC REPORT

C 01142

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

X Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

X Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To: **ORIGINAL (Red)**

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	80 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Federal Express
Name of Carrier

Date Shipped:

1123625770
Airbill Number:

(8) Sample Description

___ Surface Water ___ Mixed Media
X Ground Water ___ Solids
___ Leachate ___ Other (specify)

(9) Sample Location

Milton Well

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

REGIONAL OFFICE FILE COPY

AR100061

ORGANICS TRAFFIC REPORT

C 1347

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

___ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To: **ORIGINAL (Red)**

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 ml
Water (VOA)	2	1 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Name of Carrier

Date Shipped: 13 Jan 90

Airbill Number:

(8) Sample Description

___ Surface Water ___ Mixed Media
___ Ground Water ___ Solids
X Leachate ___ Other (specify)

(9) Sample Location

With Leachate

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

REGIONAL OFFICE FILE COPY

ORGANICS TRAFFIC REPORT

C 1348

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

____ Low Concentration
____ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

____ Water
____ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To: ORIGINAL (Red)

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	7	1 gal
Water (VOA)	2	40 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Fed Ex

Name of Carrier

Date Shipped:

1223625570

Airbill Number:

(8) Sample Description

____ Surface Water ____ Mixed Media
____ Ground Water ____ Solids
X Leachate ____ Other (specify)

(9) Sample Location

West Leachate

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

REGIONAL OFFICE FILE COPY

AR100063

ORGANICS TRACE REPORT

1350

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

X Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

X Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To: ORIGINAL (Red)

(5) Regional Office: 2

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	80 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Federal Express
Name of Carrier

Date Shipped:

832362570
Airbill Number:

(8) Sample Description

___ Surface Water ___ Mixed Media
___ Ground Water ___ Solids
___ Leachate X Other (specify) Blank

(9) Sample Location

Ayers Blank

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

REGIONAL OFFICE FILE COPY

AR100064

ORGANICS TRAFFIC REPORT

C 1352

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)

X Low Concentration
..... Medium Concentration

(3) SAMPLE MATRIX (Check One)

X Water
..... Soil/Sediment

(4) Ship To:

Attn:

Transfer ORIGINAL
Ship To: (Red)

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	40 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Name of Carrier

Date Shipped:

632362570

Airbill Number:

(8) Sample Description

X Surface Water ___ Mixed Media
___ Ground Water ___ Solids
___ Leachate ___ Other (specify)

(9) Sample Location

US St Joans

(10) Special Handling Instructions: (e.g., safety precautions, hazardous nature)

2 W Day TA

REGIONAL OFFICE FILE COPY

AR100065

ORGANICS TRAFFIC REPORT

1 C

① Case Number:

Sample Site Name/Code:

② SAMPLE CONCENTRATION
(Check One)

____ Low Concentration
____ Medium Concentration

③ SAMPLE MATRIX
(Check One)

X Water
____ Soil/Sediment

④ Ship To:

Attn:

Transfer Ship To: **ORIGINAL (Red)**

⑤ Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	80 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

⑦ Shipping Information

Name of Carrier

Date Shipped:

137362570

Airbill Number:

⑧ Sample Description

X Surface Water ____ Mixed Media
____ Ground Water ____ Solids
____ Leachate ____ Other (specify)

⑨ Sample Location

drum pond

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

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ORGANICS TRACKING REPORT

(1) Case Number:

(2) Site Name/Code:

(7) SAMPLE CONCENTRATION
(Check One)

___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

___ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To: **ORIGINAL (Red)**

(5) Regional Office: ____

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 ml
Water (VOA)	2	50 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(8) Shipping Information

Name of Carrier

Date Shipped:

Airbill Number: 632262530

(8) Sample Description

___ Surface Water ___ Mixed Media
X Ground Water ___ Solids
___ Leachate ___ Other (specify) ____

(9) Sample Location

Hunns deep well

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

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AR100067

ORGANICS TRAFFIC REPORT

C 1367

(1) Case Number:

(2) Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

___ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer
Ship To:

ORIGINAL
(Red)

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	80 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

(7) Shipping Information

Name of Carrier

Date Shipped: 3.23.83

Airbill Number: 570

(8) Sample Description

X Surface Water ___ Mixed Media
___ Ground Water ___ Solids
___ Leachate ___ Other (specify)

(9) Sample Location

d/s St Joe's #2

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TAT

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ARI U0068

ORGANICS TRAFFIC REPORT

C 1330

① Contract Lab:

Sample Site Name/Code:

② SAMPLE CONCENTRATION
(Check One)

___ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX
(Check One)

___ Water
___ Soil/Sediment

④ Ship To:

Attn:

Transfer Ship To: **ORIGINAL (Red)**

⑤ Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

⑥ For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)	2	1 gal
Water (VOA)	2	80 ml
Soil/Sediment		
Water (Ext/VOA)		
Other		

⑦ Shipping Information

Name of Carrier

Date Shipped:

Airbill Number: 132362570

⑧ Sample Description

___ Surface Water ___ Mixed Media
___ Ground Water ___ Solids
X Leachate ___ Other (specify) _____

⑨ Sample Location

South Leachate

⑩ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

REGIONAL OFFICE FILE COPY

AR100069

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 191..

PROJ. NO. | PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS							REMARKS
1234	[illegible]	[illegible]		X	[illegible]	1	1						5366
1234	—	—		X	Sediment Blank	1	1						5761
1234	[illegible]	[illegible]		X	[illegible]	1	1						5775

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
					(Red)

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

0070

ORGANICS TRAFFIC REPORT

ORIGINAL (Red)

(1) [illegible]:

[illegible] Site Name/Code:

(2) SAMPLE CONCENTRATION (Check One)

___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX (Check One)

___ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Regional Office: ___

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)		
Water (VOA)		
Soil/Sediment	1	8 oz
Water (Ext/VOA)		
Other		

(7) Shipping Information

Name of Carrier

Date Shipped: 3/9/25 - 3/12/25

Airbill Number:

(8) Sample Description

___ Surface Water ___ Mixed Media
___ Ground Water X Solids
___ Leachate ___ Other (specify) ___

(9) Sample Location

North Leachate Sediment

(10) Special Handling Instructions: (e.g., safety precautions, hazardous nature)

21 Day TAT

REGIONAL OFFICE FILE COPY

AR100071

ORGANICS TRAFFIC REPORT

C 1351

(1) Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
____ Low Concentration
____ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
____ Water
____ Soil/Sediment

(4) Ship To:

Attn:

Transfer ORIGINAL
Ship To: (Red)

(5) Regional Office:
Sampling Personnel:
(Name)
(Phone)
Sampling Date:
(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)		
Water (VOA)		
Soil/Sediment	1	1/2
Water (Ext/VOA)		
Other		

(7) Shipping Information
Name of Carrier
6/13/92
Date Shipped:
Airbill Number:

(8) Sample Description
____ Surface Water ____ Mixed Media
____ Ground Water ____ Solids
____ Leachate X Other (specify) Blank

(9) Sample Location
Sediment Blank

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)
21 Day TA

REGIONAL OFFICE FILE COPY

AR100072

ORGANICS TRAFFIC REPORT

(1) Case Number:

Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)

___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)

___ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer
Ship To:

ORIGINAL (Red)

(5) Regional Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) For each sample collected specify number of containers used and mark volume level on each bottle.

	Number of Containers	Approximate Total Volume
Water (Extractable)		
Water (VOA)		
Soil/Sediment	1	8 oz
Water (Ext/VOA)		
Other		

(7) Shipping Information

Name of Carrier

1/12/90

Date Shipped:

Airbill Number:

(8) Sample Description

___ Surface Water
___ Ground Water
X Leachate
___ Mixed Media
X Solids
___ Other (specify) _____

(9) Sample Location

South Sediment

(10) Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

21 Day TA

AR100073

REGIONAL OFFICE FILE COPY

ENVI[illegible]TAL PROTECTION AGENCY
[illegible]ice of Enforcement

CHAIN OF CUSTODY RECORD

[illegible]GION 3
Curtis [illegible], 6th. & Walnut Sts.
Philadelphia, Pennsylvania 191

PROJ. NO. NE-11 | PROJECT NAME [illegible]

SAMPLERS: (Signature) [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	REMARKS
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						TM # 34748
[illegible]	[illegible]	[illegible]		X	Rhodes Pond	1	1						0 3-5339
[illegible]	[illegible]	[illegible]		X	[illegible] Jones	1	1						3-5353
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5357
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5361
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5365
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5367
[illegible]	[illegible]	—		—	Blank (Reserve)	1	1						5372
[illegible]	—	—		—	Blank (Reserve)	1		1					5762
[illegible]	[illegible]	[illegible]		X	U.S. St. Jones	1	1						5766
[illegible]	[illegible]	[illegible]		X	[illegible] Pond	1	1						5770
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5774
[illegible]	[illegible]	[illegible]		X	[illegible]	1		1					5776
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5780
[illegible]	[illegible]	[illegible]		X	[illegible]	1	1						5784

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]		[illegible]		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]		[illegible]		
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Shipped Via Federal Express	
[illegible]	[illegible]	[illegible]	[illegible]		

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

PO Box 818, Alexandria, VA 22313

INORGANICS TRAFFIC REPORT

MC 8932

(Red)

① Case Number:
Sample Site Name/Code:

② SAMPLE CONCENTRATION
(Check One)
___ Low Concentration
___ Medium Concentration

③ SAMPLE MATRIX
(Check One)
✓ Water
___ Soil/Sediment

④ Ship To:
WA
Attn:

Transfer
Ship To:

⑤ Sampling Office:
Sampling Personnel:
(Name)
(Phone)
Sampling Date:
(Begin) (End)

⑥ Shipping Information:
Name Of Carrier:
Date Shipped: 2/2/82
Airbill Number: 22 362 581

⑦ Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other ________
(specify)
MATCHES ORGANIC SAMPLE NO.

⑧ Mark Volume Level
On Sample Bottle
Check Analysis required
✓ Task 1 & 2
___ Task 3 Ammonia
Sulfide
Cyanide
___ TOC
___ Fluoride & pH

21 Day TA

REGIONAL OFFICE FILE COPY

AR100075

P.O. Box 818, Alexandria, VA 22313 – 703 557 2490 · FTS 557 2490

INORGANICS TRAFFIC REPORT

INC 8932

ORIGINAL (Red)

(1) Case Number:
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
___ Water
___ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Sampling Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) Shipping Information:

Name Of Carrier:

Date Shipped:

Airbill Number:

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other (specify)

CHES ORGANIC SAMPLE NO.

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia 21 Day
Sulfide
Cyanide
___ TOC TA
___ Fluoride & pH

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AR100076

PO Box 818, Alexandria, VA 22313 - 703/557-2490 - FTS 557-2490

INORGANICS TRAFFIC REPORT

MC 8934

ORIGINAL (Red)

(1) Case Number: 1002
Sample Site Name/Code:
1C

(2) SAMPLE CONCENTRATION
(Check One)
X Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
X Water
___ Soil/Sediment

(4) Ship To:
SMO 25 WKDY

Attn:

Transfer Ship To:

(5) Sampling Office: 3

Sampling Personnel:

(Name) Cook II

(Phone) 215 1175

Sampling Date:

(Begin) 6/1 (End) 2

(6) Shipping Information:

Name Of Carrier: Federal Express

Date Shipped: 6/1/93

Airbill Number: 632 362 541

(7) Sample Description:
(Check One)
X Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other
(specify)

TCHES ORGANIC SAMPLE NO. 1111

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia
___ Sulfide
___ Cyanide 21 Day
___ TOC
___ Fluoride & pH TR

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AR100077

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INORGANICS TRAFFIC REPORT

MC 8934

ORIGINAL (Red)

(1) Case Number: 21
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
X Water
___ Soil/Sediment

(4) Ship To:
SAME AS
Attn: MC8932

Transfer Ship To:

(5) Sampling Office:
Sampling Personnel:
(Name) Cahill
(Phone)
Sampling Date:
(Begin) (End) 12

(6) Shipping Information:
Name Of Carrier:
Date Shipped: 12/1/92
Airbill Number: 432 302 581

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other
(specify)
ITCHES ORGANIC SAMPLE NO. 01142

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia
Sulfide
Cyanide
___ TOC
___ Fluoride & pH

21 Day TA

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AR100078

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INORGANICS TRAFFIC REPORT

MC 895C

ORIGINAL

(1) Case Number: _____
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
X Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
X Water
___ Soil/Sediment

(4) Ship To: (Red)

Attn:

Transfer
Ship To:

(5) Sampling Office: 2

Sampling Personnel:

(Name) Cecil H

(Phone) [illegible]

Sampling Date:

(Begin) _____ (End) 2

(6) Shipping Information:

Name Of Carrier: Federal Express

Date Shipped: 4/5/89

Airbill Number: [illegible]

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other _____
(specify)

ATCHES ORGANIC SAMPLE NO. 01347

(8) Mark Volume Level
On Sample Bottle
Check Analysis required

X Task 1 & 2
___ Task 3 Ammonia
Sulfide
Cyanide 21 Day
___ TOC
___ Fluoride & pH TA

REGIONAL OFFICE FILE COPY

AR100079

P.O. Box 818, Alexandria, VA 22313-0818 (703) 557-2490

INORGANICS TRAFFIC REPORT

MC 8937

ORIGINAL

(1) Case Number: [illegible]
Sample Site Name/Code:
[illegible]

(2) SAMPLE CONCENTRATION
X (Check One)
___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
___ Water
___ Soil/Sediment

(4) Ship To: (Red)
[illegible]
Attn: [illegible]

Transfer
Ship To:

(5) Sampling Office: [illegible]
Sampling Personnel:
(Name) [illegible]
(Phone) [illegible]
Sampling Date:
(Begin) [illegible] (End) [illegible]

(6) Shipping Information:
Name Of Carrier: [illegible]
Date Shipped: [illegible]
Airbill Number: [illegible]

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other ___ (specify)
ICHES ORGANIC SAMPLE NO. [illegible]

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia 21 Day
___ Sulfide
___ Cyanide
___ TOC TA
___ Fluoride & pH

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AR100080

P.O. Box 818, Alexandria, VA 22313-0818 703-557-2490 FTS 557-2490

INORGANICS TRAFFIC REPORT

Sample Number: MC 8938

ORIGINAL (Red)

(1) Case Number:
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
X Low Concentration
— Medium Concentration

(3) SAMPLE MATRIX
(Check One)
— Water
X Soil/Sediment

(4) Ship To:
Attn:
Transfer Ship To:

(5) Sampling Office:
Sampling Personnel:
(Name)
(Phone)
Sampling Date:
(Begin) (End)

(6) Shipping Information:
Name Of Carrier:
Date Shipped:
Airbill Number:

(7) Sample Description:
(Check One)
— Surface Water
— Ground Water
— Leachate
— Mixed Media
X Solids
— Other
(specify)
MATCHES ORGANIC SAMPLE NO:

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
— Task 3 Ammonia
Sulfide
Cyanide
21 Day
— TOC
— Fluoride & pH
TA

REGIONAL OFFICE FILE COPY

AR1001

INORGANICS TRAFFIC REPORT

MO 8939

ORIGINAL

(1) Case Number: [illegible]
Sample Site Name/Code: [illegible]

(2) SAMPLE CONCENTRATION
(Check One)
X Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
✓ Water
___ Soil/Sediment

(4) Ship To: (Red)
[illegible]

Attn:

Transfer
Ship To:

(5) Sampling Office: [illegible]

Sampling Personnel:
(Name) [illegible]
(Phone) [illegible]
Sampling Date:
(Begin) _____ (End) _____

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: [illegible]
Airbill Number: 832 362 581

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other Blank
(specify)
TCHES ORGANIC SAMPLE NO. 1357

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia
___ Sulfide
___ Cyanide 21 Day
___ TOC
___ Fluoride & pH TA

REGIONAL OFFICE FILE COPY

AR100082

VA 22313 – 703/557-2490 • FTS/557-2490

INORGANICS TRAFFIC REPORT

MC 8941

(1) Case Number: [illegible]
Sample Site Name/Code: [illegible]

(2) SAMPLE CONCENTRATION
(Check One)
X Low Concentration
— Medium Concentration

(3) SAMPLE MATRIX
(Check One)
X Water
— Soil/Sediment

(4) Ship To: ORIGINAL (Red)
[illegible]
Attn:
Transfer Ship To:

(5) Sampling Office: [illegible]
Sampling Personnel:
(Name) [illegible]
(Phone) [illegible]
Sampling Date:
(Begin) [illegible] (End) [illegible]

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: [illegible]
Airbill Number: [illegible]

(7) Sample Description:
(Check One)
X Surface Water
— Ground Water
— Leachate
— Mixed Media
— Solids
— Other (specify)
TCHES ORGANIC SAMPLE NO. C1207

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
— Task 3 Ammonia
— Sulfide
— Cyanide
— TOC
— Fluoride & pH
21 Day TA

REGIONAL OFFICE FILE COPY

AR100083

P.O. Box 818 Alameda, CA 94501 (415) 337-7490

INORGANICS TRAFFIC REPORT

MC 8941

ORIGINAL (Red)

(1) Case Number: _____
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
___ Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
___ Water
___ Soil/Sediment

(4) Ship To:
Attn:
Transfer Ship To:

(5) Sampling Office: _____
Sampling Personnel:
(Name) _____
(Phone) _____
Sampling Date:
(Begin) _____ (End) _____

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: _____
Airbill Number: 632362581

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
___ Solids
___ Other Blanks
(specify)
CHES ORGANIC SAMPLE NO. 1251

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia
Sulfide
Cyanide
___ TOC
___ Fluoride & pH

21 Day TA

REGIONAL OFFICE FILE COPY

AR100084

INORGANICS TRAFFIC REPORT

MC 394?

ORIGINAL (Red)

(1) Case Number: _____
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
_____ Low Concentration
_____ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
_____ Water
_____ Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Sampling Office: _____

Sampling Personnel:

(Name) _____

(Phone) _____

Sampling Date:

(Begin) _____ (End) _____

(6) Shipping Information:

Name Of Carrier: _____

Date Shipped: _____

Airbill Number: 432 362 581

(7) Sample Description:
(Check One)
_____ Surface Water
_____ Ground Water
_____ Leachate
_____ Mixed Media
_____ Solids
_____ Other _____
(specify)

TCHES ORGANIC SAMPLE NO.

(8) Mark Volume Level On Sample Bottle
Check Analysis required
_____ Task 1 & 2
_____ Task 3 Ammonia
Sulfide
Cyanide
21 Day TAT
_____ TOC
_____ Fluoride & pH

REGIONAL OFFICE FILE COPY

AR100085

P.O. Box 818, Alexandria, VA 22313 703/557-2490 FTS

INORGANICS TRAFFIC REPORT

Sample No. MC 8943

ORIGINAL (Red)

(1) Case Number:
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
— Low Concentration
— Medium Concentration

(3) SAMPLE MATRIX
(Check One)
— Water
— Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Sampling Office:

Sampling Personnel:

(Name)

(Phone)

Sampling Date:

(Begin) (End)

(6) Shipping Information:

Name Of Carrier:

Date Shipped:

Airbill Number:

(7) Sample Description:
(Check One)
— Surface Water
— Ground Water
— Leachate
— Mixed Media
— Solids
— Other (specify)

CHES ORGANIC SAMPLE NO.

(8) Mark Volume Level On Sample Bottle
Check Analysis required
✓ Task 1 & 2
— Task 3 Ammonia
Sulfide
Cyanide
— TOC
— Fluoride & pH

21 Day
TA

REGIONAL OFFICE FILE COPY

AR100086

P.O. Box 818, Alexandria, VA 22313 – 703/557-2490

INORGANICS TRAFFIC REPORT

Sample Number MC 8942

ORIGINAL (Red)

(1) Case Number: _____
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
X Low Concentration
___ Medium Concentration

(3) SAMPLE MATRIX
(Check One)
___ Water
X Soil/Sediment

(4) Ship To:

Attn:

Transfer Ship To:

(5) Sampling Office: _____
Sampling Personnel:
(Name) Cantrell
(Phone) [illegible]
Sampling Date:
(Begin) 1/1 (End) 12

(6) Shipping Information:
Name Of Carrier: Federal Express
Date Shipped: 11/6/92
Airbill Number: [illegible]

(7) Sample Description:
(Check One)
___ Surface Water
___ Ground Water
___ Leachate
___ Mixed Media
X Solids
___ Other _____ (specify)
HES ORGANIC SAMPLE NO. 1364

(8) Mark Volume Level On Sample Bottle
Check Analysis required
X Task 1 & 2
___ Task 3 Ammonia 21 Day
___ Sulfide
___ Cyanide
___ TOC
___ Fluoride & pH TA

REGIONAL OFFICE FILE COPY

AR100087

INORGANICS TRAFFIC REPORT

8945

ORIGINAL

(1) Case Number: _____
Sample Site Name/Code:

(2) SAMPLE CONCENTRATION
(Check One)
— Low Concentration
— Medium Concentration

(3) SAMPLE MATRIX
(Check One)
— Water
— Soil/Sediment

(4) Ship To: (Red)

Attn:

Transfer
Ship To:

(5) Sampling Office: _____

Sampling Personnel:

(Name) _____

(Phone) _____

Sampling Date:

(Begin) _____ (End) _____

(6) Shipping Information:

Name Of Carrier: _____

Date Shipped: _____

Airbill Number: _____

(7) Sample Description:
(Check One)
— Surface Water
— Ground Water
— Leachate
— Mixed Media
— Solids
— Other _____
(specify)

CHES ORGANIC SAMPLE NO. _____

(8) Mark Volume Level
On Sample Bottle
✓ Check Analysis required
— Task 1 & 2
— Task 3 Ammonia
Sulfide
Cyanide 21 Day
— TOC
— Fluoride & pH TA

REGIONAL OFFICE FILE COPY

AR100088

SHIPPER'S COPY

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.

AIRBILL NUMBER
632362570

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

DATE

TO (Recipient's Name)

COMPANY — DEPARTMENT/FLOOR NO.

COMPANY — DEPARTMENT/FLOOR NO.

STREET ADDRESS

STREET ADDRESS (P.O. BOX NUMBERS ARE NOT DELIVERABLE)

STATE

CITY — STATE

YOUR INTERNAL BILLING REFERENCE NUMBER (FIRST 12 CHARACTERS WILL ALSO APPEAR ON INVOICE)

PAYMENT ☐ Bill Shipper ☐ Bill Recipient's F.E.C. Acct. ☒ Bill 3rd Party F.E.C. Acct. ☐ Bill Credit Card ☐ Cash in Advance

Account Number/Credit Card Number

IN TENDERING THIS SHIPMENT, SHIPPER AGREES THAT F.E.C. SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING FROM CARRIAGE HEREOF. F.E.C. DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THIS SHIPMENT. THIS IS A NON-NEGOTIABLE AIRBILL SUBJECT TO CONDITIONS OF CONTRACT SET FORTH ON REVERSE OF SHIPPER'S COPY. UNLESS YOU DECLARE A HIGHER VALUE, THE LIABILITY OF FEDERAL EXPRESS CORPORATION IS LIMITED TO $100.00.

SERVICES — CHECK ONLY ONE BOX

PRIORITY ONE (P-1) — OVERNIGHT LETTER

COURIER PAK

STANDARD AIR

DELIVERY AND SPECIAL HANDLING — CHECK SERVICES REQUIRED

1 ☐ HOLD FOR PICK-UP AT FOLLOWING FEDERAL EXPRESS LOCATION SHOWN IN SERVICE GUIDE.

2 ☒ DELIVER WEEKDAY

3 ☐ SATURDAY SERVICE REQUIRED

4 ☐ RESTRICTED ARTICLES SERVICE

5 ☐

6 ☐ DRY ICE

7 ☐ OTHER SPECIAL SERVICE

8 ☐

9 ☐

PIECES	WEIGHT	DECLARED VALUE	O/S
TOTAL	TOTAL	TOTAL	

RECEIVED AT
SHIPPER'S DOOR
☐ REGULAR STOP
☐ ON-CALL STOP
☐ F.E.C. LOC.

Federal Express Corporation Employee No.

DATE/TIME For Federal Express Use

FEDERAL EXPRESS USE

FREIGHT CHARGES	
DECLARED VALUE CHARGE	
ADVANCE ORIGIN	
ADVANCE DESTINATION	
OTHER	
TOTAL CHARGES	

AGT/PRO

AGT/PRO

"NEXT" IS DEFINED AS NEXT BUSINESS DAY (MONDAY THROUGH FRIDAY). SEE SPECIAL [illegible] FOR SATURDAY DELIVERY

PART #2041736000
REVISION DATE
7/83 GBF
PRINTED U.S.A.

AR100089

FEDERAL EXPRESS

PLEASE COMPLETE ALL INFORMATION IN THE 5 BLOCKS OUTLINED IN ORANGE
SEE BACK OF FORM SET FOR COMPLETE PREPARATION INSTRUCTIONS.

AIRBILL NUMBER
632362581

YOUR FEDERAL EXPRESS ACCOUNT NUMBER

DATE

SENDER'S NAME

Phone

COMPANY

DEPARTMENT/FLOOR NO.

STREET ADDRESS

CITY

STATE

AIRBILL NO. 632362581

PAYMENT ☐ Bill Sender ☐ Bill Recipient's F.E.C. Acct. ☐ Bill Third Party F.E.C. Acct. ☐ Bill Credit Card

☐ Cash In Advance

SERVICES
CHECK ONLY ONE BOX

PRIORITY ONE (P-1) OVERNIGHT LETTER

COURIER PAK

STANDARD AIR

"OVERNIGHT" IS DEFINED AS NEXT BUSINESS DAY DELIVERY THROUGH 3 PM AT) SEE SPECIAL DELIVERY & OTHER SERVICES

DELIVERY AND SPECIAL HANDLING
ENTER SERVICES IF DESIRED

PREPACKAGED AT FEDERAL EXPRESS OR DROP IN SERVICE SITE

PIECES | WEIGHT | DECLARED VALUE | $

TOTAL | TOTAL | TOTAL

RECEIVED AT
SOUTH'S DOOR
SOUTH STOP
MIDDLE STOP
NORTH STOP

Federal Express Corporation Employee No.

DATE/TIME For Federal Express Use

AGT#90

AGT#90

ADVANCE CHARGES

ADVANCE DESCRIPTION

OTHER

TOTAL CHARGES

PART #2041716000
REVISION DATE 7/91
PRINTED U.S.A.

SHIPPER'S COPY

AR100090

(Red)

SAMPLE RECEIPT

ON June 3, 1982, Ecology & Environment, Inc., representative Beth Gross received permission from Mr Hunn to remove material from his/her property, contained in 14 one-half gallon glass organic sample bottle(s), 14 40 ml glass volatile organic sample bottle(s), 4 8 oz. glass hazardous sample jar(s) and 7 inorganic 1-quart polyethylene sample bottle(s).

Allan Hunn
Property Owner, Signature & Date

Elizabeth Gross 6/3/82
Ecology & Environment, Inc., Representative Signature & Date

APPENDIX 2

RECEIVED

Sample Number
01139

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.

Reported by:

LAB SAMPLE ID NO. 25-383

Checked by: ADN

QC REPORT NO. 19

I. Hunn's Shallow Well

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

RI

01139

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-383

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l
(pesticides less than 0.1 ug/l)

R2

ND = Not detected

AR100094

19

01139

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	41	100.	41 %
fluorophenol	Acid	84	100.	84 %
d5 nitrobenzene	B/N	81	100.	81 %
d8 naphthalene	B/N	76	100.	76 %
d5 pyridine	B/N	99	100.	99 %
d6 benzene	VOA	100	100.	100 %
d8 toluene	VOA	107	100.	107 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained; Mass Matching Routine: HP-PBS (specify)
1.	00045 36236	Hexanoic acid, 2-methyl	Acid	98.07
2.	00033 02101	Hexanoic acid, 3,5,5-trimethyl	Acid	97.02
3.	00407 10290	Hentetracontancic acid	Acid	98.20
4.	00559 05481	1,2-cyclohexanedimethanol,3(acetyloxy)- 1,2-dimethyl- , diacetate	Acid	98.09
5.	00565 54644	Hexadecane,1,1-Bis(dodecyloxy)-	Acid	98.36
6.	00275 54263	1,2-Benzenedicarboxylic acid, diisooctyl ester	Acid	98.15
7.	00009 34349	2(3H)-Benzothiazolone	Acid	98.03 & reference match
8.	00166 24069	Cyclooctanemethanol,.alpha.,.alpha., dimethyl-	B/N	97.92
9.	00000 76222	Bicyclo 2.2.1 Heptan-2-one, 1,7,7-trimethyl	B/N	98.12
10.	00251 54567	Nonacosanol	B/N	97.98
11.	00009 33880	Benzoyl chloride, 2-methyl-	B/N	97.76 & reference match
12.	00005 99699	Benzenesulfonamide,N,N,4-trimethyl	B/N	97.91
13.	00549 86311	1-Undecene,11,11-diethoxy	B/N	97.89
14.				
15.				
16.				
17.				
18.				
19.			B3	
20.				

Sample Number
C1140

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC. Reported by: LBH

LAB SAMPLE ID NO. 25-384 Checked by: ADM

QC REPORT NO. 19 2. Racetrack Pond

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
15B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R7

Sample Number
C1140

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-384

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

ND = Not detected

AR100097

CB-324

19

21140

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	(Surrogates only) % Recovery
d6 phenol	Acid	50	100.	50 %
fluorophenol	Acid	75	100.	75 %
d5 nitrobenzene	B/N	67	100.	67 %
d8 naphthalene	B/N	63	100.	63 %
d5 pyridine	B/N	70	100.	70 %
d6 benzene	VOA	105	100.	105 %
d8 toluene	VOA	118	100.	118 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.			A9	
20.				

Sample Number
C1141

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.
Reported by: [illegible]
LAB SAMPLE ID NO. 25-336
Checked by: ADW
QC REPORT NO. 19
3. St. Jones River Loop

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	40
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R19

Sample Number
C1141

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-386

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129D	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

R20

ND = Not detected

AR100100

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recov
d6 phenol	Acid	48	100.	48 %
fluorophenol	Acid	72	100.	72 %
d5 nitrobenzene	B/N	69	100.	69 %
d8 naphthalene	B/N	63	100.	63 %
d5 pyridine	B/N	83	100.	83 %
d6 benzene	VOA	107	100.	107 %
d8 toluene	VOA	119	100.	119 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained, Mass Matching Routine: HP-MBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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13.				
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16.				
17.				
18.				
19.			R2	
20.				

Sample
C1348

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO., INC. Reported by:

LAB SAMPLE ID NO. 25-389 Checked by:

QC REPORT NO. 19 4. West Leachate

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	10

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	35
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R37

C1348

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-389

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	28
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	150
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	70
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	6.0
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129D	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

R38 ND = Not detected

28-289

19

C1348

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	37	100.	37 %
fluorophenol	Acid	73	100.	73 %
d5 nitrobenzene	B/N	10	100.	10 %
d8 naphthalene	B/N	75	100.	75 %
d5 pyridine	B/N	94	100.	94 %
d6 benzene	VOA	83	100.	83 %
d8 toluene	VOA	98	100.	98 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.	00001 03822	Benzeneacetic acid.	Acid	97.82 & reference match
2.	00407 10369	Nonahexacontanoic acid, methyl ester	Acid	98.65
3.	00005 06525	1-Hexacosanol	Acid	98.31
4.	00066 24799	1-Dotriacontanol	Acid	98.38
5.	00407 10325	Nonahexacontanoic Acid	Acid	98.47
6.	00006 30079	Pentatriacontane	B/N	98.43
7.	00066 24799	1-Dotriacontanol	B/N	98.39
8.	00527 33434	Nonadecanol	B/N	98.18
9.	00563 54644	Hexadecane,1,1-bix(dodecyloxy)	B/N	98.37 & reference match
10.	00111 26059	Freon	B/N	98.48
11.	00407 10314	Hexacontanoic acid	B/N	98.37
12.	00005 48103	Hexadecanoic acid, hexadecyl ester	B/N	98.33 & reference match
13.	00407 10303	Pentacontanoic acid	B/N	98.12
14.	00066 24799	1-Dotriacontanol	B/N	97.93
15.				
16.				
17.				
18.				
19.				
20.			R39	

[illegible], Alexandria, VA 22310 • 703/683-[illegible]

Compute Number
01142

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC. Reported by: [illegible]

LAB SAMPLE ID NO. 25-387 Checked by: ADAS

QC REPORT NO. 19 S. Mitten Well

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

A25

Date 1102

Sample Number
C1142

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-387

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

R26

ND = Not detected

AR100106

01142

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	43	100.	43 %
fluorophenol	Acid	75	100.	75 %
d5 nitrobenzene	B/N	78	100.	78 %
d8 naphthalene	B/N	65	100.	65 %
d5 pyridine	B/N	86	100.	86 %
d6 benzene	VOA	105	100.	105 %
d8 toluene	VOA	120	100.	120 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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12.				
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18.				
19.			R27	
20.				

U.S. ENVIRONMENTAL PROTECTION AGENCY — Regional Office — Page 1102
P.O. Box 818, Alexandria, VA 22313 • 703/823-6666
Sample Number 01347

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC. Reported by: [illegible]
LAB SAMPLE ID NO. 25-388 Checked by: ADM
QC REPORT NO. 19 6. North Leachate

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
37A	2- nitrophenol	ND
38A	4- nitrophenol	ND
39A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
6B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	18
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	3700
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R31

Case 1102
Sample Number
01347

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-388

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	25
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	170
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	5.4
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0

R32 ND = Not detected

AR100109

Lab Name: [illegible] SOURCE [illegible]

25-388

19

01347

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	29	100.	29 %
fluorophenol	Acid	54	100.	54 %
d5 nitrobenzene	B/N	61	100.	61 %
d8 naphthalene	B/N	75	100.	75 %
d5 pyridine	B/N	110	100.	110 %
d6 benzene	VOA	82	100.	82 %
d8 toluene	VOA	100	100.	100 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.	100005 63791	2-Butene,2,3-Dimethyl-	Acid	97.80
2.	100621 08412	Pentane,2-methoxy-2,4,4-trimethyl-	Acid	97.95
3.	100105 44500	Sulfur, mol.	Acid	97.99
4.	100407 10369	Nonahexacontaoic acid, methyl ester	Acid	98.65
5.	100407 10427	1-Hentetracontanol	Acid	98.31
6.	100551 62613	Tetracontane,3,5,24-trimethyl	Acid	98.53
7.	100275 54263	1,2-Benzenedicarboxylic acid, diisooctyl ester	Acid	98.15
8.	100407 10416	Nonahexacontanoic acid, propyl ester	Acid	98.36
9.	100069 71400	17-Pentatriacontene	B/N	98.18
10.	100407 10369	Nonahexacontanoic acid, methyl ester	B/N	98.51
11.	100026 89011	Tetradecanoic acid, hexadecyl ester	B/N	98.32
12.	100407 10325	Nonahexacontanoic acid	B/N	98.28
13.	100565 54644	Hexadecane,1,1-bis(dodecyloxy)	B/N	98.09
14.	100005 40103	Hexadecanoic acid, hexadecyl ester	B/N	98.32
15.				
16.				
17.				
18.				
19.			R33	
20.				

AR100110

U.S. ENVIRONMENTAL PROTECTION AGENCY-CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Sample Number
C1349

ORGANICS ANALYSIS DATA SHEET - Page 1

7. North leachate sediment

Laboratory Name Mead CompuChem Case Number 1102

Lab Sample ID NO. 16613 QC Report No. 41-128, 42-120, 46-126

Signature of Person Authorized to Release Data: R.D. Mallis

	ACID COMPOUNDS	ug/g
88-06-2	2,4,6-trichlorophenol	0.2U
59-50-7	p-chloro-m-cresol	0.4U
95-57-8	2-chlorophenol	0.2U
120-83-2	2,4-dichlorophenol	0.2U
105-67-9	2,4-dimethylphenol	0.2U
88-75-5	2-nitrophenol	0.2U
100-02-7	4-nitrophenol	1.8U
51-28-5	2,4-dinitrophenol	0.8U
534-52-1	4,6 dinitro-o-cresol	0.4U
87-86-5	pentachlorophenol	0.5U
108-95-2	phenol	0.2U

	BASE/NEUTRAL COMPOUNDS	ug/g
83-32-9	acenaphthene	0.2U
92-87-5	benzidine	0.5U
120-82-1	1,2,4-trichlorobenzene	0.2U
118-74-1	hexachlorobenzene	0.2U
67-72-1	hexachloroethane	0.2U
111-44-4	bis(2-chloroethyl)ether	0.2U
91-58-7	2-chloronaphthalene	0.2U
95-50-1	1,2-dichlorobenzene	0.2U
541-73-1	1,3-dichlorobenzene	0.2U
106-46-7	1,4-dichlorobenzene	0.2U
91-94-1	3,3'-dichlorobenzidine	0.2U
121-14-2	2,4-dinitrotoluene	0.2U
606-20-2	2,6-dinitrotoluene	0.2U
	1,2-diphenylhydrazine	0.2U
122-66-7	(as azobenzene)	0.2U
206-44-0	fluoranthene	0.2U
7005-72-3	4-chlorophenyl phenyl ether	0.2U

	BASE/NEUTRAL COMPOUNDS	ug/g
101-55-3	4-bromophenyl phenyl ether	0.2U
39638-32-9	bis-(2-chloroisopropyl)ether	0.2U
111-91-1	bis(2-chloroethoxy)methane	0.2U
87-68-3	hexachlorobutadiene	0.2U
77-47-4	hexachlorocyclopentadiene	0.2U
78-59-1	isophorone	0.2U
91-20-3	naphthalene	0.2U
98-95-3	nitrobenzene	0.2U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	0.2U
621-64-7	N-nitrosodi-n-propylamine	0.2U
117-81-7	bis(2-ethylhexyl)phthalate	0.2U
85-68-7	butyl benzyl phthalate	4.2 Q
84-74-2	di-n-butyl phthalate	0.2U
117-84-0	di-n-octyl phthalate	0.2U
84-66-2	diethyl phthalate	0.2U
131-11-3	dimethyl phthalate	0.2U
56-55-3	benzo(a)anthracene	0.2U
50-33-8	benzo(a)pyrene	0.2U
205-99-2	3,4-benzofluoranthene	0.5U
207-08-9	benzo(k)fluoranthene	0.2U
218-01-9	chrysene	0.2U
208-96-8	acenaphthylene	0.2U
120-12-7	anthracene	0.2U
191-24-2	benzo(ghi)perylene	0.5U
86-73-7	fluorene	0.2U
85-01-8	phenanthrene	0.5U
53-70-3	dibenzo(a,h)anthracene	0.5U
193-39-5	indeno(1,2,3-cd)pyrene	0.5U
129-00-0	pyrene	0.5U

AR100111

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number C1349

Laboratory Name Mead CorpuChem

Case Number 1102

Lab Sample ID NO. 1c1c13

QC Report No. 41-124, 42-120, 46-126

	VOLATILES	ug/g
107-02-8	acrolein	0.10U
107-13-1	acrylonitrile	0.10U
71-43-2	benzene	0.01U
56-23-5	carbon tetrachloride	0.01U
108-90-7	chlorobenzene	0.01U
107-06-2	1,2-dichloroethane	0.01U
71-55-6	1,1,1-trichloroethane	0.01U
75-34-3	1,1-dichloroethane	0.01U
79-00-5	1,1,2-trichloroethane	0.01U
79-34-5	1,1,2,2-tetrachloroethane	0.01U
75-00-3	chloroethane	0.01U
110-75-8	2-chloroethylvinyl ether	0.01U
67-66-3	chloroform	0.01U
75-35-4	1,1-dichloroethene	0.01U
156-60-5	1,2-trans-dichloroethene	0.01U
78-87-5	1,2-dichloropropane	0.01U
10061-0X-XX	1,3-dichloropropiene	0.01U
100-41-4	ethylbenzene	0.01U
75-09-2	methylene chloride	* 0.01 - 47
74-87-3	chloromethane	0.01U
74-83-9	bromomethane	0.01U
75-25-2	bromoform	0.01U
75-27-4	dichlorobromomethane	0.01U
75-69-4	trichlorofluoromethane	0.01U
75-71-8	dichlorodifluoromethane	0.01U
124-48-1	chlorodibromomethane	0.01U
127-18-4	tetrachloroethylene	0.01U
108-88-3	toluene	0.01U
79-01-6	trichloroethylene	0.01U
75-01-4	vinyl chloride	0.01U

	PESTICIDES	ug/g
309-00-2	aldrin	0.01U
60-57-1	dieldrin	0.01U
57-74-9	chlordane	0.01U
50-29-3	4,4'-DDT	0.01U
72-55-9	4,4'-DDE	0.01U
72-54-8	4,4'-DDD	0.01U
115-29-7	endosulfan I	0.01U
115-29-7	endosulfan II	0.01U
1031-07-8	endosulfan sulfate	0.01U
72-20-8	endrin	0.01U
7421-43-4	endrin aldehyde	0.01U
76-44-8	heptachlor	0.01U
1024-57-3	heptachlor epoxide	0.01U
319-84-6	BHC-Alpha	0.01U
319-85-7	BHC-Beta	0.01U
319-86-8	BHC-Delta	0.01U
58-89-9	BHC-Gama	0.01U
53469-21-9	PCB-1242	0.01U
11097-69-7	PCB-1254	0.01U
11104-28-2	PCB-1221	0.01U
11141-16-5	PCB-1232	0.01U
12672-24-6	PCB-1248	0.01U
11096-82-5	PCB-1260	0.01U
12674-11-2	PCB-1016	0.01U
8001-35-2	toxaphene	0.04U

	DIOXINS	
1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.01U

*Less than 0.2 ug/l (pesticides less than,

AR100112

Lab Name: Mead CompuChem

Lab Sample I.D. No. 116163

SAMPLE NUMBER
24102-C1349

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	0.068	0.05	136
d-8-Toluene	VOA	0.068	0.05	136
Fluorophenol	A	1.138	2.5	46
d-5-Phenol	A	0.879	2.5	35
Pentafluorophenol	A	0.823	2.5	33
d-5-Nitrobenzene	B/N	0.010	2.5	0.3
Fluorobiphenyl	B/N	0.585	2.5	23

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: GC/MS - Mead Comp. Chem

C# 1102-C1349

LAB SAMPLE I.D. # EI016613A11

SAMPLE # 16613

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC. (ug/g)
1	495	100-40-3	4- Ethenyl cyclohexane	VOA	895	0.25 E(2.5)
2				VOA		
3				VOA		
4				VOA		
5				VOA		
6				VOA		
7				VOA		
8				VOA		
9				VOA		
10				VOA		

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: Mead Compuchem

LAB SAMPLE I.D. # 16613

SAMPLE # [illegible]1102-C1349

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATED CONC. (ug/L)
1	573	2,5-435-26-3	2,5-cyclohexadien-1-one, 2,4,6-TRI-Tert-Butyl-4-(3,5,5'-TRI	B/N	42	8.0
2	419	140-66-9	Phenol, 4-(1,1,3,3-Tetramethylbutyl)-	B/N	72	0.19
3	521	84-15-1	1,1':2',1''-Terphenyl	B/N	74	0.29
4	529	3(847-05-3	9-octadecen-12-ynoic Acid, methyl ester	B/N	16	7.3
5	601	92-06-8	1,1':3',1''-Terphenyl	B/N	83	0.63
6	636	2652-44-2	Aspidodasycarpine-3-acetamol, (2.Alpha., 3.Beta., 5.Alp	B/N	38	0.24
7	664	27554-26-3	1,2-Benzene dicarboxylic Acid, diisooctyl ester	B/N	81	8.7
8	683	"	"	B/N	70	6.3
9	641	27554-26-3	"	B/N	66	1.9
				B/N		

AR100115

U.S. [illegible] PROTECTION AGENCY - [illegible] Sample Management Office
[illegible] • [illegible], VA 22313 • 703/683-9885

Page 1102
Sample Number C1352

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.
Reported by: [illegible]
LAB SAMPLE ID NO. 25-391
Checked by: ADW
QC REPORT NO. 19
8. Upstream St. Jones River

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	[illegible]
67B	butyl benzyl phthalate	[illegible]
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	[illegible]

R49

1102

C1352

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-391

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

R50

ND = Not detected

AR100117

Lab Name [illegible]
28-391
19

01382

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	37	100.	37 %
fluorophenol	Acid	61	100.	61 %
d5 nitrobenzene	B/N	77	100.	77 %
d8 naphthalene	B/N	55	100.	55 %
d5 pyridine	B/N	43	100.	43 %
d6 benzene	VOA	105	100.	105 %
d8 toluene	VOA	118	100.	118 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
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11.				
12.				
13.				
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16.				
17.				
18.				
19.			RST	
20.				

ART00118

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, VA 22313 • 703/557-2490

Case 1102
Sample Number
01364

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO., INC. Reported by: [illegible]

LAB SAMPLE ID NO. 25-392 Checked by: ADW

QC REPORT NO. 19 9 Drum Pond

ACID COMPOUNDS

		ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

BASE/NEUTRAL COMPOUNDS

1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

RSS

Page 1102

Sample Number C1364

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-392

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	1.9
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

DIOXINS

129B	2,3,7,8-tetrachlorodibenzo-p-dioxin

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

A56

ND = Not detected

AR100120

LAB NAME (EPA) SAMPLE NO.

EE-392

19

01364

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	40	100.	40 %
fluorophenol	Acid	55	100.	55 %
d5 nitrobenzene	B/N	63	100.	63 %
d8 naphthalene	B/N	52	100.	52 %
d5 pyridine	B/N	45	100.	45 %
d6 benzene	VOA	97	100.	97 %
d8 toluene	VOA	118	100.	118 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
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18.				
19.		RST		
20.				

AR100121

U.S. ENVIRONMENTAL PROTECTION AGENCY - EMSL Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/557-2585

Page 1102
Sample Number
C1365

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.
Reported by: ZLH
LAB SAMPLE ID NO. 25-393
Checked by: APW
QC REPORT NO. 19
10. Hunn's Deep Well

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R61

AR100122

Sample Number
C1365

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-393

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129D	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

R62

ND = Not detected

Lab Name: ENVIRONMENTAL [illegible] 1132

25-393

QC Batch No.: 19

C1366

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	36	100.	36 %
fluorophenol	Acid	50	100.	50 %
d5 nitrobenzene	B/N	63	100.	63 %
d8 naphthalene	B/N	54	100.	54 %
d5 pyridine	B/N	46	100.	46 %
d6 benzene	VOA	120	100.	120 %
d8 toluene	VOA	133	100.	133 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.			R63	
20.				

AR100124

U.S. ENVIRONMENTAL PROTECTION AGENCY - EPA Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-9885

Sample Number
C1386

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.
Reported by: [illegible]
LAB SAMPLE ID NO. 25-395
Checked by: ADW
QC REPORT NO. 19
11. South Leachate

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R73

1102

Sample Number
01396

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO., INC.

LAB SAMPLE ID NO. 25-395

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	2.1
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129D	2,3,7,8-tetrachlorodibenzo-p-dioxin	

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

RFF

ND = Not detected

AR100126

Lab Name: [illegible] Laboratory
25-395
Quote No.: 19

01336

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	42	100.	42 %
fluorophenol	Acid	61	100.	61 %
d5 nitrobenzene	B/N	65	100.	65 %
d8 naphthalene	B/N	63	100.	64 %
d5 pyridine	B/N	55	100.	55 %
d6 benzene	VOA	93	100.	93 %
d8 toluene	VOA	104	100.	104 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.	00006 30079	Pentatriacontane	Acid	98.44
2.	00007 10314	Hexacontanoic acid	Acid	98.60
3.	00407 10325	Nonahexacontanoic acid.	ACid	98.74
4.	00407 10325	Nonahexacontanoic acid	B/N	98.71
5.	00006 30079	Pentatriacontane	B/N	98.43
6.	00707 10325	Nonahexacontanoic acid	B/N	98.75
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.			RZS	
20.				

AR100127

P.O. Box ... Alexandria, ... 22313 - 703/683-0683

Sample Number C13660

ORGANICS ANALYSIS DATA SHEET - Page 1

12. South Leachate Sediment

Laboratory Name Mead CompuChem

Case Number 1102

Lab Sample ID NO. 160615

QC Report No. 41-126, 42-120, 46-126

Signature of Person Authorized to Release Data: R. DiPardi

	ACID COMPOUNDS	ug/g
88-06-2	2,4,6-trichlorophenol	0.2U
59-50-7	p-chloro-m-cresol	0.4U
95-57-8	2-chlorophenol	0.2U
122-83-2	2,4-dichlorophenol	0.2U
105-67-9	2,4-dimethylphenol	0.2U
88-75-5	2-nitrophenol	0.2U
100-02-7	4-nitrophenol	1.8U
51-28-5	2,4-dinitrophenol	0.8U
534-52-1	4,6 dinitro-o-cresol	0.4U
87-86-5	pentachlorophenol	0.5U
108-95-2	phenol	0.2U

	BASE/NEUTRAL COMPOUNDS	ug/g
83-32-9	acenaphthene	* 0.2 LT
92-87-5	benzidine	0.5U
120-82-1	1,2,4-trichlorobenzene	0.2U
118-74-1	hexachlorobenzene	0.2U
67-72-1	hexachloroethane	0.2U
111-44-4	bis(2-chloroethyl)ether	0.2U
91-58-7	2-chloronaphthalene	0.2U
95-50-1	1,2-dichlorobenzene	0.2U
541-73-1	1,3-dichlorobenzene	0.2U
106-46-7	1,4-dichlorobenzene	0.2U
91-94-1	3,3'-dichlorobenzidine	0.2U
121-14-2	2,4-dinitrotoluene	0.2U
606-20-2	2,6-dinitrotoluene	0.2U
	1,2-diphenylhydrazine	0.2U
122-66-7	(as azobenzene)	0.2U
206-44-0	fluoranthene 1.2	
7005-72-3	4-chlorophenyl phenyl ether	0.2U

	BASE/NEUTRAL COMPOUNDS	ug/g
101-55-3	4-bromophenyl phenyl ether	0.2U
39638-32-9	bis-(2-chloroisopropyl)ether	0.2U
111-91-1	bis(2-chloroethoxy)methane	0.2U
87-68-3	hexachlorobutadiene	0.2U
77-47-4	hexachlorocyclopentadiene	0.2U
78-59-1	isophorone	0.2U
91-20-3	naphthalene	0.2U
98-95-3	nitrobenzene	0.2U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	0.2U
621-64-7	N-nitrosodi-n-propylamine	0.2U
117-81-7	bis(2-ethylhexyl)phthalate 4.2	
85-68-7	butyl benzyl phthalate 12.42	
84-74-2	di-n-butyl phthalate	0.2U
117-84-0	di-n-octyl phthalate	0.2U
84-66-2	diethyl phthalate	0.2U
131-11-3	dimethyl phthalate	0.2U
56-55-3	benzo(a)anthracene 0.46	
50-33-8	benzo(a)pyrene	0.2U
205-99-2	3,4-benzofluoranthene * 0.5	
207-08-9	benzo(k)fluoranthene * 0.2	
218-01-9	chrysene 0.46	
208-96-8	acenaphthylene	0.2U
120-12-7	anthracene 20	
191-24-2	benzo(ghi)perylene	0.5U
86-73-7	fluorene 0.32	
85-01-8	phenanthrene 2.0	
53-70-3	dibenzo(a,h)anthracene	0.5U
193-39-5	indeno(1,2,3-cd)pyrene	0.5U
129-00-0	pyrene 1.26	

AR100128

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number
C13666

Laboratory Name Mead ComputChem

Case Number 1102

Lab Sample ID NO. 116615

QC Report No. 41-126, 42-126, 46-126

	VOLATILES	ug/g
107-02-8	acrolein	0.10U
107-13-1	acrylonitrile	0.10U
71-43-2	benzene	0.01U
56-23-5	carbon tetrachloride	0.01U
108-90-7	chlorobenzene	0.01U
107-06-2	1,2-dichloroethane	0.01U
71-55-6	1,1,1-trichloroethane	0.01U
75-34-3	1,1-dichloroethane	0.01U
79-00-5	1,1,2-trichloroethane	0.01U
79-34-5	1,1,2,2-tetrachloroethane	0.01U
75-00-3	chloroethane	0.01U
110-75-8	2-chloroethylvinyl ether	0.01U
67-66-3	chloroform	0.01U
75-35-4	1,1-dichloroethene	0.01U
156-60-5	1,2-trans-dichloroethene	0.01U
78-87-5	1,2-dichloropropane	0.01U
10061-0X-XX	1,3-dichloropropiene	0.01U
100-41-4	ethylbenzene	0.01U
75-09-2	methylene chloride	0.01U
74-87-3	chloromethane	0.01U
74-83-9	bromomethane	0.01U
75-25-2	bromoform	0.01U
75-27-4	dichlorobromomethane	0.01U
75-69-4	trichlorofluoromethane	0.01U
75-71-8	dichlorodifluoromethane	0.01U
124-48-1	chlorodibromomethane	0.01U
127-18-4	tetrachloroethylene	0.01U
108-88-3	toluene	0.01U
79-01-6	trichloroethylene	0.01U
75-01-4	vinyl chloride	0.01U

	PESTICIDES	ug/g
309-00-2	aldrin	0.01U
60-57-1	dieldrin	0.01U
57-74-9	chlordane	0.01U
50-29-3	4,4'-DDT	0.01U
72-55-9	4,4'-DDE	0.01U
72-54-8	4,4'-DDD	0.01U
115-29-7	endosulfan I	0.01U
115-29-7	endosulfan II	0.01U
1031-07-8	endosulfan sulfate	0.01U
72-20-8	endrin	0.01U
7421-43-4	endrin aldehyde	0.01U
76-44-8	heptachlor	0.01U
1024-57-3	heptachlor epoxide	0.01U
319-84-6	BHC-Alpha	0.01U
319-85-7	BHC-Beta	0.01U
319-86-8	BHC-Delta	0.01U
58-89-9	BHC-Gama	0.01U
53469-21-9	PCB-1242	0.01U
11097-69-7	PCB-1254	0.01U
11104-28-2	PCB-1221	0.01U
11141-16-5	PCB-1232	0.01U
12672-24-6	PCB-1248	0.01U
11096-82-5	PCB-1260	0.01U
12674-11-2	PCB-1016	0.01U
8001-35-2	toxaphene	0.04U

	DIOXINS	
1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.01U

*Less than 0.2 ug/l
(pesticides less than, 0.01 ug/l)

AR100129

Lab Name: Mead CompuChem

Lab Sample I.D. No. 116115

SAMPLE NUMBER
CH1102-C13660

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	0.064	0.05	128
d-8-Toluene	VOA	0.066	0.05	132
Flucrophenol	A	1.198	2.5	48
d-6-Phenol	A	1.189	2.5	48
Pentafluorcphenol	A	0.974	2.5	39
d-5-Nitrobenzene	B/N	0.140	2.5	6
Fluorobiphenyl	B/N	1.114	2.5	45

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: MEAD COMPU/CHEM

LAB SAMPLE I.D. # 16615

EPA SAMPLE # C#1102-C1366

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/g)
1	293	88-99-3	1,2-Benzenedicarboxylic acid	ACID	97	3.1 EJ
2	349	629-99-2	Pentacosane	ACID	84	1.1
3	372	638-67-5	Tricosane	ACID	87	2.1
4	400	630-07-9	Pentatriacontane	ACID	86	3.9
5	439	638-67-5	Tricosane	ACID	85	5.5
6	495	630-07-9	Pentatriacontane	ACID	87	5.6
7	573	55333-99-8	7-Hexyl-Eicosane	ACID	83	5.3
8	683	630-07-9	Pentatriacontane	ACID	78	8.9
9				ACID		
10				ACID		

ORGANICS ANALYSIS DATA SHEET - Page 4

AB NAME: Road Compuchem

SB SAMPLE I.D. # 16615

SAMPLE # CH1102-C1366

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

FILM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATED CONC. (ug/
1	514	629-99-2	PENTACOSANE	B/N	71	8.7
2	535	"	"	B/N	84	11
3	555	"	"	B/N	87	13
4	575	"	"	B/N	83	13
5	593	"	"	B/N	86	2
6	612	"	"	B/N	86	22
7	630	"	"	B/N	86	17
8	648	638-67-5	TRICOSANE	B/N	85	17
9	660	"	PENTACOSANE	B/N	56	5.8
	671	"		B/N	85	15

AR100132

U.S. ENVIRONMENTAL PROTECTION AGENCY ... Region III ... General Office
... P.O. Box 818, Alexandria, VA 22313 ... 703/683-0885

Case 1102
Sample Number
01267

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC. Reported by: [illegible]

LAB SAMPLE ID NO. 25-394 Checked by: ADW

QC REPORT NO. 19 13. Downstream St. Jones River

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	ND
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

R67

EPA 3102
Sample Number
01367

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-394

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
95P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

DIOXINS

129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

R64

ND = Not detected

AR100134

25-394

19

C1367

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	35	100.	35 %
fluorophenol	Acid	57	100.	57 %
d5 nitrobenzene	B/N	61	100.	61 %
d8 naphthalene	B/N	52	100.	52 %
d5 pyridine	B/N	40	100.	40 %
d6 benzene	VOA	60	100.	40 %
d8 toluene	VOA	73	100.	73 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
18.				
19.				
20.				

R69

U.S. ENVIRONMENTAL PROTECTION AGENCY - EMSL Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/557-2585

Sample Number
C1250

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO., INC.

LAB SAMPLE ID NO. 25-390

QC REPORT NO. 19

Reported by:

Checked by: ADW

	ACID COMPOUNDS	ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	ND
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

	BASE/NEUTRAL COMPOUNDS	ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
13B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	ND
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	
67B	butyl benzyl phthalate	
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	370
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	

R43

Sample Number
C1350

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-390

QC REPORT NO. 19

	VOLATILES	ug/l
2V	acrolein	ND
3V	acrylonitrile	ND
4V	benzene	ND
6V	carbon tetrachloride	ND
7V	chlorobenzene	ND
10V	1,2-dichloroethane	ND
11V	1,1,1-trichloroethane	ND
13V	1,1-dichloroethane	ND
14V	1,1,2-trichloroethane	ND
15V	1,1,2,2-tetrachloroethane	ND
16V	chloroethane	ND
19V	2-chloroethylvinyl ether	ND
23V	chloroform	ND
29V	1,1-dichloroethylene	ND
30V	1,2-trans-dichloroethylene	ND
32V	1,2-dichloropropane	ND
33V	1,3-dichloropropylene	ND
38V	ethylbenzene	ND
44V	methylene chloride	ND
45V	methyl chloride	ND
46V	methyl bromide	ND
47V	bromoform	ND
48V	dichlorobromomethane	ND
49V	trichlorofluoromethane	ND
50V	dichlorodifluoromethane	ND
51V	chlorodibromomethane	ND
85V	tetrachloroethylene	ND
86V	toluene	ND
87V	trichloroethylene	ND
88V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l (pesticides less than 0.1 ug/l)

RAY

ND = Not detected

AR100137

(WEST) RESOURCE
25-350
19

1102
C1350

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d6 phenol	Acid	45	100.	45 %
fluorophenol	Acid	78	100.	78 %
d5 nitrobenzene	B/N	85	100.	85 %
d8 naphthalene	B/N	71	100.	71 %
d5 pyridine	B/N	77	100.	77 %
d6 benzene	VOA	108	100.	108 %
d8 toluene	VOA	118	100.	118 %

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP-PBS (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.			A95	
20.				

U.S. EPA
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

Sample Number
C1351

ORGANICS ANALYSIS DATA SHEET - Page 1

Laboratory Name Mead CompuChem
Case Number 1102
Lab Sample ID No. 110614
SC Report No. 41-125, 42-120, 46-126
Signature of Person Authorized to Release Data: R. D. Mello

	ACID COMPOUNDS	ug/g
88-06-2	2,4,6-trichlorophenol	0.2U
59-50-7	p-chloro-m-cresol	0.4U
95-57-8	2-chlorophenol	0.2U
122-83-2	2,4-dichlorophenol	0.2U
105-67-9	2,4-dimethylphenol	0.2U
88-75-5	2-nitrophenol	0.2U
100-02-7	4-nitrophenol	1.8U
51-28-5	2,4-dinitrophenol	0.8U
534-52-1	4,6 dinitro-o-cresol	0.4U
87-86-5	pentachlorophenol	0.5U
108-95-2	phenol	0.2U

	BASE/NEUTRAL COMPOUNDS	ug/g
83-32-9	acenaphthene	0.2U
92-87-5	benzidine	0.5U
120-82-1	1,2,4-trichlorobenzene	0.2U
118-74-1	hexachlorobenzene	0.2U
67-72-1	hexachloroethane	0.2U
111-44-4	bis(2-chloroethyl)ether	0.2U
91-58-7	2-chloronaphthalene	0.2U
95-50-1	1,2-dichlorobenzene	0.2U
541-73-1	1,3-dichlorobenzene	0.2U
106-46-7	1,4-dichlorobenzene	0.2U
91-94-1	3,3'-dichlorobenzidine	0.2U
121-14-2	2,4-dinitrotoluene	0.2U
606-20-2	2,6-dinitrotoluene	0.2U
	1,2-diphenylhydrazine	0.2U
122-66-7	(as azobenzene)	0.2U
206-44-0	fluoranthene	0.2U
7005-72-3	4-chlorophenyl phenyl ether	0.2U

	BASE/NEUTRAL COMPOUNDS	ug/g
101-55-3	4-bromophenyl phenyl ether	0.2U
39638-32-9	bis-(2-chloroisopropyl)ether	0.2U
111-91-1	bis(2-chloroethoxy)methane	0.2U
87-68-3	hexachlorobutadiene	0.2U
77-47-4	hexachlorocyclopentadiene	0.2U
78-59-1	isophorone	0.2U
91-20-3	naphthalene	0.2U
98-95-3	nitrobenzene	0.2U
NA	N-nitrosodimethylamine	NA
86-30-6	N-nitrosodiphenylamine	0.2U
621-64-7	N-nitrosodi-n-propylamine	0.2U
117-81-7	bis(2-ethylhexyl)phthalate	0.2U
85-68-7	butyl benzyl phthalate	0.2U
84-74-2	di-n-butyl phthalate	0.2U
117-84-0	di-n-octyl phthalate	0.2U
84-66-2	diethyl phthalate	0.20
131-11-3	dimethyl phthalate	0.2U
56-55-3	benzo(a)anthracene	0.2U
50-33-8	benzo(a)pyrene	0.2U
205-99-2	3,4-benzofluoranthene	0.5U
207-08-9	benzo(k)fluoranthene	0.2U
218-01-9	chrysene	0.2U
208-96-8	acenaphthylene	0.2U
120-12-7	anthracene	0.2U
191-24-2	benzo(ghi)perylene	0.5U
86-73-7	fluorene	0.2U
85-01-8	phenanthrene	0.5U
53-70-3	dibenzo(a,h)anthracene	0.5U
193-39-5	indeno(1,2,3-cd)pyrene	0.5U
129-00-0	pyrene	0.5U

ORGANICS ANALYSIS DATA SHEET-Page 2

Sample Number: C1351

Laboratory Name: Mead CompuChem

Case Number: 1102

Lab Sample ID NO.: 110101 4

QC Report No.: 41-128, 42-120, 46-126

	VOLATILES	ug/g
107-02-8	acrolein	0.10U
107-13-1	acrylonitrile	0.10U
71-43-2	benzene	0.01U
56-23-5	carbon tetrachloride	0.01U
108-90-7	chlorobenzene	0.01U
107-06-2	1,2-dichloroethane	0.01U
71-55-6	1,1,1-trichloroethane	0.01U
75-34-3	1,1-dichloroethane	0.01U
79-00-5	1,1,2-trichloroethane	0.01U
79-34-5	1,1,2,2-tetrachloroethane	0.01U
75-00-3	chloroethane	0.01U
110-75-8	2-chloroethylvinyl ether	0.01U
67-66-3	chloroform	0.01U
75-35-4	1,1-dichloroethene	0.01U
156-60-5	1,2-trans-dichloroethene	0.01U
78-87-5	1,2-dichloropropane	0.01U
10061-0X-XX	1,3-dichloropropiene	0.01U
100-41-4	ethylbenzene	0.01U
75-09-2	methylene chloride	0.17
74-87-3	chloromethane	0.01U
74-83-9	bromomethane	0.01U
75-25-2	bromoform	0.01U
75-27-4	dichlorobromomethane	0.01U
75-69-4	trichlorofluoromethane	0.01U
75-71-8	dichlorodifluoromethane	0.01U
124-48-1	chlorodibromomethane	0.01U
127-18-4	tetrachloroethylene	0.01U
108-88-3	toluene	0.01U
79-01-6	trichloroethylene	0.01U
75-01-4	vinyl chloride	0.01U

	PESTICIDES	ug/g
309-00-2	aldrin	0.01U
60-57-1	dieldrin	0.01U
57-74-9	chlordane	0.01U
50-29-3	4,4'-DDT	0.01U
72-55-9	4,4'-DDE	0.01U
72-54-8	4,4'-DDD	0.01U
115-29-7	endosulfan I	0.01U
115-29-7	endosulfan II	0.01U
1031-07-8	endosulfan sulfate	0.01U
72-20-8	endrin	0.01U
7421-43-4	endrin aldehyde	0.01U
76-44-8	heptachlor	0.01U
1024-57-3	heptachlor epoxide	0.01U
319-84-6	BHC-Alpha	0.01U
319-85-7	BHC-Beta	0.01U
319-86-8	BHC-Delta	0.01U
58-89-9	BHC-Gama	0.01U
53469-21-9	PCB-1242	0.01U
11097-69-7	PCB-1254	0.01U
11104-28-2	PCB-1221	0.01U
11141-16-5	PCB-1232	0.01U
12672-24-6	PCB-1248	0.01U
11096-82-5	PCB-1260	0.01U
12674-11-2	PCB-1016	0.01U
8001-35-2	toxaphene	0.04U

DIOXINS

	2,3,7,8-tetrachlorodibenzo-	
1746-01-6	p-dioxin	0.01U

*Less than 0.2 ug/l
(pesticides less than, 0.01 ug/l)

AR100140

Lab Name: Mead CompuChem

Lab Sample I.D. No. 116614

SAMPLE NUMBER
C41102-C1351

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/g)	(Surrogates only) Spike Added (ug/g)	% Recovery
d-6-Benzene	VOA	0059	0.05	118
d-8-Toluene	VOA	0.060	0.05	120
Fluorophenol	A	2.079	2.5	83
d-6-Phenol	A	1.957	2.5	78
Pentafluorophenol	A	1.627	2.5	65
d-5-Nitrobenzene	B/N	1.809	2.5	72
Fluorobiphenyl	B/N	2.518	2.5	101

ORGANICS ANALYSIS DATA SHEET - Page 4

LAB NAME: MEAD COMPU/CHEM

LAB SAMPLE I.D. # 16614

EPA SAMPLE # C#1102-C1351

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	FRACTION	% PURITY	ESTIMATE CONC.(ug/L)
1	61	771-61-9	Phenol, Pentafluoro	ACID	78	0.21
2				ACID		
3				ACID		
4				ACID		
5				ACID		
6				ACID		
7				ACID		
8				ACID		
9				ACID		
10				ACID		

AR100142

P.O. Box 818 – Alexandria, Virginia 22313
703-557-2490 FTS 8-557-2490

Well | MC 8932

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JUN 22 1982

INORGANICS ANALYSIS DATA SHEET

LABORATORY NAME: Lab. of Radiation Ecology of University of Washington Seattle, Envirosphere, Inc.

CASE NO.: 1102

LAB SAMPLE ID. NO.: _____

QC REPORT NO.: 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	17.6	11.	Manganese	69.4
2.	Chromium	<D.L.	12.	Zinc	764
3.	Barium	2120	13.	Boron	1670
4.	Beryllium	<D.L.	14.	Vanadium	[6.8]
5.	Cadmium	1.3			
6.	Cobalt	37.0			mg/l or mg/kg (circle one)
7.	Copper	121			
8.	Iron	1710	15.	Calcium	3.03
9.	Lead	[0.8]	16.	Magnesium	38.5
	Nickel	71.5	17.	Sodium	191

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
* 1.	Arsenic	<D.L.	* 5.	Mercury	<D.L.
* 2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : Less than detection limit, L.R.E.
[ ] : Less than detection limit, E.P.A.
* : QC-12

RECEIVED Reg. III
JUN 24 1982
ecology and environment, inc.

P.O. Box 818 — Alexandria, Virginia 22313
703/557-2490 FTS 8-557-2490

MC8933

INORGANICS ANALYSIS DATA SHEET

Racetrack Pond #2

LABORATORY NAME: Lab. of Radiation Ecology, University of Washington, Seattle

CASE NO. 1102

LAB SAMPLE ID. NO. _____

QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	100	11.	Manganese	55.5
2.	Chromium	<D.L.	12.	Zinc	26.8
3.	Barium	26.8	13.	Boron	650
4.	Beryllium	<D.L.	14.	Vanadium	<D.L.
*5.	Cadmium	1.5			
6.	Cobalt	<D.L.			mg/l or mg/kg (circle one)
7.	Copper	32.4			
8.	Iron	143	15.	Calcium	8.71
9.	Lead	<D.L.	16.	Magnesium	5.22
10.	Nickel	[9.7]	17.	Sodium	13.4

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	<D.L.	*5.	Mercury	<D.L.
*2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: <D.L.: Less than detection limit, L.R.E.
[ ]: Less than detection limit, E.P.A.

AR100144

P.O. Box 818 – Alexan...
703/557-2490 FTS 8-557-2490

1C8934

INORGANICS ANALYSIS DATA SHEET St. Jones River Loop #3

LABORATORY NAME: Lab. of Radiation Ecology University of Washington Seattle

CASE NO. ~~1102~~ 1102

LAB SAMPLE ID. NO. _____

QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	505	11.	Manganese	238
2.	Chromium	<D.L.	12.	Zinc	243
3.	Barium	52.9	13.	Boron	683
4.	Beryllium	<D.L.	14.	Vanadium	149
5.	Cadmium	2.3			
6.	Cobalt	2.7			mg/l or mg/kg (circle one)
7.	Copper	47.0			
8.	Iron	1970	15.	Calcium	22.8
9.	Lead	9.2	16.	Magnesium	24.7
10.	Nickel	(13.2)	17.	Sodium	133

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	<D.L.	*5.	Mercury	<D.L.
*2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : Less than detection limit, L.R.E.
[ ] : Less than detection limit, E.P.A.

AR100145

* : QC-12

HEHF Sample Management Office
P.O. Box 818 – Alexandria, Virginia 22313
703/557-2490 FTS 8-557-2490

Sample No.
~~MC0001~~ S.
MC0937

INORGANICS ANALYSIS DATA SHEET West Leachate (aqueous) #1

LABORATORY NAME: Lab. of Radiation Ecology University of Washington Seattle
CASE NO. ~~1102~~ 1102
LAB SAMPLE ID. NO. _____
QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

			ug/l or mg/kg (circle one)				ug/l or mg/kg (circle one)
1.	Aluminum	2030		11.	Manganese	1520	
2.	Chromium	30.3		12.	Zinc	4250	
3.	Barium	636		13.	Boron	1310	
4.	Beryllium	35.0		14.	Vanadium	58.2	
5.	Cadmium	16					
6.	Cobalt	42.3					mg/l or mg/k (circle one)
7.	Copper	36.8					
8.	Iron	201000		15.	Calcium	62.6	
9.	Lead	147		16.	Magnesium	29.7	
10.	Nickel	97.8		17.	Sodium	83.1	

TASK 2 (Elements to be identified and measured.)

			ug/l or mg/kg (circle one)				ug/l or mg/k (circle one)
* 1.	Arsenic	<D.L.		* 5.	Mercury	<D.L.	
* 2.	Antimony	<D.L.		6.	Tin	<D.L.	
3.	Selenium	<D.L.		7.	Silver	<D.L.	
4.	Thallium	<D.L.					

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : less than detection limit, L.R.E.
[ ] : less than detection limit, E.P.A.
* : QC-12

AR100146

P.O. Box 818 – Alexandria, Virginia 22313
703/557-2490 FTS 8-557-2490

~~21-8935~~
MC

INORGANICS ANALYSIS DATA SHEET Mitten Well #5

LABORATORY NAME Lab. of Radiation Ecology University of Washington Seattle CASE NO. 1102

LAB SAMPLE ID. NO. _____ QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	32.0	11.	Manganese	64.2
2.	Chromium	<D.L.	12.	Zinc	45.6
3.	Barium	381	13.	Boron	44.3
4.	Beryllium	<D.L.	14.	Vanadium	<D.L.
5.	Cadmium	<D.L.			
6.	Cobalt	<D.L.			
7.	Copper	73.2			mg/l or mg/kg (circle one)
8.	Iron	91.3	15.	Calcium	4.81
9.	Lead	2.4	16.	Magnesium	5.33
	Nickel	[7.7]	17.	Sodium	4.20

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Arsenic	<D.L.	* 5.	Mercury	<D.L.
*2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : less than detection limit, L.R.E.
[ ] : less than detection limit, E.P.A.
*: QC12

AR100147

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703/557-2490 FTS 8-557-2490

(Old)

Sample No.
MC8936

INORGANICS ANALYSIS DATA SHEET

North Leachate (aqueous)

LABORATORY NAME: Lab. of Radiation Ecology University of Washington Seattle

CASE NO. 1102

LAB SAMPLE ID. NO.

QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/l (circle one)
1.	Aluminum	641	11.	Manganese	760
2.	Chromium	24.0	12.	Zinc	929
3.	Barium	459	13.	Boron	1370
4.	Beryllium	21.5	14.	Vanadium	45.7
* 5.	Cadmium	24			
6.	Cobalt	26.6			mg/l or mg/ (circle one
7.	Copper	30.4			
8.	Iron	125000	15.	Calcium	116
9.	Lead	120	16.	Magnesium	45.2
10.	Nickel	87.6	17.	Sodium	124

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/ (circle one
*1.	Arsenic	25	*5.	Mercury	< D.L.
*2.	Antimony	< D.L.	6.	Tin	< D.L.
3.	Selenium	< D.L.	7.	Silver	< D.L.
4.	Thallium	< D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : Less than detection limit, L.R.E.
[ ] : Less than detection limit, E.P.A.
* QC-12

AR100148

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Sample No. MC8938

INORGANICS ANALYSIS DATA SHEET North Leachate Sediment #7

LABORATORY NAME: Lab. of Radiation Ecology University of Washington Seattle
CASE NO. 1102
LAB SAMPLE ID. NO. _____
QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	111	11.	Manganese	22.8
2.	Chromium	[0.79]	12.	Zinc	43.8
3.	Barium	46.6	13.	Boron	87.1
4.	Beryllium	[0.77]	14.	Vanadium	1.79
* 5.	Cadmium	4.3			
6.	Cobalt	1.51			mg/l or mg/kg (circle one)
7.	Copper	5.77			
8.	Iron	4670	15.	Calcium	2010
	Lead	36.9	16.	Magnesium	188
	Nickel	2.57	17.	Sodium	507

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	< D.L.	* 5.	Mercury	0.155
*2.	Antimony	< D.L.	6.	Tin	< D.L.
3.	Selenium	< D.L.	7.	Silver	< D.L.
4.	Thallium	< D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : Less than detection limit, L.R.E.
[ ] : Less than detection limit, E.P.A.
* : QC-12

AR100149

...S ENVIRONMENTAL ... AGENCY
HW Sample Management Office
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703/557-2490 FTS 8-557-2490

...TIAL (Red)

Sample No. MC8940

INORGANICS ANALYSIS DATA SHEET Upstream St. Jones River

LABORATORY NAME Lab. of Radiation Ecology University of Washington Seattle

CASE NO. 1102

LAB SAMPLE ID. NO. _____

QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/ (circle one
1.	Aluminum	515	11.	Manganese	217
2.	Chromium	<D.L.	12.	Zinc	50.3
3.	Barium	57.2	13.	Boron	827
4.	Beryllium	<D.L.	14.	Vanadium	13.6
5.	Cadmium	<D.L.			
6.	Cobalt	<D.L.			mg/l or mg/ (circle one
7.	Copper	32.9			
8.	Iron	2010	15.	Calcium	17.3
9.	Lead	9.2	16.	Magnesium	21.3
	Nickel	[12.5]	17.	Sodium	125

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/ (circle one
* 1.	Arsenic	<D.L.	*5.	Mercury	<D.L.
*2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: <D.L.: less than detection limit, L.R.E.
[ ]: Less than detection limit, E.P.A.
*: QC-12

AR100150

Field Sample Management Office
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1768942

INORGANICS ANALYSIS DATA SHEET Drum Pond #9

LABORATORY NAME Lab. of Radiation Ecology University of Washington Seattle CASE NO. 1102

LAB SAMPLE ID. NO. _____ QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	114	11.	Manganese	117
2.	Chromium	<D.L.	12.	Zinc	83.4
3.	Barium	77.6	13.	Boron	1460
4.	Beryllium	[1.2]	14.	Vanadium	<D.L.
*5.	Cadmium	[0.5]			
6.	Cobalt	<D.L.			mg/l or mg/k (circle one)
7.	Copper	36.5			
8.	Iron	8888	15.	Calcium	21.7
*9.	Lead	4.6	16.	Magnesium	4.94
	Nickel	[16.0]	17.	Sodium	37.9

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	<N.L.	*5.	Mercury	<D.L.
*2.	Antimony	<N.L.	6.	Tin	<N.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: <D.L.: Less than detection limit, L.R.E.
[ ]: Less than detection limit, E.P.A.
*: ~~<D.L.~~ QC12

AR100151

HRT Sample Management Office
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703/557-2490 FTS 8-557-2490

Sample No. MC8943

INORGANICS ANALYSIS DATA SHEET Hunn's Deep Well

#10

LABORATORY NAME: Lab. of Radiation Ecology University of Washington Seattle

CASE NO. 1102

LAB SAMPLE ID. NO. _____

QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	64.9	11.	Manganese	41.5
2.	Chromium	<D.L.	12.	Zinc	108
3.	Barium	<D.L.	13.	Boron	625
4.	Beryllium	<D.L.	14.	Vanadium	<D.L.
5.	Cadmium	<D.L.			
6.	Cobalt	<D.L.			
7.	Copper	15.6			mg/l or mg/kg (circle one)
8.	Iron	712	15.	Calcium	31.0
9.	Lead	<D.L.	16.	Magnesium	4.86
10.	Nickel	[5.5]	17.	Sodium	12.3

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	<D.L.	*5.	Mercury	<D.L.
*2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: <D.L.: less than detection limit, L.R.E.
[ ]: less than detection limit, E.P.A.
*: ~~Dupe~~ J.S. QC-12

AR100152

P.O. Box 818 — Alexandria, Virginia 22313
703/557-2490 FTS 8-557-2490

MCF946

INORGANICS ANALYSIS DATA SHEET South Leachate (aqueous) # 11

LABORATORY NAME: Lab. of Radiation Ecology University of Washington Seattle
CASE NO. 1102
LAB SAMPLE ID. NO. _____
QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	3100	11.	Manganese	1260
2.	Chromium	22.9	12.	Zinc	743
3.	Barium	414	13.	Boron	1211
4.	Beryllium	19.3	14.	Vanadium	30.9
*5.	Cadmium	14			
6.	Cobalt	21.3			mg/l or mg/kg (circle one)
7.	Copper	55.7			
8.	Iron	112000	15.	Calcium	57.8
*9.	Lead	225	16.	Magnesium	36.4
	Nickel	50.3	17.	Sodium	126

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	<D.L.	*5.	Mercury	1.5
2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<DL.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : less than detection limit, L.R.E.
[ ] : less than detection limit, E.P.A.
* QC-12

AR100153

US ENVIRONMENTAL PROTECTION AGENCY
HWI Sample Management Office
P.O. Box 818 – Alexandria, Virginia 22313
703/557-2490 FTS 8-557-2490

Sample No.
MC 8944

INORGANICS ANALYSIS DATA SHEET South Leachate Sediment

LABORATORY NAME Lab. of Radiation Ecology University of Washington Seattle
CASE NO. 1102
LAB SAMPLE ID. NO.
QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	110	11.	Manganese	25.5
2.	Chromium	<D.L.	12.	Zinc	24.0
3.	Barium	6.78	13.	Boron	64.0
4.	Beryllium	0.23	14.	Vanadium	14.9
*5.	Cadmium	43			
6.	Cobalt	<D.L.			
7.	Copper	[1.59]			mg/l or mg/kg (circle one)
8.	Iron	1340	15.	Calcium	633
9.	Lead	94.9	16.	Magnesium	243
10.	Nickel	[1.13]	17.	Sodium	283

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
*1.	Arsenic	<D.L.	*5.	Mercury	0.185
*2.	Antimony	<D.L.	6.	Tin	<D.L.
3.	Selenium	<D.L.	7.	Silver	<D.L.
4.	Thallium	<D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L.: less than detection limit, L.R.F.
[ ]: less than detection limit, E.P.
*: QC-12

AR100154

HW] Sample Management Office
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MCC 745

INORGANICS ANALYSIS DATA SHEET Downstream of Jones River #13

LABORATORY NAME Lab. of Radiation Ecology University of Washington Seattle CASE NO. 1102

LAB SAMPLE ID. NO. _____ QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	558	11.	Manganese	250
2.	Chromium	< D.L.	12.	Zinc	722
3.	Barium	57.2	13.	Boron	183
4.	Beryllium	< D.L.	14.	Vanadium	17.9
5.	Cadmium	12.0			
6.	Cobalt	< D.L.			mg/l or mg/k (circle one)
7.	Copper	146			
8.	Iron	2530	15.	Calcium	31.0
9.	Lead	14.1	16.	Magnesium	20.1
	Nickel	[13.5]	17.	Sodium	103

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
* 1.	Arsenic	< D.L.	* 5.	Mercury	< D.L.
† 2.	Antimony	< D.L.	6.	Tin	< D.L.
3.	Selenium	< D.L.	7.	Silver	< D.L.
4.	Thallium	< D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : Less than detection limit, L.R.E.
[ ] : Less than detection limit, E.P.A.
* : QC-12

AR100155

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703/557-2490 FTS 8-557-2490

MC 8939

INORGANICS ANALYSIS DATA SHEET

Blank (aqueous)

LABORATORY NAME: Lab. of Radiation Ecology, University of Washington, Seattle CASE NO. 1102

LAB SAMPLE ID. NO. _____ QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	33.7	11.	Manganese	< D.L.
2.	Chromium	< D.L.	12.	Zinc	< D.L.
3.	Barium	< D.L.	13.	Boron	339
4.	Beryllium	< D.L.	14.	Vanadium	< D.L.
5.	Cadmium	1.1			
6.	Cobalt	< D.L.			mg/l or mg/kg (circle one)
7.	Copper	30.3			
8.	Iron	52.8	15.	Calcium	0.150
9.	Lead	< D.L.	16.	Magnesium	0.015
10.	Nickel	< D.L.	17.	Sodium	0.659

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
* 1.	Arsenic	[N.D.]	* 5.	Mercury	< D.L.
* 2.	Antimony	[N.D.]	6.	Tin	[N.D.]
3.	Selenium	< D.L.	7.	Silver	< D.L.
4.	Thallium	< D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L.: less than detection limit, L.R.E.
[ ]: less than detection limit, E.P.A.
*: QC-12

AR100156

Sample Management
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703/557-2490 FTS 8-557-2490

MC894/

INORGANICS ANALYSIS DATA SHEET Blank (sediment - 802)

LABORATORY NAME Lab. of Radiation Ecology University of Washington Seattle CASE NO. 1102

LAB SAMPLE ID. NO. _____ QC REPORT NO. 13

TASK 1 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/kg (circle one)
1.	Aluminum	< D.L.	11.	Manganese	< D.L.
2.	Chromium	< D.L.	12.	Zinc	< D.L.
3.	Barium	< D.L.	13.	Boron	525
4.	Beryllium	< D.L.	14.	Vanadium	< D.L.
* 5.	Cadmium	< D.L.			
6.	Cobalt	< D.L.			mg/l or mg/k (circle one)
7.	Copper	< D.L.			
8.	Iron	< D.L.	15.	Calcium	0.019
* 9.	Lead	< D.L.	16.	Magnesium	0.009
	Nickel	< D.L.	17.	Sodium	1.20

TASK 2 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)			ug/l or mg/k (circle one)
* 1.	Arsenic	< D.L.	* 5.	Mercury	< D.L.
* 2.	Antimony	< D.L.	6.	Tin	< D.L.
3.	Selenium	< D.L.	7.	Silver	< D.L.
4.	Thallium	< D.L.			

TASK 3 (Elements to be identified and measured.)

		ug/l or mg/kg (circle one)
1.	Ammonia	
2.	Cyanide	
3.	Sulfide	

COMMENTS: < D.L. : less than detection limit, L.R.E.
[ ] : less than detection limit, E.P.A.
* : < D.L. QC12
2/12

AR100157

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

ORIGINAL
(red)

PHOTOGRAPHIC LOG

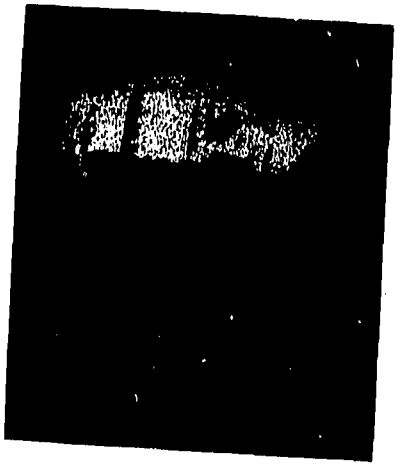


Photo 1 - Pond located on the west side of the site near the oil and construction companies. Taken from the N. E. corner of the pond at the leachate/bog area.

#1

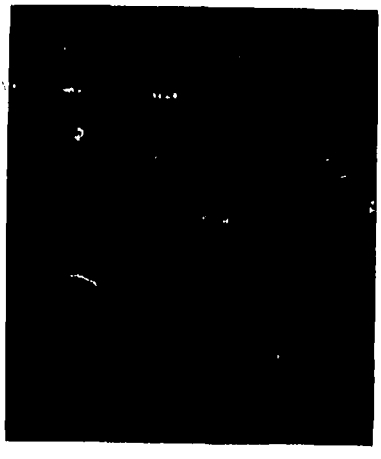


Photo 2 - Same pond, showing area to the north of photo #1 taken from same location as photo #1.

#2

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

ORIGINAL
(Red)

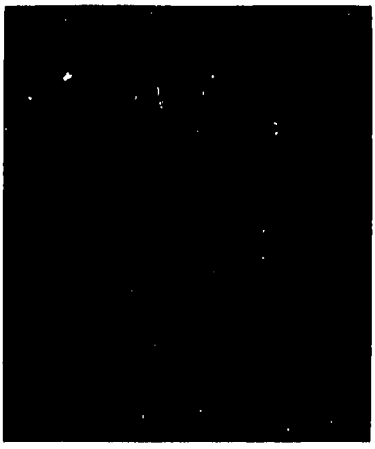


Photo 3 - Northmost end of the pond, the bog area showing reddish leachate. Taken from same location as photos #1 &2.

3

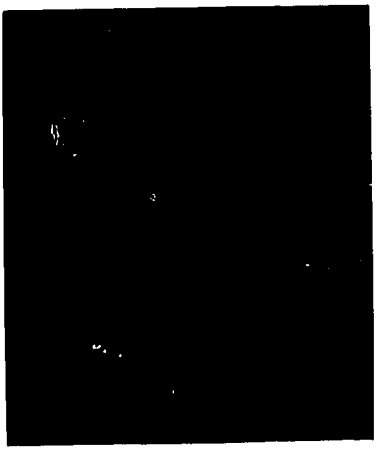
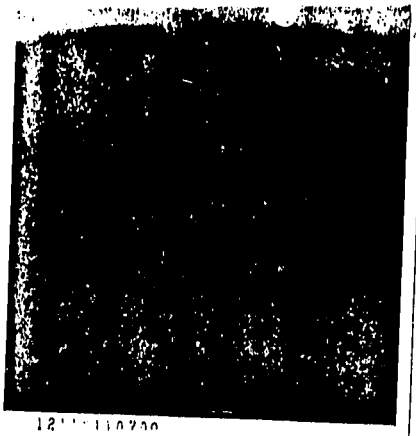


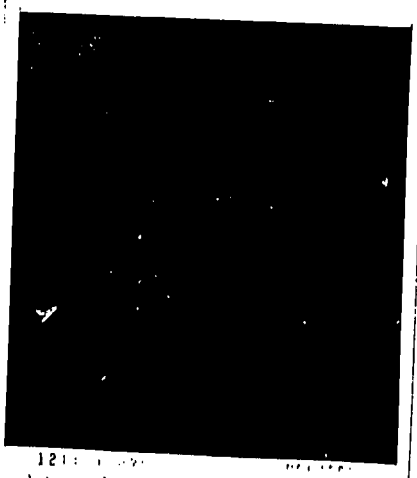
Photo 4 - The bog at the north end of the pond from another viewpoint. Photo taken from eastern bank of pond.

4



#3 SWAMP IN NORTH POND
WILDCAT F-3-8205-01 EPA DE-11
6/3/82

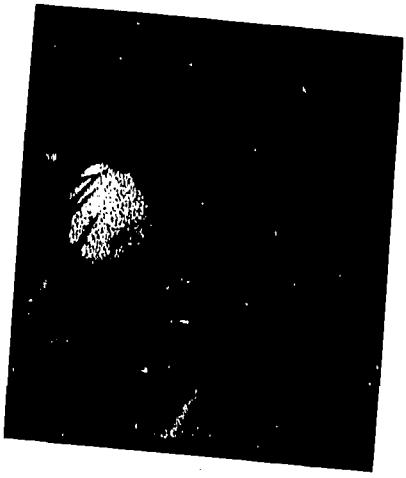
ORIGINAL



#4 SWAMP IN NORTH POND
WILDCAT F-3-8205-01 EPA DE-11
6/3/82

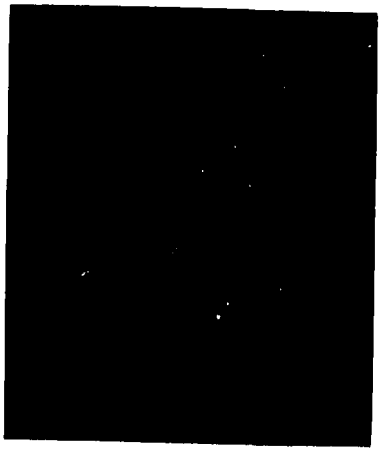
(Red)

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11



#5

Photo 5 - FITM Beth Gross, taking leachate sample at the bog in the N.E. corner of the pond. Taken from eastern bank of the pond.



#6

Photo 6 - FIT van and owner's garages and main access road; looking west. Photo taken from main access route at a location which is the same distance from the van as the pond sampling point.

(Red)

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

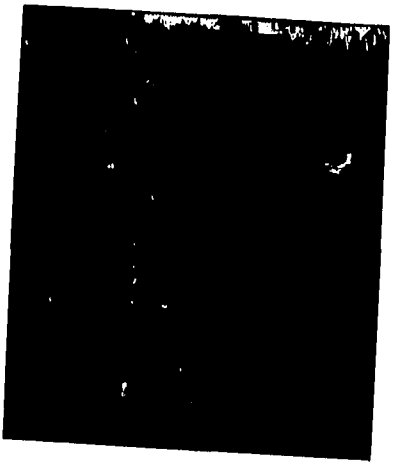


Photo 7 - Drums and other waste in an area near the southwest corner of the swamp in the center of the site. Photo taken from south bank of the swamp.

#7

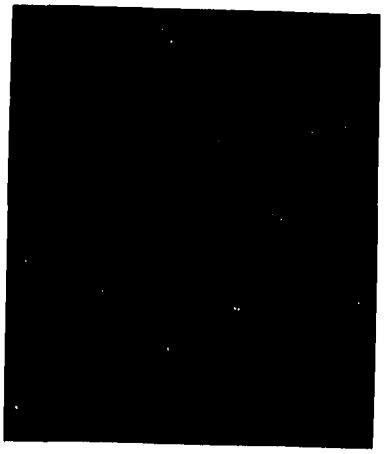


Photo 8 - Drums and other waste in the S.W. corner of the central swamp. Photo shows area south of the area shown in photo #7. Taken from the same location as photo #7.

#8

Wildcat Landfill
TDD No. F3-8205-01
EPA No. DE-11

Photo 9 - S.W. corner of the swamp, the area south of what is shown in photo #10. Taken from approximately the same location as photos #7 & 8.

#9

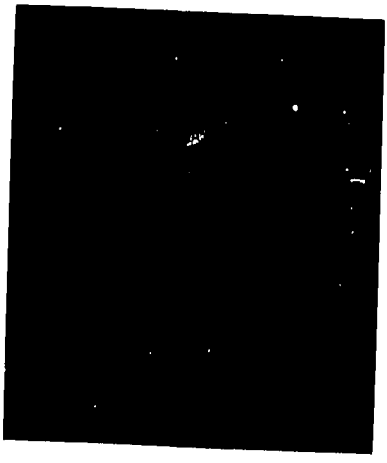


Photo 10 - FITM, Beth Gross, taking water sample; the same location as shown in photo #8. Taken from the same location as photo #8.

#10

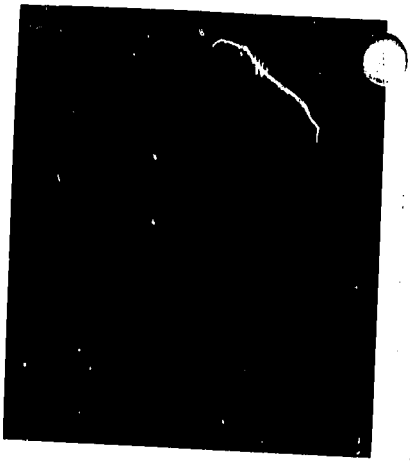


Photo 11 - "Styrofoam" material in S.W. corner of central swamp (shown from a distance in photo #9). Taken from south bank of swamp.

11

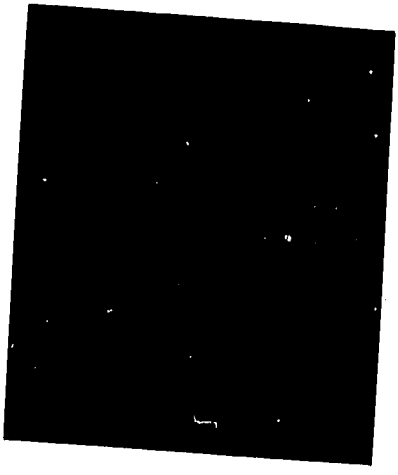
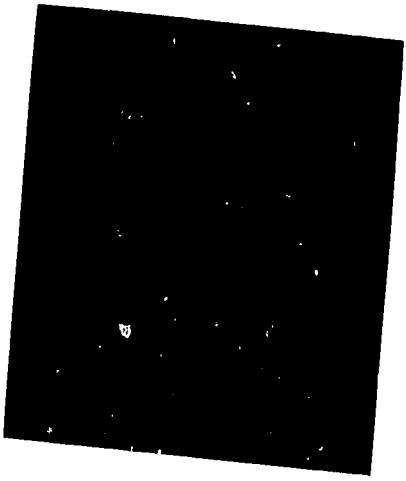


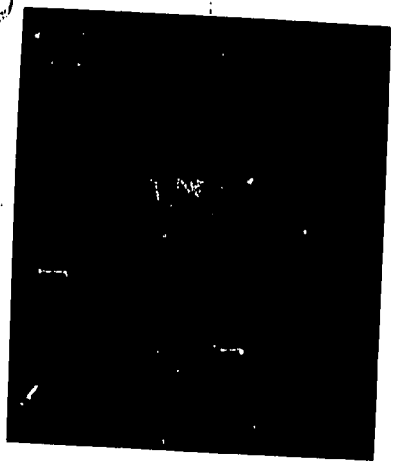
Photo 12 - Drums and other wastes dumped at the west edge of the central swamp. The photo was taken from the center of the drum area on the west bank.

12



#13

Photo 13 - "Latex" dump on west bank of central swamp. Photo shows area south of that shown in photo #12. Taken from same location as photo #12.



#14

Photo 14 - Drum dump area south of that shown in photos #12 & 13. Taken from the same location as photos #12 & 13.

ORIGINAL
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Wildcat Landfill
TDD No. F3-8205-01
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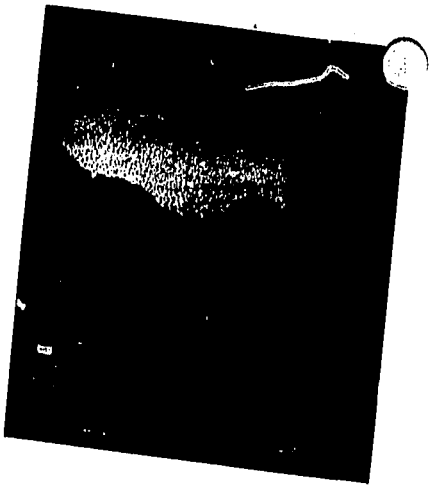
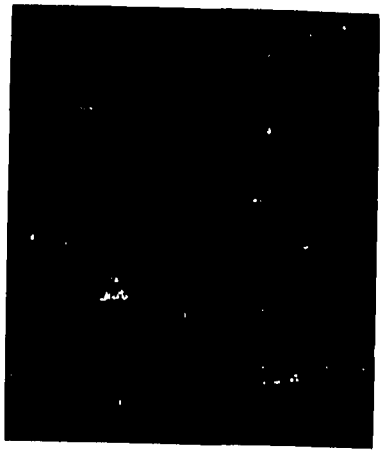


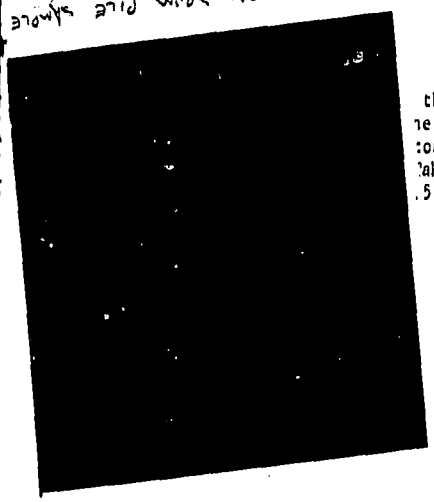
Photo 15 - Northern extension of the landfill, the section directly attached to the main fill (looking north at the extension). Taken from the main fill area about 50 yds. away from the southwest corner of the central swamp.

#15



#16

Photo 16 - Central swamp with mobile homes (across the river) in the background. Taken from the same location as photo #15.



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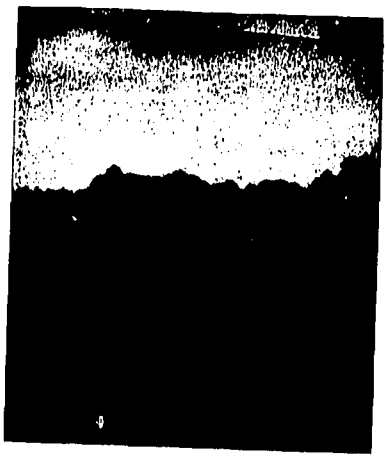
Taken from
.5 & 16.



17

Photo 18 - Waste drums, ponded water and dumped "latex" at the drum dump in the central area of the main fill area. Taken from the ridge above the drums west of drums.

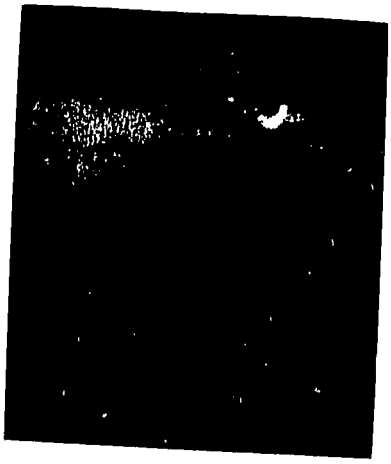
#19

Photo 19 - Sampling location at south edge of main fill area, looking out towards the river loop. Sampling done at bog between fill and river. Taken from south bank of fill.

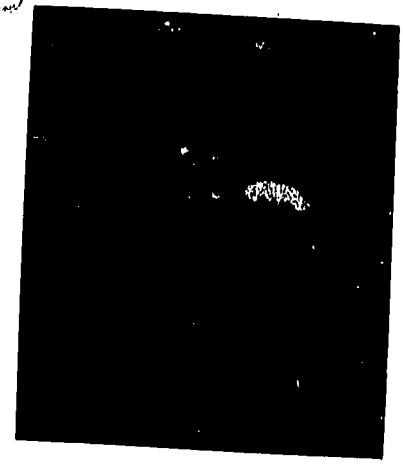
#20

Photo 20 - Main access area of fill, looking east at landfill. Taken from FIT van near garage.

Photo 21 - South edge of landfill, bog and river loop looking southeast. Taken from FIT van near garage.



#21



#22

Photo 22 - FITM, Doug Taylor, taking water sample at "downstream" location of Saint Jones River along road north of Lebanon (north of foot bridge). Taken from road.