L0370000000 - DeKalb Co.
SANDWICH PWS #1 & #2/
GARLAND'S FURNITURE SHOWROOM
ILD981956527

US EPA RECORDS CENTER REGION 5
412156

CERCLA
Screening Site Inspection Report

Illinois Environmental Protection Agency
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1. INTRODUCTION

Illinois Environmental Protection Agency's Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Sandwich Public Water Supply/Garland's Furniture Showroom site.

The site was initially discovered by the Illinois Environmental Protection Agency (IEPA). The site was evaluated in the form of a Preliminary Assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Tom Enno of the IEPA and is dated May 18, 1987. IEPA Pre-Remedial Unit prepared an SSI workplan of the Sandwich/Garland's site that was approved by U.S. EPA. The SSI of this site was conducted on August 30, 1988. The IEPA SSI included an interview with a site owner, a reconnaissance inspection, monitor well installation and the collection of nine samples (two waste, three soil and four groundwater).

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

WHEN ROUTINE SAMPLING OF THE WATER SUPPLY FROM PUBLIC WELLS 1 & 2 OF THE SANDWICH PUBLIC WATER SUPPLY SYSTEM, PROVED TO BE CONTAMINATED.

> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (U.S. EPA 1988).

U.S. EPA Region V has also instructed IEPA to identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

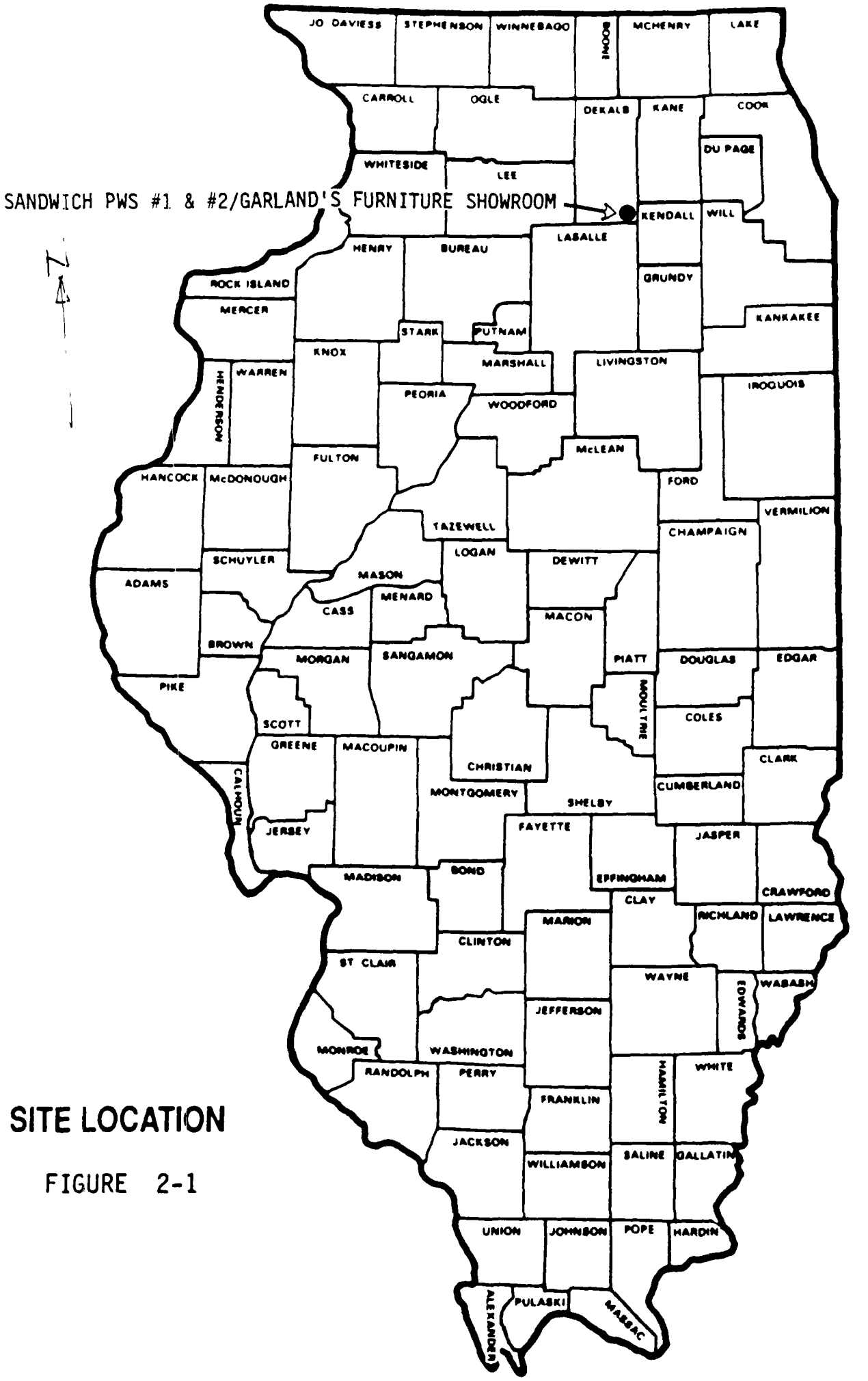
2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from the SSI workplan preparation and site representative interviews.

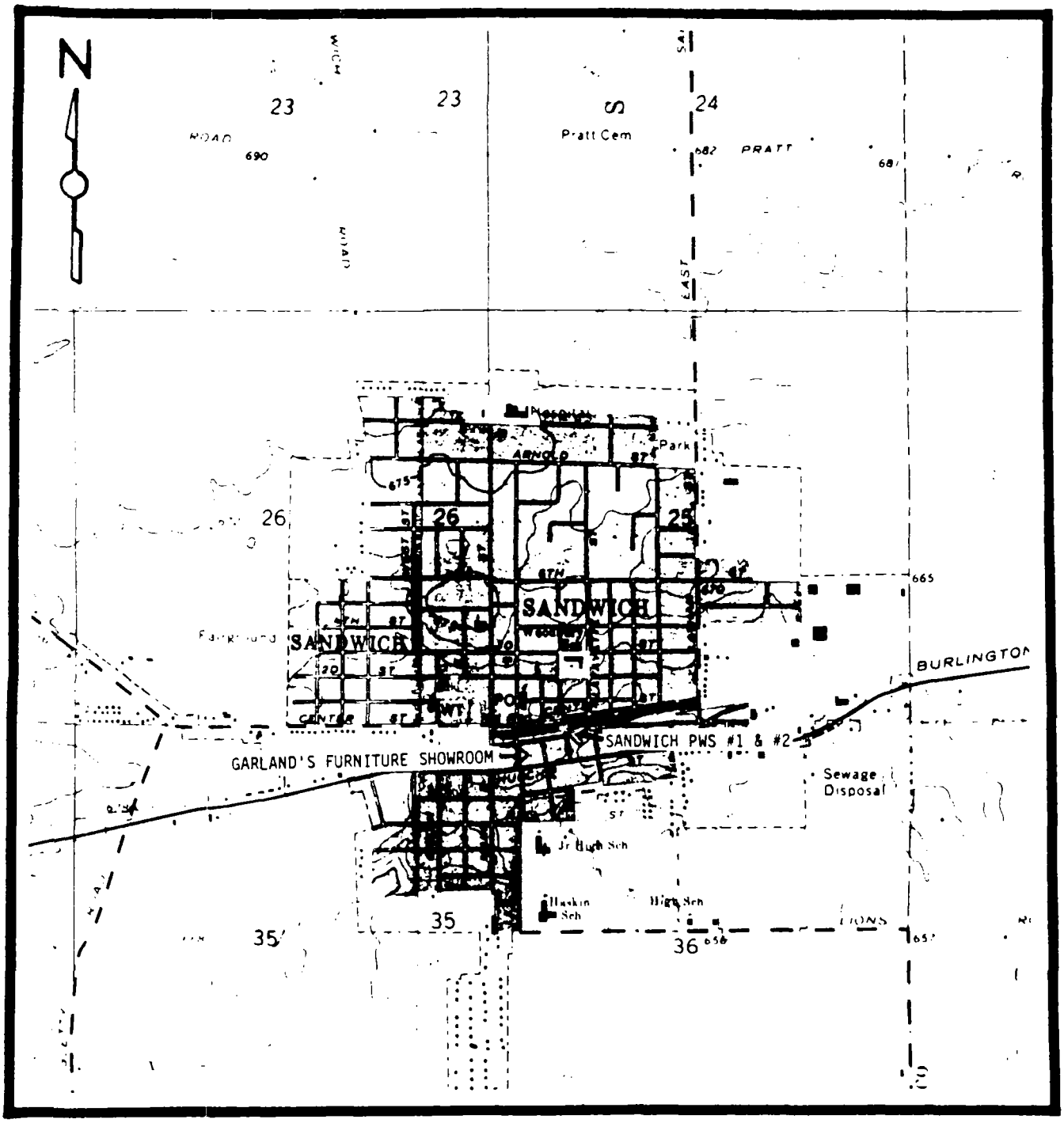
2.2 SITE DESCRIPTION

The Sandwich PWS/AKA: Garland's Furniture Showroom site is an active operation which sells all types of home furnishings. The store occupies 75% of the piece of property in question. The remaining 25% on the east portion is a gravel parking lot. Total property area consists of about three acres. The contaminated public water supply wells are located approximately 800 feet northeast of the furniture store at the Sandwich Water Plant. The furniture store property is located one block east of Main Street on Illinois State Route 34 (Church Street) in the downtown area of Sandwich, Illinois in DeKalb County (Figure 2-1) (NE 1/4, NW 1/4, NW 1/4, Sec. 36, T.37N - R.5E) (Figure 2-2). For potential groundwater migration a 4-mile radius map surrounding the Sandwich/Garland's site is provided in Appendix A.



SITE LOCATION

FIGURE 2-1



SOURCE: IEPA 1988; BASE MAP: USGS Plano & Somonauk, Il. Quadrangle 1971, 7.5 Minute Series

SITE MAP

FIGURE 2-2

2.3 SITE HISTORY

The site property is currently owned by Mr. Raymond H. Shuck of Sandwich, Illinois. The site was purchased in 1979 from the C.T.S. Knights Company of Sandwich. C.T.S. owned the site from 1938 to 1979.

The Illinois Environmental Protection Agency's (IEPA) Pre-Remedial Unit became involved with the Sandwich Public Water Supply when routine sampling event analysis determined there was trichloroethlyene entering public wells 1 and 2. Subsequent sampling showed concentrations ranging from 2 to 31 parts per billion (ppb) trichloroethylene in both wells. The two wells are less than fifty feet apart and are drilled into Combrian Age sand and limestone.

Well number 1 was completed in 1911 and drilled to 600'. The well is located inside the water plant building north of the intersection of Railroad Street and Clark Street in Sandwich. A 12" steel casing extends from ground level to a depth of 139' below ground level, penetrating 8' into the limestone/dolomite bedrock. The well is open hole construction from 139' to 600'. There is no information on grout sealing. Well number 2 was completed in 1939 and drilled to 600'. This well is located at the northwest corner of the water plant building approximately 50' northwest of well number 1. Well 2 consists of 12" steel casing extending from ground level to a depth of 156', penetrating 16' into the limestone/dolomite bedrock. Casing is also at a depth of 301' to 396' with the remainder of the well being open hole construction.

The water supply system is owned and operated by the City of Sandwich and serves the entire City. Water obtained from these two wells, plus an additional well, number three, is flouridated, chlorinated and discharged to an underground reservoir of 26,000 gallon capacity and an elevated storage tank of 300,000 gallon capacity then to the distribution system.

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the SSI at the Sandwich PWS/Garland's Furniture Showroom site, including monitor well installation. Individual subsections address the site representative interview, reconnaissance inspection, monitor well installation, monitor well data and sampling procedures. The SSI was conducted in accordance with the U.S. EPA-approved workplan.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Sandwich/Garland's site is provided in Appendix B. The U.S. EPA Immediate Removal Action checksheet for the site is provided in Appendix C.

3.2 SITE REPRESENTATIVE INTERVIEW

Ken Corkill, IEPA team leader, conducted an interview with Mr. Dan Gilbert, Sandwich water and sewer superintendent, Mr. Darrel Lohmeier, City Engineer and Mr. Fred Wehling, Mayor of Sandwich in Sandwich, Illinois. The interviews were conducted at the site on Pearl & Church Streets and at the sewage treatment plant on July 13, 1988 at 1:00 p.m.

The interview was conducted to inform the City of IEPA's intentions. The goals of the investigation were explained at the sewage treatment plant. The plans involved the installation of four monitor wells to determine groundwater flow, local geology and the possible source and extent of contamination. IEPA personnel left Sandwich at 3:30 p.m.

3.3 RECONNAISSANCE INSPECTION

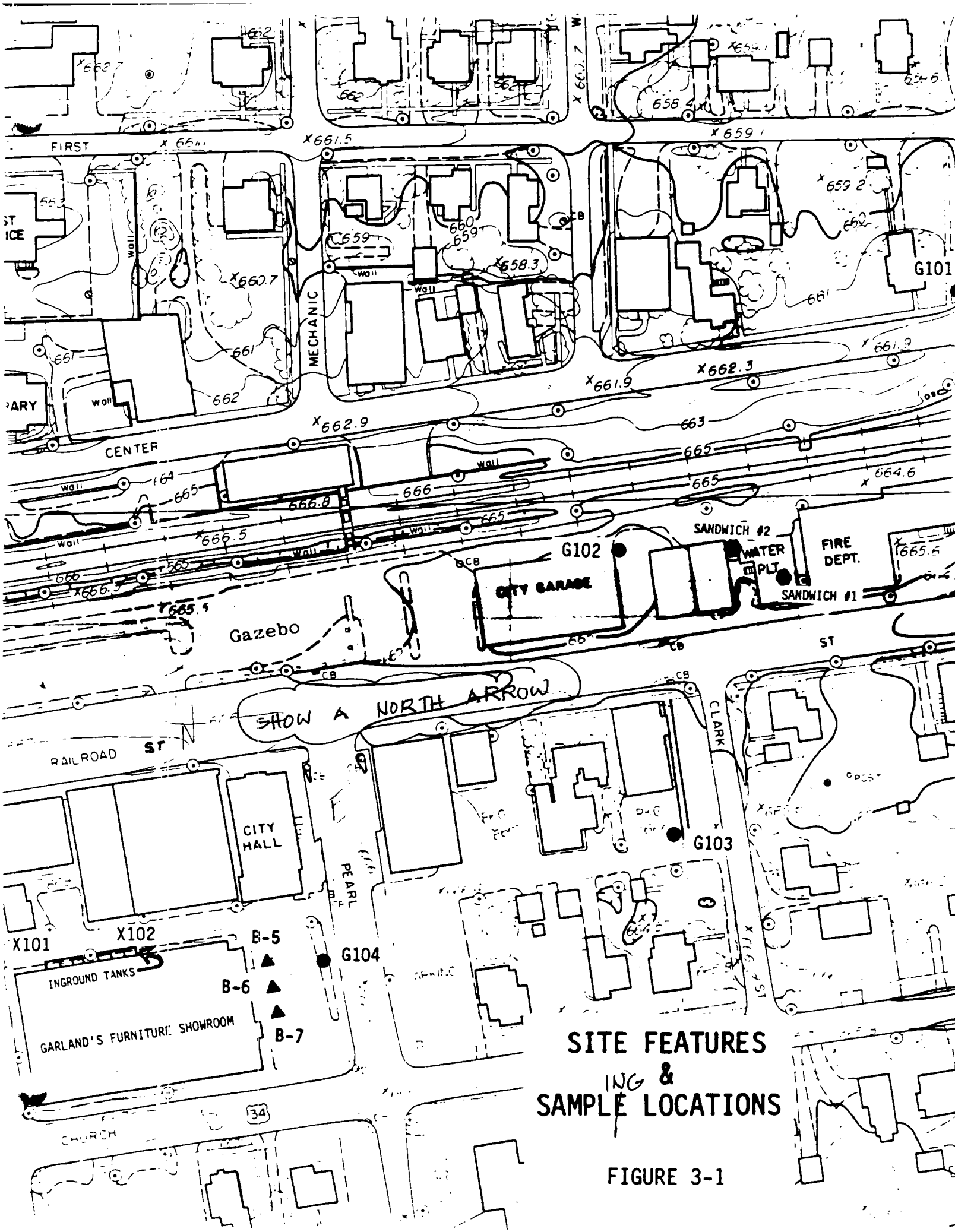
Following the site representative interview, IEPA personnel conducted a reconnaissance inspection of the Sandwich/Garland's site and surrounding area. The reconnaissance inspection included a walk-through of the Garland's property and adjacent areas to identify four potential locations for monitor wells, three or four locations for soil samples, two locations for waste samples and to determine appropriate health and safety requirements. The reconnaissance inspection began at 1:15 p.m. on July 13, 1988. The three previously mentioned City officials accompanied the IEPA personnel on the reconnaissance inspection. Brought to the attention of IEPA personnel was the past operational practices of C.T.S. Knights Corporation (former owner of Garland's Showroom building). During the period of 1950-1970, being a manufacturer of electronic components, C.T.S. bought solvents for degreasing machinery and cleaning of parts. They also ground their own crystals for use in the manufacture of certain components. Wash water from the crystal grinding area and general floor wash water was indicated to have been channeled to the outside, inground tanks in the alley. Other information obtained indicated that employees transferred used solvents to trucks which hauled it to the sewage treatment plant, located one mile east, and burned the flammable portion. During the transfer of used solvent, which took place in the gravel parking area east of the building, if the end of a shift occurred and there were solvents remaining in barrels, many times these barrels would be dumped on the ground.

Reconnaissance Inspection Observations. The Sandwich/Garland's site is located on a 3 acre parcel of land which has been described in a previous section. Land use in the vicinity of the site is primarily commercial to the north and west with residences and commercial establishments mixed to the south and east. Surface topography of this area is generally flat within a mile and a half of the site grading to gently rolling thereafter. Site slope is to the east. The Garland's property is bordered on the north by an alley, on the south by Church Street, on the east by Pearl Street and on the west by Wells Street. The site perimeter does not have any fencing or security measures to deter site access (Figure 3-1). The building itself is secure in that all doors and windows are locked when employees are not present.

During the walk-through of the area and the Garland property, there were no signs of blatant contamination on the ground outside of the furniture showroom. However, six steel plates on the ground in the alley next to the north wall of the showroom building were noticed covering inground tanks containing oily liquid and grey-black sludge. Each tank was estimated to be 4 feet wide x 5 feet long x 4-5 feet deep.

3.4 MONITOR WELL INSTALLATION

Groundwater monitor well installation began on August 23, 1988 with the drilling of G101. G101 is located on the northeast corner of the intersection of East Center Street and Lafayette Street (Figure 3-1 for well locations).



SITE FEATURES
ING &
SAMPLE LOCATIONS

FIGURE 3-1

G101 was augered to a total depth of 60.0 feet. with the aquifer of concern screened from 54 to 59 feet. The casing used was Johnson #304 type stainless steel with a cap, and a steel protective cover was placed over the casing. The protective covering was grouted in place and locked before departing to G102.

G102 installation also began on August 23, 1988. The well is located four feet east of the northeast corner of the City garage on Railroad Street. The well was augered to a total depth of 65.0 feet, with the aquifer of concern screened from 58.21 to 63.28 feet. A stainless steel casing with cap and protective covering were grouted in place. The protective covering was locked before departing the well location.

Monitor wells G103 and G104 were installed on August 24, 1988. G103 is located 16 feet north of the center of the alley between Church and Railroad Streets and 44 feet west of the center of South Clark Street. The well was augered to 65.0 feet, with the aquifer of concern screened from 57.43 to 62.48 feet. Slightly elevated Organic Vapor Analyzer (OVA) readings were observed on cuttings from the sand and gravel below the water table. The stainless steel casing and protective covering were grouted in place, with the well locked before departing to G104.

G104 is located 50 feet south of the center of the alley between Church and Railroad Streets and 33 feet west of the center of Pearl Street. The well was augered to 65.0 feet, with the aquifer of concern screened from 59.23 to 64.22 feet. Obvious organic volatile contamination was observed at this location. Elevated OVA readings (100 + units) were measured on drill cuttings from the sand and gravel unit at and below the water table. The stainless steel casing and protective covering were grouted in place, with the well locked before departing the site.

Well logs of the four monitor wells installed around the Sandwich/Garland's site are provided in Appendix D.

3.5 MONITOR WELL DATA

Groundwater elevations were measured on August 25, 1988 and August 30, 1988. Groundwater direction maps drawn from the data collected indicated an east to northeast groundwater flow. Groundwater measurements and groundwater flow maps for the monitor wells installed around the Sandwich/Garland's site are provided in Appendix E.

3.6 SAMPLING PROCEDURES

Samples were collected by IEPA personnel to determine levels of U.S. EPA Target Compound List (TCL) compounds. The target compound list is provided in Appendix F.

On August 25, 1988 IEPA personnel collected 3 soil samples from the Garland's parking lot.

On August 30, 1988, IEPA personnel collected four groundwater samples from the monitor wells and two waste samples from the outside tanks along the north wall of the furniture showroom (see Figure 3-1 for the nine sampling locations).

Groundwater Sampling Procedures. The four monitor well samples (indicated as G101, G102, G103, and G104 on Figure 3-1) were collected to determine if any contaminants had migrated off-site via groundwater. All wells had five well volumes purged, with pH, conductivity and temperature measured before purging and immediately prior to sample collection. The wells were purged and sampled with a three foot teflon bailer and nylon cord. Total metals and mercury were field filtered with a Masterflex variable speed peristalic pump. After sample collection the bottles were dried, preservatives were added to the bottles requiring such, evidence tape was placed on all bottle caps then packaged in accordance with U.S. EPA required procedures. All samples were analyzed for TCL compounds by ARDL Laboratory of Mt. Vernon, Illinois. Photographs of the site and sampling locations are included in Appendix H.

Soil Sampling Procedures. The three soil samples were collected to determine if there was any evidence of solvent dumping in the gravel parking lot of Garland's when it was C.T.S. Knights, Inc., B-5 was taken 44 feet south of the center of the alley between Church and Railroad Streets and 19' east of the furniture store building. Total depth of this boring was 5'. A

composite sample was taken between 1'-3' and another between 3'-5'. B-6 was taken 64' south of the center of the alley and 22.5' east of the building. Total depth was 5' with a composite sample taken from 1'-5'. B-7 was taken 87.5' south of the center of the alley and 23' east of the building. Total depth of this boring was 5'. A composite sample was taken between 1'-5'. Organic Vapor Analyzer (OVA) readings indicated an increase from the 2.5 units background reading to 6 units at approximately 4' at B-6, all other readings during the boring of B-5, B-6 and B-7 were background.

Each soil sample was transferred to a stainless steel pan, thoroughly mixed and composited then placed in sample jars with a stainless steel spoon. Each soil sample jar had evidence tape placed around the lid then was packaged in coolers in accordance with U.S. EPA required procedures. These samples were also analyzed for TCL compounds by ARDL Laboratory.

Waste Sampling Procedures: The two waste samples collected were to determine if the subject tanks contained any hazardous constituents. If so, are they the same constituents in the public water wells and monitor wells. X101 was taken from the western most tank in the alley on the north side of the furniture store buidling. Both sludge and liquid were sampled. X102 was taken from the eastern most tank in the alley on the north side of the building. Samples of sludge were obtained by using a 5' long 1 x 4 piece of wood found in the alley near the tanks. Sludge was scraped from the 1 x 4,

using a tongue depressor, into sample jars. Sample jars were wiped clean, had evidence tape placed around the lids then were packaged in a cooler in accordance with U.S. EPA required procedures. These samples were analyzed for TCL compounds by ARDL Laboratory. An OVA was used to monitor the air in and around the waste tanks while sampling was taking place. Background readings in the vicinity were at 1-2 units. When the contents of the tank were disturbed, OVA readings ran off scale.

Decontamination Procedures: Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedures included the scrubbing of all equipment (bailers, spoons, pans, etc.) with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water, rinsing with acetone, rinsing with hot tap water again and final rinsed with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.

4.ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes the analytical results of IEPA-collected samples for TCL compounds.

4.2 ANALYTICAL RESULTS OF IEPA-COLLECTED SAMPLES

Chemical analysis of water samples collected by IEPA personnel revealed the following substances from TCL: volatile organic constituents, common laboratory artifacts and common groundwater constituents. Chemical analysis of soil samples collected by IEPA personnel revealed volatile organic constituents, common laboratory artifacts and common soil constituents. Chemical analysis of waste samples collected by IEPA personnel revealed the following substances from the TCL: volatile and semi-volatile organics, heavy metals, pesticides and common laboratory artifacts (see Table 4-1 for the summary of groundwater, soil and waste sample chemical analysis results). Complete laboratory analytical data of groundwater, soil and waste sample analysis are provided in Appendix G.

SAMPLE SUMMARY FORM

TABLE 4-1

SAMPLE #	SOIL SAMPLES mg/Kg				MONITORING WELL WATER SAMPLES mg/L				
	B-5 (1-3)	B-5 (3-5)	B-6	B-7	G101	G102	G103	G104	X101
VOLATILES (ppb)									
chloromethane									
bromomethane									
vinyl chloride									
chloroethane									
methylene chloride	11 B	19 B	100 B	31 B	11 B	10 B	10 B	21 B	1100 B
acetone	53 B	34 B		39 B		10 JB		15 B	1250 B
carbon disulfide									
1,1-dichloroethene									
1,1-dichloroethane									600
1,2-dichloroethene (total)									
1,2-dichloropropane									
chloroform									
1,2-dichloroethane									
2-butanone	12 B			32 B			17	11	1200
1,1,1-trichloroethane	14								
carbon tetrachloride	13								
vinyl acetate									
dichlorobromomethane									
c-1,3-dichloropropene									
trichloroethene			170	170					
benzene									
chlorodibromomethane									
1,1,2-trichloroethane									
t-1,3-dichloropropene									
bromoform									
2-hexanone									
4-methyl-2-pentanone									
1,1,2,2-tetrachloroethane									
tetrachloroethene									
toluene									650
chlorobenzene									
ethylbenzene									
styrene									
total xylenes									
PESTICIDES (ppb)									
alpha-BHC									
beta-BHC									
delta-BHC									12
Lindane (gamma-BHC)	22								
Heptachlor									16
Aldrin									16
Heptachlor epoxide	96		19	15					32
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin									
4,4'-DDD									
Endosulfan II									
4,4'-DDT									
Endrin ketone									59
Endosulfan sulfate									
Methoxychlor									
alpha-Chlordane									
gamma-Chlordane									
Toxaphene									
Arochlor-1016									
Arochlor-1221									
Arochlor-1232									
Arochlor-1242									
Arochlor-1248									
Arochlor-1254									
Arochlor-1260									

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TABLE 4-1

SAMPLE SUMMARY FORM

SAMPLE #	SLUDGE SAMPLE ug/kg X102	X101							
VOLATILES ~~ppb~~									
chloromethane									
bromomethane									
vinyl chloride									
chloroethane									
methylene chloride	1700 B								
acetone	1650 B								
carbon disulfide									
1,1-dichloroethene									
1,1-dichloroethane	1200								
1,2-dichloroethene (total)									
1,2-dichloropropane									
chloroform									
1,2-dichloroethane									
2-butanone									
1,1,1-trichloroethane									
carbon tetrachloride									
vinyl acetate									
dichlorobromomethane									
c-1,3-dichloropropene									
trichloroethene									
benzene									
chlorodibromomethane									
1,1,2-trichloroethane									
t-1,3-dichloropropene									
bromoform									
2-hexanone									
4-methyl-2-pentanone									
1,1,2,2-tetrachloroethane									
tetrachloroethene									
toluene	800								
chlorobenzene									
ethylbenzene									
styrene									
total xylenes									
PESTICIDES ppb									
alpha-BHC									
beta-BHC									
delta-BHC									
Lindane (gamma-BHC)									
Heptachlor	1B								
Aldrin	8								
Heptachlor epoxide									
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin									
4,4'-DDD									
Endosulfan II									
4,4'-DDT									
Endrin ketone									
Endosulfan sulfate									
Methoxychlor									
alpha-Chlordane									
gamma-Chlordane									
Toxaphene									
Arochlor-1016									
Arochlor-1221									
Arochlor-1232									
Arochlor-1242									
Arochlor-1248									
Arochlor-1254									
Arochlor-1260									

TABLE 4-1

IL 532-1705
LPC 284 6/88

SAMPLE SUMMARY FORM
(CONT)

SAMPLE #	SOIL SAMPLES mg/kg				MONITORING WELL WATER SAMPLES mg/L				
	B-5 (1-3)	B-5 (3-5)	B-6	B-7	G101	G102	G103	G104	X101
ACIDS ppb									
Benzoic Acid	300 J	110 J	310 J	92 J					
Phenol									
2-chlorophenol									
2-nitrophenol									
2-methylphenol									
2,4-dimethylphenol									
4-methylphenol									
2,4-dichlorophenol									
2,4,6-trichlorophenol									
2,4,5-trichlorophenol									
4-chloro-3-methylphenol									
2,4-dinitrophenol									
2-methyl-4,6-dinitrophenol									
Pentachlorophenol									
4-nitrophenol									
BASE/NEUTRALS ppb									
Hexachloroethane									
Bis (2-chloroethyl) ether									
Benzyl Alcohol									
Bis (2-chloroisopropyl) ether									
N-nitrosodi-n-propylamine									
Nitrobenzene									
Hexachlorobutadiene									
2-Methylnaphthalene	87 J								11,000,000
1,2,4-trichlorobenzene									340,000
Isophorone									
Naphthalene	81 J								1,900,000
4-Chloroaniline									
Bis (2-chloroethoxy) methane									
Hexachlorocyclopentadiene									
2-chloronaphthalene									
2-Nitroaniline									1,900,000
Acenaphthylene									
3-Nitroaniline									1,200,000
Acenaphthene									660,000
Dibenzofuran									670,000
Dimethylphthalate									880,000
2,6-Dinitrotoluene									
Fluorene									
4-Nitroaniline									2,000,000
4-Chlorophenyl-phenyl ether									
2,4-Dinitrotoluene									2,900,000
Diethylphthalate									
N-Nitrosodiphenylamine	43 J								
Hexachlorobenzene									
Phenanthrene	110 J			74 J					15,000,000
4-Bromophenyl-phenyl ether									
Anthracene	110 J								15,000,000
Dibutylphthalate	460 B	1500 B	1900 B	1900 B	43 JB			5 JB	5,200,000
Fluoranthene	52 J			73 J					1,100,000
Pyrene	43 J			110 J					420,000
Butyl benzyl phthalate									
Bis (2-ethylhexyl) phthalate	600 B	900 B	4200 B	1900 B	300 BE	160 B	180 BE	57 B	520000
Chrysene	37 J								
Benzo (a) anthracene	33 J								
3,3'-Dichlorobenzidene									
Di-n-octyl phthalate								3 JB	
Benzo (b) fluoranthene									
Benzo (k) fluoranthene									
Benzo (a) pyrene									
Indeno (1,2,3-cd) pyrene									
Dibenzo (a,h) anthracene									
Benzo (g,h,i) perylene									
1,2-Dichlorobenzene									
1,3-Dichlorobenzene									
1,4-Dichlorobenzene									

MOVE THIS COLUMN TO ~~THE~~ FOLLOWING PAGE.

TABLE 4-1

IL 532-1705
LPC 284 6/88

SAMPLE SUMMARY FORM
(CONT)

SAMPLE #	SLUDGE SAMPLE mg/KG	
	X102	X101
ACIDS		
Benzoic Acid		
Phenol		
2-chlorophenol		
2-nitrophenol		
2-methylphenol		
2,4-dimethylphenol		
4-methylphenol		
2,4-dichlorophenol		
2,4,6-trichlorophenol		
2,4,5-trichlorophenol		
4-chloro-3-methylphenol		
2,4-dinitrophenol		
2-methyl-4,6-dinitrophenol		
Pentachlorophenol		
4-nitrophenol		
BASE/NEUTRALS ppb		
Hexachloroethane		
Bis (2-chloroethyl) ether		
Benzyl Alcohol		
Bis (2-chloroisopropyl) ether		
N-nitrosodi-n-propylamine		
Nitrobenzene		
Hexachlorobutadiene		
2-Methylnaphthalene	350,000,000	
1,2,4-trichlorobenzene		
Isophorone		
Naphthalene	88,000,000	
4-Chloroaniline		
Bis (2-chloroethoxy) methane	13,000,000	
Hexachlorocyclopentadiene		
2-chloronaphthalene		
2-Nitroaniline	45,000,000	
Acenaphthylene		
3-Nitroaniline		
Acenaphthene		
Dibenzofuran	33,000,000	
Dimethylphthalate	33,000,000	
2,6-Dinitrotoluene	26,000,000	
Fluorene		
4-Nitroaniline	47,000,000	
4-Chlorophenyl-phenyl ether		
2,4-Dinitrotoluene	90,000,000	
Diethylphthalate	8,900,000	
N-Nitrosodiphenylamine		
Hexachlorobenzene		
Phenanthrene	430,000,000	
4-Bromophenyl-phenyl ether		
Anthracene	430,000,000	
Dibutylphthalate	97,000,000	
Fluoranthene	40,000,000	
Pyrene	29,000,000	
Butyl benzyl phthalate		
Bis (2-ethylhexyl) phthalate	5,700,000	
Chrysene		
Benzo (a) anthracene		
3,3'-Dichlorobenzidene		
Di-n-octyl phthalate		
Benzo (b) fluoranthene		
Benzo (k) fluoranthene		
Benzo (a) pyrene		
Indeno (1,2,3-cd) pyrene		
Dibenzo (a,h) anthracene		
Benzo (g,h,i) perylene		
1,2-Dichlorobenzene		
1,3-Dichlorobenzene		
1,4-Dichlorobenzene		

TABLE 4-1

SAMPLE SUMMARY FORM
(CONT)

SAMPLE #	SOIL SAMPLES mg/kg				MONITORING WELL WATER SAMPLES ug/L				
	B-5(1-3)	B-5(3-5)	B-6	B-7	G101	G102	G103	G104	X101
METALS									
Aluminum	10,200	15,300	14,100	12,100	[150]	[190]	[170]	[180]	4130
Antimony						[59]	[46]	[89]	
Arsenic	1.92	4.48	3.1	6.28		[3]		[2]	2.0
Barium	135	134	135	163	[63]	[64]	[59]	[91]	48
Beryllium									
Cadmium	2.5	0.82	0.69						
Calcium	16,300	2670	6500	5960	110,000	110,000	110,000	130,000	5350
Chromium	12.9	15.3	15.3	14.3					26.4
Cobalt	10.5	12.0	11.6	11.2					[4.13]
Copper	18.4	19.9	19.8	16.3	84	69	47	29	76.7
Iron	16,900	21,000	19,800	15,300			70,100	181,000	18,800
Lead	83	6.4	43	150	0.017	0.011	0.011	0.008	5.8
Magnesium	2700	3500	4700	3670	52,400	50,800	49,300	527,000	[450]
Manganese	600	600	610	807	120	17	200	170	196
Mercury	0.11		0.17	[0.078]					
Nickel	18.9	26.5	23.5	19.3					31
Potassium	1410	1560	1530	1410	7600	5300	8300	12,000	56
Selenium									
Silver	1.8								[2.2]
Sodium	[104]		[124]		31,000	[16,000]	36,000	39,000	840
Thallium									
Vanadium	27.7		29.7	27.5					23
Zinc	545	70	104	387					298
OTHERS									
Cyanide	0.35		0.39	0.16					
Sulfide									580
Phenols									
Nitrogen-Ammonia									
Nitrogen, Total Kjeldahl									
Nitrogen-Nitrate									
Boron									
pH									
Sulfate	250	670	370	140	81,000	78,000	110,000	110,000	330
Chloride									

TC:tk:4/30/12-1(6/2/88)

Inorganic Soil concentrations listed in ppm, remaining environmental concentrations listed in ppb

MOVE THIS COLUMN TO THE FOLLOWING PAGE.

TABLE 4-1

SAMPLE SUMMARY FORM
(CONT)

	SAMPLE #	SLUDGE SAMPLE mg/kg	
		X102	X101
METALS (ppm)			
Aluminum		2,300	
Antimony			
Arsenic		1.6	
Barium		118	
Beryllium			
Cadmium		2.1	
Calcium		4260	
Chromium		25	
Cobalt		[5.5]	
Copper		90	
Iron		26,000	
Lead		38	
Magnesium		1800	
Manganese		232	
Mercury		0.082	
Nickel		42	
Potassium			
Selenium			
Silver			
Sodium		[1602]	
Thallium			
Vanadium		51	
Zinc		1500	
OTHERS (ppm)			
Cyanide			
Sulfide		400	
Phenols			
Nitrogen-Ammonia			
Nitrogen, Total Kjeldahl			
Nitrogen-Nitrate			
Boron			
pH			
Sulfate		270	
Chloride			

TC:tk:4/30/12-1(6/2/88)

QUALIFIER	DEFINITION
U	Indicates element or compound was analyzed for but not detected. Report the detection limit value (e.g., 10U).
J	Indicates an estimated value. This flag is used either when estimating a concentration for TIC's where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the CRDL.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides greater than or equal to 10 ng/ul in the final extract shall be confirmed by GC/MS.
B	This flag is used when the analyte is found in the blank as well as the sample. This flag must be used for a TIC as well as for a positively identified TCL compound.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample numbers (both lab and EPA) on the Form 1 for the diluted sample, and all concentration values reported on that Form 1 are flagged with the "D" flag.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form 1 for the original analysis. If the dilution

QUALIFIER	DEFINITION
	of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms 1. The Form 1 for the diluted sample shall have the "DL" suffix appended to the lab sample number and the EPA sample number.
S	Indicates value determined by Method of Standard Addition.
N	Indicates spike sample recovery is not within control limits.
*	Indicates duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for method of standard addition is less than 0.995.

5. BIBLIOGRAPHY

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Gilbert, Dan, 1988 - Superintendent of Sandwich Water and Sewer Department, interview concerning property and history near site.

Illinois Environmental Protection Agency, 1987, Potential Hazardous Waste Site Preliminary Assessment, for Sandwich Public Water Supply - Wells #1 and #2, U.S. EPA ID: ILD981956527, prepared by Tom Enno, Springfield, Illinois

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Lohmeier, Darrel, Sandwich City Engineer, 1988, interview concerning property and history near site.

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KC:jas/2872j,56-71

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

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APPENDIX A: SITE 4-MILE RADIUS MAP

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APPENDIX B

U.S. EPA FORM 2070-13

Site Inspection Report

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER
SANDWICH PWS #1 + #2 / GARLAND FURNITURE SHOWROOM	ONE BLOCK EAST OF MAIN ST. ON CHURCH ST

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
SANDWICH	IL	60548	DEKALB	037	15

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
41 38 42.5	088 37 02.0	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☒ E. MUNICIPAL (WELLS) ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
8 30 88 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	- SANDWICH PWS 1911 OPERATING; - GARLANDS 1979 OPERATING (BEGINNING YEAR / ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ___ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☒ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
KENNETH W. CORKILL	EPS III	IEPA/RPMS	217 782 6761

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
GREG DUNN	EPS I	IEPA/RPMS	217 782-6761
TOM CRAUSE	EPS IV	IEPA/RPMS	217 782-6761
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
MR. DAN GILBERT	WATER SUPER.	144 E. RAILROAD ST.	815 786-6471
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	9:45 AM	SUNNY - 90° - WIND FROM WEST @ 5 mph

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
MR. DARREL LOHMEIER	CITY OF SANDWICH ENGINEER	815 786-9321

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KENNETH W. CORKILL	IEPA	RPMS	(217) 782-6761	9 15 88 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☒ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS UNKNOWN
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	UNKNOWN	—	
PSD	PESTICIDES	UNKNOWN	—	
OCC	OTHER ORGANIC CHEMICALS			USE SAME UNITS AS WAS
IOC	INORGANIC CHEMICALS			USED IN ANALYTICAL
ACD	ACIDS			RESULTS.
BAS	BASES	UNKNOWN	—	
MES	HEAVY METALS	UNKNOWN	—	

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	1,1-DICHLOROETHANE	75-34-3	TANK	1200	ppb
SOL	2-BUTANONE	78-93-3	TANK & DUMPED ON GRND.	1200	ppb
SOL	1,1,1-TRICHLOROETHANE	71-55-6	DUMPED ON GROUND	14	ppb
SOL	CARBON TETRACHLORIDE	56-23-5	" " "	13	ppb
SOL	TOLUENE	108-88-3	TANK	900	ppb
SOL	TRICHLOETHENE	79-01-6	DUMPED ON GROUND	170	ppb
PSD	delta-BHC	319-86-8	TANK	12	ppb
PSD	LINDANE (gamma-BHC)	58-89-9	DUMPED ON GROUND	22	ppb
PSD	HEPTACHLOR	76-44-8	TANK	18	ppb
PSD	ALDRIN	309-00-2	TANK	16	ppb
PSD	HEPTACHLOR EPOXIDE	1024-57-3	TANK & DUMPED ON GROUND	96	ppb
PSD	ENDRIN KETONE	53494-70-5	TANK	59	ppb
MES	COPPER	7440-50-8	TANK	40	ppm
MES	IRON	7439-89-6	TANK & DUMPED ON GROUND	26,000	ppm
MES	MAGNESIUM	7439-95-4	DUMPED ON GROUND	7,700	ppm
MES	ZINC	7440-66-6	TANK & ON GROUND	1500	ppm

V. FEEDSTOCKS (See Appendix for CAS Numbers) (BASES CONTINUED ON NEXT PAGE)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

- SI SAMPLE RESULTS & REPORT
- SITE FILE
- PRELIMINARY ASSESSMENT

(CONT.)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER, FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☐ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ☐ D PERSISTENT
- ☐ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			USE THE SAME UNITS
OCC	OTHER ORGANIC CHEMICALS			AS WAS USED IN ANALYTICAL
IOC	INORGANIC CHEMICALS			RESULTS.
ACD	ACIDS			
BAS	BASES	UNKNOWN	—	
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
BAS	2-METHYLNAPHTHALENE	91-57-6	TANK	350,000	PPM
	1,2,4-TRICHLOROBENZENE	120-82-1		340	
	NAPHTHALENE	91-20-3		88,000	
	BIS(2-CHLOROETHOXY)METHANE	111-91-1		13,000	
	2-NITROANILINE	88-74-4		45,000	
	3-NITROANILINE	99-09-2		1,200	
	ACENAPHTHENE	83-32-9		610	
	DIBENZOFURAN	132-64-9		33,000	
	DIMETHYLPHTHALATE	131-11-3		33,000	
	2,6-DINITROTOLUENE	606-20-2		26,000	
	4-NITROANILINE	100-01-6		47,000	
	2,4-DINITROTOLUENE	121-14-2		90,000	
	DIETHYLPHTHALATE	84-66-2		8,900	
	PHENANTHRENE	85-01-8		430,000	
	ANTHRACENE	120-12-7		430,000	
	DIBUTYLPHTHALATE	84-74-2		99,000	
	FLUORANTHENE	206-44-0		60,000	
	PYRENE	129-00-0		29,000	
	BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7		5,700	

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 5,841
02 [X] OBSERVED (DATE: 11/85 - PRESENT) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

GROUNDWATER HAS BEEN DOCUMENTED TO BE CONTAMINATED WITH ORGANIC SOLVENTS, PESTICIDES + HEAVY METALS. BOTH PUBLIC WELLS ARE CONTAMINATED AND MONITOR WELLS AROUND THE SITE HAVE SHOWN CONTAMINATION.

01 [X] B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 1000
02 ☐ OBSERVED (DATE: _____) [X] POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

POTENTIAL CONTAMINATION TO SOMANAUK CREEK ON THE ~~WEST~~, LAKE HOLIDAY ON THE WEST AND LITTLE ROCK CREEK ON THE EAST.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 5,250
02 ☐ OBSERVED (DATE: _____) [X] POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

POTENTIAL DIRECT CONTACT TO SUBSTANCES IN THE INGROUND TANKS ON THE NORTH SIDE OF THE FURNITURE SHOWROOM BUILDING. THE TANKS ARE COVERED WITH METAL LIDS BUT ARE EASILY LIFTED.

01 [X] E. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 1-2 (Acres)
02 ☐ OBSERVED (DATE: 8-25-88) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

SOIL BORINGS IN THE PARKING LOT, EAST OF THE FURNITURE SHOWROOM BUILDING INDICATED CONTAMINATION OF SOIL. THERE IS ALSO THE POTENTIAL FOR SOIL CONTAMINATION FROM THE INGROUND TANKS.

01 [X] G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 5,841
02 [X] OBSERVED (DATE: 11/85 - PRESENT) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

REFERENCE "A" + "F"

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
KS	981956527

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 5,841 — 04 NARRATIVE DESCRIPTION
THE INGROUND TANKS HAVE THE POTENTIAL OF LEAKING

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
THE PREVIOUS BUSINESS AT THE FURNITURE SHOWROOM BUILDING, C.T.S. KNIGHTS WAS ALLEGEDLY DUMPING WASTE SOLVENTS ON THE GROUND IN THEIR PARKING LOT.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 5,841

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☒ E. TANK, BELOW GROUND	2,600	GALLONS
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☒ H. OTHER TRANSFER OF USED SOLVENTS (Specify)

05 OTHER

- ☒ A. BUILDINGS ON SITE

06 AREA OF SITE

3 (Acres)

07 COMMENTS

THE CONSTITUENTS FOUND IN THE TANKS WERE NOT FOUND IN THE GROUNDWATER, HOWEVER, EXTENSIVE TESTING IN THE AREA HAS NOT BEEN DONE.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

TANKS ARE APPARENTLY CONCRETE WITH STEEL LIDS. THE WASTE DUMPED IN THE PARKING LOT WAS FROM DRUMS.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

INGROUND TANKS LIDS ARE

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

REFERENCE PART 2 - VI

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☒

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☒	C. ☒
D. ☒	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 800 FT ~~(mi)~~

B. 1.0 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 5840

03 DISTANCE TO NEAREST DRINKING WATER WELL 800 FT ~~(mi)~~

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
19 (ft)	EAST - NE	130 (ft)	UNKNOWN (gpd)	☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

WELL #1 WAS DRILLED IN 1911 TO 600'. IT IS LOCATED EAST OF THE DOWNTOWN AREA OF SANDWICH IN THE WATER PLANT BUILDING.
WELL #2 WAS DRILLED IN 1939 TO 600'. LOCATION IS THE SAME AS WELL #1.
BOTH WELLS SERVE THE POPULATION OF SANDWICH

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
UNNAMED TRIBUTARY OF LITTLE ROCK CREEK	☐	.75 (mi)
SOMONAUK CREEK	☐	1.75 (mi)
LAKE HOLIDAY	☐	2.30 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 5,244 NO. OF PERSONS	B. 5,492 NO. OF PERSONS	C. 5,841 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 2080

04 DISTANCE TO NEAREST OFF-SITE BUILDING 30 FT ~~(mi)~~

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

POPULATION WITHIN 1 MILE OF THE SITE IS URBAN. FROM 1 - 3 MILES & BEYOND GRADES TO RURAL. VARIOUS OTHER SMALL URBAN AREAS ARE ENCOUNTERED IN THE VICINITY.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
LD	981956527

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
130 (ft)	UNKNOWN (ft)	UNKNOWN

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2 (in)	2.5 (in)	1 %	EAST	1-3 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE N/A OTHER

A. _____ (mi) B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A _____ (mi)

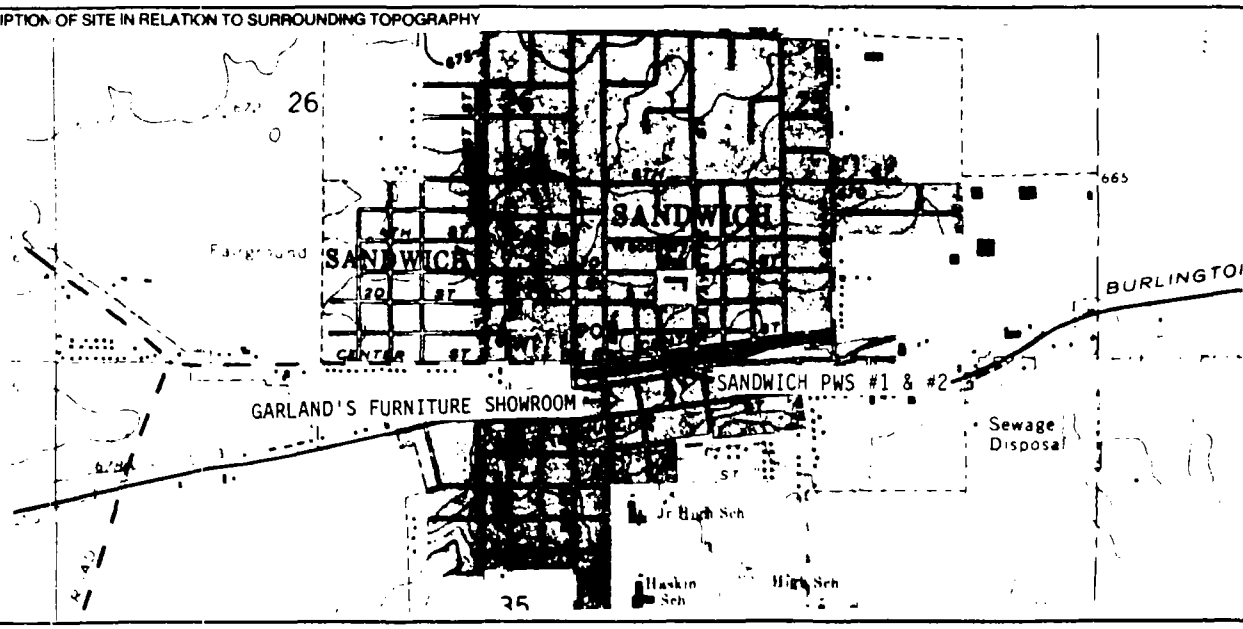
ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0 (mi)	B. 150 FT ~~(mi)~~	C. 1 (mi)	D. 1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	4	ARDL LABORATORY, MT. VERNON, IL.	9-14-88
SURFACE WATER			
WASTE	2	ARDL	9-14-88
AIR			
RUNOFF			
SPILL			
SOIL	4	ARDL	9-14-88
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH	MONITOR WELLS
CONDUCTIVITY	
TEMP.	
OVA	SOIL SAMPLES & WASTE IN TANKS

IV. PHOTOGRAPHS AND MAPS

01 TYPE [X] GROUND [X] AERIAL

02 IN CUSTODY OF IEPA (Name of organization or individual)

03 MAPS [X] YES [ ] NO

04 LOCATION OF MAPS 2200 CHURCHILL ROAD, SPRINGFIELD, IL.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
RAYMOND H. SHUCK		1521 S. VAIL		SANDWICH	IL	60548

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
CTS KNIGHTS				SANDWICH	IL	60548

IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

- REFERENCE PART 2-VI

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	981956527

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
GARLAND'S FURNITURE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
CHURCH ST.	

05 CITY	06 STATE	07 ZIP CODE
SANDWICH	IL	60548

08 YEARS OF OPERATION	09 NAME OF OWNER OF PROPERTY
9	RAYMOND H. SHUCK

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
CTS KNIGHTS CORP.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE
SANDWICH	IL	60548

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
41	

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981956527

FORMER →

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
C.T.S. KNIGHTS	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE
SANDWICH	IL	60548

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
LD	981956527

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION N A	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981956527

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION NA	02 DATE	03 AGENCY
01 ☐ S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

REFERENCE PART 2 - VI

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
ILD	981956527

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART - VI

APPENDIX C

U.S. EPA IMMEDIATE REMOVAL ACTION CHECKSHEET

Site Name: SANDWICH PWS 1+2/GARLANDS FURNITURE SHOWROOM ILD 981956527 LPC 0374850001

	High	Moderate	Low
Fire and Explosion Hazard:			
Flammable Materials:			✓
Explosives:			✓
Incompatible Chemicals:			✓
Direct Contact with Acutely Toxic Chemicals:			
Site Security:		✓	
Leaking Drums or Tanks:		✓	
Open Lagoons or Pits:			
Materials on Surface:			✓
Proximity of Population:		✓	
Evidence of Casual Site Use:			✓
Contaminated Water Supply:			
Exceeds 10 Day Snarl:			✓
Gross Taste or Odors:			✓
Alternate Water Available: NO			
Potential Contamination:		✓	
Is the site abandoned or active? ACTIVE			

Comments:

RML:tk:4/28/18-1(3/30/88)

APPENDIX D

MONITOR WELL INSTALLATION LOGS

Illinois Environmental Protection Agency **Monitor Well Construction**

County: DE KALB Boring No.: B-1

Site File Name: SANDWICH PWS #1 & #2 Monitor Well No.: G-101

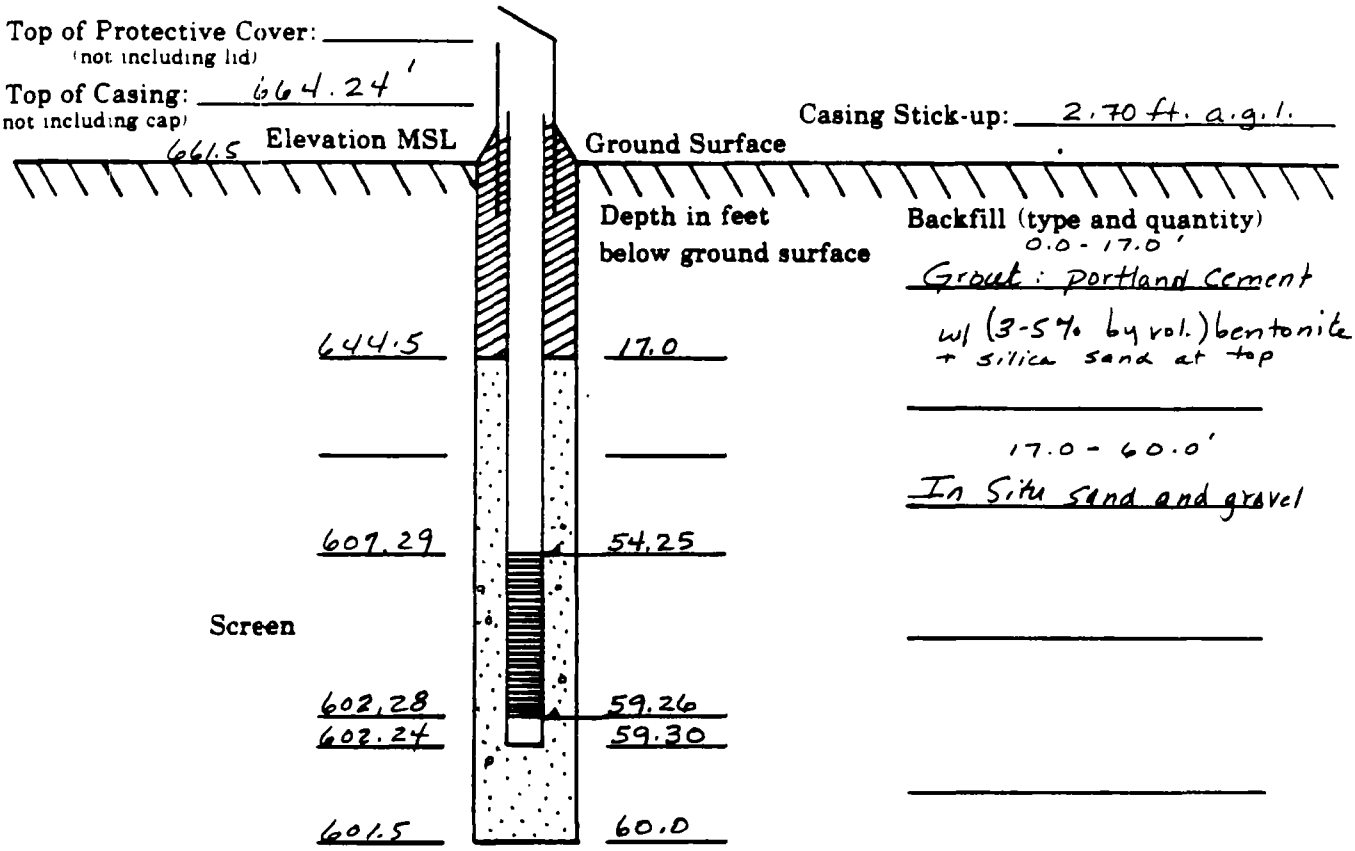
Site File No.: 037000 0000 Prepared By: J. MORSE

Monitor Well Location NW Corn. of intersection of E. Center & Lafayette St. (see map)

Top of Protective Cover: _____
(not including lid)

Top of Casing: 664.24'
(not including cap)

Casing Stick-up: 2.70 ft. a.g.l.



Elevation MSL	Depth in feet below ground surface	Backfill (type and quantity)
		0.0 - 17.0' Grout: portland cement w/ (3-5% by vol.) bentonite + silica sand at top
644.5	17.0	
		17.0 - 60.0' In Situ sand and gravel
607.29	54.25	
602.28	59.26	
602.24	59.30	
601.5	60.0	

Casing Type and Size: 304, Sched 5, 2" ϕ ID, Environmental thread, stainless steel

Screen Type and Size: 304, 2" ϕ ID, Environmental thread, 0.01" slot wire wrap #10 stainless steel.

Casing Field Measurements:

bottom of screen 0.04'
top of screen 5.05'
1st joint 5.14'
+ 10.00
+ 10.00
+ 4.99 + 4.99 + 4.99 + 4.99
+ 5.00 + 5.00 + 5.00
+ 1.90

Total Length of Casing 62.00 ft.

Plug (type) 304 stainless

Cap (type) "

Protective Cover (type and size) 4" x 5' steel with locking cap.

Teflon tape was used on all casing threads.

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 2

Site File No.: 0370000000 County DE KALB Boring No. B-1 Monitor Well No. G-101

Site File Name SANDWICH PWS #1 & #2 Surface Elev. 661.54' Completion Depth 59.3

Fed. ID. No. 981956527 Auger Depth 60 Rotary Depth –

Quadrangle Plano Sec. 36 T. 37 N R. 5 E. Date: Start 8/23/88 Finish 8/23/88

Boring Location NW corn. of intersection of E. Center & Lafayette St. (see map)

Drilling Equipment CME 75; 3 3/4" ID HSA; 5 ft. Continuous sampler; Knockout plate

Personnel: G - JEANINE MORSE; D - TOLAN; Basic; H - Collantino; H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
661.5	(0.0 - 1.0) Silt and Gravel (fill) tr. clay; cinders.								
	(1.0 - 1.9) Silt; tr. clay; some sand; black (A-horizon topsoil)	1							
	(1.9 - 5.5) Clayey-Silt; with sand and pebbles scattered and increasing @ 4 ft. yel-brn. with d. grey clay on root traces, soft, moist, wood, roots, leached to v. slightly calcareous @ 4.3 ft. Pebbles v. weathered, Gradational to unit below w/ < clay and > sand. (weathered glacial till)	2, 3, 4, 5		Continuous Sampler 5.0'	4.9'				
	(5.5 - 6.1) Sandy-Silt tr. clay; pebbles; yel-brn to brn. (weathered glacial till)	6							
	(6.1 - 8.3) Sand - silty w/ tr. clay @ top; abundant pebbles rounded & weathered. (till/outwash)	7, 8		C. S. 5.0'	3.7'				
653.2	(8.3 - 11.6) Sand; silty fn-med w/ rounded pebbles abundant scattered and in lenses (10.8 - 11.1). Predominantly qtz. Sub to well rounded, poorly sorted, (dry) (outwash)	9, 10, 11		C. S. 2.5'	2.5'				
	(11.6 -) Sand fn-med to med-co. tan to tan-grey w/ pebbles (fn. gravel) mod. to mod-well sorted. (dry to 17.7 ft) (outwash)	12, 13, 14, 15		C.S. 2.5'	2.4'				

Illinois Environmental Protection Agency **Field Boring Log** Page 2 of 2

Site File No. 0370000000 County DEKALB Boring No. B-1 Monitor Well No. G101

Site File Name SANDWICH PWS #1 & #2 Surface Elev. 661.5 Completion Depth 59.3

Fed. ID. No. 981956527 Auger Depth 60.0 Rotary Depth –

Quadrangle Plano Sec. 36 T. 37 N. R. 5 E. Date: Start 8/23/88 Finish 8/23/88

Boring Location NW corn. of intersection of E. Center and Lafayette St. (see map)

Drilling Equipment CME 75, 3 3/4" ID HSA; 5 ft. Continuous Sampler; Knockout plate

Personnel: G - Jeanine Morse; D - Tolan, Bosie; H - Collontino; H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N. Values (Blows)	OVA or HNU readings	REMARKS
	(11.6 –) Sand med-cs, w/ pebbles (fn gravel) mod to mod-well sorted. tan.	20		Auger w/ plug.	(cuttings)				WL during drilling @ 17.7' bgl.
	@ 30 ft sand silty med. w/ fn-med gravel; yel-brn.	25, 30, 35, 40, 45, 50, 55		Auger with knockout plate	(cuttings)				
601.5	END BORING @ 60.0 ft.	60, 65							

Illinois Environmental Protection Agency **Monitor Well Construction**

County: DE KALB Boring No.: B-2

Site File Name: SANDWICH PWS #1 & #2 Monitor Well No.: G-102

Site File No.: 0370000000 Prepared By: J. MORSE

Monitor Well Location 4 ft. E of NE Corner of City Garage (see map)

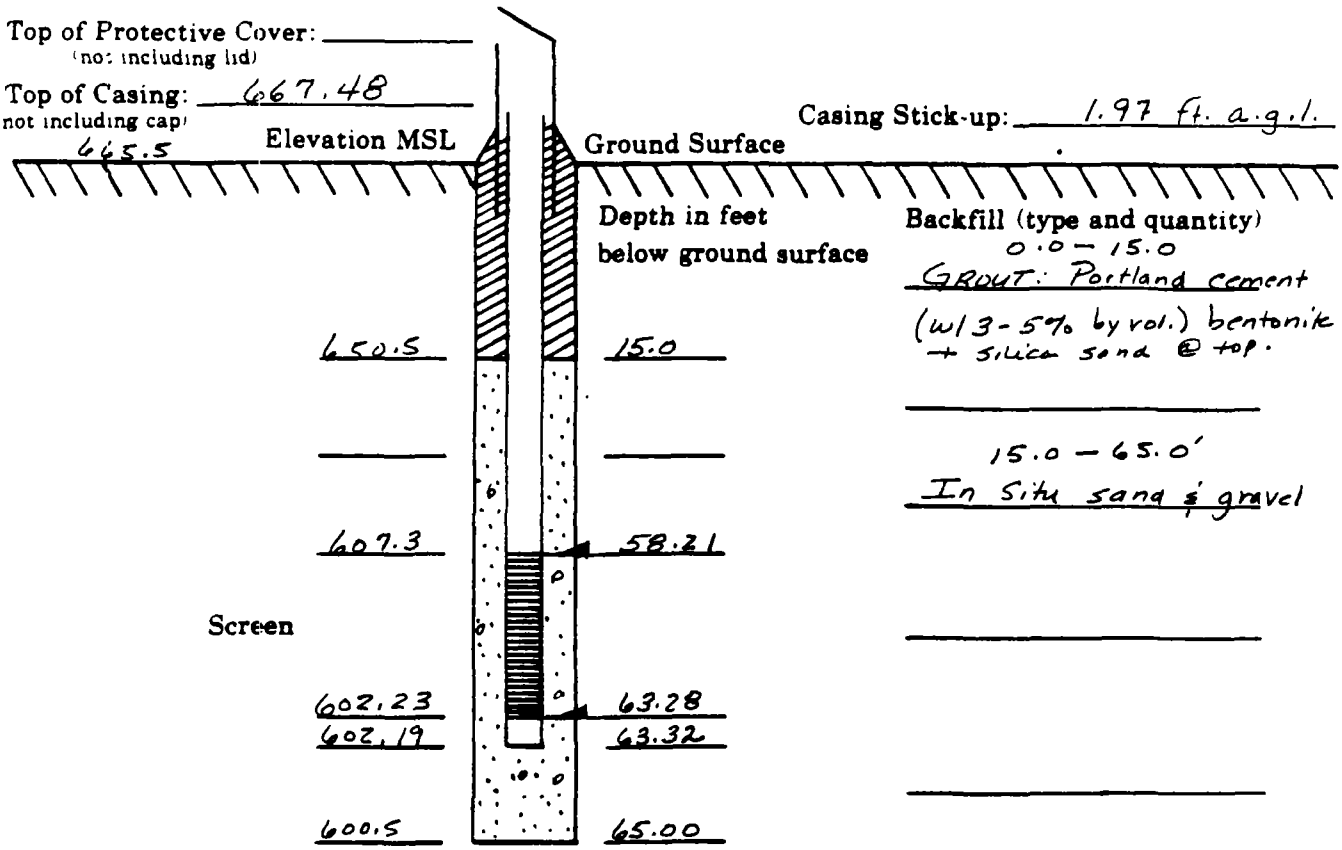
Top of Protective Cover: _____
(not including lid)

Top of Casing: 667.48
(not including cap)

Casing Stick-up: 1.97 ft. a.g.l.

665.5 Elevation MSL

Ground Surface



Depth in feet below ground surface

Backfill (type and quantity)

0.0 – 15.0
GROUT: Portland cement (w/ 3-5% by vol.) bentonite + silica sand @ top.

15.0 – 65.0'
In Situ sand & gravel

650.5 — 15.0

607.3 — 58.21

Screen

602.23 — 63.28

602.19 — 63.32

600.5 — 65.00

Casing Type and Size: 304; sched. 5, 2" ø ID, Environmental thread, stainless steel

Screen Type and Size: 304, 2" ø ID, Environmental thread; 0.01" slot wire wrap #10, stainless steel

Casing Field Measurements:

bottom of screen 0.04'
top of screen 5.02'
1st joint 5.11'
+ 10.01
+ 10.00
+ 10.01
+ 10.01 + 10.00
+ 10.15 top threads.

Total Length of Casing 65.29 ft.

Plug (type) 304 stainless

Cap (type) "

Protective Cover (type and size) 4" x 5' steel w/ locking cap.

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No.: 0370000000 County: DEKALB Boring No. B-2 Monitor Well No. G-102

Site File Name: SANDWICH PWS #1 & #2 Surface Elev. 665.5 Completion Depth 63.3

Fed. ID. No. 981956527 Auger Depth 65.0' Rotary Depth —

Quadrangle: Plano Sec. 36 T. 37N. R. 5.E Date: Start 8/23/88 Finish 8/24/88

Boring Location: 4 ft east of NE Corn. of City Garage (see map)

Drilling Equipment: CME 75; 3 3/4" ID HSA; knockout plate.

Personnel: G - Jeanine Morse; D - Tolen; Borie; H - Collentino; H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No.	Sample Type	Sample Recovery	Penetrometer	N. Values (Blows)	OVA or HNU readings	REMARKS
665.51	(0.0-1.5) Silt & gravel (fill)	1		Auger with knock-out plate	cuttings			OVA readings to 20.0 ft. background levels.	
	(1.5-8.0) Silty-Clay to Clayey-Silt w/ fn-med sand and few pebbles scattered. black A horizon topsoil to d. brn-gray to yel-brn (modern soil formed in glacial till)	2, 3, 4, 5, 6, 7							
657.51	(8.0-) Clayey Sand to Silty Sand v fn to fn-med sand; w/ abundant fn gravel; yel-brn to more gray with depth. Poorly sorted to mod. well sorted in zones. (outwash)	8, 10, 20, 30, 40, 50, 60							
600.51	End Boring @ 65.0 ft.	70							

Illinois Environmental Protection Agency **Monitor Well Construction**

County: DE KALB Boring No.: B-3

Site File Name: SANDWICH PWS #1 & #2 Monitor Well No.: G-103

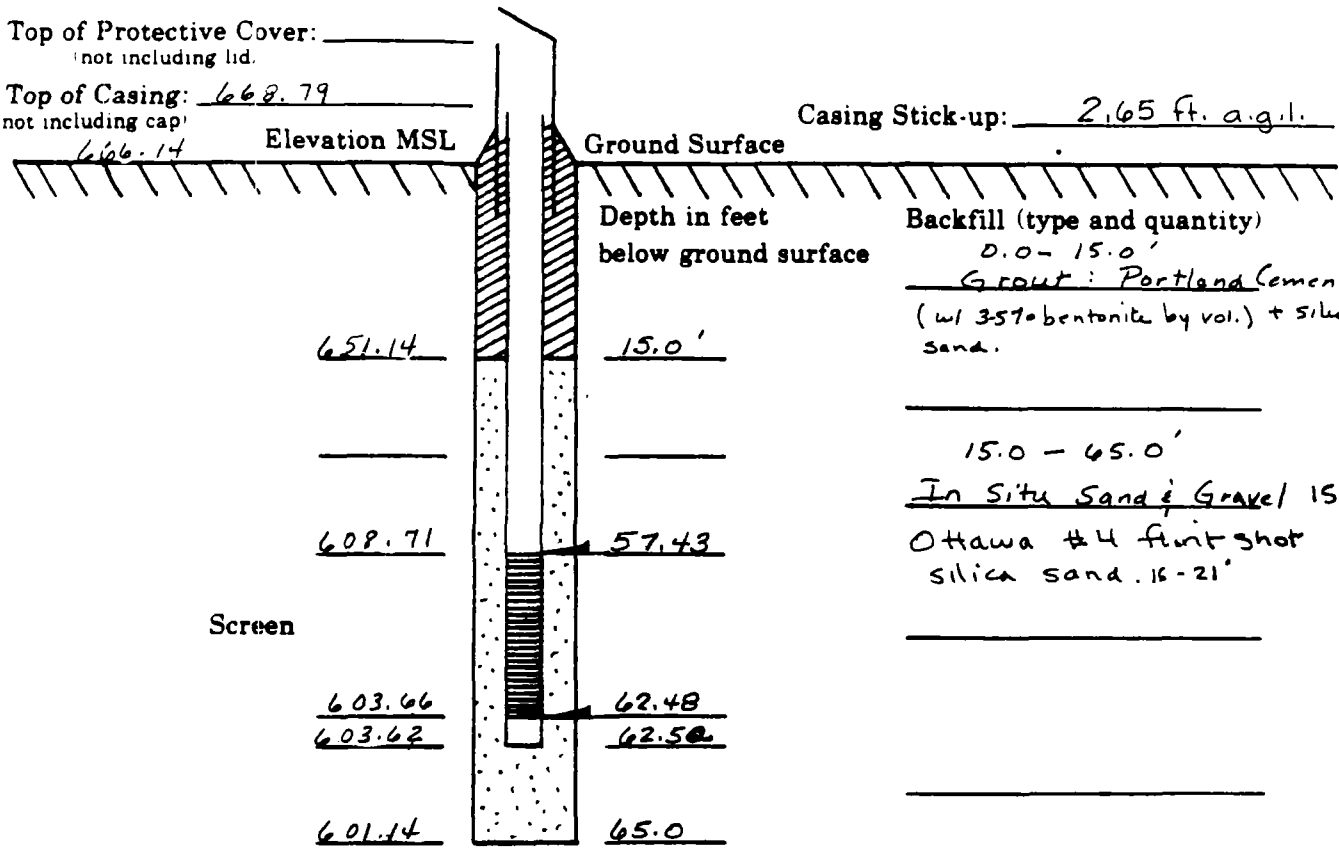
Site File No.: 037000 0000 Prepared By: J MORSE

Monitor Well Location 16' N of CTR alley; 44.7' W of center line of S. Clark St. (see map)

Top of Protective Cover: _____
(not including lid)

Top of Casing: 668.79
(not including cap)

Casing Stick-up: 2.65 ft. a.g.l.



Backfill (type and quantity)

0.0 – 15.0'
Grout: Portland Cement (w/ 3.5% bentonite by vol.) + silica sand.

15.0 – 65.0'
In Situ Sand & Gravel 15-21'
Ottawa #4 flint shot silica sand. 16-21'

Casing Type and Size: 304; 2" ID ϕ, Environmental thread; stainless steel

Screen Type and Size: 304; 2" ID ϕ; Env. threads; 0.01" ~~slot~~ slot wire wrap #10 stainless steel

Casing Field Measurements:

bottom of screen 0.04'
top of screen 5.07'
1st joint 5.16
+ 10.01 + 5.01
+5.00 + 5.00 + 5.00
+ 5.00 + 5.00 + 4.99
+ 6.00 + 5.00 + 5.00
+

Total Length of Casing 65.17

Plug (type) 304 stainless steel

Cap (type) _____

Protective Cover (type and size) 4" x 5' steel w/ locking cap.

teflon tape was used on all casing threads.

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No.: 0370000000 County DE KALB Boring No. B-3 Monitor Well No. G-103

Site File Name SANDWICH PWS #1 & #2 Surface Elev. 666.14 Completion Depth 62.5

Fed. ID. No. 981956527 Auger Depth 65.0' Rotary Depth —

Quadrangle Plano Sec. 36 T. 37N. R. 5 E. Date: Start 8/24/88 Finish 8/24/88

Boring Location 16' N of CTR Alley; 44.7' W of Center line of S. Clark St. (see map).

Drilling Equipment CME 75; 3 3/4" ID HSA; Knockout Plate

Personnel: G - Jeanine Morse; D - Tolan, Bosie; H - Collantino; H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
666.14	(0.0 - 1.0) Silt and Gravel (fill)								windy conditions make OVA readings skeptically low? Elevated (low) readings above background below water table. Background OVA - 1.5 units.
	(1.0 - 3.0') Silty-clay w/ sand fn-med and pebbles scattered (black to d brn.) soft. (soil formed in glacial till)	1, 2							
	(3.0 - 7.0') Silty clay w/sand fn-med and pebbles scattered; soft; oliv-brn. (weathered glacial till) large cobble @ 6'	3, 4, 5, 6						Background OVA readings.	
	(7.0 - 17.5') Sdy-clayey silt to sdy-silt w/ pebbles (glacial till)	7, 8, 10		Auger with Knockout plug	cuttings				
Δ Scale		Δ Scale							
648.64	(17.5 - 63') Sand; silty fn-med to med to cs; yel-brn to grey; poorly sorted to mod-well sorted in zones. fn gravel -	20, 30, 40, 50						8, 10, 6	WL @ - 25 ft. during drilling.
	Sdy si-clay - w/ pebbles - d brn (glacial till)	60							Sdy clay till on lead auger ~2 ft. Bottom 1' >> drilling pressure.
603.14	(63 -)								
601.14	End Boring @ 65.0 ft.	70							

Illinois Environmental Protection Agency **Monitor Well Construction**

County: DE KALB Boring No.: B-4

Site File Name: SANDWICH PWS #1 & #2 Monitor Well No.: G-104

Site File No.: 0370000000 Prepared By: J. MORSE

Monitor Well Location 50.5' S. of Centerline of alley; 33.2' W of centerline of Pearl St. (see map)

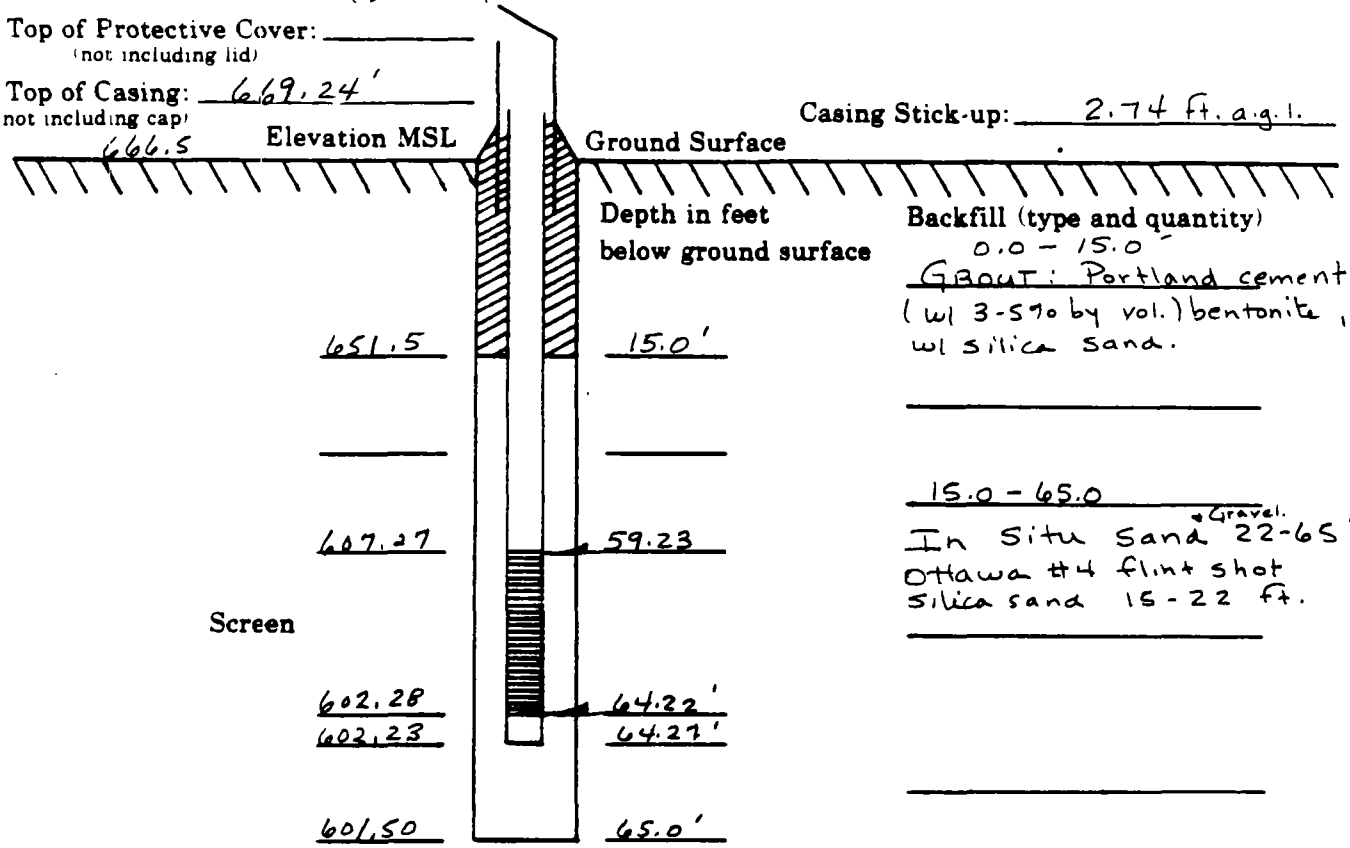
Top of Protective Cover: _____ (not including lid)

Top of Casing: 669.24' (not including cap)

Casing Stick-up: 2.74 ft. a.g.l.

666.5 Elevation MSL

Ground Surface



Elevation MSL	Depth in feet below ground surface	Backfill (type and quantity)
		0.0 – 15.0' GROUT: Portland cement (w/ 3-5% by vol.) bentonite, w/ silica sand.
651.5	15.0'	
		15.0 – 65.0 In situ sand, Gravel. 22-65' Ottawa #4 flint shot silica sand 15-22 ft.
607.27	59.23	
602.28	64.22'	
602.23	64.27'	
601.50	65.0'	

Screen

Casing Type and Size: 304; 2" ID Ø, Environmental thread; stainless steel

Screen Type and Size: 304; 2" ID Ø, Environ. thread; 0.01" slot wirewrap #10 stainless steel

Casing Field Measurements:

bottom of screen 0.05'

top of screen 5.04'

1st joint 5.13'

+10.00 + 10.00 +10.00

+4.98 + 4.99 + 5.00

+4.99 + 4.99 +5.02

+1.91

Total Length of Casing 67.01

Plug (type) 304 stainless steel

Cap (type) _____

Protective Cover (type and size) 4" x 5' steel w/ locking cap.

teflon tape was used on all casing threads.

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No. 0370000000 County DEKALB Boring No. B-4 Monitor Well No. G104

Site File Name SANDWICH PWS #1 & #2 Surface Elev. 666.5 Completion Depth 64.3

Fed. ID. No. 981956527 Auger Depth 65.0' Rotary Depth —

Quadrangle Plano Sec. 36 T. 37 N. R. 5 E. Date: Start 8/24/88 Finish 8/24/88

Boring Location 50.5' S. of center line of alley; 33.2' W of center line of Pearl St. (see map)

Drilling Equipment CME 75; 3 3/4" ID HSA; Knockout plate

Personnel: G - Jeanine Morse; D - Tolan, Bosie; H - Collantino; H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
666.5	(0.0 - 1.0) Silt and Gravel (fill)								Background OVA - 0-2 units.
	(1.0 - 4.0) Silty - Clay - black tr. sand and pebbles (A horizon topsoil)	1, 2, 3							
	(4.0 - 8.0) Silty Clay w/ some sand and tr. pebbles scattered; w/ a grey clay on root traces; oliv-brn (weathered glacial till)	4, 5, 6, 7							
Δscale	(8.0 - 20.0) Cl-Sdy Silt to Sdy Silt w/ tr. clay with pebbles scattered; oliv-brn to oliv-yel brn. (weathered glacial till)	8, 10 Δscale						Background OVA Readings	
646.5	(20.0 - 64.0) Silty Sand to Sand; silty fn sand to fn-med sand with pebbles (fn. gravel) > grain size w/ depth > sorting w/ depth.	20, 30, 40, 50						8, 10, 6, 4, 100	- WL during drilling @ 25 ft.
602.5	Silty - sdy clay - dk brn. w/ fn gvl. pebbles (glacial till) soft. (64 -)	60						50, 10	Sdy clay on lead auger ~ 1 ft.
601.5	End Boring @ 65 ft.	70							

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No.: 0370000000 County DeKalb Boring No. B-5 Monitor Well No. —

Site File Name Sandwich PWS #1 & #2 Surface Elev. _____ Completion Depth 5.0

Fed ID. No 981956527 Auger Depth 5.0 Rotary Depth —

Quadrangle Plano Sec. 36 T. 37 N. R. 5 E. Date: Start 8/25/88 Finish 8/25/88

Boring Location 44' S of centerline of alley; 19' E of furniture store in parking lot (see map)

Drilling Equipment CME 75; 3 3/4" ID HSA; 5 ft. Continuous Sampler

Personnel: G - Jeanine Morse; D - Bosie; H - Collentino; H - Irwin

Elev	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	(0-1 ~) Gravel - silt (fill)	1		Auger					Auger through gravel
	(1-4 ~) Silt to silty clay - tr. sand & pebbles, black. (A horizon topsoil) in glacial till	2, 3	B-5 1-3'	Continuous Sampler 4.0 ft.	3.9 ft.			Background OVA Readings	Composite samples 1-3' and 3-5' depth.
	(4-) Silty clay - clayey silt w/ sd & pebbles yel-bra. (glacial till)	4, 5	B-5 3-5'						
	End Boring @ 5.0 ft.								

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No.: 0370000000 County DEKALB Boring No. B-6 Monitor Well No. —

Site File Name SANDWICH PWS #1 & #2 Surface Elev. _____ Completion Depth 5.0'

Fed ID. No 981956527 Auger Depth 5.0' Rotary Depth —

Quadrangle Plano Sec. 36 T. 37N. R. 5E. Date: Start 8/25/88 Finish 8/25/88

Boring Location 64 ft. S of centerline of alley; 22.5' E of furniture store in parking lot (see map)

Drilling Equipment CME 75; 3 3/4" ID HSA; 5 ft. Continuous Sampler

Personnel
G - JEANINE MORSE
D - BOSIE
H - Collantino
H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	(0-1') Gravel & Silt (fill)							Bg	Auger through gravel fill. Background OVA @ 2.5 units.
	(1-4') Silt to Si-Clay tr. sand & Pebbles - black (A horizon topsoil) in glacial till)	1 2 3	B-6 1-5 ft	Continuous Sampler 4.0'	4.0 ft.			Bg	Bg @ top to slight elevated OVA @ 3 - Composite Sample 1-5 ft. depth.
	(4-) Silty-Clay - Clayey silt w/ sd and pebbles yel-brown (glacial till)	4 5						6	
	End Boring @ 5.0 ft.								

Illinois Environmental Protection Agency **Field Boring Log** Page 1 of 1

Site File No: 037 0000000 County DE KALB Boring No. B7 Monitor Well No. —

Site File Name SANDWICH PWS#1 & #2 Surface Elev. _____ Completion Depth 5.0'

Fed ID. No 981956527 Auger Depth 5.0' Rotary Depth —

Quadrangle Plano Sec. 36 T. 37N. R. 5.E. Date: Start 8/25/88 Finish 8/25/88

Boring Location 87.5' S. of centerline of alley; 23' E of furniture store in parking lot (see map)

Drilling Equipment CME 75; 3 3/4" ID HSA; 5 ft. Continuous Sampler

Personnel: G - Jeanine Morse; D - Borie; H - Collontino; H - Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	(0-1') Gravel & Silt (fill)	1		Auger				BG	auger through gravel fill.
	(1-4') Silt to Si-Clay tr sand and pebbles - black (A horizon topsoil in glacial till)	2, 3, 4	B-7 1-5 ft.	Continuous Sample 4.0'	4.0'			1.6-1.8 (BG)	(B1) OVA 1-1.2
	(4-) Silty-clay to clayey silt w/ sd and pebbles - yel-brn. (glacial till)	5							
	End Boring @ 5.0 ft.								

APPENDIX E

GROUNDWATER MEASUREMENTS AND FLOW DIAGRAMS

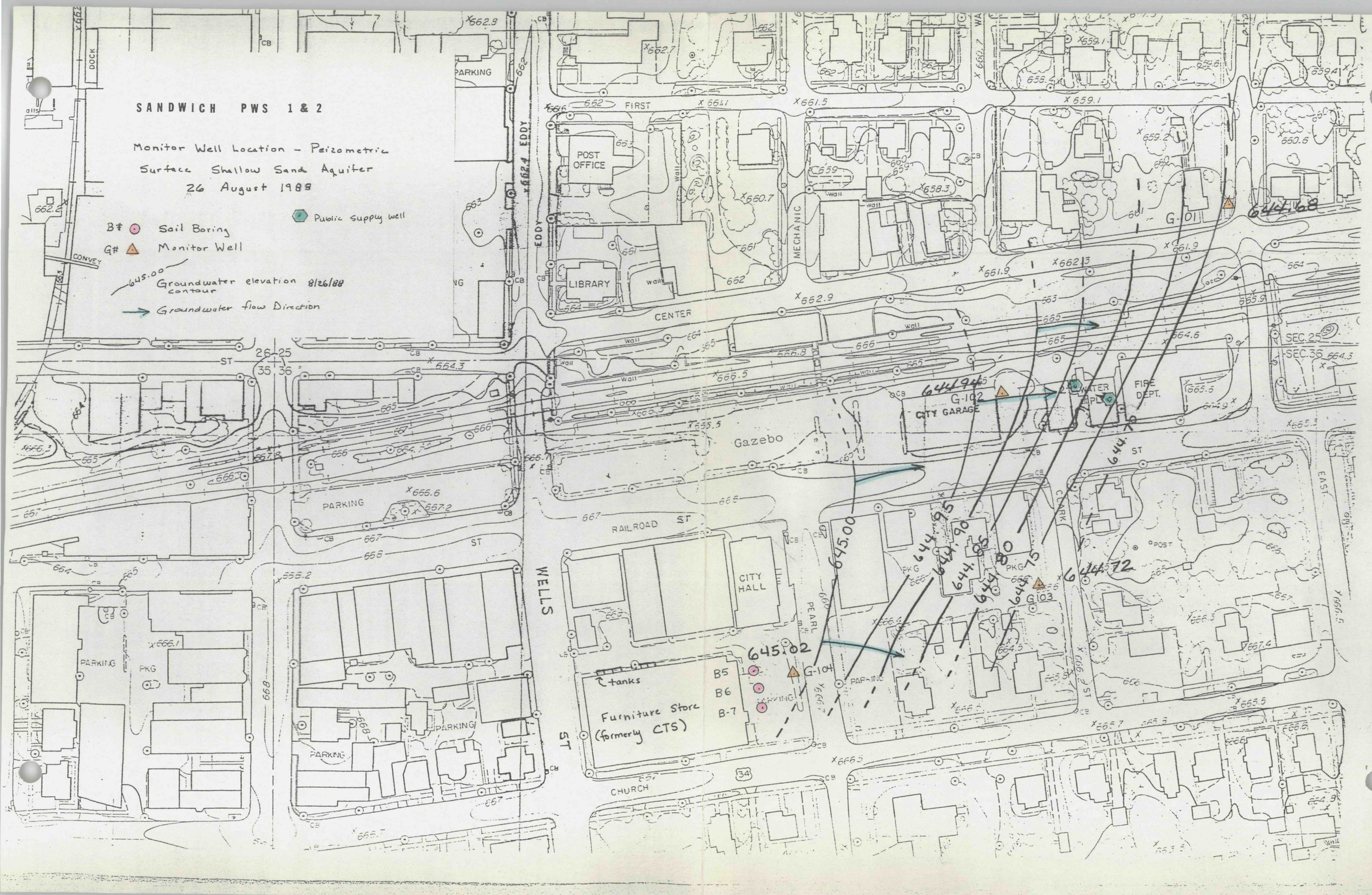
Illinois Environmental Protection Agency **Well Development and Water Level Form**

County: DEKALB Site File Name: SANDWICH PWS #1 & #2 Site File Number: 037 000 0000

Date: 8/26/88 Sample Crew: MORSE, TOLAN, VANHOOK Weather Conditions: Cool! clear

Well #	Length of well casing	Field check of well length	Water Level	# of feet of water in well*	# of gals in well**	# of gals removed	Top of Casing Elevation*** msl	Groundwater Elevation
G-101	62.00'	–	19.56'				664.24'	644.68
G-102	65.29'	–	22.54'				667.48'	644.94
G-103	65.17'	–	24.07				668.79	644.72
G-104	67.01'	–	24.22				669.24	645.02
PWS #2			69'				~669.2	600.2
PWS #2			30'				~669.2	639.2

*Well casing total length – water level = # of feet of water in well


SANDWICH PWS 1 & 2
Monitor Well Location - Peizometric
Surface Shallow Sand Aquifer
26 August 1988
Public supply well
B# Soil Boring
G# Monitor Well
645.00 Groundwater elevation contour 8/26/88
Groundwater flow Direction
POST OFFICE
LIBRARY
CENTER
MECHANIC
FIRST
EDDY
PARKING
CONVEY
DOCK
ST
26 25
35 36
Gazebo
CITY GARAGE
G-102
G-101
644.68
644.94
644.70
644.72
645.00
644.95
644.90
644.85
644.80
644.75
645.02
G-104
G103
WATER PLT
FIRE DEPT.
SEC.25
SEC.36
EAST
CLARK
RAILROAD ST
WELLS ST
CITY HALL
PEARL
PKG
PARKING
tanks
Furniture Store (formerly CTS)
B5
B6
B-7
CHURCH
34

APPENDIX F

TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. chloromethane	10 ug/l	10 ug/kg
2. bromomethane	10	10
3. vinyl chloride	10	10
4. chloroethane	10	10
5. methylene chloride	5	5
6. acetone	10	10
7. carbon disulfide	5	5
8. 1,1-dichloroethene	5	5
9. 1,1-dichloroethane	5	5
10. t-1.2-dichloroethene	5	5
11. 1,2-dichloropropane	5	5
12. chloroform	5	5
13. 1,2-dichloroethane	5	5
14. 2-butanone	10	10
15. 1,1,1-trichloroethane	5	5
16. carbon tetrachloride	5	5
17. vinyl acetate	10	10
18. dichlorobromomethane	5	5
19. c-1,3-dichloropropene	5	5
20. trichloroethene	5	5
21. benzene	5	5
22. chlorodibromomethane	5	5
23. 1,1,2-trichloroethane	5	5
24. t-1,3-dichloropropene	5	5
25. 2-chloroethyl vinyl ether	10	10
26. bromoform	5	5
27. 2-hexanone	10	10
28. 4-methyl-2-pentanone	10	10
29. 1,1,2,2-tetrachloroethane	5	5
30. tetrachloroethene	5	5
31. toluene	5	5
32. chlorobenzene	5	5
33. ethylbenzene	5	5
34. styrene	5	5
35. total xylenes	15	15

CRDL - Contract Required Detection Limit

Base/Neutral Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Hexachloroethane	10 ug/l	330 ug/kg
2. Bis (2-chloroethyl) ether	10	330
3. Benzyl Alcohol	10	330
4. Bis (2-chloroisopropyl) ether	10	330
5. N-nitrosodi-n-propylamine	10	330
6. Nitrobenzene	10	330
7. Hexachlorobutadiene	10	330
8. 2-Methylnaphthalene	10	330
9. 1,2,4-trichlorobenzene	10	330
10. Isophorone	10	330
11. Naphthalene	10	330
12. 4-Chloroaniline	10	330
13. Bis (2-chloroethoxy) methane	10	330
14. Hexachlorocyclopentadiene	10	330
15. 2-chloronaphthalene	10	330
16. 2-Nitroaniline	50	1600
17. Acenaphthylene	10	330
18. 3-Nitroaniline	50	1600
19. Acenaphthene	10	330
20. Dibenzofuran	10	330
21. Dimethylphthalate	10	330
22. 2,6-Dinitrotoluene	10	330
23. Fluorene	10	330
24. 4-Nitroaniline	50	1600
25. 4-Chlorophenyl-phenyl ether	10	330
26. 2,4-Dinitrotoluene	10	330
27. Diethylphthalate	10	330
28. N-Nitrosodiphenylamine	10	330
29. Hexachlorobenzene	10	330
30. Phenanthrene	10	330
31. 4-Bromophenyl-phenyl ether	10	330
32. Anthracene	10	330
33. Dibutylphthalate	10	330
34. Fluoranthene	10	330
35. Pyrene	10	330
36. Butyl benzyl phthalate	10	330
37. Bis (2-ethylhexyl) phthalate	10	330
38. Chrysene	10	330
39. Benzo (a) anthracene	10	330
40. 3,3'-Dichlorobenzidene	20	660
41. Di-n-octyl phthalate	10	330
42. Benzo (b) fluoranthene	10	330
43. Benzo (k) fluoranthene	10	330
44. Benzo (a) pyrene	10	330
45. Indeno (1,2,3-cd) pyrene	10	330
46. Dibenzo (a,h) anthracene	10	330
47. Benzo (g,h,i) perylene	10	330
48. 1,2-Dichlorobenzene	10	330
49. 1,3-Dichlorobenzene	10	330
50. 1,4-Dichlorobenzene	10	330

Acid Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Benzoic Acid	50 ug/l	1600 ug/kg
2. Phenol	10	330
3. 2-chlorophenol	10	330
4. 2-nitrophenol	50	1600
5. 2-methylphenol	10	330
6. 2,4-dimethylphenol	10	330
7. 4-methylphenol	10	330
8. 2,4-dichlorophenol	10	330
9. 2,4,6-trichlorophenol	10	330
10. 2,4,5-trichlorphenol	50	1600
11. 4-chloro-3-methylphenol	10	330
12. 2,4-dinitrophenol	50	1600
13. 2-methyl-4,6-dinitrophenol	50	1600
14. Pentachlorophenol	50	1600
15. 4-nitrophenol	50	1600

Pesticide Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. alpha-BHC	.05 ug/l	8.0 ug/kg
2. beta-BHC	.05	8.0
3. delta-BHC	.05	8.0
4. Lindane (gamma-BHC)	.05	8.0
5. Heptachlor	.05	8.0
6. Aldrin	.05	8.0
7. Heptachlor epoxide	.05	8.0
8. Endosulfan I	.05	8.0
9. 4,4'-DDE	.10	16.0
10. Dieldrin	.10	16.0
11. Endrin	.10	16.0
12. 4,4'-DDD	.10	16.0
13. Endosulfan II	.10	16.0
14. 4,4'-DDT	.10	16.0
15. Endrin aldehyde	.10	16.0
16. Endosulfan sulfate	.10	16.0
17. Methoxychlor	.50	80.0
18. Chlordane	.50	80.0
19. Toxaphene	.50	80.0
20. Arochlor-1016	1.0	160.0
21. Arochlor-1221	.50	80.0
22. Arochlor-1232	.50	80.0
23. Arochlor-1242	.50	80.0
24. Arochlor-1248	.50	80.0
25. Arochlor-1254	1.0	160.0
26. Arochlor-1260	1.0	160.0

Inorganic Target Compounds

Metals Analyses (CRDL)-ug/l*	
Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Chromium	10
Cobalt	50
Copper	25
Iron	100
Lead	5
Manganese	15
Mercury	0.2
Nickel	40
Selenium	5
Silver	10
Thallium	10
Vanadium	50
Zinc	20

Other Inorganics
Cyanide
Sulfide
Phenols
Nitrogen-Ammonia
Nitrogen, Total Kjeldahl
Nitrogen-Nitrate
Boron
pH

*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illutrated in the example below:

For lead:

Method in use -- ICP
Instrument Detection Limit (IDL) = 40
Sample Concentration = 85
Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

APPENDIX G

CHEMICAL ANALYSIS DATA OF IEPA COLLECTED SAMPLES

0374850001
Sandwich PWS
HRS/Tech reports

ARDL inc.

applied research & development laboratory

CHEMISTRY · BIOLOGY · PHYSIOLOGY
ENGINEERING · ENVIRONMENTAL ANALYSIS

12 September 1988

Ms. Sue Doubet
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

RECEIVED
SEP 14 1988
IEPA-DLPC

Subject: Results Summary
7 Work Day Turnaround
Sandwich PWS
ARDL ID # 200067 & 200068
Site Inventory No.: 0374850001

Dear Ms. Doubet:

Enclosed please find the summary of results for analyses performed on samples delivered to our laboratory on August 30-31, 1988 from the referenced site. Seven (7) work day turnaround was requested.

This summary includes results for all samples analyzed for the following parameters:

BNA, Pest/PCB, VOA, Total Metals, Cyanide, Sulfates, Sulfides and Mercury

Copies of the Chain-of-Custody Documentation are also included.

This summary is dated and post-marked on or before the September 12, 1988 due date as required in the General Requirements of the SOW.

The final data package will be submitted after all remaining IEPA 30-day packages have been submitted.

Thank you.

Sincerely yours,

Daniel J. Gillespie

Daniel J. Gillespie
Technical Services Manager

DJG/jm

Enclosure

P.O. Box 1566 · 1801 W. Forest Street · Mt. Vernon, Illinois 62864 · (618)244-3235

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 0374850001 County DeKalb

Federal I.D. No. _____ Sandwich RWS (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
B-5(1-3)	KWC	3	8-25-88	2:00 AM/PM
B-5(3-5)	KWC	3	8-25-88	2:00 AM/PM
B-6	KWC	3	8-25-88	2:00 AM/PM
B-7	KWC	3	8-25-88	2:00 AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature Ken Corkill Date 8-26-88 Time 2:00 AM/PM

Sampler(s) Jeanne Morse

CARRIERS

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
Ken Corkill	8-26-88	2:00 AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature _____ Date _____ Time _____ A.M. P.M.

Lab Location _____ (City)

IL 532-1147
LPC 141 9/83

120-011

IEPA CLP
CHAIN OF CUSTODY

Seal #: [illegible]

Date Sealed: 8/24/88 By: AW

Facility
Name: SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory #: 0374850001
Site Billing Code: SA-06
Project Manager: KEN CORKILL

LABORATORY #	SAMPLE I D	SAMPLE DATE	SAMPLE TIME
[redacted]	B-5 1-3'	8/25/88	

Jeanine Morse

N.	Code	Size	Pres		
1	5	32oz		BNA, PEST/PCB	15
2	[illegible]	32oz		TOTAL METALS, CYANIDE, SULFIDES	7
				SULFATES, MERCURY	0
	[illegible]	[illegible]		VOA	

Jeanine Morse — Jeanine Morse

8/25/88 11:45a 0003425 O

K CORKILL — K Corkill

8-26-88 2 cap 3426

FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory [illegible] at all times [illegible]

Opened by (print): [illegible]

Date: 8/30/88 Time: [illegible] Seal #: [illegible] Intact? Y / N

Lab Name: ARDL Inc. Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3425

Date Sealed: 8/24/88 By: AW

Facility
Name: SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory #: 0374850001
Site Billing Code: SA-06
Project Manager: FEN CORKILL

[redacted]

B-5 3-5' 8/25/88

CONTAINER				ANALYSIS
No	Code	Size	Pres	
	3	32oz		BNA, PEST/PCB
	1	32oz		TOTAL METALS, CYANIDE, SULFIDES
				SULFATES, MERCURY
	12	2oz	1	VOA

JEANINE MORSE Jeanine Morse

8/26/88 11:45a 0003425 0

K. CORKILL K Corkill

8-26-88 2:00 p 3426

FED EX.

Courier - sample delivery: Fed Ex

I certify that I [redacted] that each bottle [redacted] the custody of [redacted]

Opened [redacted]

Date: [redacted]

Lab Name: [redacted]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3425

Date Sealed: 8/24/88 By: K.W.

Facility
Name: SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory #: 0374850001
Site Billing Code: SA-06
Project Manager: KEN CORKILL

[redacted]

B-6 8/25/88

CONTAINER				ANALYSIS
No	Code	Size	Pres	
	5	32oz		DNA, PEST, PCB
	5	32oz		TOTAL METALS, CYANIDE, SULFIDES, SULFATES, MERCURY
	1	2oz		VOA

JEANINE MORSE Jeanine Morse

8/25/88 11:45a 0003425

K. Corkill K. Corkill

8-26-88 2:00p 3426

FED EX

Courier - sample delivery: Fed Ex

I certify that I received [illegible] container and seal intact and that each bottle [illegible] be in the custody of [illegible]

Opened by [illegible] Signature [illegible]

Date: [illegible]

Lab Name: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3426

Date Sealed: 8/24/88 By: AW

Facility
Name : SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory # : 0374850001
Site Billing Code: SA-06
Project Manager : KEN CORKILL

[redacted]

B-7 8/25/88

CONTAINER				ANALYSIS
No	Code	Size	Pres	
1	5	32oz		BNA, PEST/PCB
1	5	32oz		TOTAL METALS, CYANIDE, SULFIDES
				SULFATES, MERCURY
		2oz		VOA

JEANINE MORSE Jeanine Morse

8/25/88 11:45 a 0003425 0

K. Corkill K. Corkill

5-26-88 2:00 p 3426

FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact [illegible] that each bottle in the shipping [illegible] in the [illegible] book [illegible] the custody of competent laboratory [illegible]

Opened by (print): [illegible] Signature: [illegible]

Date: 8/[illegible] [illegible]

Lab Name: [illegible]

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 0374850001 County DE KALB

Federal I.D. No. _____ SANDWICH PWS (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
G101	KWC	11	8-30-88	11:35 AM/PM
G102	KWC	11	8-30-88	12:15 AM/PM
G103	KWC	11	8-30-88	2:30 AM/PM
G104	KWC	11	8-30-88	2:00 AM/PM
				AM/PM
X101	KWC	3	8-30-88	2:45 AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature K. Corkill Date 8-30-88 Time 2:45 AM/PM

Sampler(s) [illegible]

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

CARRIERS

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
K Corkill	8-30-88	AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature _____ Date _____ Time _____ A.M. P.M.

Lab Location _____ (City)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND POLLUTION CONTROL
CHAIN OF CUSTODY

I certify that the samples listed below were collected in my presence and that each sample bottle was sealed intact by me and that I wrote my initials and the date on the seal of each bottle.

Site Inventory No. 0374850001 County DE KALB

Federal I.D. No. _____ SANDWICH PWS (Facility Name)

SAMPLING TEAM

Sample No.	Initials	Consisting of the Indicated No. of Bottles	Date Collected	Time Sealed
X102	KWC	3	8-30-88	3:15 AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM
				AM/PM

Sealer's Signature K Corkill Date 8-30-88 Time 3:15 AM/PM

Sampler(s) _____ _____ _____

CARRIERS

I certify I received the above samples, with each seal on each bottle intact and the sealer's initials written on each sample seal.

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time
K Corkill	8-30-88	AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

LAB CUSTODIAN

I certify I received the above samples with each seal on each bottle intact, and the sealer's initials written on each sample seal. After recording these samples in the official record book, these same samples will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature _____ Date _____ Time _____ A.M. P.M.

Lab Location _____ (City)

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3773
Date Sealed: 8/29/88 By: KWW

Facility
Name : SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory # : 0374850001
Site Billing Code: SA-06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE ID	SAMPLE DATE	SAMPLE TIME
[redacted]	G101	8-30-88	11:20 A

CLEAR

7 DAY TURN AROUND
K Corkill LPC/IEPA

CONTAINER No	Code	Size	Pres	ANALYSIS			
2	9	1/2g		BNA	N	8:30	11:20
2	F	1/2g		PEST/PCB	N		
2	9	40ml		VOA	N		
1		1l	GRN	TOTAL METALS	Y		
1	3	1l	BLK	CYANIDE	N		
1	3	1l	PUR	SULFIDES	N		
1	3	1l		SULFATES	N		
1	10	500ml	GRY	MERCURY	Y		

K CORKILL Signature K Corkill
8-30-88 Time 11:05 Seal # 3773

K. CORKILL Signature K Corkill
8-30-88 Time 11:35A Seal # 3774
FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the [illegible] listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. [illegible] the sample in the official sample book, the sample will be in the custody of competent laboratory [illegible]

Opened by (print): [illegible]

Date: 8/31/88 Time: [illegible]

Lab Name: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3775

Date Sealed: 8/29/88 By: AW

Facility
Name : SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory # : 0374850001
Site Billing Code: SA-06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	G102	8-30-88	11:50 A

CLEAR
7-DAY TURN AROUND
K. Corkill LPC/IEPA

CONTAINER No	Code	Size	Pres	ANALYSIS			
2	9	1/2g		BNA	N	8-30	11:50
[illegible]	9	1/2g		PEST/PCB	N		
[illegible]	[illegible]	40ml		VOA	N		
1	[illegible]	11	GRN	TOTAL METALS	Y		
1	[illegible]	11	BLK	CYANIDE	N		
1	[illegible]	11	PUP	SULFIDES	N		
1	3	11		SULFATES	N		
1	10	500ml	GRY	MERCURY	Y		

K. CORKILL K. Corkill
8-30-88 11:45 A 3775 0

K. CORKILL K. Corkill
8-30-88 12:15 3776
FED EX

Courier - sample delivery: Fed Ex

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent [illegible] or locked in a [illegible]

Opened by (pr[illegible]

Date: 8/31/[illegible] Intact: Y / N

Lab Name: [illegible] bottles

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3781

Date Sealed: 8/29/88 By: AW

Facility
Name : SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory # : 0374850001
Site Billing Code: SA-06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	G-103	8-30-88	2:10p

CLEAR

7-DAY TURN AROUND

K. Corkill LPC/IEPA

No	Code	Size	Pres				
2	9	1/2g		BNA	N	8-30	2:10
2	9	1/2g		PEST/PCB	N		
2	8	40ml		VOA	N		
1	3	1l	GRN	TOTAL METALS		Y	
1	3	1l	BLK	CYANIDE	N		
1	3	1l	PUP	SULFIDES	N		
1	3	1l		SULFATES	N		
1	10	500ml	GRY	MERCURY		Y	

K. CORKILL K. Corkill
8-30-88 12:15p 3781 0

K. CORKILL K. Corkill
8-30-88 2:30p 3782
FED. EX.

Courier - sample delivery: Fed. Ex.

I certify that I received [illegible] listed above with the shipping container and seal intact and that each bottle in the [illegible] the sample will be in the custody as competent [illegible]

Opened by (print) [illegible]

Date: 8/[illegible] [illegible] intact [illegible]

Lab Name: [illegible] Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3783

Date Sealed: 8/29/88 By: [illegible]

Facility
Name : SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory # : 0374850001
Site Billing Code: SA-06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	G104	8-30-88	1:35p

CLEAR

7-DAY TURN AROUND

K. Corkill LPC/IEPA

CONTAINER No	Code	Size	Pres	ANALYSIS			
2	9	1/2g		BNA	N	8-30	1.35
2	9	1/2g		PEST/PCB	N		
2	[illegible]	40ml		VOA	N		
1	[illegible]	1l	GRN	TOTAL METALS		Y	
1	9	1l	BLK	CYANIDE	N		
1	9	1l	PUP	SULFIDES	N		
1	9	1l		SULFATES	N		
1	10	500ml	GRY	MERCURY		Y	

K. CORKILL K. Corkill
8-30-88 12:35p 3783

K. CORKILL K. Corkill
8-30-88 2:00p 3784
FED. EX.

Courier - sample delivery: Fed Ex

I certify that I received [illegible] shipping container from the courier listed above with the shipping container [illegible] that each bottle in [illegible] the sample [illegible] the custody of [illegible]

Opened by [illegible]

Date: [illegible] Seal #: 3784 Intact [illegible]

Lab Name: [illegible] Comments: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: [illegible]

Date Sealed: 8/29/88 By: AWu

Facility
Name : SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory # : 0374850001
Site Billing Code: SA-06
Project Manager : KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	X 101	8-30-88	2:45

OILY YELLOW - BLACK
7-DAY TURN AROUND
K. Corkill LPC/IEPA

No	Code	Size	Pres				
1	5	32oz		BNA, PEST/PCB	N	8-30	2:45
1	5	[illegible]		TOTAL METALS, CYANIDE, SULFIDES			
				SULFATES, MERCURY			
1	1	[illegible]		VOA			

K. CORKILL		K. Corkill	
8-30-88	2:30p	EV. TAPE	O

K. CORKILL		K. Corkill	
8-30-88	3:15p	STRAPPING TAPE + EV. TAPE	
	FED. EX		

Courier - sample delivery: [illegible]

I certify that I received the sample shipping container from the courier listed above [illegible] that each bottle in the shipping container was intact. After receiving the samples [illegible] custody of [illegible]

Opened by [illegible]

Date: [illegible] Time: [illegible]

Lab Name: [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal #: 3775

Date Sealed: 8/29/88 By: AWW

Facility Name: SANDWICH PWS
Region: ROCKFORD
County: DE KALB

Site Inventory #: 0376850011
Site Billing Code: SA-06
Project Manager-: KEN CORKILL

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
[redacted]	TB	8-30-88	11:50

Sample Appearance:

Collector Comments: 7-DAY TURN AROUND

Sampler Signature: K. Corkill Div. Sampler: LPC/IEPA

CONTAINER				ANALYSIS	FILTERING	
No	Code	Size	Pres		(Y/N)	Date / Time
2	8	40ml	—	TRIP BLANK		8-30

CHAIN OF CUSTODY CHRONICLE

Opened by: print: K. CORKILL Signature: K. Corkill

Date: 8-30-88 Time: 11:45 Seal #: 3775 Intact? (Y) N

Opened by: print: K. CORKILL Signature: K. Corkill

Date: 8-30-88 Time: 12:15 Seal #: 3776

Sample pickup: FED EX

Courier - Sampl[redacted]

I certify that I [redacted]

that each bottle [redacted]

Opened [redacted]

Date [redacted]

Lab Name [redacted]

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: B-5 1-3

Matrix (soil/water): Soil Lab Sample ID: 200047-1

Level (low/Med): Date Received: 8/30/96

% Solids: 96.1

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	10,200		P	
7440-36-0	Antimony	7.24	N	P	
7440-38-2	Arsenic	1.92		BH	
7440-39-3	Barium	135		P	
7440-41-7	Beryllium	0.164		P	
7440-43-9	Cadmium	2.5	N	P	
7440-70-2	Calcium	16,200	*	P	
7440-47-3	Chromium	12.9		P	
7440-48-4	Cobalt	10.5		P	
7440-50-8	Copper	18.4		P	
7439-89-6	Iron	16,900		P	
7439-92-1	Lead	83		P	
7439-95-4	Magnesium	7700	*	P	
7439-96-5	Manganese	600		P	
7439-97-6	Mercury	0.11		CV	
7440-02-0	Nickel	18.9		P	
7440-09-7	Potassium	1410		P	
7782-49-2	Selenium	0.31U		BH	
7440-22-4	Silver	1.8	N	P	
7440-23-5	Sodium	[104]		P	
7440-28-0	Thallium	1.5U		F	
7440-62-2	Vanadium	27.7		P	
7440-66-6	Zinc	545	*	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM I3

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: B-5 1-3

Matrix (soil/water): SOIL Lab Sample ID: 200067-1

Level (low/Med): Date Received: 8/30/88

% Solids: 96.1

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.35			
	Phenol				
	Sulfate	250			
	Sulfide	5.0U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: B-5 3-5

Matrix (soil/water): soil Lab Sample ID: 200067-2

Level (low/Med): Date Received: 8/30/98

% Solids: 96.3

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	15,300		P	
7440-36-0	Antimony	7.4U	N	P	
7440-38-2	Arsenic	4.4B		BH	
7440-39-3	Barium	134		P	
7440-41-7	Beryllium	0.17U		P	
7440-43-9	Cadmium	0.82	N	P	
7440-70-2	Calcium	2670	*	P	
7440-47-3	Chromium	15.3		P	
7440-48-4	Cobalt	12.0		P	
7440-50-8	Copper	19.9		P	
7439-89-6	Iron	21,000		P	
7439-92-1	Lead	6.4		F	
7439-95-4	Magnesium	3500	*	P	
7439-96-5	Manganese	600		P	
7439-97-6	Mercury	0.032U		CV	
7440-02-0	Nickel	26.5		P	
7440-09-7	Potassium	1560		P	
7782-49-2	Selenium	0.33U		BH	
7440-22-4	Silver	1.1U	N	P	
7440-23-5	Sodium	91U		P	
7440-28-0	Thallium	15U		F	
7440-62-2	Vanadium	30.0		P	
7440-66-6	Zinc	70.0	*	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM I3

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: B-5 3-5

Matrix (soil/water): Soil Lab Sample ID: 200067-2

Level (low/Med): Date Received: 8/30/88

% Solids: 96.3

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.25 U			
	Phenol				
	Sulfate	670			
	Sulfide	5.0 U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: B-6

Matrix (soil/water): soil Lab Sample ID: 300067-3

Level (low/Med): Date Received: 8/30/88

% Solids: 96.5

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	14,100		P	
7440-36-0	Antimony	6.24	N	P	
7440-38-2	Arsenic	3.10		BH	
7440-39-3	Barium	135		P	
7440-41-7	Beryllium	0.14U		P	
7440-43-9	Cadmium	0.69	N	P	
7440-70-2	Calcium	6500	*	P	
7440-47-3	Chromium	15.3		P	
7440-48-4	Cobalt	11.6		P	
7440-50-8	Copper	19.8		P	
7439-89-6	Iron	19800		P	
7439-92-1	Lead	43		P	
7439-95-4	Magnesium	4700	*	P	
7439-96-5	Manganese	610		P	
7439-97-6	Mercury	0.17		CV	
7440-02-0	Nickel	23.5		P	
7440-09-7	Potassium	1530		P	
7782-49-2	Selenium	0.28U		BH	
7440-22-4	Silver	0.97U	N	P	
7440-23-5	Sodium	[124]		P	
7440-28-0	Thallium	14U		F	
7440-62-2	Vanadium	29.7		P	
7440-66-6	Zinc	104	*	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM I3

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: B-6

Matrix (soil/water): soil Lab Sample ID: 200067-3

Level (low/Med): Date Received: 9/30/88

% Solids: 96.5

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.34			
	Phenol				
	Sulfate	370			
	Sulfide	5.0u			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: B-7

Matrix (soil/water): Soil Lab Sample ID: 200067-4

Level (low/Med): Date Received: 9/30/89

% Solids: 98.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	12,100		P	
7440-36-0	Antimony	6.9U	N	P	
7440-38-2	Arsenic	6.28		BH	
7440-39-3	Barium	163		P	
7440-41-7	Beryllium	0.15U		P	
7440-43-9	Cadmium	0.76U	N	P	
7440-70-2	Calcium	5960	*	P	
7440-47-3	Chromium	14.3		P	
7440-48-4	Cobalt	11.2		P	
7440-50-8	Copper	16.3		P	
7439-89-6	Iron	15,300		P	
7439-92-1	Lead	150		P	
7439-95-4	Magnesium	3670	*	P	
7439-96-5	Manganese	807		P	
7439-97-6	Mercury	[0.078]		CV	
7440-02-0	Nickel	19.3		P	
7440-09-7	Potassium	1410		P	
7782-49-2	Selenium	0.31U		BH	
7440-22-4	Silver	1.1U	N	P	
7440-23-5	Sodium	86U		P	
7440-28-0	Thallium	1.3U		F	
7440-62-2	Vanadium	27.5		P	
7440-66-6	Zinc	387	*	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: B-7

Matrix (soil/water): SOIL Lab Sample ID: 200067-4

Level (low/Med): Date Received: 8/30/88

% Solids: 98.2

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.16			
	Phenol				
	Sulfate	140			
	Sulfide	5.0u			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G101

Matrix (soil/water): water Lab Sample ID: 2000 u8-1

Level (low/Med): Date Received: 9/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	[150]		P	
7440-36-0	Antimony	45 U		P	
7440-38-2	Arsenic	1 U		BH	
7440-39-3	Barium	[63]		P	
7440-41-7	Beryllium	1 U		P	
7440-43-9	Cadmium	5 U	N	P	
7440-70-2	Calcium	110,000		P	
7440-47-3	Chromium	9 U		P	
7440-48-4	Cobalt	10 U		P	
7440-50-8	Copper	8 U		P	
7439-89-6	Iron	50 U		P	
7439-92-1	Lead	0.017		F	
7439-95-4	Magnesium	52,400		P	
7439-96-5	Manganese	120		P	
7439-97-6	Mercury	0.1 U		CV	
7440-02-0	Nickel	25 U		P	
7440-09-7	Potassium	7600		P	
7782-49-2	Selenium	2 U		BH	
7440-22-4	Silver	7 U	N	P	
7440-23-5	Sodium	31,000		P	
7440-28-0	Thallium	0.1 U		F	
7440-62-2	Vanadium	15 U		P	
7440-66-6	Zinc	8 U		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G101

Matrix (soil/water): WATER Lab Sample ID: 200068-1

Level (low/Med): Date Received: 4/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5.0U			
	Phenol				
	Sulfate	81,000			
	Sulfide	1000 U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G-102

Matrix (soil/water): water Lab Sample ID: 200048-2

Level (low/Med): Date Received: 8/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	[190]		P	
7440-36-0	Antimony	[59]		P	
7440-38-2	Arsenic	[3]		BH	
7440-39-3	Barium	[64]		P	
7440-41-7	Beryllium	1U		P	
7440-43-9	Cadmium	5U	N	P	
7440-70-2	Calcium	110,000		P	
7440-47-3	Chromium	9U		P	
7440-48-4	Cobalt	10U		P	
7440-50-8	Copper	69		P	
7439-89-6	Iron	50U		P	
7439-92-1	Lead	0.011		F	
7439-95-4	Magnesium	50,800		P	
7439-96-5	Manganese	17		P	
7439-97-6	Mercury	0.1U		CV	
7440-02-0	Nickel	25U		P	
7440-09-7	Potassium	5300		P	
7782-49-2	Selenium	2U		BH	
7440-22-4	Silver	7U	N	P	
7440-23-5	Sodium	[16,000]		P	
7440-28-0	Thallium	0.01U		F	
7440-62-2	Vanadium	15U		P	
7440-66-6	Zinc	8U		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G102

Matrix (soil/water): WATER Lab Sample ID: 200068-2

Level (low/Med): Date Received: 8/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5.0 u			
	Phenol				
	Sulfate	72000			
	Sulfide	1000 u			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G103

Matrix (soil/water): water Lab Sample ID: 2000608-3

Level (low/Med): Date Received: 8/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	[170]		P	
7440-36-0	Antimony	[46]		P	
7440-38-2	Arsenic	1u		BH	
7440-39-3	Barium	[59]		P	
7440-41-7	Beryllium	1U		P	
7440-43-9	Cadmium	5U	N	P	
7440-70-2	Calcium	110,000		P	
7440-47-3	Chromium	9U		P	
7440-48-4	Cobalt	10 U		P	
7440-50-8	Copper	47		P	
7439-89-6	Iron	70,100		P	
7439-92-1	Lead	0.011		F	
7439-95-4	Magnesium	49,300		P	
7439-96-5	Manganese	200		P	
7439-97-6	Mercury	0.1U		CV	
7440-02-0	Nickel	25U		P	
7440-09-7	Potassium	8300		P	
7782-49-2	Selenium	2u		BH	
7440-22-4	Silver	7U	N	P	
7440-23-5	Sodium	36,000		P	
7440-28-0	Thallium	0.1U		F	
7440-62-2	Vanadium	15U		P	
7440-66-6	Zinc	8U		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G103

Matrix (soil/water): WATER Lab Sample ID: 200068-3

Level (low/Med): Date Received: 8/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5.0 u			
	Phenol				
	Sulfate	110 000			
	Sulfide	1000 u			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: G104

Matrix (soil/water): water Lab Sample ID: 200068-4

Level (low/Med): Date Received: 8/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	[180]		P	
7440-36-0	Antimony	[89]		P	
7440-38-2	Arsenic	[2]		BH	
7440-39-3	Barium	[91]		P	
7440-41-7	Beryllium	1U		P	
7440-43-9	Cadmium	5U	N	P	
7440-70-2	Calcium	130,000		P	
7440-47-3	Chromium	9 U		P	
7440-48-4	Cobalt	10U		P	
7440-50-8	Copper	29		P	
7439-89-6	Iron	181,000		P	
7439-92-1	Lead	0.008		F	
7439-95-4	Magnesium	527,000		P	
7439-96-5	Manganese	170		P	
7439-97-6	Mercury	0.1U		CV	
7440-02-0	Nickel	25U		P	
7440-09-7	Potassium	12,000		P	
7782-49-2	Selenium	2U		BH	
7440-22-4	Silver	7U	N	P	
7440-23-5	Sodium	39,000		P	
7440-28-0	Thallium	0.01U		F	
7440-62-2	Vanadium	15U		P	
7440-66-6	Zinc	8U		P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IB

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: G104

Matrix (soil/water): WATER Lab Sample ID: 200068-4

Level (low/Med): Date Received: 8/31/88

% Solids:

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	5.0 U			
	Phenol				
	Sulfate	110 000			
	Sulfide	1000 U			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X101

Matrix (soil/water): soil Lab Sample ID: 200068-5

Level (low/Med): Date Received: 8/31/88

% Solids: 60.5

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	4130		P	
7440-36-0	Antimony	10.44	N	P	
7440-38-2	Arsenic	2.0		BH	
7440-39-3	Barium	48		P	
7440-41-7	Beryllium	0.234		P	
7440-43-9	Cadmium	1.164		P	
7440-70-2	Calcium	5350		P	
7440-47-3	Chromium	26.4		P	
7440-48-4	Cobalt	[4.13]		P	
7440-50-8	Copper	76.7		P	
7439-89-6	Iron	18,800		P	
7439-92-1	Lead	5.8		F	
7439-95-4	Magnesium	[450]		P	
7439-96-5	Manganese	196	N	P	
7439-97-6	Mercury	0.040U		CV	
7440-02-0	Nickel	31		P	
7440-09-7	Potassium	56		P	
7782-49-2	Selenium	0.46U		BH	
7440-22-4	Silver	[2.2]	N	P	
7440-23-5	Sodium	840		P	
7440-28-0	Thallium	1.4U		F	
7440-62-2	Vanadium	23		P	
7440-66-6	Zinc	298	N	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM I3

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X101

Matrix (soil/water): SOIL Lab Sample ID: 200068-5

Level (low/Med): Date Received: 8/31/88

% Solids: 60.5

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

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.25U			
	Phenol				
	Sulfate	330			
	Sulfide	580			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM IA

INORGANIC ANALYSIS DATA SHEET
METALS

Lab Name: ARDL, Inc. IEPA Sample No.: X102

Matrix (soil/water): soil Lab Sample ID: 200068-6

Level (low/Med): Date Received: 8/31/88

% Solids: 73.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	M	Q
7429-90-5	Aluminum	2300		P	
7440-36-0	Antimony	9.7U	N	P	
7440-38-2	Arsenic	1.6		BH	
7440-39-3	Barium	118		P	
7440-41-7	Beryllium	0.22U		P	
7440-43-9	Cadmium	2.1		P	
7440-70-2	Calcium	4260		P	
7440-47-3	Chromium	25		P	
7440-48-4	Cobalt	[5.5]		P	
7440-50-8	Copper	90		P	
7439-89-6	Iron	26,000		P	
7439-92-1	Lead	38		P	
7439-95-4	Magnesium	1800		P	
7439-96-5	Manganese	232	N	P	
7439-97-6	Mercury	0.082		CV	
7440-02-0	Nickel	42		P	
7440-09-7	Potassium	52U		P	
7782-49-2	Selenium	0.44U		BH	
7440-22-4	Silver	1.5U	N	P	
7440-23-5	Sodium	[160]		P	
7440-28-0	Thallium	1.4U		F	
7440-62-2	Vanadium	51		P	
7440-66-6	Zinc	1500	N	P	

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

FORM I B

INORGANIC ANALYSIS DATA SHEET
OTHER INORGANICS

Lab Name: ARDL, Inc. IEPA Sample No.: X102

Matrix (soil/water): Soil Lab Sample ID: 200068-6

Level (low/Med): Date Received: 8/31/88

% Solids: 73.2

Concentration Units (ug/L or mg/kg dry weight): Mg/Kg

CAS No.	Analyte	Concentration	C	M	Q
	Cyanide	0.25U			
	Phenol				
	Sulfate	270			
	Sulfide	400			

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Chloromethane	[illegible]	[illegible]
[illegible]	Bromomethane	[illegible]	[illegible]
[illegible]	Vinyl Chloride	[illegible]	[illegible]
[illegible]	Chloroethane	[illegible]	[illegible]
[illegible]	Methylene Chloride	[illegible]	[illegible]
[illegible]	Acetone	[illegible]	[illegible]
[illegible]	Carbon Disulfide	[illegible]	[illegible]
[illegible]	1,1-Dichloroethene	[illegible]	[illegible]
[illegible]	1,1-Dichloroethane	[illegible]	[illegible]
[illegible]	1,2-Dichloroethene (total)	[illegible]	[illegible]
[illegible]	Chloroform	[illegible]	[illegible]
[illegible]	1,2-Dichloroethane	[illegible]	[illegible]
[illegible]	2-Butanone	[illegible]	[illegible]
[illegible]	1,1,1-Trichloroethane	[illegible]	[illegible]
[illegible]	Carbon Tetrachloride	[illegible]	[illegible]
[illegible]	Vinyl Acetate	[illegible]	[illegible]
[illegible]	Bromodichloromethane	[illegible]	[illegible]
[illegible]	1,2-Dichloropropane	[illegible]	[illegible]
[illegible]	cis-1,3-Dichloropropene	[illegible]	[illegible]
[illegible]	Trichloroethene	[illegible]	[illegible]
[illegible]	Dibromochloromethane	[illegible]	[illegible]
[illegible]	Benzene	[illegible]	[illegible]
[illegible]	trans-1,3-Dichloropropene	[illegible]	[illegible]
[illegible]	Bromoform	[illegible]	[illegible]
[illegible]	4-Methyl-2-Pentanone	[illegible]	[illegible]
[illegible]	2-Hexanone	[illegible]	[illegible]
[illegible]	Tetrachloroethene	[illegible]	[illegible]
[illegible]	1,1,2,2-Tetrachloroethane	[illegible]	[illegible]
[illegible]	Toluene	[illegible]	[illegible]
[illegible]	Chlorobenzene	[illegible]	[illegible]
[illegible]	Ethylbenzene	[illegible]	[illegible]
[illegible]	Styrene	[illegible]	[illegible]
[illegible]	Xylene	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

1C
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B-5 1-3

Lab Name: FEDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >V0364

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/01/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	13.73	24.	
2.		Unknown	34.59	23.	
2.					
3.					
4.					
5.					
6.					
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23.					
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30.					

1H

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5 1-3DL

Lab Name: HRDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 700067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-1DL

Sample wt/vol: 1 (g/mL) G Lab File ID: V0449

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/10/88

Column: (pack/cap) PACK Dilution Factor: 5.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
74-87-3	Chloromethane	50.	U D
74-83-9	Bromomethane	50.	U D
75-01-4	Vinyl Chloride	50.	U D
75-00-3	Chloroethane	50.	U D
75-09-2	Methylene Chloride	180.	BD
67-64-1	Acetone	200.	BD
75-15-0	Carbon Disulfide	25.	U D
75-35-4	1,1-Dichloroethene	25.	U D
75-34-3	1,1-Dichloroethane	25.	U D
540-59-0	1,2-Dichloroethene (total)	25.	U D
67-66-3	Chloroform	25.	U D
107-02-2	1,2-Dichloroethane	25.	U D
78-93-3	2-Butanone	50.	U D
71-55-6	1,1,1-Trichloroethane	25.	U D
56-23-5	Carbon Tetrachloride	25.	U D
108-05-4	Vinyl Acetate	50.	U D
75-27-4	Bromodichloromethane	25.	U D
78-87-5	1,2-Dichloropropane	25.	U D
10061-01-5	cis-1,3-Dichloropropene	25.	U D
79-01-6	Trichloroethene	410.	D
124-48-1	Dibromochloromethane	25.	U D
79-00-5	1,1,2-Trichloroethane	25.	U D
71-43-2	Benzene	25.	U D
10061-02-6	trans-1,3-Dichloropropene	25.	U D
75-25-2	Bromoform	25.	U D
108-10-1	4-Methyl-2-Pentanone	50.	U D
591-78-6	2-Hexanone	50.	U D
127-18-4	Tetrachloroethene	25.	U D
79-34-5	1,1,2,2-Tetrachloroethane	25.	U D
108-88-3	Toluene	87.	D
108-90-7	Chlorobenzene	25.	U D
100-41-4	Ethylbenzene	25.	U D
100-42-5	Styrene	25.	U D
108-38-3	m-Xylene	25.	U D
106-42-3	o & p-Xylene	25.	U D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B-5 1-3DI

Lab Name: ARDL, INC Contract: SANDWICH FWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-10I

Sample wt/vol: 1 (g/mL) G Lab File ID: V0449

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec 0.1 Date Analyzed: 9/10/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	34.54	11.	
1.					
2.					
3.					
4.					
5.					
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28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B 5 [illegible]

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: [illegible]V0392

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/03/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	19.	B
67-64-1	Acetone	34.	B
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropene	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

B 5 3-5

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V0392

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/03/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.75	36.	
2. 123911	DIOXANE	15.81	7.	
3.	Unknown	27.21	7.	
4.	Unknown	34.70	13.	
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D-6

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V0368

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/01/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	100.	B
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	170.	
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

B-6

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: ----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-3

Sample wt/vol: 5.0 (g/mL) G Lab File ID: -V0368

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/01/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	6.99	12.	
2.	Unknown	27.35	9.	
3.	Unknown	27.58	23.	
4.	Unknown	27.97	34.	
5.	Unknown	28.39	13.	
6.	Unknown	29.79	19.	
7.	Unknown	31.34	12.	
8.	Unknown	33.47	14.	
9.	Unknown	34.52	110.	
10.	Unknown	37.27	10.	
11.	Unknown	38.09	7.	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-7

Lab Name: APOL, INC Contract: SANDWICH PWS

Lab Code: ---- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-4

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V0369

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/01/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	31.	B
67-64-1	Acetone	39.	B
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	32.	B
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	170.	
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1L

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

[illegible]

Lab Name: HRDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200067-[illegible]

Sample wt/vol: 5.0 (g/mL) G Lab File ID: [illegible]00369

Level: (low/med) LOW Date Received: 08/30/88

% Moisture: not dec. 0.1 Date Analyzed: 9/01/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	34.60	30.	
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1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101

Lab Name: ARDL, INC Contract: SANDWICH P-3

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: SV0383

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	11.	B
67-64-1	Acetone	5.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1L

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101

Lab Name: ERCL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: ----

Matrix: (soil/water) WATER Lab Sample ID: 200068 1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >V0383

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.100 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.73	77.	
2.	Unknown	34.55	4.	
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G102

Lab Name: GRDL, INC Contract: SANDWICH PWS

Lab Code: - --- Case No.: 200068 SAS No.: ----- SDG No.: --- -

Matrix: (soil/water) WATER Lab Sample ID: 200068-2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V0384

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene_Chloride	10.	B
67-64-1	Acetone	10.	JB
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene_(total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

0102

Lab Name: GADI, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 20068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 20003 2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V0384

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	13.78	68.	
2.		Unknown	34.56	4.	
2.					
3.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: RMCL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-3

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V0387

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	10.	B
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	17.	
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103

Lab Name: AFOL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 200068 3

Sample wt./vol: 5.0 (g/mL) ML Lab File ID: V0307

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.78	58.	
1.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104

Lab Name: ORDL, INC Contract: SANDWICH PWS

Lab Code: ---- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-4

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >V0388

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.100 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene_Chloride	21.	B
67-64-1	Acetone	15.	B
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene_(total)	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	11.	
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

IF
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G104

Lab Name: ADDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-4

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: [illegible]V0388

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.75	54.	
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC Contract: SANDWICH FWS

Lab Code: ----- Case No.: 20006G SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-5

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V0390

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	1000.	U
74-83-9	Bromomethane	1000.	U
75-01-4	Vinyl Chloride	1000.	U
75-00-3	Chloroethane	1000.	U
75-09-2	Methylene Chloride	1100.	B
67-64-1	Acetone	1250.	B
75-15-0	Carbon Disulfide	500.	U
75-35-4	1,1-Dichloroethene	500.	U
75-34-3	1,1-Dichloroethane	600.	
540-59-0	1,2-Dichloroethene (total)	500.	U
67-66-3	Chloroform	500.	U
107-02-2	1,2-Dichloroethane	500.	U
78-93-3	2-Butanone	1200.	
71-55-6	1,1,1-Trichloroethane	500.	U
56-23-5	Carbon Tetrachloride	500.	U
108-05-4	Vinyl Acetate	1000.	U
75-27-4	Bromodichloromethane	500.	U
78-87-5	1,2-Dichloropropane	500.	U
10061-01-5	cis-1,3-Dichloropropene	500.	U
79-01-6	Trichloroethene	500.	U
124-48-1	Dibromochloromethane	500.	U
79-00-5	1,1,2-Trichloroethane	500.	U
71-43-2	Benzene	500.	U
10061-02-6	trans-1,3-Dichloropropene	500.	U
75-25-2	Bromoform	500.	U
108-10-1	4-Methyl-2-pentanone	1000.	U
591-78-6	2-Hexanone	1000	U
127-18-4	Tetrachloroethene	500.	U
79-34-5	1,1,2,2-Tetrachloroethane	500.	U
108-88-3	Toluene	650.	
108-90-7	Chlorobenzene	500.	U
100-41-4	Ethylbenzene	500.	U
100-42-5	Styrene	500.	U
1330-02-7	Xylene (total)	500.	U

1C

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-5

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V0390

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	13.70	45	
2.		Unknown	20.64	5	
3.		Unknown	34.72	55	
4.		Unknown	37.82	15	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

X101RL

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-5RE

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >V0405

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/07/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	1000.	U
74-83-9	Bromomethane	1000.	U
75-01-4	Vinyl Chloride	1000.	U
75-00-3	Chloroethane	1000.	U
75-09-2	Methylene Chloride	400.	B
67-64-1	Acetone	550.	B
75-15-0	Carbon Disulfide	500.	U
75-35-4	1,1-Dichloroethene	500.	U
75-34-3	1,1-Dichloroethane	650.	
540-59-0	1,2-Dichloroethene (total)	500.	U
67-66-3	Chloroform	500.	U
107-02-2	1,2-Dichloroethane	500.	U
78-93-3	2-Butanone	1000.	U
71-55-6	1,1,1-Trichloroethane	500.	U
56-23-5	Carbon Tetrachloride	500.	U
108-05-4	Vinyl Acetate	1000.	U
75-27-4	Bromodichloromethane	500.	U
78-87-5	1,2-Dichloropropane	500.	U
10061-01-5	cis-1,3-Dichloropropene	500.	U
79-01-6	Trichloroethene	500.	U
124-48-1	Dibromochloromethane	500.	U
79-00-5	1,1,2-Trichloroethane	500.	U
71-43-2	Benzene	500.	U
10061-02-6	trans-1,3-Dichloropropene	500.	U
75-25-2	Bromoform	500.	U
108-10-1	4-Methyl-2-pentanone	1000.	U
591-78-6	2-Hexanone	1000.	U
127-18-4	Tetrachloroethene	500.	U
79-34-5	1,1,2,2-Tetrachloroethane	500.	U
108-88-3	Toluene	500.	U
108-90-7	Chlorobenzene	500.	U
100-41-4	Ethylbenzene	500.	U
100-42-5	Styrene	500.	U
133-02-7	Xylene (total)	500.	U

1

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

X101RF

Lab Name: ARCL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068 SPC

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >V0405

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/07/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	19.26	4	
2.		Unknown	27.44	4	
3.		Unknown	29.49	4	
4.		Unknown	33.95	5	
5.		Unknown	37.75	20	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-6

Sample wt/vol: 4.0 (g/mL) G Lab File ID: SV0391

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	1000.	U
74-83-9	Bromomethane	1000.	U
75-01-4	Vinyl Chloride	1000.	U
75-00-3	Chloroethane	1000.	U
75-09-2	Methylene Chloride	1700.	B
67-64-1	Acetone	1650.	B
75-15-0	Carbon Disulfide	500.	U
75-35-4	1,1-Dichloroethene	500.	U
75-34-3	1,1-Dichloroethane	1200.	
540-59-0	1,2-Dichloroethene (total)	500.	U
67-66-3	Chloroform	500.	U
107-02-2	1,2-Dichloroethane	500.	U
78-93-3	2-Butanone	1000.	U
71-55-6	1,1,1-Trichloroethane	500.	U
56-23-5	Carbon Tetrachloride	500.	U
108-05-4	Vinyl Acetate	1000.	U
75-27-4	Bromodichloromethane	500.	U
78-87-5	1,2-Dichloropropane	500.	U
10061-01-5	cis-1,3-Dichloropropene	500.	U
79-01-6	Trichloroethene	500.	U
124-48-1	Dibromochloromethane	500.	U
79-00-5	1,1,2-Trichloroethane	500.	U
71-43-2	Benzene	500.	U
10061-02-6	trans-1,3-Dichloropropene	500.	U
75-25-2	Bromoform	500.	U
108-10-1	4-Methyl-2-pentanone	1000.	U
591-78-6	2-Hexanone	1000.	U
127-18-4	Tetrachloroethene	500.	U
79-34-5	1,1,2,2-Tetrachloroethane	500.	U
108-88-3	Toluene	800.	
108-90-7	Chlorobenzene	500.	U
100-41-4	Ethylbenzene	500.	U
100-42-5	Styrene	500.	U
133-02-7	Xylene (total)	500.	U

II

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

>102

Lab Name: ARDL, INC Contract: SANDWICH FWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) Soil Lab Sample ID: 200068 6

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V0391

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.78	43	
2.	Unknown	19.13	5	
3.	Unknown	23.12	5	
4.	Unknown	27.00	5	
5.	Unknown	31.31	4	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102RF

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-6RE

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V0406

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/07/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	1000.	U
74-83-9	Bromomethane	1000.	U
75-01-4	Vinyl Chloride	1000.	U
75-00-3	Chloroethane	1000.	U
75-09-2	Methylene Chloride	1300.	B
67-64-1	Acetone	1150.	B
75-15-0	Carbon Disulfide	500.	U
75-35-4	1,1-Dichloroethene	500.	U
75-34-3	1,1-Dichloroethane	1300.	
540-59-0	1,2-Dichloroethene (total)	500.	U
67-66-3	Chloroform	500.	U
107-02-2	1,2-Dichloroethane	500.	U
78-93-3	2-Butanone	1250.	
71-55-6	1,1,1-Trichloroethane	500.	U
56-23-5	Carbon Tetrachloride	500.	U
108-05-4	Vinyl Acetate	1000.	U
75-27-4	Bromodichloromethane	500.	U
78-87-5	1,2-Dichloropropane	500.	U
10061-01-5	cis-1,3-Dichloropropene	500.	U
79-01-6	Trichloroethene	500.	U
124-48-1	Dibromochloromethane	500.	U
79-00-5	1,1,2-Trichloroethane	500.	U
71-43-2	Benzene	500.	U
10061-02-6	trans-1,3-Dichloropropene	500.	U
75-25-2	Bromoform	500.	U
108-10-1	4-Methyl-2-pentanone	1000.	U
591-78-6	2-Hexanone	1000.	U
127-18-4	Tetrachloroethene	500.	U
79-34-5	1,1,2,2-Tetrachloroethane	500.	U
108-88-3	Toluene	500.	U
108-90-7	Chlorobenzene	500.	U
100-41-4	Ethylbenzene	500.	U
100-42-5	Styrene	500.	U
133-02-7	Xylene (total)	500.	U

1C
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

>102RC

Lab Name: ARDL, INC Contract: SANDWICH FWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-6RL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V0406

Level: (low/med) MED Date Received: 08/31/88

% Moisture: not dec. 0.1 Date Analyzed: 9/07/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	19.23	10	
2.	Unknown	23.06	8	
3.	Unknown	27.68	15	
4.	Unknown	29.46	4	
5.	Unknown	33.81	3	
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

TRIP BLK

Lab Name: ARDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: ----

Matrix: (soil/water) WATER Lab Sample ID: 200068-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V0389

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 100 Date Analyzed: 9/02/88

Column: (pack/cap) PACK Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	20.	B
67-64-1	Acetone	11.	B
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
540-59-0	1,2-Dichloroethene (total)	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
108-38-3	m-Xylene	5.	U
106-42-3	o & p-Xylene	5.	U

1C

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: NRDL, INC Contract: SANDWICH PWS

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: ---

Matrix: (soil/water) WATER Lab Sample ID: 200068-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: .V0589

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.100 Date Analyzed: 9/02/88

Column: PACK Dilution Factor: 1.00000

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76131	Ethane, 1,1,2-trichloro-1,2,	13.77	73.	
2.		Unknown	34.40	4.	
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5 1-3

ab Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-1

ample wt/vol: 30.0 (g/mL) g Lab File ID: >D0302

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/12/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	300.	J
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	81.	J
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	87.	J
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5 1-3

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-1

ample wt/vol: 30.0 (g/mL) Lab File ID: >D0302

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/12/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	43.	J
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	110.	J
120-12-7	Anthracene	110.	J
84-74-2	Di-n-butylphthalate	460.	B
206-44-0	Fluoranthene	52.	J
129-00-0	Pyrene	43.	J
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	33.	J
218-01-9	Chrysene	37.	J
117-81-7	bis(2-Ethylhexyl)phthalate	600.	B
117-84-0	Di-n-Octyl_Phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B-5 1-3

b Name: ARDL, INC Contract: SANDWICH

b Code: _____ Case No.: 200067 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 200067-1

mple wt/vol: 30 (g/mL) G Lab File ID: >D0302

vel: (low/med) LOW Date Received: 8/30/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/01/88

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/12/88

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

umber TICs found: _____ CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.38	560	
2.	unknown	6.66	760	
3.	unknown	6.84	430	
4.	unknown	7.58	300	
5.	3-penten-2-one, 4-methyl-	7.67	3300	
6.	unknown	8.16	230	
7.	unknown	8.58	6900	
8.	unknown	9.06	260	
9.	unknown	10.20	300	
10.	unknown	10.47	1000	
11.	unknown	10.64	300	
12.	unknown	11.22	4300	
13.	unknown	11.46	330	
14.	unknown	11.60	230	
15.	unknown	12.31	1700	
16.	unknown	19.32	130	
17.	unknown	19.51	240	
18.	unknown	22.30	630	
19.	unknown	24.95	160	
20.	unknown	26.82	2200	
21.	unknown	28.86	460	
22.	unknown	33.11	430	
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5 3-5 RE

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-2RE

ample wt/vol: 30.0 (g/mL) G Lab File ID: >D0266

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH:--- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	110.	J
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-5 3-5

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-2RE

ample wt/vol: 30.0 (g/mL) G Lab File ID: >D0266

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH:--- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-butylphthalate	1500.	B
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	900.	B
117-84-0	Di-n-Octyl_Phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B-5 3-5 RE

Name: ARDL, INC Contract: SANDWICH

Lab Code: _____ Case No.: 200067 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200067-2RE

Sample wt/vol: 30 (g/mL) g Lab File ID: >D0266

Level: (low/med) LOW Date Received: 8/30/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/01/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 9/10/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

Number TICs found: 22

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	6.54	2000	
2.		unknown	6.81	480	
3.		unknown	6.92	450	
4.		unknown	7.71	290	
5.		unknown C-5 alkene	7.81	2500	
6.		unknown	8.32	240	
7.		unknown	8.69	3200	
8.		dimethyl-heptane	8.96	270	
9.		unknown	9.02	260	
10.		unknown	9.09	830	
11.		unknown alkane	9.23	1100	
12.		unknown	10.18	180	
13.		unknown	10.63	910	
14.		unknown	10.80	330	
15.		unknown	11.38	2300	
16.		unknown	12.23	340	
17.		unknown	12.47	880	
18.		unknown	22.52	33	
19.		unknown	25.08	130	
20.		unknown	25.20	180	
21.		unknown	27.13	4200	
22.		unknown	33.71	870	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-6 RE

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-3RE

ample wt/vol: 30.0 (g/mL) G Lab File ID: >D0267

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	310.	J
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-6 RE

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-3RE

ample wt/vol: 30.0 (g/mL) G Lab File ID: >D0267

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	330.	U
120-12-7	Anthracene	330.	U
84-74-2	Di-n-butylphthalate	1900.	B
206-44-0	Fluoranthene	330.	U
129-00-0	Pyrene	330.	U
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	4200.	B
117-84-0	Di-n-Octyl_Phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B-6 RE

Name: ARDL, INC Contract: SANDWICH

b Code: _____ Case No.: 200067 SAS No.: _____ SDG No.: _____

trix: (soil/water) SOIL Lab Sample ID: 200067-3RE

mple wt/vol: 30 (g/mL) g Lab File ID: >D 0267

vel: (low/med) LOW Date Received: 8/30/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/01/88

traction: (SepF/Cont/Sonc) Sonc Date Analyzed: 9/10/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

umber TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	6.56	2500	
2.		unknown	6.81	460	
3.		unknown	6.95	660	
4.		unknown	7.71	850	
5.		unknown C-5 alkene	7.82	2500	
6.		unknown	8.33	750	
7.		unknown	8.70	3600	
8.	3074713	2,3-dimethyl-heptane	8.95	250	
9.		unknown	9.08	770	
10.		unknown alkane	9.23	970	
11.		unknown	10.64	1200	
12.		unknown	10.80	330	
13.		unknown	11.37	3100	
14.		unknown	12.24	250	
15.		unknown	12.47	1200	
16.		unknown	19.72	280	
17.		unknown	22.52	33	
18.		unknown	25.09	230	
19.		unknown amide	25.20	230	
20.		unknown	27.14	5400	
21.		unknown	33.72	1400	
22.		unknown alkane	35.97	820	
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-7 RE

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

latrix: (soil/water) SOIL Lab Sample ID: 200067-4RE

ample wt/vol: 30.0 (g/mL) G Lab File ID: >D0268

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	330.	U
111-44-4	bis(-2-Chloroethyl)Ether	330.	U
95-57-8	2-Chlorophenol	330.	U
541-73-1	1,3-Dichlorobenzene	330.	U
106-46-7	1,4-Dichlorobenzene	330.	U
100-51-6	Benzyl alcohol	330.	U
95-50-1	1,2-Dichlorobenzene	330.	U
95-48-7	2-Methylphenol	330.	U
39638-32-9	bis(2-chloroisopropyl)ether	330.	U
106-44-5	4-Methylphenol	330.	U
621-64-7	N-Nitroso-Di-n-propylamine	330.	U
67-72-1	Hexachloroethane	330.	U
98-95-3	Nitrobenzene	330.	U
78-59-1	Isophorone	330.	U
88-75-5	2-Nitrophenol	330.	U
105-67-9	2,4-Dimethylphenol	330.	U
65-85-0	Benzoic acid	92.	J
111-91-1	bis(-2-Chloroethoxy)Methane	330.	U
120-83-2	2,4-Dichlorophenol	330.	U
120-82-1	1,2,4-Trichlorobenzene	330.	U
91-20-3	Naphthalene	330.	U
106-47-8	4-Chloroaniline	330.	U
87-68-3	Hexachlorobutadiene	330.	U
59-50-7	4-Chloro-3-methylphenol	330.	U
91-57-6	2-Methylnaphthalene	330.	U
77-47-4	Hexachlorocyclopentadiene	330.	U
88-06-2	2,4,6-Trichlorophenol	330.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	330.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethyl Phthalate	330.	U
208-96-8	Acenaphthylene	330.	U
606-20-2	2,6-Dinitrotoluene	330.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B-7RE

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200067 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200067-4RE

ample ut/vol: 30.0 (g/mL) G Lab File ID: >D0268

evel: (low/med) LOW Date Received: 08/30/88

Moisture: not dec.--- dec. --- Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
99-09-2	3-Nitroaniline	1700.	U
83-32-9	Acenaphthene	330.	U
51-28-5	2,4-Dinitrophenol	1700.	U
100-02-7	4-Nitrophenol	1700.	U
132-64-9	Dibenzofuran	330.	U
121-14-2	2,4-Dinitrotoluene	330.	U
84-66-2	Diethylphthalate	330.	U
7005-72-3	4-Chlorophenyl-phenylether	330.	U
86-73-7	Fluorene	330.	U
100-01-6	4-Nitroaniline	1700.	U
534-52-1	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6	N-Nitrosodiphenylamine (1)	330.	U
101-55-3	4-Bromophenyl-phenylether	330.	U
118-74-1	Hexachlorobenzene	330.	U
87-86-5	Pentachlorophenol	1700.	U
85-01-8	Phenanthrene	74.	J
120-12-7	Anthracene	330.	U
84-74-2	Di-n-butylphthalate	1900.	B
206-44-0	Fluoranthene	73.	J
129-00-0	Pyrene	110.	J
85-68-7	Butylbenzylphthalate	330.	U
91-94-1	3,3'-Dichlorobenzidine	670.	U
56-55-3	Benzo(a)anthracene	330.	U
218-01-9	Chrysene	330.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1900.	B
117-84-0	Di-n-Octyl Phthalate	330.	U
205-99-2	Benzo(b)fluoranthene	330.	U
207-08-9	Benzo(k)fluoranthene	330.	U
50-32-8	Benzo(a)pyrene	330.	U
193-39-5	Indeno(1,2,3-cd)pyrene	330.	U
53-70-3	Dibenzo(a,h)Anthracene	330.	U
191-24-2	Benzo(g,h,i)perylene	330.	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B7 RE

Name: ARDL, INC Contract: SANDWICH

Lab Code: _____ Case No.: 200067 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 200067-4RE

Sample wt/vol: 30 (g/mL) g Lab File ID: >D0268

Level: (low/med) LOW Date Received: 8/30/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/01/88

Extraction: (SepF/Cont/Sonc) Sonc Date Analyzed: 9/10/88

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

Number TICs found: 22

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	6.56	1300	
2.		unknown	6.81	280	
3.		unknown	6.94	320	
4.		unknown	7.72	1900	
5.		unknown C5 alkene	7.83	1900	
6.		unknown	8.33	1900	
7.		unknown	8.70	2500	
8.		unknown alkane	8.95	240	
9.		unknown	9.01	200	
10.		unknown	9.08	710	
11.		unknown alkane	9.23	860	
12.		unknown	10.19	200	
13.		unknown	10.63	1200	
14.		unknown	10.80	410	
15.		unknown	11.36	1700	
16.		unknown	12.46	700	
17.		unknown	19.72	190	
18.		unknown	22.51	1000	
19.		unknown	27.12	3500	
20.		unknown	33.71	740	
21.		unknown	34.65	350	
22.		unknown alkane	35.96	1600	
23.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

atrix: (soil/water) WATER Lab Sample ID: 200068-1

ample wt/vol: 1000 (g/mL) ML Lab File ID: >D0270

evel: (low/med) LOW Date Received: 08/31/88

Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(-2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101

Name: ARDL, INC Contract: SANDWICH

ab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

atrix: (soil/water) WATER Lab Sample ID: 200068-1

ample wt/vol: 1000 (g/mL) ML Lab File ID: >D0270

evel: (low/med) LOW Date Received: 08/31/88

Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	10.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	10.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	43.	JB
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	300.	BE
117-84-0	Di-n-Octyl_Phthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101

Name: ARDL, INC Contract: SANDWICH

b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 200068-1

mple wt/vol: 1000 (g/mL) mL Lab File ID: >D0270

vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/3/88

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/10/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

umber TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	10.98	4.0	
2.	Hexanedioic acid, dioctyl ester	27.30	1.0	
3.	unknown phthalate	28.86	13	
4.	unknown	29.67	5.0	
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101DL

Name: ARDL, INC Contract: SANDWICH FW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-1DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: 00278

Level: (low/med) LOW Date Received: 08/31/88

Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 10.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	500.	U D
83-32-9	Acenaphthene	100.	U D
51-28-5	2,4-Dinitrophenol	500.	U D
100-02-7	4-Nitrophenol	500.	U D
132-64-9	Dibenzofuran	100.	U D
121-14-2	2,4-Dinitrotoluene	100.	U D
84-66-2	Diethylphthalate	100.	U D
7005-72-3	4-Chlorophenyl-phenylether	100.	U D
86-73-7	Fluorene	100.	U D
100-01-6	4-Nitroaniline	500.	U D
534-52-1	4,6-Dinitro-2-methylphenol	500.	U D
86-30-6	N-Nitrosodiphenylamine (1)	100.	U D
101-55-3	4-Bromophenyl-phenylether	100.	U D
118-74-1	Hexachlorobenzene	100.	U D
87-86-5	Pentachlorophenol	500.	U D
85-01-8	Phenanthrene	100.	U D
120-12-7	Anthracene	100.	U D
84-74-2	Di-n-butylphthalate	100.	U D
206-44-0	Fluoranthene	100.	U D
129-00-0	Pyrene	100.	U D
85-68-7	Butylbenzylphthalate	100.	U D
91-94-1	3,3'-Dichlorobenzidine	200.	U D
56-55-3	Benzo(a)anthracene	100.	U D
218-01-9	Chrysene	100.	U D
117-81-7	bis(2-Ethylhexyl)phthalate	1700.	B D
117-84-0	Di-n-Octyl_Phthalate	100.	U D
205-99-2	Benzo(b)fluoranthene	100.	U D
207-08-9	Benzo(k)fluoranthene	100.	U D
50-32-8	Benzo(a)pyrene	100.	U D
193-39-5	Indeno(1,2,3-cd)pyrene	100.	U D
53-70-3	Dibenzo(a,h)Anthracene	100.	U D
191-24-2	Benzo(g,h,i)perylene	100.	U D

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101DL

Name: ABDL, INC Contract: SANDWICH PW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-1DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D0278

Level: (low/med) LOW Date Received: 08/31/88

Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 10.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	100.	UD
111-44-4	bis(-2-Chloroethyl)Ether	100.	UD
95-57-8	2-Chlorophenol	100.	UD
541-73-1	1,3-Dichlorobenzene	100.	UD
106-46-7	1,4-Dichlorobenzene	100.	UD
100-51-6	Benzyl alcohol	100.	UD
95-50-1	1,2-Dichlorobenzene	100.	UD
95-48-7	2-Methylphenol	100.	UD
39638-32-9	bis(2-chloroisopropyl)ether	100.	UD
106-44-5	4-Methylphenol	100.	UD
621-64-7	N-Nitroso-Di-n-propylamine	100.	UD
67-72-1	Hexachloroethane	100.	UD
98-95-3	Nitrobenzene	100.	UD
78-59-1	Isophorone	100.	UD
88-75-5	2-Nitrophenol	100.	UD
105-67-9	2,4-Dimethylphenol	100.	UD
65-85-0	Benzoic acid	50.	UD
111-91-1	bis(-2-Chloroethoxy)Methane	100.	UD
120-83-2	2,4-Dichlorophenol	100.	UD
120-82-1	1,2,4-Trichlorobenzene	100.	UD
91-20-3	Naphthalene	100.	UD
106-47-8	4-Chloroaniline	100.	UD
87-68-3	Hexachlorobutadiene	100.	UD
59-50-7	4-Chloro-3-methylphenol	100.	UD
91-57-6	2-Methylnaphthalene	100.	UD
77-47-4	Hexachlorocyclopentadiene	100.	UD
88-06-2	2,4,6-Trichlorophenol	100.	UD
95-95-4	2,4,5-Trichlorophenol	50.	UD
91-58-7	2-Chloronaphthalene	100.	UD
88-74-4	2-Nitroaniline	50.	UD
131-11-3	Dimethyl Phthalate	100.	UD
208-96-8	Acenaphthylene	100.	UD
606-20-2	2,6-Dinitrotoluene	100.	UD

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101DL

Name: ARDL, INC. Contract: SANDWICH

b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 200068-1DL

mple wt/vol: 1000 (g/mL) ml Lab File ID: D0278

vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/03/88

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/11/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 10.0

umber TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	19.60	40	
2.					
3.					
4.					
5.					
6.					
7.					
8.					
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Name: NRDL, INC Contract: SANDWICH

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D0271

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(-2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102

Name: AKDL, INC Contract: SANDWICH

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: .D0271

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sept/Cont/Sonc) SEPF Date Analyzed: 9/10/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	160.	B
117-84-0	Di-n-Octyl Phthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G102

Name: ARDL, INC Contract: SANDWICH

b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 200068-2

mple wt/vol: 1000 (g/mL) mL Lab File ID: >D 0271

vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. N dec. _____ Date Extracted: 9/3/88

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/10/88

C Cleanup: (Y/N) N pH: ____ Dilution Factor: 1

umber TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	19.72	0.6	
2.				
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G102DL

Name: ARDL, INC Contract: SANDWICH PW

ab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

atrix: (soil/water) WATER Lab Sample ID: 200068-2DL

ample wt/vol: 1000 (g/mL) ML Lab File ID: D0280

evel: (low/med) LOW Date Received: 08/31/88

. Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

xtraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 5.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	50.	UD
111-44-4	bis(-2-Chloroethyl)Ether	50.	UD
95-57-8	2-Chlorophenol	50.	UD
541-73-1	1,3-Dichlorobenzene	50.	UD
106-46-7	1,4-Dichlorobenzene	50.	UD
100-51-6	Benzyl alcohol	50.	UD
95-50-1	1,2-Dichlorobenzene	50.	UD
95-48-7	2-Methylphenol	50.	UD
39638-32-9	bis(2-chloroisopropyl)ether	50.	UD
106-44-5	4-Methylphenol	50.	UD
621-64-7	N-Nitroso-Di-n-propylamine	50.	UD
67-72-1	Hexachloroethane	50.	UD
98-95-3	Nitrobenzene	50.	UD
78-59-1	Isophorone	50.	UD
88-75-5	2-Nitrophenol	50.	UD
105-67-9	2,4-Dimethylphenol	50.	UD
65-85-0	Benzoic acid	250.	UD
111-91-1	bis(-2-Chloroethoxy)Methane	50.	UD
120-83-2	2,4-Dichlorophenol	50.	UD
120-82-1	1,2,4-Trichlorobenzene	50.	UD
91-20-3	Naphthalene	50.	UD
106-47-8	4-Chloroaniline	50.	UD
87-68-3	Hexachlorobutadiene	50.	UD
59-50-7	4-Chloro-3-methylphenol	50.	UD
91-57-6	2-Methylnaphthalene	50.	UD
77-47-4	Hexachlorocyclopentadiene	50.	UD
88-06-2	2,4,6-Trichlorophenol	50.	UD
95-95-4	2,4,5-Trichlorophenol	250.	UD
91-58-7	2-Chloronaphthalene	50.	UD
88-74-4	2-Nitroaniline	250.	UD
131-11-3	Dimethyl Phthalate	50.	UD
208-96-8	Acenaphthylene	50.	UD
606-20-2	2,6-Dinitrotoluene	50.	UD

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G102DL

Lab Name: GRDL, INC Contract: SANDWICH PW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-2DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D0280

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 5.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
99-09-2	3-Nitroaniline	250.	UD
83-32-9	Acenaphthene	50.	UD
51-28-5	2,4-Dinitrophenol	250.	UD
100-02-7	4-Nitrophenol	250.	UD
132-64-9	Dibenzofuran	50.	UD
121-14-2	2,4-Dinitrotoluene	50.	UD
84-66-2	Diethylphthalate	50.	UD
7005-72-3	4-Chlorophenyl-phenylether	50.	UD
86-73-7	Fluorene	50.	UD
100-01-6	4-Nitroaniline	250.	UD
534-52-1	4,6-Dinitro-2-methylphenol	250.	UD
86-30-6	N-Nitrosodiphenylamine (1)	50.	UD
101-55-3	4-Bromophenyl-phenylether	50.	UD
118-74-1	Hexachlorobenzene	50.	UD
87-86-5	Pentachlorophenol	250.	UD
85-01-8	Phenanthrene	50.	UD
120-12-7	Anthracene	50.	UD
84-74-2	Di-n-butylphthalate	50.	UD
206-44-0	Fluoranthene	50.	UD
129-00-0	Pyrene	50.	UD
85-68-7	Butylbenzylphthalate	50.	UD
91-94-1	3,3'-Dichlorobenzidine	100.	UD
56-55-3	Benzo(a)anthracene	50.	UD
218-01-9	Chrysene	50.	UD
117-81-7	bis(2-Ethylhexyl)phthalate	500.	BD
117-84-0	Di-n-Octyl Phthalate	50.	UD
205-99-2	Benzo(b)fluoranthene	50.	UD
207-08-9	Benzo(k)fluoranthene	50.	UD
50-32-8	Benzo(a)pyrene	50.	UD
193-39-5	Indeno(1,2,3-cd)pyrene	50.	UD
53-70-3	Dibenzo(a,h)Anthracene	50.	UD
191-24-2	Benzo(g,h,i)perylene	50.	UD

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G102DL

Name: ARDL, INC Contract: SANDWICH

.b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

:trix: (soil/water) WATER Lab Sample ID: 200068-20L

:mple wt/vol: 1000 (g/mL) mL Lab File ID: YD0280

:vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/03/88

:traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/11/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 5.0

umber TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.60	4.5	
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1B
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: PROL, INC Contract: SANDWICH

Lab Code: ----- Case No.: 20006B SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 20006B-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MD0272

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. --- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(-2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1L

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6103

Lab Name: ARDL, INC Contract: SANDWICH

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D0272

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/10/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	180.	BE
117-84-0	Di-n-Octyl_Phthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103

b Name: ARDL, INC. Contract: SANDWICH

b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

trix: (soil/water) WATER Lab Sample ID: 200068-3

mple wt/vol: 1000 (g/mL) mL Lab File ID: >D0272

vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/03/88

traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/10/88

c Cleanup: (Y/N) N pH: _____ Dilution Factor: 1

umber TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		unknown	10.94	4.0	
2.	123795	Hexanedioic acid, dioctyl ester	27.30	2.0	
3.		unknown	28.85	2.2	
4.		unknown	29.60	120	
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103DL

Lab Name: ARDL, INC Contract: SANDWICH FW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-3DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: SD0281

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 5.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
108-95-2	Phenol	50.	U D
111-44-4	bis(-2-Chloroethyl)Ether	50.	U D
95-57-8	2-Chlorophenol	50.	U D
541-73-1	1,3-Dichlorobenzene	50.	U D
106-46-7	1,4-Dichlorobenzene	50.	U D
100-51-6	Benzyl alcohol	50.	U D
95-50-1	1,2-Dichlorobenzene	50.	U D
95-48-7	2-Methylphenol	50.	U D
39638-32-9	bis(2-chloroisopropyl)ether	50.	U D
106-44-5	4-Methylphenol	50.	U D
621-64-7	N-Nitroso-Di-n-propylamine	50.	U D
67-72-1	Hexachloroethane	50.	U D
98-95-3	Nitrobenzene	50.	U D
78-59-1	Isophorone	50.	U D
88-75-5	2-Nitrophenol	50.	U D
105-67-9	2,4-Dimethylphenol	50.	U D
65-85-0	Benzoic acid	250.	U D
111-91-1	bis(-2-Chloroethoxy)Methane	50.	U D
120-83-2	2,4-Dichlorophenol	50.	U D
120-82-1	1,2,4-Trichlorobenzene	50.	U D
91-20-3	Naphthalene	50.	U D
106-47-8	4-Chloroaniline	50.	U D
87-68-3	Hexachlorobutadiene	50.	U D
59-50-7	4-Chloro-3-methylphenol	50.	U D
91-57-6	2-Methylnaphthalene	50.	U D
77-47-4	Hexachlorocyclopentadiene	50.	U D
88-06-2	2,4,6-Trichlorophenol	50.	U D
95-95-4	2,4,5-Trichlorophenol	250.	U D
91-58-7	2-Chloronaphthalene	50.	U D
88-74-4	2-Nitroaniline	250.	U D
131-11-3	Dimethyl Phthalate	50.	U D
208-96-8	Acenaphthylene	50.	U D
606-20-2	2,6-Dinitrotoluene	50.	U D

1I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103DL

Name: ARDL, INC Contract: SANDWICH FW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-3DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D0281

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 5.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	250.	U D
83-32-9	Acenaphthene	50.	U D
51-28-5	2,4-Dinitrophenol	250.	U D
100-02-7	4-Nitrophenol	250.	U D
132-64-9	Dibenzofuran	50.	U D
121-14-2	2,4-Dinitrotoluene	50.	U D
84-66-2	Diethylphthalate	50.	U D
7005-72-3	4-Chlorophenyl-phenylether	50.	U D
86-73-7	Fluorene	50.	U D
100-01-6	4-Nitroaniline	250.	U D
534-52-1	4,6-Dinitro-2-methylphenol	250.	U D
86-30-6	N-Nitrosodiphenylamine (1)	50.	U D
101-55-3	4-Bromophenyl-phenylether	50.	U D
118-74-1	Hexachlorobenzene	50.	U D
87-86-5	Pentachlorophenol	250.	U D
85-01-8	Phenanthrene	50.	U D
120-12-7	Anthracene	50.	U D
84-74-2	Di-n-butylphthalate	50.	U D
206-44-0	Fluoranthene	50.	U D
129-00-0	Pyrene	50.	U D
85-68-7	Butylbenzylphthalate	50.	U D
91-94-1	3,3'-Dichlorobenzidine	100.	U D
56-55-3	Benzo(a)anthracene	50.	U D
218-01-9	Chrysene	50.	U D
117-81-7	bis(2-Ethylhexyl)phthalate	4500.	BDE
117-84-0	Di-n-Octyl_Phthalate	50.	U D
205-99-2	Benzo(b)fluoranthene	50.	U D
207-08-9	Benzo(k)fluoranthene	50.	U D
50-32-8	Benzo(a)pyrene	50.	U D
193-39-5	Indeno(1,2,3-cd)pyrene	50.	U D
53-70-3	Dibenzo(a,h)Anthracene	50.	U D
191-24-2	Benzo(g,h,i)perylene	50.	U D

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103DL

Name: ARDL, INC Contract: SANDWICH

:b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

:trix: (soil/water) _____ Lab Sample ID: 200068-3DL

:mple wt/vol: 1000 (g/mL) mL Lab File ID: >D0281

:vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/03/88

:traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/11/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 5.0

umber TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.60	60	
2.	UNKNOWN ALKANE	27.14	3.5	
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104RE

Lab Name: CKDL, INC Contract: SANDWICH PW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) WATER Lab Sample ID: 200068-4RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D0282

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
99-09-2	3-Nitroaniline	50.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	50.	U
100-02-7	4-Nitrophenol	50.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50.	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	50.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	5.	JB
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	57.	B
117-84-0	Di-n-Octyl Phthalate	3.	JB
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenzo(a,h)Anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6104RE

Name: ARDL, INC Contract: SANDWICH PW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: - ---

Matrix: (soil/water) WATER Lab Sample ID: 200068-4RE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: D0287

Level: (low/med) LOW Date Received: 08/31/88

Moisture: not dec.--- dec. --- Date Extracted: 09/03/88

Extraction: (Sepf/Cont/Sonc) SEPF Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 1.00000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(-2-Chloroethyl)Ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
39638-32-9	bis(2-chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-Di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(-2-Chloroethoxy)Methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethyl Phthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104RE

Name: ARDL, INC Contract: SANDWICH

.b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

.trix: (soil/water) WATER Lab Sample ID: 200068-4RE

:mple wt/vol: 1000 (g/mL) mL Lab File ID: >D0282

:vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/03/88

:traction: (SepF/Cont/Sonc) SepF Date Analyzed: 9/11/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

umber TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.80	8.0	
2.	UNKNOWN	28.28	3.7	
3.	UNKNOWN PHTHALATE	28.65	24	
4.	UNKNOWN	29.42	130	
5.	UNKNOWN	29.55	68	
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101RE

Name: ARDL, INC Contract: SANDWICH PW

ab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200068-5RE

ample wt/vol: 30 (g/mL) G Lab File ID: >D0283

evel: (low/med) LOW Date Received: 08/31/88

Moisture: not dec. 0.1 dec. 0.1 Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/11/88

PC Cleanup: (Y/N) N pH: --- Dilution Factor: 100.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
108-95-2	Phenol	33000.	U D
111-44-4	bis(-2-Chloroethyl)Ether	33000.	U D
95-57-8	2-Chlorophenol	33000.	U D
541-73-1	1,3-Dichlorobenzene	33000.	U D
106-46-7	1,4-Dichlorobenzene	33000.	U D
100-51-6	Benzyl alcohol	33000.	U D
95-50-1	1,2-Dichlorobenzene	33000.	U D
95-48-7	2-Methylphenol	33000.	U D
39638-32-9	bis(2-chloroisopropyl)ether	33000.	U D
106-44-5	4-Methylphenol	33000.	U D
621-64-7	N-Nitroso-Di-n-propylamine	33000.	U D
67-72-1	Hexachloroethane	33000.	U D
98-95-3	Nitrobenzene	33000.	U D
78-59-1	Isophorone	33000.	U D
88-75-5	2-Nitrophenol	33000.	U D
105-67-9	2,4-Dimethylphenol	33000.	U D
65-85-0	Benzoic acid	170000.	U D
111-91-1	bis(-2-Chloroethoxy)Methane	520000.	D
120-83-2	2,4-Dichlorophenol	33000.	U D
120-82-1	1,2,4-Trichlorobenzene	340000.	D
91-20-3	Naphthalene	1900000.	D
106-47-8	4-Chloroaniline	33000.	U D
87-68-3	Hexachlorobutadiene	33000.	U D
59-50-7	4-Chloro-3-methylphenol	33000.	U D
91-57-6	2-Methylnaphthalene	11000000.	D
77-47-4	Hexachlorocyclopentadiene	33000.	U D
88-06-2	2,4,6-Trichlorophenol	33000.	U D
95-95-4	2,4,5-Trichlorophenol	170000.	U D
91-58-7	2-Chloronaphthalene	33000.	U D
88-74-4	2-Nitroaniline	1900000.	D
131-11-3	Dimethyl Phthalate	880000.	D
208-96-8	Acenaphthylene	33000.	U D
606-20-2	2,6-Dinitrotoluene	33000.	U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101RE

ab Name: ARDL, INC Contract: SANDWICH PW

ab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

atrix: (soil/water) SOIL Lab Sample ID: 200068-5RE

ample wt/vol: 30 (g/mL) G Lab File ID: >D0283

evel: (low/med) LOW Date Received: 08/31/88

Moisture: not dec.0.1 dec. 0.1 Date Extracted: 09/01/88

xtraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/11/88

PC Cleanup: (Y/N) N pH:--- Dilution Factor: 100.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
99-09-2	3-Nitroaniline	1200000.	D
83-32-9	Acenaphthene	610000.	D
51-28-5	2,4-Dinitrophenol	170000.	U D
100-02-7	4-Nitrophenol	170000.	U D
132-64-9	Dibenzofuran	670000.	D
121-14-2	2,4-Dinitrotoluene	2900000.	D
84-66-2	Diethylphthalate	33000.	U D
7005-72-3	4-Chlorophenyl-phenylether	33000.	U D
86-73-7	Fluorene	33000.	U D
100-01-6	4-Nitroaniline	2000000.	D
534-52-1	4,6-Dinitro-2-methylphenol	170000.	U D
86-30-6	N-Nitrosodiphenylamine (1)	33000.	U D
101-55-3	4-Bromophenyl-phenylether	33000.	U D
118-74-1	Hexachlorobenzene	33000.	U D
87-86-5	Pentachlorophenol	170000.	U D
85-01-8	Phenanthrene	15000000.	D
120-12-7	Anthracene	15000000.	D
84-74-2	Di-n-butylphthalate	5700000.	BD
206-44-0	Fluoranthene	1100000.	D
129-00-0	Pyrene	420000.	D
85-68-7	Butylbenzylphthalate	33000.	U D
91-94-1	3,3'-Dichlorobenzidine	67000.	U D
56-55-3	Benzo(a)anthracene	33000.	U D
218-01-9	Chrysene	33000.	U D
117-81-7	bis(2-Ethylhexyl)phthalate	990000.	BD
117-84-0	Di-n-Octyl_Phthalate	33000.	U D
205-99-2	Benzo(b)fluoranthene	33000.	U D
207-08-9	Benzo(k)fluoranthene	33000.	U D
50-32-8	Benzo(a)pyrene	33000.	U D
193-39-5	Indeno(1,2,3-cd)pyrene	33000.	U D
53-70-3	Dibenzo(a,h)Anthracene	33000.	U D
191-24-2	Benzo(g,h,i)perylene	33000.	U D

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101RE

Name: ARDL, INC Contract: SANDWICH

b Code: _____ Case No.: 20068 SAS No.: _____ SDG No.: _____

trix: (soil/water) SOIL Lab Sample ID: 200068-SRE

mple wt/vol: 30 (g/mL) G Lab File ID: >D0283

vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/01/88

traction: (SepF/Cont/Sonc) SONC Date Analyzed: 9/11/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 100

umber TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	11.43	46,000	
2.	UNKNOWN	12.14	47,000	
3.	UNKNOWN ALKANE	13.02	180,000	
4.	UNKNOWN	13.18	51,000	
5.	UNKNOWN	13.59	22000	
6.	UNKNOWN	13.86	75,000	
7.	UNKNOWN	13.92	28,000	
8.	UNKNOWN	13.98	46,000	
9.	UNKNOWN	14.09	46,000	
10.	UNKNOWN	14.35	37,000	
11.	UNKNOWN	14.49	210,000	
12.	UNKNOWN	15.25	57,000	
13.	UNKNOWN ALKANE	15.51	250,000	
14.	UNKNOWN ALKANE	15.86	560,000	
15.	UNKNOWN	17.21	14,000	
16.	UNKNOWN ALKANE	24.19	130,000	
17.	UNKNOWN	25.06	32,000	
18.	UNKNOWN	25.40	79,000	
19.	UNKNOWN	26.34	29,000	
20.	UNKNOWN	27.42	52,000	
21.	UNKNOWN ALKANE	28.06	46,000	
22.	UNKNOWN	30.12	41,000	
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102KE

Lab Name: ARDL, INC Contract: SANDWICH PW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-6KE

Sample wt/vol: 30 (g/mL) G Lab File ID: X00284

Level: (low/med) LOW Date Received: 08/31/88

Moisture: not dec. 0.1 dec. 0.1 Date Extracted: 09/01/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 100.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
108-95-2	Phenol	33000.	U D
111-44-4	bis(-2-Chloroethyl)Ether	33000.	U D
95-57-8	2-Chlorophenol	33000.	U D
541-73-1	1,3-Dichlorobenzene	33000.	U D
106-46-7	1,4-Dichlorobenzene	33000.	U D
100-51-6	Benzyl alcohol	33000.	U D
95-50-1	1,2-Dichlorobenzene	33000.	U D
95-48-7	2-Methylphenol	33000.	U D
39638-32-9	bis(2-chloroisopropyl)ether	33000.	U D
106-44-5	4-Methylphenol	33000.	U D
621-64-7	N-Nitroso-Di-n-propylamine	33000.	U D
67-72-1	Hexachloroethane	33000.	U D
98-95-3	Nitrobenzene	33000.	U D
78-59-1	Isophorone	33000.	U D
88-75-5	2-Nitrophenol	33000.	U D
105-67-9	2,4-Dimethylphenol	33000.	U D
65-85-0	Benzoic acid	67000.	U D
111-91-1	bis(-2-Chloroethoxy)Methane	13000000.	D
120-83-2	2,4-Dichlorophenol	33000.	U D
120-82-1	1,2,4-Trichlorobenzene	33000.	U D
91-20-3	Naphthalene	88000000.	D
106-47-8	4-Chloroaniline	33000.	U D
87-68-3	Hexachlorobutadiene	33000.	U D
59-50-7	4-Chloro-3-methylphenol	33000.	U D
91-57-6	2-Methylnaphthalene	350000000.	D
77-47-4	Hexachlorocyclopentadiene	33000.	U D
88-06-2	2,4,6-Trichlorophenol	33000.	U D
95-95-4	2,4,5-Trichlorophenol	67000.	U D
91-58-7	2-Chloronaphthalene	33000.	U D
88-74-4	2-Nitroaniline	45000000.	D
131-11-3	Dimethyl Phthalate	33000000.	D
208-96-8	Acenaphthylene	33000.	U D
606-20-2	2,6-Dinitrotoluene	26000000.	D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102KE

Lab Name: ARDL, INC Contract: SANDWICH PW

Lab Code: ----- Case No.: 200068 SAS No.: ----- SDG No.: -----

Matrix: (soil/water) SOIL Lab Sample ID: 200068-6KE

Sample wt/vol: 30 (g/mL) G Lab File ID: D0284

Level: (low/med) LOW Date Received: 08/31/88

% Moisture: not dec. 0.1 dec. 0.1 Date Extracted: 09/01/88

Extraction: (Sepf/Cont/Sonc) SONC Date Analyzed: 9/11/88

GPC Cleanup: (Y/N) N pH: --- Dilution Factor: 100.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/KG	Q
99-09-2	3-Nitroaniline	67000.	U D
83-32-9	Acenaphthene	33000.	U D
51-28-5	2,4-Dinitrophenol	67000.	U D
100-02-7	4-Nitrophenol	67000.	U D
132-64-9	Dibenzofuran	33000000.	D
121-14-2	2,4-Dinitrotoluene	90000000.	D
84-66-2	Diethylphthalate	8900000.	BD
7005-72-3	4-Chlorophenyl-phenylether	33000.	U D
86-73-7	Fluorene	33000.	U D
100-01-6	4-Nitroaniline	47000000.	D
534-52-1	4,6-Dinitro-2-methylphenol	45000.	U D
86-30-6	N-Nitrosodiphenylamine (1)	33000.	U D
101-55-3	4-Bromophenyl-phenylether	33000.	U D
118-74-1	Hexachlorobenzene	33000.	U D
87-86-5	Pentachlorophenol	45000.	U D
85-01-8	Phenanthrene	430000000.	D
120-12-7	Anthracene	430000000.	D
84-74-2	Di-n-butylphthalate	99000000.	BD
206-44-0	Fluoranthene	60000000.	D
129-00-0	Pyrene	2900000.	D
85-68-7	Butylbenzylphthalate	33000.	U D
91-94-1	3,3'-Dichlorobenzidine	18000.	U D
56-55-3	Benzo(a)anthracene	33000.	U D
218-01-9	Chrysene	33000.	U D
117-81-7	bis(2-Ethylhexyl)phthalate	5700000.	BD
117-84-0	Di-n-Octyl Phthalate	33000.	U D
205-99-2	Benzo(b)fluoranthene	33000.	U D
207-08-9	Benzo(k)fluoranthene	33000.	U D
50-32-8	Benzo(a)pyrene	33000.	U D
193-39-5	Indeno(1,2,3-cd)pyrene	33000.	U D
53-70-3	Dibenzo(a,h)Anthracene	33000.	U D
191-24-2	Benzo(g,h,i)perylene	33000.	U D

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102RE

Name: ARDL, INC Contract: SANDWICH

b Code: _____ Case No.: 200068 SAS No.: _____ SDG No.: _____

trix: (soil/water) Soil Lab Sample ID: 200068-6RE

mple wt/vol: 30 (g/mL) g Lab File ID: >D0284

vel: (low/med) LOW Date Received: 8/31/88

Moisture: not dec. _____ dec. _____ Date Extracted: 9/01/88

traction: (SepF/Cont/Sonc) Sonc Date Analyzed: 9/11/88

C Cleanup: (Y/N) N pH: _____ Dilution Factor: 100

umber TICs found: 21 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown alkane	11.43	33,000	
2.	unknown alkane	12.46	27,000	
3.	unknown	13.02	260,000	
4.	unknown	13.18	55,000	
5.	unknown	13.39	6,500	
6.	unknown	13.45	6,500	
7.	unknown	13.53	5400	
8.	unknown	13.59	8700	
9.	unknown	13.86	36,000	
10.	unknown alkane	13.97	21,000	
11.	unknown	14.08	15,000	
12.	unknown	14.23	6,500	
13.	unknown	14.36	11,000	
14.	unknown alkane	14.49	150,000	
15.	unknown	15.26	130,000	
16.	unknown alkane	15.50	100,000	
17.	unknown alkane	15.86	260,000	
18.	unknown	16.43	15,000	
19.	unknown	24.20	130,000	
20.	unknown alkane	25.04	54,000	
21.	unknown	25.96	12,000	
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

EPA SAMPLE N
B-5 1-3

:D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) Soil
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) Low
% Moisture: not dec. ____ dec. ____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: ____

Contract: Sandwich S
Lab Sample ID: 200067-
Lab File ID: ____
Date Received: 09/30/
Date Extracted: 09/01/
Date Analyzed: 09/10/
Dilution Factor: 0.05

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	22	
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	96	
959-98-8----	Endosulfan I	8.0	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

EPA SAMPLE N
B-5 3-5

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) Low
% Moisture: not dec. ____ dec. ____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: ____

Contract: Sandwich S
Lab Sample ID: 200067-
Lab File ID: ____
Date Received: 09/30/
Date Extracted: 09/01/
Date Analyzed: 09/0
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	8.0	U
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	8.0	U
309-00-2----	Aldrin	8.0	U
1024-57-3---	Heptachlor epoxide	8.0	U
959-98-8----	Endosulfan I	8.0	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

EPA SAMPLE N
B-6

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDI
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: _____

Contract: Sandwich P
Lab Sample ID: 200067-3
Lab File ID: _____
Date Received: 08/30/
Date Extracted: 09/01/
Date Analyzed: 09/10/
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	2.0	U
319-85-7----	beta-BHC	2.0	U
319-86-8----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2----	Aldrin	2.0	U
1024-57-3---	Heptachlor epoxide	19	
959-98-8----	Endosulfan I	20	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	20	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	20	U
5103-74-2---	gamma-Chlordane	20	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Arochlor-1016	20	U
11104-28-2--	Arochlor-1221	20	U
11141-16-5--	Arochlor-1232	20	U
53469-21-9--	Arochlor-1242	20	U
12672-29-6--	Arochlor-1248	20	U
11097-69-1--	Arochlor-1254	160	U
11096-82-5--	Arochlor-1260	160	U

FORM I PEST

EPA SAMPLE
8-7

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Contract: Sandwich
Matrix: (soil/water) SOIL
Lab Sample ID: 200067-
Sample wt/vol: 30.0 (g/mL) G
Lab File ID:
Level: (low/med) Low
Date Received: 08/30/
% Moisture: not dec. dec.
Date Extracted: 09/01
Extraction: (SepF/Cont/Sonc) SONC
Date Analyzed: 09/10/
GPC Cleanup: (Y/N) N pH:
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	2.0	U
319-85-7----	beta-BHC	2.0	U
319-86-8----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	2.0	U
309-00-2----	Aldrin	2.0	U
1024-57-3---	Heptachlor epoxide	15	
959-98-8----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Aroclor-1016	80	U
11104-28-2--	Aroclor-1221	80	U
11141-16-5--	Aroclor-1232	80	U
53469-21-9--	Aroclor-1242	80	U
12672-29-6--	Aroclor-1248	80	U
11097-69-1--	Aroclor-1254	160	U
11096-82-5--	Aroclor-1260	160	U

FORM I PEST

EPA SAMPLE NO
G101

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ABC!
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: _____

Contract: Sandwich PWS
Lab Sample ID: 2000[illegible]-1
Lab File ID: _____
Date Received: 08/31/[illegible]
Date Extracted: 09/01/88
Date Analyzed: 09/10/[illegible]
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9--	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8---	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5--	Endrin ketone	0.10	U
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

FORM I PEST

EPA SAMPLE
G102

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: _____

Contract: Sandwich
Lab Sample ID: 200062
Lab File ID: _____
Date Received: 08/31/
Date Extracted: 09/01
Date Analyzed: 09/13
Dilution Factor: 10

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9--	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8---	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5--	Endrin ketone	0.10	U
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

FORM I PEST

EPA SAMPLE NO.
G103

PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) mL
Level: (low/med) LOW
% Moisture: not dec. ____ dec. ____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: ____

Contract: Sandwich Bay
Lab Sample ID: 200064-3
Lab File ID: ____
Date Received: 08/31/88
Date Extracted: 09/01/88
Date Analyzed: 09/12/88
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9--	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8---	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5--	Endrin Ketone	0.10	U
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Aroclor-1016	0.50	U
11104-28-2--	Aroclor-1221	0.50	U
11141-16-5--	Aroclor-1232	0.50	U
53469-21-9--	Aroclor-1242	0.50	U
12672-29-6--	Aroclor-1248	0.50	U
11097-69-1--	Aroclor-1254	1.0	U
11096-82-5--	Aroclor-1260	1.0	U

FORM I PEST

EPA SAMPLE NO
G104

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ABDL
Matrix: (soil/water) WATER
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) SEPF
GPC Cleanup: (Y/N) N pH: _____

Contract: Sandwich PW
Lab Sample ID: 2000G-
Lab File ID: _____
Date Received: 08/31/80
Date Extracted: 09/01
Date Analyzed: 09/12
Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	0.05	U
319-85-7----	beta-BHC	0.05	U
319-86-8----	delta-BHC	0.05	U
58-89-9-----	gamma-BHC (Lindane)	0.05	U
76-44-8-----	Heptachlor	0.05	U
309-00-2----	Aldrin	0.05	U
1024-57-3---	Heptachlor epoxide	0.05	U
959-98-8----	Endosulfan I	0.05	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9--	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8---	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5--	Endrin ketone	0.10	U
5103-71-9---	alpha-Chlordane	0.50	U
5103-74-2---	gamma-Chlordane	0.50	U
8001-35-2---	Toxaphene	1.0	U
12674-11-2--	Arochlor-1016	0.50	U
11104-28-2--	Arochlor-1221	0.50	U
11141-16-5--	Arochlor-1232	0.50	U
53469-21-9--	Arochlor-1242	0.50	U
12672-29-6--	Arochlor-1248	0.50	U
11097-69-1--	Arochlor-1254	1.0	U
11096-82-5--	Arochlor-1260	1.0	U

FORM I PEST

EPA SAMPLE I
X101

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) Soil
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) Low
% Moisture: not dec. _____ dec. _____
Extraction: (SepF/Cont/Sonc) Sonc
GPC Cleanup: (Y/N) N pH: _____

Contract: Sandwich Pw
Lab Sample ID: 2000GW-
Lab File ID: _____
Date Received: 08/31/8
Date Extracted: 09/01
Date Analyzed: 09/12/
Dilution Factor: 0.

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	8.0	U
319-85-7----	beta-BHC	8.0	U
319-86-8----	delta-BHC	12	
58-89-9-----	gamma-BHC (Lindane)	8.0	U
76-44-8-----	Heptachlor	16	
309-00-2----	Aldrin	16	
1024-57-3---	Heptachlor epoxide	22	
959-98-8----	Endosulfan I	20	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	20	U
53494-70-5--	Endrin ketone	59	
5103-71-9---	alpha-Chlordane	20	U
5103-74-2---	gamma-Chlordane	20	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Arochlor-1016	20	U
11104-28-2--	Arochlor-1221	20	U
11141-16-5--	Arochlor-1232	20	U
53469-21-9--	Arochlor-1242	20	U
12672-29-6--	Arochlor-1248	20	U
11097-69-1--	Arochlor-1254	160	U
11096-82-5--	Arochlor-1260	160	U

FORM I PEST

EPA SAMPLE NO
X102

ID
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name: ARDL
Matrix: (soil/water) SOIL
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW
% Moisture: not dec. ____ dec. ____
Extraction: (SepF/Cont/Sonc) SONC
GPC Cleanup: (Y/N) N pH: ____

Contract: Sandwich PW
Lab Sample ID: 200060-6
Lab File ID: ____
Date Received: 08/31/
Date Extracted: 09/01/8
Date Analyzed: 09/13/
Dilution Factor: 0.05

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

CAS NO.	COMPOUND		Q
319-84-6----	alpha-BHC	2.0	U
319-85-7----	beta-BHC	2.0	U
319-86-8----	delta-BHC	2.0	U
58-89-9-----	gamma-BHC (Lindane)	2.0	U
76-44-8-----	Heptachlor	18	
309-00-2----	Aldrin	2.0	
1024-57-3---	Heptachlor epoxide	2.0	U
959-98-8----	Endosulfan I	2.0	U
60-57-1-----	Dieldrin	16	U
72-55-9-----	4,4'-DDE	16	U
72-20-8-----	Endrin	16	U
33213-65-9--	Endosulfan II	16	U
72-54-8-----	4,4'-DDD	16	U
1031-07-8---	Endosulfan sulfate	16	U
50-29-3-----	4,4'-DDT	16	U
72-43-5-----	Methoxychlor	80	U
53494-70-5--	Endrin ketone	16	U
5103-71-9---	alpha-Chlordane	80	U
5103-74-2---	gamma-Chlordane	80	U
8001-35-2---	Toxaphene	160	U
12674-11-2--	Arochlor-1016	80	U
11104-28-2--	Arochlor-1221	80	U
11141-16-5--	Arochlor-1232	80	U
53469-21-9--	Arochlor-1242	80	U
12672-29-6--	Arochlor-1248	80	U
11097-69-1--	Arochlor-1254	160	U
11096-82-5--	Arochlor-1260	160	U

FORM I PEST

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Sept. 10. 86

SAMPLE NUMBER : D650170
SAMPLING POINT DESC. : SANDWICH #1 (GW)

SUBMITTING SOURCE # : SITE # : 0374850
DATE COLLECTED : 860910 TIME COLLECTED : 1010 SAMPLING PROGRAM :

COLLECTED BY : G T WHITE DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW34 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 860912 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOCS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L	1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	1.0K
P32105	CHLORODIBROMOMETHANE	UG/L	1.0K
P32104	BROMOFORM	UG/L	1.0K
P34423	METHYLENE CHLORIDE	UG/L	1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	1.0K
P34496	1,1-DICHLOROETHANE	UG/L	1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	1.0K
P77279	1,2-DICHLOROETHANE	UG/L	1.0K
[illegible]506	1,1,1-TRICHLOROETHANE	UG/L	1.0K
P32102	CARBON TETRACHLORIDE	UG/L	1.0K
P39180	TRICHLOROETHYLENE	UG/L	24.0
P34475	TETRACHLOROETHYLENE	UG/L	1.0K
P34301	CHLOROBENZENE	UG/L	1.0K
P34716	DICHLOROBENZENE	UG/L	1.0K
P78124	BENZENE	UG/L	1.0K
P78131	TOLUENE	UG/L	1.0K
P78113	ETHYLBENZENE	UG/L	1.0K
P81551	XYLENE	UG/L	1.0K

RECEIVED
OCT 8-1986

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D651667
SAMPLING POINT DESC. : SANDWICH WELL #1 (GW)

Nov 12 - 86

SUBMITTING SOURCE # : SITE # : 0374850
DATE COLLECTED : 861112 TIME COLLECTED : 1300 SAMPLING PROGRAM :

COLLECTED BY : DAN GILBERT DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW34 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 861117 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOCS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L	: 1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	: 1.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 1.0K
P32104	BROMOFORM	UG/L	: 1.0K
P34423	METHYLENE CHLORIDE	UG/L	: 1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 1.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 1
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 1.0K
P77279	1,2-DICHLOROETHANE	UG/L	: 2
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 1.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 1.0K
P39180	TRICHLOROETHYLENE	UG/L	: 17
P34475	TETRACHLOROETHYLENE	UG/L	: 1.0K
P34301	CHLOROBENZENE	UG/L	: 1.0K
P34716	DICHLOROBENZENE	UG/L	: 1.0K
P78124	BENZENE	UG/L	: 1.0K
P78131	TOLUENE	UG/L	: 1.0K
P78113	ETHYLBENZENE	UG/L	: 1.0K
P81551	XYLENE	UG/L	: 1.0K
P00400	PH,FIELD UNITS :		
P00020	TEMPERATURE,AIR DEG.C :		
P00094	COND.(EC)FIELD UMHOS/CM :		
P00061	STREAMFLOW,INSTANT. CFS :		

RECEIVED
DEC 16 1986
DIV. OF PUBLIC WATER SUPPLIES
ENVIRONMENTAL PROTECTION AGENCY
SPRINGFIELD, ILLINOIS

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D752806
SAMPLING POINT DESC. : SANDWICH WELL #1/ RAW

SUBMITTING SOURCE # : 0374850 SITE # :
DATE COLLECTED : 870106 TIME COLLECTED : 0730 SAMPLING PROGRAM :

COLLECTED BY : LINDSTROM DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW30 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 870107 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOC REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L :	1.0K
P32101	DICHLOROBROMOMETHANE	UG/L :	1.0K
P32105	CHLORODIBROMOMETHANE	UG/L :	1.0K
P32104	BROMOFORM	UG/L :	1.0K
P34423	METHYLENE CHLORIDE	UG/L :	1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L :	1.0K
P34496	1,1-DICHLOROETHANE	UG/L :	1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L :	1
P77279	1,2-DICHLOROETHANE	UG/L :	1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L :	1.0K
P32102	CARBON TETRACHLORIDE	UG/L :	1.0K
P39180	TRICHLOROETHYLENE	UG/L :	31
P34475	TETRACHLOROETHYLENE	UG/L :	1.0K
P34301	CHLOROBENZENE	UG/L :	1.0K
P34716	DICHLOROBENZENE	UG/L :	1.0K
P78124	BENZENE	UG/L :	1.0K
P78131	TOLUENE	UG/L :	1.0K
P78113	ETHYLBENZENE	UG/L :	1.0K
P81551	XYLENE	UG/L :	1.0K

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D651668
SAMPLING POINT DESC. : SANDWICH WELL #2 (GW)

SUBMITTING SOURCE # : SITE # : 0374850
DATE COLLECTED : 861112 TIME COLLECTED : 1420 SAMPLING PROGRAM :

COLLECTED BY : DAN GILBERT DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW34 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 861117 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOCS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L	: 1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	: 1.0K
P32105	CHLORODIBROMOMETHANE	UG/L	: 1.0K
P32104	BROMOFORM	UG/L	: 1.0K
P34423	METHYLENE CHLORIDE	UG/L	: 1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	: 1.0K
P34496	1,1-DICHLOROETHANE	UG/L	: 1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	: 1.0K
P77273	1,2-DICHLOROETHANE	UG/L	: 1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L	: 1.0K
P32102	CARBON TETRACHLORIDE	UG/L	: 1.0K
P39180	TRICHLOROETHYLENE	UG/L	: 113
P34475	TETRACHLOROETHYLENE	UG/L	: 1.0K
P34301	CHLOROBENZENE	UG/L	: 1.0K
P34716	DICHLOROBENZENE	UG/L	: 1.0K
P78124	BENZENE	UG/L	: 1.0K
P78131	TOLUENE	UG/L	: 1.0K
P78113	ETHYLBENZENE	UG/L	: 1.0K
P81551	XYLENE	UG/L	: 1.0K
P00400	PH,FIELD UNITS :		
P00020	TEMPERATURE,AIR DEG.C :		
P00094	COND.(EC)FIELD UMHOS/CM :		
P00061	STREAMFLOW,INSTANT. CFS :		

RECEIVED
OCT 16 1986

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D650171
SAMPLING POINT DESC. : SANDWICH #2 (GW)

SUBMITTING SOURCE # : SITE # : 0374850
DATE COLLECTED : 860910 TIME COLLECTED : 1105 SAMPLING PROGRAM :

COLLECTED BY : G T WHITE DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW34 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 860912 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOCS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L :	1.0K
P32101	DICHLOROBROMOMETHANE	UG/L :	1.0K
P32105	CHLORODIBROMOMETHANE	UG/L :	1.0K
P32104	BROMOFORM	UG/L :	1.0K
P34423	METHYLENE CHLORIDE	UG/L :	1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L :	1.0K
P34496	1,1-DICHLOROETHANE	UG/L :	1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L :	1.0K
P77279	1,2-DICHLOROETHANE	UG/L :	1.0K
[illegible]506	1,1,1-TRICHLOROETHANE	UG/L :	1.0K
P32102	CARBON TETRACHLORIDE	UG/L :	1.0K
P39180	TRICHLOROETHYLENE	UG/L :	17
P34475	TETRACHLOROETHYLENE	UG/L :	1.0K
P34301	CHLOROBENZENE	UG/L :	1.0K
P34716	DICHLOROBENZENE	UG/L :	1.0K
P78124	BENZENE	UG/L :	1.0K
P78131	TOLUENE	UG/L :	1.0K
P78113	ETHYLBENZENE	UG/L :	1.0K
P81551	XYLENE	UG/L :	1.0K

RECEIVED
OCT 8 - 1986
[illegible] WATER SUPPLIES

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : D752802
SAMPLING POINT DESC. : SANDWICH/WELL #2/RAW

SUBMITTING SOURCE # : 0374850 SITE # :
DATE COLLECTED : 870106 TIME COLLECTED : 0715 SAMPLING PROGRAM :

COLLECTED BY : LINDSTROM DELIVERED BY : MAIL
COMMENTS :
FUNDING CODE : PW30 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 870107 TIME RECEIVED : 1000 RECEIVED BY : D V
LAB OBSERVATIONS : 2 VOCS REPORTING INDICATOR :
SUPERVISORS INITIALS : JTH NOTE : K = LESS THAN VALUE

P32106	CHLOROFORM	UG/L	1.0K
P32101	DICHLOROBROMOMETHANE	UG/L	1.0K
P32105	CHLORODIBROMOMETHANE	UG/L	1.0K
P32104	BROMOFORM	UG/L	1.0K
P34423	METHYLENE CHLORIDE	UG/L	1.0K
P34501	1,1-DICHLOROETHYLENE	UG/L	1.0K
P34496	1,1-DICHLOROETHANE	UG/L	1.0K
P34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	1.0K
P77279	1,2-DICHLOROETHANE	UG/L	1.0K
P34506	1,1,1-TRICHLOROETHANE	UG/L	1.0K
P32102	CARBON TETRACHLORIDE	UG/L	1.0K
P39180	TRICHLOROETHYLENE	UG/L	11
P34475	TETRACHLOROETHYLENE	UG/L	1.0K
P34301	CHLOROBENZENE	UG/L	1.0K
P34716	DICHLOROBENZENE	UG/L	1.0K
P78124	BENZENE	UG/L	1.0K
P78131	TOLUENE	UG/L	1.0K
P78113	ETHYLBENZENE	UG/L	1.0K
P81551	XYLENE	UG/L	1.0K

APPENDIX H

IEPA SITE PHOTOGRAPHS

DATE: 7-13-88

TIME: 1:00 PM

Photograph by:

K. CORKILL

Location:

L037000000

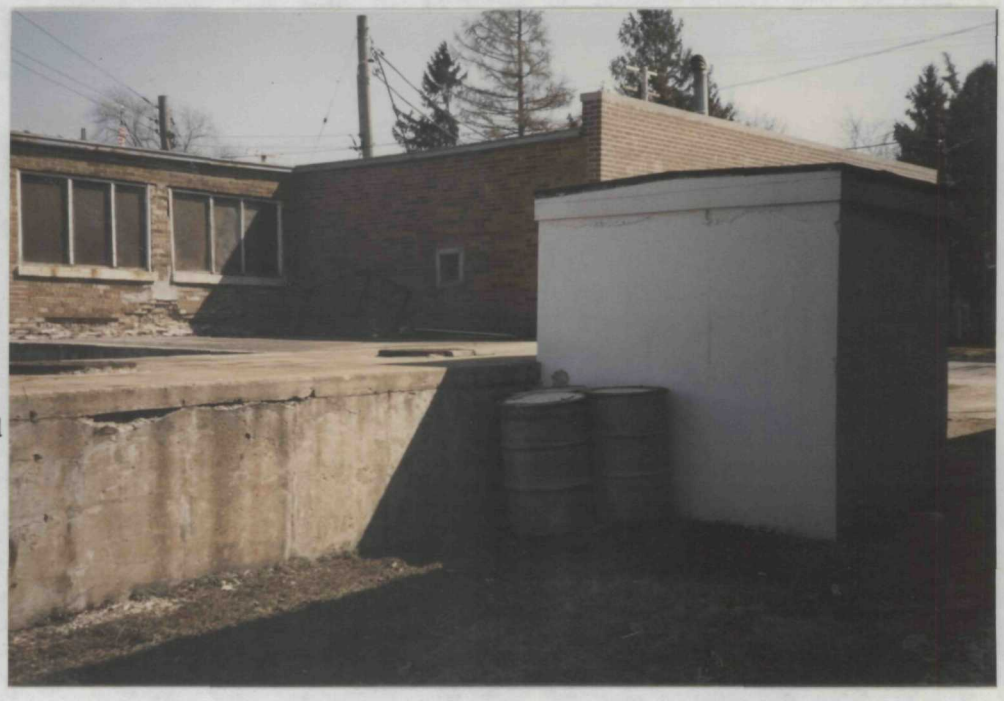
SANDWICH PWS/GARLANDS FURNITURE

Comments: Picture taken toward

S.E.

@ WATER PLANT

WELL #2



DATE: 7-13-88

TIME: 1:00 pm

Photograph by:

K. CORKILL

Location: 037000000

SANDWICH PWS/GARLANDS FURNITURE

Comments: Picture taken toward

NE

@ WATER PLANT

Date: 8-30-88

Time: 11:00 A.M. P.M.

Photograph By:

G DUNN

Location: LPC-0370000000

DEKALB Co.

SANDWICH PWS / GARLANDS FURNITURE

Comments: Photograph taken

toward the SW

G101

Date: 8-30-88

Time: 11:00 A.M. P.M.

Photograph By:

K. CORKILL

Location: LPC-0370000000

DEKALB Co.

SANDWICH PWS / GARLANDS FURNITURE

Comments: Photograph taken

toward the NE

G-101

L/NPC 24 6/78

Date: 8-30-88

Time: 2:45 A.M. P.M.

Photograph By:

G. DUNN

Location: LPC-0370000000

DEKALB Co.

SANDWICH PWS / GARLANDS FURNITURE

Comments: Photograph taken

toward the SOUTH

X101

Date: 8-30-88

Time: 2:45 A.M. P.M.

Photograph By:

T. CRAUSE

Location: LPC-0370000000

DEKALB Co.

SANDWICH PWS / GARLANDS FURNITURE

Comments: Photograph taken

toward the SW

X101

DATE: 8-30-88

TIME: 3:00 pm

Photograph by:

T. CRAUSE

Location: L0370000000
DEKALB
SANDWICH PWS/
GARLANDS FURNITURE

Comments: Picture taken toward

WEST

(IN GROUND TANK)

X 102

DATE: 8-30-88

TIME: 1:55 pm

Photograph by:

K. CORKILL

Location: L0370000000
DEKALB
SANDWICH PWS/ GARLANDS FURNITURE

Comments: Picture taken toward

NW

G-104

DATE: 8-30-88

TIME: 3:00 pm

Photograph by:

G. DUNN

Location: L0370000000
DEKALB CO.
SANDWICH PWS/ GARLANDS
FURNITURE

Comments: Picture taken toward

EAST

X102

DATE: 8-30-88

TIME: 2:10 pm

Photograph by:

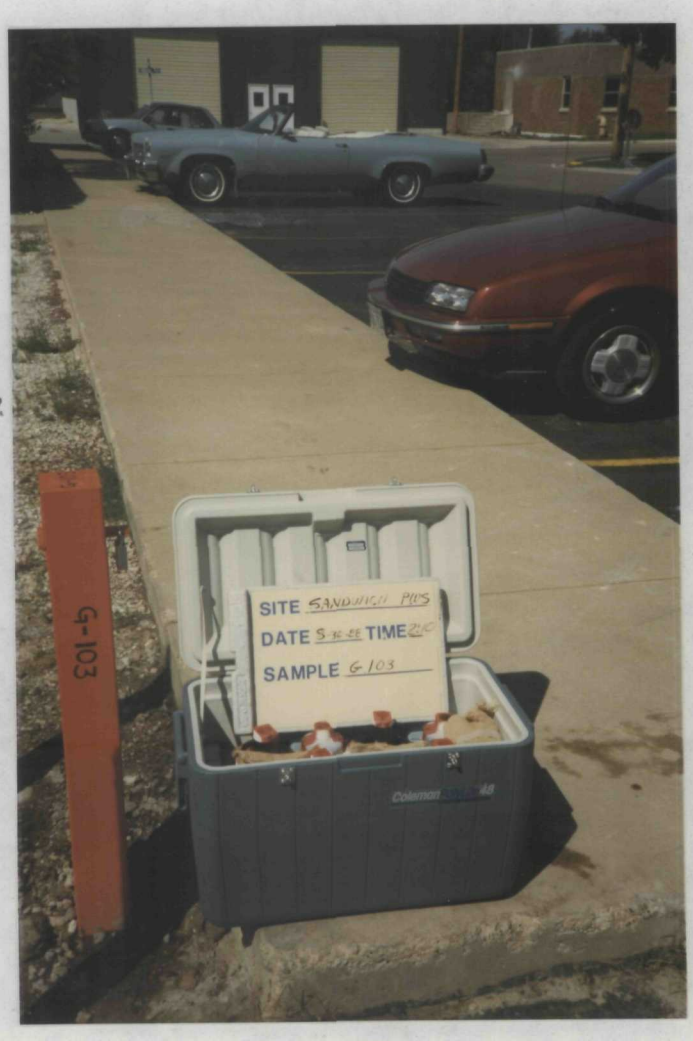
K. CORKILL

Location: 0370000000 - DEKALB CO.
SANDWICH PWS/ GARLANDS FURNITURE

Comments: Picture taken toward

NORTH

G-103



IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: 8-30-88

TIME: 2:15 pm

Photograph by:

T. CRAUSE

Location: L0370000000 DEKALB CO.

SANDWICH PWS/GARLANDS

FURNITURE

Comments: Picture taken toward

NORTH

G-103

DATE: 8-30-88

TIME: 1:55 pm

Photograph by:

K. CORKILL

Location: L0370000000-DEKALB CO.

SANDWICH PWS/ GARLANDS FURNITURE

Comments: Picture taken toward

SW

G-104

IL 532-0603
L/NPC 24 (Rev. 7/86)