



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

J.F. KENNEDY FEDERAL BUILDING, BOSTON, MASSACHUSETTS 02203-2211

MAY 26 11 35 AM '94

May 18, 1994

Dennis Dodd  
Harbour Industries  
P.O. Box 188, Route 7  
Shelburne, VT 05482

Dear Mr. Dodd:

I am writing to inform you of a United States Environmental Protection Agency (EPA) decision regarding the Harbour Industries (Former) property located on Route 7 in Shelburne, Vermont (EPA Identification Number: VTD002428894).

Based upon the Site Inspection Final Report, March 1994, EPA has determined that a "No Further Remedial Action Planned" or NFRAP decision is appropriate, and no further work is anticipated at this site by the Superfund Site Assessment program. Sites receive a NFRAP decision when the Superfund Site Assessment program has completed its assessment of a site, and has determined that no further steps will be taken to list a site on the National Priorities List (NPL).

The NFRAP decision does not necessarily mean that there is no hazard associated with this site; it means only that based upon available information, this site is not judged to be a potential NPL site. This NFRAP decision may be changed, however, based upon additional information or other considerations which make a recommendation for listing appropriate at a later time. In addition, further actions may be taken at sites that receive a NFRAP decision by the Superfund Removal program, other EPA or federal programs, or by state and local programs.

Sites are not removed from the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database after site evaluations have been completed in order to document that these evaluations took place and preclude the possibility that they be needlessly repeated. Inclusion of a specific site or area in the CERCLIS database carries no legal or regulatory consequences.

Please contact me at 617 573-9648 if you have any questions.

Sincerely,

Donald R. Smith  
Vermont Site Assessment Manager

cc: C. Schwer (VT DEC)



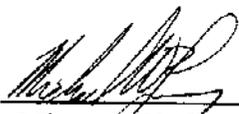
Site Inspection Report  
For  
Harbour Industries  
(Former)  
2065 Shelburne Road  
Shelburne, Vermont

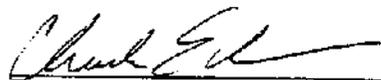
EPA ID # VTD002428894

March 1994

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## 1. Introduction

The Hazardous Materials Management Division (HMMD), Vermont Department of Environmental Conservation (DEC), conducted a Site Investigation (SI) at the Former Harbour Industries Production Facility located at 2065 Shelburne Road in Shelburne, Vermont under a cooperative agreement with the Environmental Protection Agency (EPA). In May 1990, the HMMD completed a Preliminary Assessment (PA) on this property. The PA concluded that a SI was warranted.

This package follows guidelines developed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), as amended, commonly known as Superfund. The SI does not necessarily fulfill the requirements of other Federal, State or local regulations. SI's are intended to provide a preliminary screening of sites to facilitate EPA's assignment of site priorities. They are limited in scope and are not intended to supersede more detailed investigations.

## 2. Site Description

### 2.1 Site Location

The Former Harbour Industries Production Facility is located at 2065 Shelburne Road in the Harbour Industries Industrial Park, Shelburne, Chittenden County, Vermont (Figure 1). The geographic coordinates of the site are 44° 23' 12.5" north latitude and 073° 13' 30.9" west longitude at an approximate elevation of 132 feet above mean sea level. The town of Shelburne is located in northwestern Vermont and bounded on the north, east and south by the towns of South Burlington, St. George, Hinesburg, and Charlotte. To the west is Shelburne Bay and Lake Champlain. No other CERCLIS sites are located within a mile of the site (1).

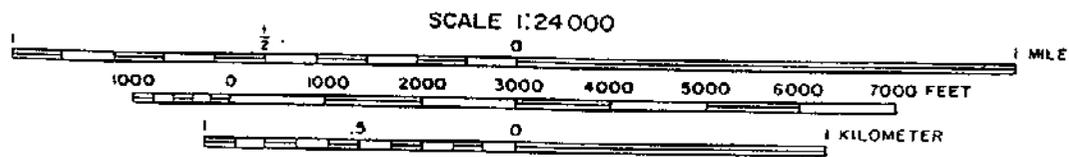
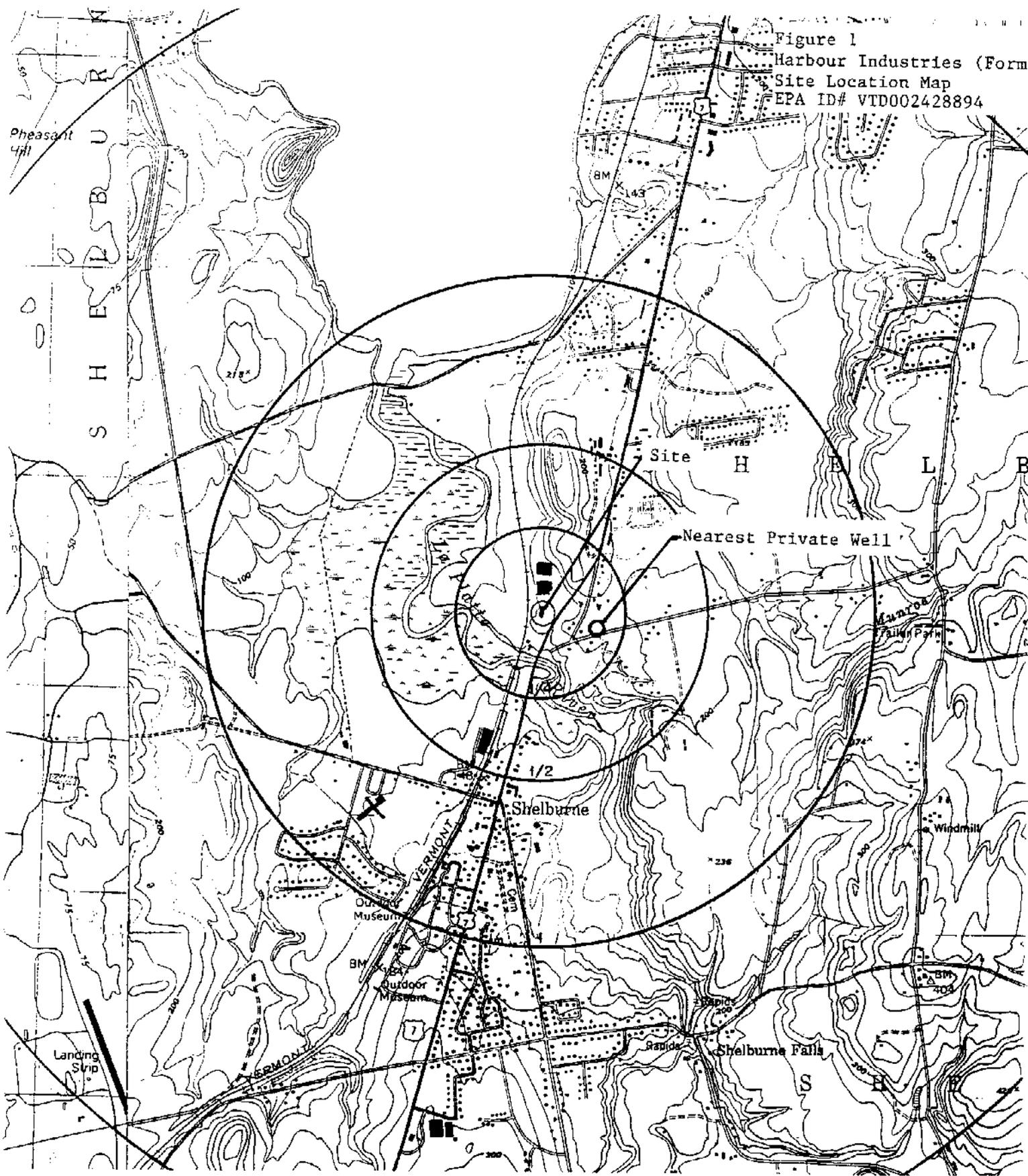
The closest weather reporting station is located at the Burlington International Airport approximately 6.5 miles northeast of the property. The 30 year mean annual precipitation is reported to be 34 inches with a mean annual lake evaporation of 24 inches for a net annual precipitation of 10 inches (2,3).

### 2.2 Site Description

The property encompasses approximately seven (7) acres in the Harbour Industries Industrial Park. The building is currently leased to three businesses, a furniture warehouse, printing shop and clothing manufacturer/distributor. Other businesses located in the Industrial Park include the current Harbour Industries production facility and a radio frequency cable line and airplane pylon refurbishing (4).

The former Harbour Industries facility is bounded to the north by the current Harbour Industries facility, the east by Route 7 the south by an auto body shop and the La Platte River,

Figure 1  
 Harbour Industries (Formerly)  
 Site Location Map  
 EPA ID# VTD002428894



CONTOUR INTERVAL 20 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



and the west by Vermont Railway tracks (Figure 2). The Industrial Park is served by municipal sewer and water services.

### 2.3 Operational History and Waste Characteristics

Harbour Industries operated from the building for approximately 17 years from 1965 to 1982. Harbour Industries produces teflon coated high temperature wire and cable for uses in military, aerospace and commercial (computer, appliances) applications. In 1982 Harbour Industries consolidated their Colchester operation at their current facility adjacent to the subject property. Both facilities are connected into public water and sewer systems (5). Harbour Industries is currently classified as a Conditionally Exempt Small Quantity Generator (6).

The Former Shelburne Harbour Industries Facility was entered into CERCLIS due to reported on-site disposal that occurred at the Harbour Industries Colchester facility. Hazardous wastes associated with the wire production process at the former Colchester facility include solvents, caustics, and lacquers. It was presumed that the same types of wastes were generated at the Shelburne facility. Specific hazardous wastes and quantities generated and their general use are listed in Table 1.

Assorted plastic and metal containers were disposed of with the general rubbish at the landfill. Minute amounts of wire coding/marketing inks were also generated. The waste water based inks were generated during cleaning of wire marking equipment. Approximately eight (8) ounces of water based ink waste was generated each month. This ink was discharged to the sewer system. Approximately two (2) ounces of chemical based inks were generated each month. These inks were cleaned from the equipment with solvents (toluene, MEK) and rags. The rags were then disposed of at the landfill (6).

It is not known if any dumping of hazardous materials occurred on the property. However; if any dumping did occur it is believed that it would have occurred at the rear of the facility.

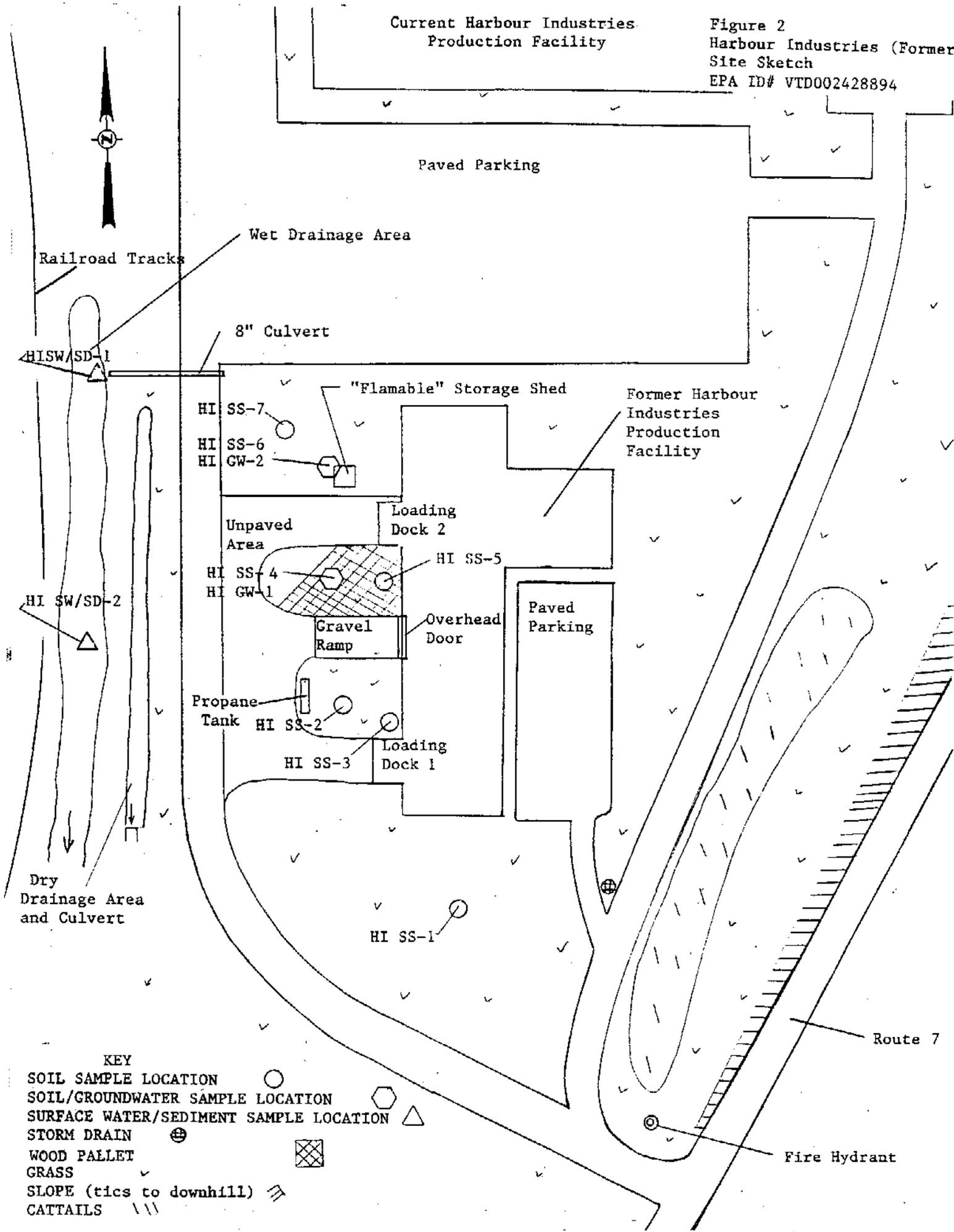
## 3.0 Waste/Source Sampling

### 3.1 Sample Locations

Environmental media was sampled to determine if any hazardous materials were present on the property. This sampling included seven (7) soil samples, two (2) groundwater samples and two (2) surface water and sediment samples. Sample locations are summarized in Table 2. Compounds analyzed for include volatile organic compounds (VOC's), metals and semivolatle organic compounds (SVOC's).

Current Harbour Industries  
Production Facility

Figure 2  
Harbour Industries (Former)  
Site Sketch  
EPA ID# VTDO02428894



KEY

- SOIL SAMPLE LOCATION ○
- SOIL/GROUNDWATER SAMPLE LOCATION ◐
- SURFACE WATER/SEDIMENT SAMPLE LOCATION △
- STORM DRAIN ⊕
- WOOD PALLET ▒
- GRASS ∨
- SLOPE (tics to downhill) ≡
- CATTAILS \\\

Table 1 Hazardous Wastes/Quantities Generated Former Colchester Location of Harbour Industries			
Waste	Gallons Per Month Generated	Use	Disposal Method
"Chemgrip Treating Agent"	5	Etch Wire	Dumped on Ground
Acetone	3	Remove Excess Chemgrip	Dumped on Ground
Methyl Ethyl Ketone	3	Parts Cleaner	Dumped on Ground
Trichloroethylene	2.5	Wire Cleaner	Evaporate
1-1-1 Trichloroethane	2.5	Wire Cleaner	Evaporate
Lonco Mer-1	4	Parts Cleaner	Evaporate, neutralize and send to Sewer
L-300 Clear Butyl Lacquer	2	Coat Glass Braid Wire	Sanitary Landfill

### 3.2 Analytical Results

Analytical results indicate a release to soil, groundwater and surface water has occurred at the site. Trichloroethene (TCE) and 1,2-dichloroethene (DCE) were detected in two soil samples (H.I. SS-4, H.I. SS-5). TCE and DCE were detected in the two groundwater samples (H.I. GW-1, H.I. GW-2). TCE was also detected in both surface water samples while DCE was detected in one surface water sample (H.I. SW-2). Low levels of SVOC's were detected in two soil samples (H.I. SS-1, H.I. SS-3) and one sediment sample (H.I. SD-1). Mercury was detected in one groundwater sample (H.I. GW-1) while zinc detected in both. Zinc and lead were detected in all surface water and sediment samples while copper was detected in three (H.I. SW-1, H.I. SD-1, H.I. SD-2). Arsenic and mercury were detected in H.I. SD-2. Zinc was detected in four soil samples (H.I. SS-1, H.I. SS-3, H.I. SS-6, H.I. SS-7). Arsenic was detected in H.I. SS-6.

### 3.3 Conclusions

Analytical results indicate a release has occurred at the former Harbour Industries production facility. VOC's and SVOC's were detected in groundwater and surface water samples.

Table 2  
Former Harbour Industries  
SI Sample Location Data

Sample	Media	Parameter	Location
H.I. SS-1	Soil	VOC's, SVOC's, Metals	Southern Portion of Property
H.I. SS-2	Soil	VOC's, SVOC's, Metals	Eight Feet East of Propane Tank
H.I. SS-3	Soil	VOC's, SVOC's, Metals	Ten Feet North of Door at Southern Loading Dock
H.I. SS-4	Soil	VOC's, SVOC's, Metals	Vicinity Gravel Ramp and Pallets
H.I. SS-5	Soil	VOC's, SVOC's, Metals	Vicinity Gravel Ramp and Drums
H.I. SS-6	Soil	VOC's, SVOC's, Metals	N.W. Corner of Small Building
H.I. SS-7	Soil	VOC's, SVOC's, Metals	25 Feet NW of H.I. SS-6
H.I. GW-1	Aqueous	VOC's, Metals	Same as H.I. SS-4
H.I. GW-2	Aqueous	VOC's, Metals	Same as H.I. SS-6
H.I. SW-1	Aqueous	VOC's, Metals	End of Culvert
H.I. SW-2	Aqueous	VOC's, Metals	Water in Drainage Swale
H.I. SD-1	Sediment	SVOC's, Metals	Same as H.I. SW-1
H.I. SD-2	Sediment	SVOC's, Metals	Same as H.I. SW-2
Trip Blank	-	VOC's	-

## 4.0 Ground Water Pathway

### 4.1 Hydrogeology

Shelburne is located in the Champlain Lowland subdivision of the New England physiographic province. The Champlain lowland is characterized as topographically low with scattered hills on a gentle westward sloping plain. The site is located along the north-south

trending contact between the Winooski Dolomite (east) and the Monkton Quartzite (west). The Winooski Dolomite is comprised of a buff weathered, pink or gray dolomite with bedding from four inches to a foot thick and is more resistant to weathering than limestone. However; it is susceptible to solution weathering along active fractures. The Monkton Quartzite is characterized by quartzite interbedded with relatively thick sections of dolomite. Generally resistant to physical and chemical weathering and erosion (8, 9).

Surficial material mapped on site are lacustrine and marine clay sand silt. This type of material is poorly drained with medium to high plasticity (10). Soils on site are Scantic silt loam with 0-2% slopes. Scantic soils are poorly drained and consist of loam underlain by a clayey material (11).

#### 4.2 Targets

Residential, industrial and commercial establishments along Route 7 are connected to the Champlain Water District. The source for this water supply is Lake Champlain. The intake for the system is located approximately eight (8) stream miles north in Burlington Bay. The system supplies water to 14 water supply systems serving approximately 117,321 residents in the towns of Burlington, Colchester, Essex Junction, Essex Town, Jericho, Milton, Shelburne, South Burlington, Williston, Winooski, and the IBM complex (12).

The nearest private drinking water supply is approximately 0.2 miles east of the property (Figure 1). Approximately 67 private well users are located within a mile of the site (13). The nearest public-community water supply is the Livingston Mobile Home Park located approximately 1.2 miles east of the site (14). Approximately 1,152 people rely on private water supplies within a four mile radius of the site (Table 2).

Three (3) Public-Community Water Systems (PCWS) that rely on groundwater sources are located within a four (4) mile radius of the site. These systems supply water to approximately 290 customers (12, 14). The PCWS name, source, population served and distance from the site are listed in Table 4.

#### 4.3 Sample Locations

Two (2) groundwater samples were collected from hand installed well points during the SI. Groundwater sample H.I. GW-1 was collected at soil sample location H.I. SS-4, while groundwater sample H.I. GW-2 was collected at soil sample location H.I. SS-6 (Figure 2). Once the soil samples were collected, augering was continued until to a depth of approximately 5.5 feet. A well point was installed and the groundwater level allowed to equilibrate. Each well was purged of three (3) well volumes and samples collected. Samples were analyzed for VOC's and select metals.

Table 3  
Private Well Users  
Within Four Miles  
of the  
Former Harbour Industries Facility

Distance From Site in Miles	Approximate Population Served
Onsite	0
0.00-0.25	0
0.25-0.50	3
0.50-1.00	64
1.00-2.00	364
2.00-3.00	475
3.00-4.00	501
Total	1,407

#### 4.4 Analytical Results

VOC analysis for sample H.I. G.W-1 quantified TCE and 1,2-DCE at 2,880 ppb and 120 ppb respectively. The only metals identified above method detection limits in the groundwater sample collected from H.I. GW-1 were mercury and zinc at 0.3 ppb and 667 ppb respectively. Analysis of sample H.I. GW-2 identified TCE (1,020 ppb), DCE (23 ppb) and zinc (176 ppb). Please note that sample H.I. GW-2 was not analyzed within the specified hold time. Analytical results for groundwater samples collected are summarized in Table 5.

#### 4.5 Conclusions

The vast majority of residents within four miles of the site rely on the CWD for water. The source is Lake Champlain. Approximately 1,407 residents rely on private groundwater supplies. Another 270 rely on groundwater supplied by PCWS. Analytical results of two groundwater samples collected from hand augered well points installed during the SI detected TCE, 1,2-DCE in both samples. Mercury was detected in the groundwater sample collected from H.I. GW-1 at 0.3 ppb. Zinc was detected in both samples (667 ppb at H.I. GW-1, 176 ppb at H.I. GW-2).

Table 4 Public-Community Groundwater Supply Systems Within A Four Mile Radius of the Former Harbour Industries Facility			
System Name	Source	Distance From Site	Population Served
Livingston Mobile Home Park	Two Bedrock Wells	1.2 Miles East	34
South Burlington Fire District # 1	One Bedrock Well	2.8 Miles North	220
Pillars Water System	One Bedrock Well (Back up Only)	3.0 Miles West Northwest	36
Total Population Served			290

## 5.0 Surface Water Pathway

### 5.1 Hydrology

The nearest surface water feature is the LaPlatte River. It is located approximately 600 feet south of the facility (Figure 1). The LaPlatte River is classified as a Class "C" waters. This means the river is suitable for recreational boating, irrigation of crops not used for consumption without cooking; habitat for wildlife and for common food and game fishes indigenous to the region and such industrial uses that are consistent with other "C" uses (15).

Table 5 Groundwater Analytical Results Former Harbour Industries Location		
Compound	Sample Location	
	H.I. GW-1	H.I. GW-2
Trichloroethylene	2,880	1,020
1,2-Dichloroethene	120	23
Mercury	0.3	BDL
Zinc	667	176

Results Expressed in ug/l (ppb)

BDL-Below Detection Limits

Approximately two miles downstream of the site, the LaPlatte river flows into Shelburne Bay. The bay is approximately 3.0 miles long and 1.75 miles at its widest. The bay empties into Lake Champlain approximately five downstream miles from the site. Lake Champlain is approximately 109 miles long, 11 miles at its widest, 400 feet at its deepest and encompasses approximately 172,800 acres (16). The Richelieu River drains Lake Champlain to the north to the St. Lawrence River.

Two overland drainage pathways were identified on site. The first is a drainage swale located immediately west of the paved road along the rear of the facility. During the SI the swale did not contain any water. The swale lead to what appeared to be a 18 inch culvert. Based on the position of the culvert and sediment evidence, it would appear that water entering the swale would flow in a southerly direction towards the LaPlatte River. It appeared that this drainage swale would mainly receive runoff from the road and not the site. A second drainage pathway is a eight inch culvert located at the northwest corner of the property. It appeared that any runoff from the loading dock area would flow into the culvert, under the road and into a second drainage depression that parallels the railroad tracks. At the time of the SI, this area contained standing water. When sufficient water is present, the water will flow to the La Platte River. Since this area contained water it was presumed to be the major overland drainage pathway.

## 5.2 Targets

Surface water targets that could be impacted include the LaPlatte River, wetlands located along the river, Shelburne Bay and Lake Champlain.

The intakes for the Champlain Water District (CWD) and the Burlington Water Reservoir are located approximately five and eight downstream stream miles of the site respectively. In addition to the CWD intake at near the confluence of Lake Champlain and Shelburne Bay, the CWD also purchases water from the Burlington Water Reservoir which serves approximately 56,000 customers. The CWD supplies water to 14 water supply systems serving approximately 61,321 recipients. The vast majority of these residents reside out side of the four mile distance radius. One additional PCWS intake is located within the 15 mile downstream limit in Lake Champlain (Table 6) (12).

The La Platte River, Shelburne Bay and Lake Champlain are fisheries. Sport fish species common to the La Platte River is generally limited to smallmouth and bigmouth bass. Species commonly caught in Shelburne Bay include smallmouth and bigmouth bass, and walleyed and northern pike. Species commonly caught in Lake Champlain include those previously mentioned and lake trout, landlocked salmon, perch, and smelt (17).

Approximately 3.6 miles of wetland frontage is located along the La Platte River downstream of the site. These wetlands are classified as palustrine of the forested and open water class (18).

The lake sturgeon (acipenser fulvescens) is the only State identified endangered species identified within the 15 mile downstream limit. The sturgeon has been proposed for listing on the Federal Endangered Species List (19).

Table 6 PCWS Surface Water Intakes Within A Four Mile Radius or the 15 Mile Downstream Limit Former Harbour Industries Facility		
PCWS	Source	Population Served
Champlain Water District	Shelburne Bay/Lake Champlain	61,321
Burlington Water Reservoir	Lake Champlain	56,000
Pillars Water System	Lake Champlain	36
Total Population Served		117,357

### 5.3 Sample Locations

Two (2) surface water/sediment samples were collected during the SI. Surface water/sediment sample H.I. SW/SD-1 was collected at the outfall of what appeared to be an eight inch diameter drainage culvert. The culvert appeared to drain storm water runoff from the facility under the roads and discharged it to a depressed area that parallels the railroad tracks. Sample H.I. SW/SD-2 was collected from the same depressed area approximately 100 feet south of sample H.I. SW/SD-1 location (Figure 2).

### 5.4 Analytical Results

Surface water samples were analyzed for VOC's and select metals while sediment samples were analyzed for SVOC's and select metals. TCE was detected in sample H.I. SW-1 at 5 ppb. TCE and 1,2 DCE were detected in sample H.I. SW-2 at concentrations of 86 ppb and 156 ppb respectively. Copper, lead and zinc were detected in sample H.I. SW-1 while lead and zinc were detected in sample H.I. SW-2. Fluoranthene, Pyrene and Bis (2-ethylhexyl) phthalate were detected in H.I. SD-1. Metals identified in sediment samples include copper, lead, zinc, arsenic and mercury. Analytical results are summarized in Table 7.

### 5.5 Conclusions

Three intakes serving a total of 117,357 people are located within the 15 mile downstream limit from the site. The LaPlatte River, Shelburne Bay and Lake Champlain are fisheries. Shelburne Bay and Lake Champlain are used for a variety of recreational purposes

(boating, swimming). Approximately four (4) miles of wetland frontage is located along the La Platte River downstream of the site. The lake sturgeon (*acipenser fulvescens*) is the only State identified endangered species identified within the 15 mile downstream limit. The sturgeon has been proposed for listing on the Federal Endangered Species List. Two (2) surface water/sediment samples were collected. TCE was detected in both surface water samples and DCE in one. SVOCs were detected in one sediment sample (H.I. SD-1).

Table 7  
Surface Water and Sediment  
Sample Analysis Results  
Former Harbour Industries Facility

Compound	Sample Location			
	H.I. SW-1	H.I. SW-2	H.I. SD-1	H.I. SD-2
Trichloroethene	5	86	NA	NA
1,2-Dichloroethene	ND	156	NA	NA
Copper	23	BDL	70	39
Lead	29	10	38	95
Zinc	286	39	506	317
Arsenic	BDL	BDL	BDL	3.8
Mercury	BDL	BDL	BDL	0.2
Fluoranthene	NA	NA	<700	BDL
Pyrene	NA	NA	<700	BDL
Bis (2-ethylhexyl) phthalate	NA	NA	<1,400	BDL

Metals concentrations for sediment samples expressed in ppm. Remainder are expressed in ppb

BDL-Compound Below Detection Limits

NA-Sample Not Analyzed For This Compound

## 6.0 Soil Exposure and Air Pathways

### 6.1 Physical Conditions

The majority of the subject property is vegetated with grass and trees. With the exception of the loading dock area to the rear of the facility, roads and parking lots are paved. The loading dock area is unpaved and generally consists of gravel and dirt. The area between the railroad tracks and access road at the rear of the facility was heavily vegetated. There was a wet area at the entrance to the Industrial Park that supported wetland type vegetation (cattails).

There was no evidence of potential disposal areas (stressed vegetation, stained soils). Access to the property is unrestricted (ie: no fencing).

### 6.2 Soil and Air Targets

Approximately 8,067 people reside within a four mile radius of the site (Table 8) (20). Eight workers are present on the site on a full time basis. Three or four additional workers are employed on an as needed basis to load furniture. Wetlands are located west of the property.

Table 8 Population Distribution Within A Four Mile Radius Former Harbour Industries Facility			
Radial Distance From Site (Miles)	Town	Approximate Population	Subtotal
Onsite	Shelburne	7	7
0.00-0.25	Shelburne	98	98
0.25-0.50	Shelburne	378	378
0.50-1.00	Shelburne	635	635
1.00-2.00	Shelburne	3,880	3,880
2.00-3.00	Shelburne Charlotte South Burlington	645 154 244	1,043
3.00-4.00	Shelburne Charlotte South Burlington Hinesburg	242 249 1,525 10	2,026
Total			8,067

### 6.3 Soil Sample Locations

Seven (7) soil samples were collected during the SI. Soil sample locations are illustrated on Figure 2. Soil samples were collected from areas that may have received wastes solvents. Soil samples were analyzed for the presence of VOC's, SVOC's and select metals. Discrete samples were collected approximately two feet BGS for VOC analysis. Samples to be analyzed for SVOC's and metals were composite samples collected approximately 1.5-2.0 feet BGS.

## 6.4 Soil Analytical Results

Analytical results identified VOCs at two locations. TCE was detected in samples collected at locations H.I. SS-4 (8 ppb) and SS-5 (27 ppb). Three SVOCs (fluoranthene, pyrene, benzo [b] fluoroanthene) were detected at H.I. SS-1 and one (naphthalene) at H.I. SS-3. Zinc was detected at H.I. SS-1 (51 ppm), SS-3 (91 ppm), H.I. SS-6 (42 ppm) and H.I. SS-7 (43 ppm). Arsenic was detected at H.I. SS-6 (6 ppm). Analytical results are summarized in Table 9.

Compound	Sample Location						
	H.I. SS-1	H.I. SS-2	H.I. SS-3	H.I. SS-4	H.I. SS-5	H.I. SS-6	H.I. SS-7
Trichloroethene	BDL	BDL	BDL	8	27	BDL	BDL
Fluoranthene	<600	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	<600	BDL	BDL	BDL	BDL	BDL	BDL
Benzo [b] fluoroanthene	<600	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	BDL	BDL	<500	BDL	BDL	BDL	BDL
Arsenic (mg/kg)	BDL	BDL	BDL	BDL	BDL	6	BDL
Zinc (mg/kg)	51	BDL	91	BDL	BDL	42	43

Results Expressed in ug/kg unless other wise noted  
BDL-Below Detection Limit

## 6.5 Air Monitoring

Formal air monitoring was not conducted during the SI. A photoionization device (PID) was used to monitor ambient air during sample collection. No readings were detected above background conditions (0 ppm).

## 6.6 Conclusions

The majority of the subject property is vegetated with grass and trees. With the exception of the loading dock area to the rear of the facility, roads and parking lots are paved. The loading dock area is unpaved and generally consists of gravel and dirt. The area between the railroad tracks and access road at the rear of the facility was heavily vegetated. There was a wet area at the entrance to the Industrial Park that supported wetland type vegetation (cattails). There was no evidence of potential disposal areas (stressed vegetation, stained soils). Access

Approximately 8,067 people reside within a four mile radius of the site. Eight workers are present on the site on a full time basis. Three or four additional workers are employed on an as needed basis to load furniture. Wetlands are located west of the property. Analytical results identified VOCs at two locations. TCE was detected in samples collected at locations H.I. SS-4 and SS-5. TCE in sample SS-5 was three times greater than background conditions. Three SVOCs (fluoranthene, pyrene, benzo [b] fluoroanthene) were detected at H.I. SS-1 and one (naphthalene) at H.I. SS-3. Zinc was detected at H.I. SS-1, SS-3, H.I. SS-6 and H.I. SS-7. Arsenic was detected at H.I. SS-6.

## 7. Summary and Conclusions

The Former Harbour Industries Facility located in the Harbour Industries Industrial Park operated from approximately 1965 to 1982. In 1982, Harbour Industries consolidated operations at their current production facility on the adjoining northern property. The Former Shelburne Harbour Industries Facility was entered into CERCLIS due to reported on-site disposal that occurred at the Harbour Industries Colchester facility. Hazardous wastes associated with the wire production process at the former Colchester facility include solvents, caustics, and lacquers. It was presumed that the same types of wastes were generated at the Shelburne facility.

Approximately 1,152 residents rely on private groundwater supplies. Another 290 rely on groundwater supplied by PCWS. Analytical results of two groundwater samples collected from hand augered well points installed during the SI detected TCE and DCE in both samples. Mercury was detected in the groundwater sample collected from H.I. GW-1. Zinc was detected in both groundwater samples.

Three surface water intakes serving a total of 117,357 people are located within the 15 mile downstream limit from the site. The LaPlatte River, Shelburne Bay and Lake Champlain are fisheries. Shelburne Bay and Lake Champlain are used for a variety of recreational purposes (boating, swimming). Approximately four (4) miles of wetland frontage is located along the La Platte River downstream of the site. The lake sturgeon (*acipenser fulvescens*) is the only State identified endangered species identified within the 15 mile downstream limit. The sturgeon has been proposed for listing on the Federal Endangered Species List. Two (2) surface water/sediment samples were collected. TCE was detected in both surface water samples and DCE in one. SVOCs were detected in one sediment sample (H.I. SD-1).

The majority of the subject property is vegetated with grass and trees. With the exception of the loading dock area to the rear of the facility, roads and parking lots are paved. The loading dock area is unpaved and generally consists of gravel and dirt. The area between the railroad tracks and access road at the rear of the facility was heavily vegetated. There was a wet area at the entrance to the Industrial Park that supported wetland type vegetation (cattails). There was no evidence of potential disposal areas (stressed vegetation, stained soils). Access to the property is unrestricted (ie: no fencing).

an as needed basis to load furniture. Wetlands are located west of the property. Analytical results identified VOCs at two locations. TCE was detected in samples collected at locations H.I. SS-4 and SS-5. Three SVOCs (fluoranthene, pyrene, benzo [b] fluoroanthene) were detected at H.I. SS-1 and one (naphthalene) at H.I. SS-3. Zinc was detected at H.I. SS-1, SS-3, H.I. SS-6 and H.I. SS-7. Arsenic was detected at H.I. SS-6.

## 8. References

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#### **Topographic Maps**

Burlington, Vermont, 7.5 Minute Quadrangle, 1987 Photorevised Edition, 1:24,000.

Mt Philo, Vermont, 7.5 Minute Quadrangle, 1985 Photorevised Edition, 1:24,000.

Willsboro, NY-VT, 7.5 x 15 Minute Quadrangle, 1980 Edition, 1:25,000.

Willsboro Bay, NY-VT, 7.5 x 15 Minute Quadrangle, 1980 Edition, 1:25,000.

#### **Orthophotos**

<u>Map</u>	<u>Sheet Number</u>	<u>Scale</u>
Shelburne	092208	1:5,000
Shelburne Village North	094210	1:1,250

## Appendix A

NOV 29 1993

11/23/93

Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Water

GJD

Lab Id: 5418 Report To: M. YOUNG  
Location: H.I. GW-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No Dilution factor: 20

Parameter	Units are ug/l		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	200	N.D.				
Chloromethane	200	N.D.				
Bromomethane	200	N.D.				
Chloroethane	200	N.D.				
Trichlorofluoromethane	200	N.D.				
Acetone	2000	N.D.				
1,1-Dichloroethene	100	N.D.				
Carbon disulfide	2000	N.D.				
Methylene chloride	100	N.D.				
Methyl-t-butylether (MTBE)	200	N.D.				
1,2-Dichloroethene	100	120				
1,1-Dichloroethane	100	N.D.				
Vinyl acetate	1000	N.D.				
2-Butanone	2000	N.D.				
Chloroform	100	N.D.				
1,1,1-Trichloroethane	100	N.D.				
Carbon tetrachloride	100	N.D.				
Benzene	100	N.D.				
1,2-Dichloroethane	100	N.D.				
Trichloroethene	100	2880	0			
1,2-Dichloropropane	100	N.D.				
Bromodichloromethane	100	N.D.				
4-Methyl-2-pentanone	1000	N.D.				
cis-1,2-Dichloropropene	100	N.D.				
Toluene	100	N.D.				
trans-1,3-Dichloropropene	100	N.D.				
1,1,2-Trichloroethane	100	N.D.				
2-Hexanone	1000	N.D.				
Tetrachloroethene	100	N.D.				
Dibromochloromethane	100	N.D.				
Chlorobenzene	100	N.D.				
Ethylbenzene	100	N.D.				
Xylenes	100	N.D.				
Styrene	100	N.D.				
Bromoform	100	N.D.				
1,1,2,2-Tetrachloroethane	100	N.D.				
Total Volatile Hydrocarbons	2000	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 114% D8-Toluene . . . . . 88% 4-Bromofluorobenzene . 114%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

NOV 29 1993

11/23/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5418 Report To: M. YOUNG  
Location: H.I. GW-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Recovery Dups ?	Recovery Percent
Arsenic - Water	<	5.0 ug/l					
Cadmium - Water	<	2.0 ug/l					
Copper - Water	<	10.0 ug/l					
Lead - Water	<	1.0 ug/l					
Mercury - Water		.3 ug/l		Yes		9	
Nickel - Water	<	10.0 ug/l					
Selenium - Water	<	5.0 ug/l					
Zinc - Water		667. ug/l					

Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      W = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival

11/23/93

Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Water

NOV 29 1993

GJD

Lab Id: 5419 Report To: M. YOUNG  
Location: H.I. GW-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/15/93 Over hold? Yes Dilution factor: 1

Parameter	Units are ug/l		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	5	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	5	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	5	23				
1,1-Dichloroethane	5	N.D.				
Vinyl acetate	50	N.D.				
2-Butanone	100	N.D.				
Chloroform	5	N.D.				
1,1,1-Trichloroethane	5	N.D.				
Carbon tetrachloride	5	N.D.				
Benzene	5	N.D.				
1,2-Dichloroethane	5	N.D.				
Trichloroethene	5	1020				
1,2-Dichloropropane	5	N.D.				
Bromodichloromethane	5	N.D.				
4-Methyl-2-pentanone	50	N.D.				
cis-1,2-Dichloropropene	5	N.D.				
Toluene	5	N.D.				
trans-1,3-Dichloropropene	5	N.D.				
1,1,2-Trichloroethane	5	N.D.				
2-Hexanone	50	N.D.				
Tetrachloroethene	5	N.D.				
Dibromochloromethane	5	N.D.				
Chlorobenzene	5	N.D.				
Ethylbenzene	5	N.D.				
Xylenes	5	N.D.				
Styrene	5	N.D.				
Bromoform	5	N.D.				
1,1,2,2-Tetrachloroethane	5	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 114% DB-Toluene . . . . . 86% 4-Bromofluorobenzene . 128%

Notes: Capillary column used with EPA approval. Trichloroethene quantified from 1 to 10 dilution run. Contains miscellaneous hydrocarbons.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

NOV 29 1993

11/23/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5419 Report To: M. YOUNG  
Location: H.I. GW-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Recovery Dups ? Percent
Arsenic - Water	<	5.0	ug/l				
Cadmium - Water	<	2.0	ug/l				
Copper - Water	<	10.0	ug/l				
Lead - Water	<	1.0	ug/l				
Mercury - Water	<	.2	ug/l		Yes		
Nickel - Water	<	10.0	ug/l				
Selenium - Water	<	5.0	ug/l				
Zinc - Water		176.	ug/l				

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5414 Report To: M. YOUNG  
Location: H.I. SD-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/09/93 Over hold? No  
Sample wt.: 10.8 g

Date extracted: 10/06/93  
Percent moisture: 34.7

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	700	N.D.			
Aniline	700	N.D.			
Phenol	700	N.D.			
Bis(2-chloroethyl)ether	700	N.D.			
2-Chlorophenol	1000	N.D.			
1,3-Dichlorobenzene	700	N.D.			
1,4-Dichlorobenzene	700	N.D.			
1,2-Dichlorobenzene	700	N.D.			
Benzylalcohol	1000	N.D.			
2-Methylphenol	700	N.D.			
Bis(2-chloroisopropyl)ether	700	N.D.			
Hexachloroethane	700	N.D.			
4-Methylphenol	700	N.D.			
N-Nitroso-di-n-propylamine	700	N.D.			
Nitrobenzene	700	N.D.			
Isophorone	700	N.D.			
2-Nitrophenol	1000	N.D.			
2,4-Dimethylphenol	700	N.D.			
Bis(2-chloroethoxy)methane	700	N.D.			
2,4-Dichlorophenol	1000	N.D.			
1,2,4-Trichlorobenzene	700	N.D.			
Naphthalene	700	N.D.			
Benzoic acid	7000	N.D.			
4-Chloroaniline	700	N.D.			
Hexachlorobutadiene	700	N.D.			
4-Chloro-3-methylphenol	1000	N.D.			
2-Methylnaphthalene	700	N.D.			
Hexachlorocyclopentadiene	700	N.D.			
2,4,6-Trichlorophenol	1000	N.D.			
2,4,5-Trichlorophenol	1000	N.D.			
2-Chloronaphthalene	700	N.D.			
2-Nitroaniline	3000	N.D.			
Acenaphthylene	700	N.D.			
Dimethylphthalate	1000	N.D.			
2,6-Dinitrotoluene	1000	N.D.			
Acenaphthene	700	N.D.			
3-Nitroaniline	7000	N.D.			
2,4-Dinitrophenol	7000	N.D.			
Dibenzofuran	700	N.D.			
2,4-Dinitrotoluene	1000	N.D.			
4-Nitrophenol	7000	N.D.			
Fluorene	700	N.D.			
4-Chlorophenyl phenyl ether	700	N.D.			
Diethylphthalate	1000	N.D.			
4-Nitroaniline	7000	N.D.			
4,6-Dinitro-2-methylphenol	7000	N.D.			
N-Nitrosodiphenylamine	700	N.D.			
Azobenzene	700	N.D.			
4-Bromophenyl phenyl ether	700	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5414 Report To: M. YOUNG  
Location: H.I. SD-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/09/93 Over hold? No  
Sample wt.: 10.8 g

Date extracted: 10/06/93  
Percent moisture: 34.7

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	700	N.D.			
Pentachlorophenol	3000	N.D.			
Phenanthrene	700	N.D.			
Anthracene	700	N.D.			
Di-n-butylphthalate	1000	N.D.			
Fluoranthene	700	<700			
Pyrene	700	<700			
Butyl benzyl phthalate	1000	N.D.			
Benzo[a]anthracene	700	N.D.			
Chrysene	700	N.D.			
3,3'-Dichlorobenzidine	7000	N.D.			
Bis(2-ethylhexyl)phthalate	1000	<1400			
Benzo[b]fluoranthene	700	N.D.			
Benzo[k]fluoranthene	700	N.D.			
Di-n-octylphthalate	700	N.D.			
Benzo[a]pyrene	700	N.D.			
Indeno[1,2,3,cd]pyrene	700	N.D.			
Dibenz[a,h]anthracene	700	N.D.			
Benzo[g,h,i]perylene	700	N.D.			
C-3 Alkylbenzene isomers	700	N.D.			
C-4 Alkylbenzene isomers	700	N.D.			
1-Methylnaphthalene	700	N.D.			
Dimethylnaphthalene isomers	700	N.D.			
Trimethylnaphthalene isomers	700	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	44%	Phenol-D6 . . . . .	52%	Nitrobenzene-D5 . . . . .	49%
2-Fluorobiphenyl . . . . .	48%	2,3,6-Tribromophenol . . . . .	65%	4-Terphenyl-D14 . . . . .	90%

Notes: GC/MS also detected large number of unknown compounds.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5415 Report To: M. YOUNG  
Location: H.I. SD-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/09/93 Over hold? No  
Sample wt.: 11.3 g

Date extracted: 10/06/93  
Percent moisture: 80.6

Parameter	Units are ug/kg dw PQL	Remark Result	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	2000	N.D.			
Aniline	2000	N.D.			
Phenol	2000	N.D.			
Bis(2-chloroethyl)ether	2000	N.D.			
2-Chlorophenol	5000	N.D.			
1,3-Dichlorobenzene	2000	N.D.			
1,4-Dichlorobenzene	2000	N.D.			
1,2-Dichlorobenzene	2000	N.D.			
Benzylalcohol	5000	N.D.			
2-Methylphenol	2000	N.D.			
Bis(2-chloroisopropyl)ether	2000	N.D.			
Hexachloroethane	2000	N.D.			
4-Methylphenol	2000	N.D.			
N-Nitroso-di-n-propylamine	2000	N.D.			
Nitrobenzene	2000	N.D.			
Isophorone	2000	N.D.			
2-Nitrophenol	5000	N.D.			
2,4-Dimethylphenol	2000	N.D.			
Bis(2-chloroethoxy)methane	2000	N.D.			
2,4-Dichlorophenol	5000	N.D.			
1,2,4-Trichlorobenzene	2000	N.D.			
Naphthalene	2000	N.D.			
Benzoic acid	20000	N.D.			
4-Chloroaniline	2000	N.D.			
Hexachlorobutadiene	2000	N.D.			
4-Chloro-3-methylphenol	5000	N.D.			
2-Methylnaphthalene	2000	N.D.			
Hexachlorocyclopentadiene	2000	N.D.			
2,4,6-Trichlorophenol	5000	N.D.			
2,4,5-Trichlorophenol	5000	N.D.			
2-Chloronaphthalene	2000	N.D.			
2-Nitroaniline	9000	N.D.			
Acenaphthylene	2000	N.D.			
Dimethylphthalate	5000	N.D.			
2,6-Dinitrotoluene	5000	N.D.			
Acenaphthene	2000	N.D.			
3-Nitroaniline	20000	N.D.			
2,4-Dinitrophenol	20000	N.D.			
Dibenzofuran	2000	N.D.			
2,4-Dinitrotoluene	5000	N.D.			
4-Nitrophenol	20000	N.D.			
Fluorene	2000	N.D.			
4-Chlorophenyl phenyl ether	2000	N.D.			
Diethylphthalate	5000	N.D.			
4-Nitroaniline	20000	N.D.			
4,6-Dinitro-2-methylphenol	20000	N.D.			
N-Nitrosodiphenylamine	2000	N.D.			
Azobenzene	2000	N.D.			
4-Bromophenyl phenyl ether	2000	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

Lab Id: 5415 Report To: M. YOUNG  
Location: H.I. SD-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/09/93 Over hold? No  
Sample wt.: 11.3 g

Date extracted: 10/06/93  
Percent moisture: 80.6

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	2000	N.D.			
Pentachlorophenol	9000	N.D.			
Phenanthrene	2000	N.D.			
Anthracene	2000	N.D.			
Di-n-butylphthalate	5000	N.D.			
Fluoranthene	2000	N.D.			
Pyrene	2000	N.D.			
Butyl benzyl phthalate	5000	N.D.			
Benzo[a]anthracene	2000	N.D.			
Chrysene	2000	N.D.			
3,3'-Dichlorobenzidine	20000	N.D.			
Bis(2-ethylhexyl)phthalate	5000	N.D.			
Benzo[b]fluoranthene	2000	N.D.			
Benzo[k]fluoranthene	2000	N.D.			
Di-n-octylphthalate	2000	N.D.			
Benzo[a]pyrene	2000	N.D.			
Indeno[1,2,3,cd]pyrene	2000	N.D.			
Dibenz[a,h]anthracene	2000	N.D.			
Benzo[g,h,i]perylene	2000	N.D.			
C-3 Alkylbenzene isomers	2000	N.D.			
C-4 Alkylbenzene isomers	2000	N.D.			
1-Methylnaphthalene	2000	N.D.			
Dimethylnaphthalene isomers	2000	N.D.			
Trimethylnaphthalene isomers	2000	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	52%	Phenol-D6. . . . .	53%	Nitrobenzene-D5. . . . .	51%
2-Fluorobiphenyl . . . . .	28%	2,3,6-Tribromophenol . . . . .	60%	4-Tarphenyl-D14. . . . .	105%

Notes:

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5414 Report To: M. YOUNG  
Location: H.I. SD-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Recovery Dups ? Percent
Arsenic - Solid	<	2.50	mg/kg dw				
Cadmium - Solid	<	5.00	mg/kg dw				
Copper - Solid		70.0	mg/kg dw				
Lead - Solid		38.0	mg/kg dw				
Mercury - Solid	<	.100	mg/kg dw		Yes		
Nickel - Solid	<	25.0	mg/kg dw				
Selenium - Solid	<	2.50	mg/kg dw				
Zinc - Solid		506.	mg/kg dw				

Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      N = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5415 Report To: M. YOUNG  
Location: H.I. SD-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Solid	3.80	mg/kg dw			3		
Cadmium - Solid	<	5.00 mg/kg dw			4	Y	96
Copper - Solid		39.0 mg/kg dw			2		95
Lead - Solid		95.0 mg/kg dw			3		98
Mercury - Solid	.200	mg/kg dw		Yes	0	Y	
Nickel - Solid	<	25.0 mg/kg dw			3	Y	92
Selenium - Solid	<	2.50 mg/kg dw					
Zinc - Solid		317. mg/kg dw			5		74

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error M = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

11/23/93

Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Water

NOV 29 1993

GJD

Lab Id: 5416 Report To: M. YOUNG  
Location: H.I. SW-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/13/93 Over hold? No Dilution factor: 1

Parameter	Units are ug/l		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	5	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	5	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	5	N.D.				
1,1-Dichloroethane	5	N.D.				
Vinyl acetate	50	N.D.				
2-Butanone	100	N.D.				
Chloroform	5	N.D.				
1,1,1-Trichloroethane	5	N.D.				
Carbon tetrachloride	5	N.D.				
Benzene	5	N.D.				
1,2-Dichloroethane	5	N.D.				
Trichloroethene	5	5				
1,2-Dichloropropane	5	N.D.				
Bromodichloromethane	5	N.D.				
4-Methyl-2-pentanone	50	N.D.				
cis-1,2-Dichloropropene	5	N.D.				
Toluene	5	N.D.				
trans-1,3-Dichloropropene	5	N.D.				
1,1,2-Trichloroethane	5	N.D.				
2-Hexanone	50	N.D.				
Tetrachloroethene	5	N.D.				
Dibromochloromethane	5	N.D.				
Chlorobenzene	5	N.D.				
Ethylbenzene	5	N.D.				
Xylenes	5	N.D.				
Styrene	5	N.D.				
Bromoform	5	N.D.				
1,1,2,2-Tetrachloroethane	5	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 98% D8-Toluene . . . . . 92% 4-Bromofluorobenzene . 114%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

NOV 29 1993

11/23/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5416 Report To: M. YOUNG  
Location: H.I. SW-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Water	<	5.0	ug/l					
Cadmium - Water	<	2.0	ug/l					
Copper - Water		23.0	ug/l					
Lead - Water		29.0	ug/l					
Mercury - Water	<	.2	ug/l					
Nickel - Water	<	10.0	ug/l					
Selenium - Water	<	5.0	ug/l					
Zinc - Water		286.	ug/l					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

11/23/93

Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Water

NOV 29 1993

GJD

Lab Id: 5417 Report To: M. YOUNG  
Location: H.I. SW-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/13/93 Over hold? No Dilution factor: 1

Parameter	Units are ug/l		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	5	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	5	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	5	156				
1,1-Dichloroethane	5	N.D.				
Vinyl acetate	50	N.D.				
2-Butanone	100	N.D.				
Chloroform	5	N.D.				
1,1,1-Trichloroethane	5	N.D.				
Carbon tetrachloride	5	N.D.				
Benzene	5	N.D.				
1,2-Dichloroethane	5	N.D.				
Trichloroethane	5	86				
1,2-Dichloropropane	5	N.D.				
Bromodichloromethane	5	N.D.				
4-Methyl-2-pentanone	50	N.D.				
cis-1,2-Dichloropropene	5	N.D.				
Toluene	5	N.D.				
trans-1,3-Dichloropropene	5	N.D.				
1,1,2-Trichloroethane	5	N.D.				
2-Hexanone	50	N.D.				
Tetrachloroethene	5	N.D.				
Dibromochloromethane	5	N.D.				
Chlorobenzene	5	N.D.				
Ethylbenzene	5	N.D.				
Xylenes	5	N.D.				
Styrene	5	N.D.				
Bromoform	5	N.D.				
1,1,2,2-Tetrachloroethane	5	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 96% D8-Toluene . . . . . 90% 4-Bromofluorobenzene . 114%

Notes: Capillary column used with EPA approval. 1,2 dichloroethene quantified from 1 to 2 diluton run.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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11/23/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5417 Report To: M. YOUNG  
Location: H.I. SW-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Water	<	5.0	ug/l					
Cadmium - Water	<	2.0	ug/l					
Copper - Water	<	10.0	ug/l					
Lead - Water		10.0	ug/l					
Mercury - Water	<	.2	ug/l					
Nickel - Water	<	10.0	ug/l					
Selenium - Water	<	5.0	ug/l					
Zinc - Water		39.0	ug/l					

Remarks: E = Estimated Value

I = Chemical Interference

J = Value may be in Error

N = Sample not Processed

P = Present, not Quantitated

Q = Insufficient Quantity

R = Results not Reported

W = Sample Warm on Arrival

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

GJD

Lab Id: 5407 Report To: M. YOUNG  
Location: H.I. SS-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No

Heated Purge Sample wt.: 4.5 g

Percent moisture: 21.2

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	6	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	6	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	6	N.D.				
1,1-Dichloroethane	6	N.D.				
Vinyl acetate	60	N.D.				
2-Butanone	100	N.D.				
Chloroform	6	N.D.				
1,1,1-Trichloroethane	6	N.D.				
Carbon tetrachloride	6	N.D.				
Benzene	6	N.D.				
1,2-Dichloroethane	6	N.D.				
Trichloroethene	6	N.D.				
1,2-Dichloropropane	6	N.D.				
Bromodichloromethane	6	N.D.				
4-Methyl-2-pentanone	60	N.D.				
cis-1,2-Dichloropropene	6	N.D.				
Toluene	6	N.D.				
trans-1,3-Dichloropropene	6	N.D.				
1,1,2-Trichloroethane	6	N.D.				
2-Hexanone	60	N.D.				
Tetrachloroethene	6	N.D.				
Dibromochloromethane	6	N.D.				
Chlorobenzene	6	N.D.				
Ethylbenzene	6	N.D.				
Xylenes	6	N.D.				
Styrene	6	N.D.				
Bromoform	6	N.D.				
1,1,2,2-Tetrachloroethane	6	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 114% D8-Toluene . . . . . 96% 4-Bromofluorobenzene . 114%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

DEC 3 1993

GJD

Lab Id: 5408 Report To: M. YOUNG  
Location: H.I SS-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No

Heated Purge Sample wt.: 4.9 g

Percent moisture: 14.5

Parameter	Units are ug/kg dw POL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Vinyl chloride	10	N.D.			
Chloromethane	10	N.D.			
Bromomethane	10	N.D.			
Chloroethane	10	N.D.			
Trichlorofluoromethane	10	N.D.			
Acetone	100	N.D.			
1,1-Dichloroethene	6	N.D.			
Carbon disulfide	100	N.D.			
Methylene chloride	6	N.D.			
Methyl-t-butylether (MTBE)	10	N.D.			
1,2-Dichloroethene	6	N.D.			
1,1-Dichloroethane	6	N.D.			
Vinyl acetate	60	N.D.			
2-Butanone	100	N.D.			
Chloroform	6	N.D.			
1,1,1-Trichloroethane	6	N.D.			
Carbon tetrachloride	6	N.D.			
Benzene	6	N.D.			
1,2-Dichloroethane	6	N.D.			
Trichloroethene	6	N.D.			
1,2-Dichloropropane	6	N.D.			
Bromodichloromethane	6	N.D.			
4-Methyl-2-pentanone	60	N.D.			
cis-1,2-Dichloropropene	6	N.D.			
Toluene	6	N.D.			
trans-1,3-Dichloropropene	6	N.D.			
1,1,2-Trichloroethane	6	N.D.			
2-Hexanone	60	N.D.			
Tetrachloroethene	6	N.D.			
Dibromochloromethane	6	N.D.			
Chlorobenzene	6	N.D.			
Ethylbenzene	6	N.D.			
Xylenes	6	N.D.			
Styrene	6	N.D.			
Bromoform	6	N.D.			
1,1,2,2-Tetrachloroethane	6	N.D.			
Total Volatile Hydrocarbons	100	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 110% D8-Toluene . . . . . 94% 4-Bromofluorobenzene . 112%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

GJD

Lab Id: 5409 Report To: M. YOUNG  
Location: H.I. SS-3

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No  
Heated Purge Sample wt.: 4.8 g

Percent moisture: 4.9

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	5	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	5	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	5	N.D.				
1,1-Dichloroethane	5	N.D.				
Vinyl acetate	50	N.D.				
2-Butanone	100	N.D.				
Chloroform	5	N.D.				
1,1,1-Trichloroethane	5	N.D.				
Carbon tetrachloride	5	N.D.				
Benzene	5	N.D.				
1,2-Dichloroethane	5	N.D.				
Trichloroethene	5	N.D.				
1,2-Dichloropropane	5	N.D.				
Bromodichloromethane	5	N.D.				
4-Methyl-2-pentanone	50	N.D.				
cis-1,2-Dichloropropane	5	N.D.				
Toluene	5	N.D.				
trans-1,3-Dichloropropene	5	N.D.				
1,1,2-Trichloroethane	5	N.D.				
2-Hexanone	50	N.D.				
Tetrachloroethene	5	N.D.				
Dibromochloromethane	5	N.D.				
Chlorobenzene	5	N.D.				
Ethylbenzene	5	N.D.				
Xylenes	5	N.D.				
Styrene	5	N.D.				
Bromoform	5	N.D.				
1,1,2,2-Tetrachloroethane	5	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 112% D8-Toluene . . . . . 94% 4-Bromofluorobenzene . 114%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

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GJD

Lab Id: 5410 Report To: M. YOUNG  
Location: H.I SS-4

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No

Heated Purge Sample wt.: 4.8 g

Percent moisture: 18.2

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	6	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	6	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	6	N.D.				
1,1-Dichloroethane	6	N.D.				
Vinyl acetate	60	N.D.				
2-Butanone	100	N.D.				
Chloroform	6	N.D.				
1,1,1-Trichloroethane	6	N.D.				
Carbon tetrachloride	6	N.D.				
Benzene	6	N.D.				
1,2-Dichloroethane	6	N.D.				
Trichloroethene	6	8				
1,2-Dichloropropane	6	N.D.				
Bromodichloromethane	6	N.D.				
4-Methyl-2-pentanone	60	N.D.				
cis-1,2-Dichloropropene	6	N.D.				
Toluene	6	N.D.				
trans-1,3-Dichloropropene	6	N.D.				
1,1,2-Trichloroethane	6	N.D.				
2-Hexanone	60	N.D.				
Tetrachloroethene	6	N.D.				
Dibromochloromethane	6	N.D.				
Chlorobenzene	6	N.D.				
Ethylbenzene	6	N.D.				
Xylenes	6	N.D.				
Styrene	6	N.D.				
Bromoform	6	N.D.				
1,1,2,2-Tetrachloroethane	6	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 112% D8-Toluene . . . . . 94% 4-Bromofluorobenzene . 106%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

GJD

Lab Id: 5411 Report To: M. YOUNG  
Location: H.I. SS-5

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No

Heated Purge Sample wt.: 4.9 g

Percent moisture: 16.9

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	6	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	6	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	6	N.D.				
1,1-Dichloroethane	6	N.D.				
Vinyl acetate	60	N.D.				
2-Butanone	100	N.D.				
Chloroform	6	N.D.				
1,1,1-Trichloroethane	6	N.D.				
Carbon tetrachloride	6	N.D.				
Benzene	6	N.D.				
1,2-Dichloroethane	6	N.D.				
Trichloroethene	6	27				
1,2-Dichloropropane	6	N.D.				
Bromodichloromethane	6	N.D.				
4-Methyl-2-pentanone	60	N.D.				
cis-1,2-Dichloropropene	6	N.D.				
Toluene	6	N.D.				
trans-1,3-Dichloropropene	6	N.D.				
1,1,2-Trichloroethane	6	N.D.				
2-Hexanone	60	N.D.				
Tetrachloroethene	6	N.D.				
Dibromochloromethane	6	N.D.				
Chlorobenzene	6	N.D.				
Ethylbenzene	6	N.D.				
Xylenes	6	N.D.				
Styrene	6	N.D.				
Bromoform	6	N.D.				
1,1,2,2-Tetrachloroethane	6	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 114% D8-Toluene . . . . . 92% 4-Bromofluorobenzene . 110%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

GJD

Lab Id: 5412 Report To: M. YOUNG  
Location: H.I SS-6

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/14/93 Over hold? No

Heated Purge Sample wt.: 4.8 g

Percent moisture: 16.1

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	6	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	6	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	6	N.D.				
1,1-Dichloroethane	6	N.D.				
Vinyl acetate	60	N.D.				
2-Butanone	100	N.D.				
Chloroform	6	N.D.				
1,1,1-Trichloroethane	6	N.D.				
Carbon tetrachloride	6	N.D.				
Benzene	6	N.D.				
1,2-Dichloroethane	6	N.D.				
Trichloroethene	6	N.D.				
1,2-Dichloropropane	6	N.D.				
Bromodichloromethane	6	N.D.				
4-Methyl-2-pentanone	60	N.D.				
cis-1,2-Dichloropropene	6	N.D.				
Toluene	6	N.D.				
trans-1,3-Dichloropropene	6	N.D.				
1,1,2-Trichloroethane	6	N.D.				
2-Hexanone	60	N.D.				
Tetrachloroethene	6	N.D.				
Dibromochloromethane	6	N.D.				
Chlorobenzene	6	N.D.				
Ethylbenzene	6	N.D.				
Xylenes	6	N.D.				
Styrene	6	N.D.				
Bromoform	6	N.D.				
1,1,2,2-Tetrachloroethane	6	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 114% D8-Toluene . . . . . 90% 4-Bromofluorobenzene . 114%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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12/02/93

Department of Environmental Conservation Laboratory  
Method 8240 - Volatile Organics in Solids

GJD

Lab Id: 5413 Report To: M. YOUNG  
Location: H.I. SS-7Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

## Notes:

Date Analyzed: 10/14/93 Over hold? No Dilution factor: 1  
Sample wt.: 5.2 g

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Vinyl chloride	10	N.D.				
Chloromethane	10	N.D.				
Bromomethane	10	N.D.				
Chloroethane	10	N.D.				
Trichlorofluoromethane	10	N.D.				
Acetone	100	N.D.				
1,1-Dichloroethene	5	N.D.				
Carbon disulfide	100	N.D.				
Methylene chloride	5	N.D.				
Methyl-t-butylether (MTBE)	10	N.D.				
1,2-Dichloroethene	5	N.D.				
1,1-Dichloroethane	5	N.D.				
Vinyl acetate	50	N.D.				
2-Butanone	100	N.D.				
Chloroform	5	N.D.				
1,1,1-Trichloroethane	5	N.D.				
Carbon tetrachloride	5	N.D.				
Benzene	5	N.D.				
1,2-Dichloroethane	5	N.D.				
Trichloroethene	5	N.D.				
1,2-Dichloropropane	5	N.D.				
Bromodichloromethane	5	N.D.				
4-Methyl-2-pentanone	50	N.D.				
cis-1,2-Dichloropropene	5	N.D.				
Toluene	5	N.D.				
trans-1,3-Dichloropropene	5	N.D.				
1,1,2-Trichloroethane	5	N.D.				
2-Hexanone	50	N.D.				
Tetrachloroethene	5	N.D.				
Dibromochloromethane	5	N.D.				
Chlorobenzene	5	N.D.				
Ethylbenzene	5	N.D.				
Xylenes	5	N.D.				
Styrene	5	N.D.				
Bromoform	5	N.D.				
1,1,2,2-Tetrachloroethane	5	N.D.				
Total Volatile Hydrocarbons	100	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

1,2-Dichloroethane-D4 116% DS-Toluene . . . . . 94% 4-Bromofluorobenzene . 118%

Notes: Capillary column used with EPA approval.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

Lab Id: 5407 Report To: M. YOUNG  
Location: H.I. SS-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.2 g

Date extracted: 10/05/93  
Percent moisture: 22.9

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	600	N.D.				
Aniline	600	N.D.				
Phenol	600	N.D.				
Bis(2-chloroethyl)ether	600	N.D.				
2-Chlorophenol	1000	N.D.				
1,3-Dichlorobenzene	600	N.D.				
1,4-Dichlorobenzene	600	N.D.				
1,2-Dichlorobenzene	600	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	600	N.D.				
Bis(2-chloroisopropyl)ether	600	N.D.				
Hexachloroethane	600	N.D.				
4-Methylphenol	600	N.D.				
N-Nitroso-di-n-propylamine	600	N.D.				
Nitrobenzene	600	N.D.				
Isophorone	600	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	600	N.D.				
Bis(2-chloroethoxy)methane	600	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	600	N.D.				
Naphthalene	600	N.D.				
Benzoic acid	6000	N.D.				
4-Chloroaniline	600	N.D.				
Hexachlorobutadiene	600	N.D.				
4-Chloro-3-methylphenol	1000	N.D.				
2-Methylnaphthalene	600	N.D.				
Hexachlorocyclopentadiene	600	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	600	N.D.				
2-Nitroaniline	3000	N.D.				
Acenaphthylene	600	N.D.				
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	600	N.D.				
3-Nitroaniline	6000	N.D.				
2,4-Dinitrophenol	6000	N.D.				
Dibenzofuran	600	N.D.				
2,4-Dinitrotoluene	1000	N.D.				
4-Nitrophenol	6000	N.D.				
Fluorene	600	N.D.				
4-Chlorophenyl phenyl ether	600	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	6000	N.D.				
4,6-Dinitro-2-methylphenol	6000	N.D.				
N-Nitrosodiphenylamine	600	N.D.				
Azobenzene	600	N.D.				
4-Bromophenyl phenyl ether	600	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

Lab Id: 5407 Report To: M. YOUNG  
Location: H.I. SS-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.2 g

Date extracted: 10/05/93  
Percent moisture: 22.9

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	600	N.D.				
Pentachlorophenol	3000	N.D.				
Phenanthrene	600	N.D.				
Anthracene	600	N.D.				
Di-n-butylphthalate	1000	N.D.				
Fluoranthene	600	<600				
Pyrene	600	<600				
Butyl benzyl phthalate	1000	N.D.				
Benzo[a]anthracene	600	N.D.				
Chrysene	600	N.D.				
3,3'-Dichlorobenzidine	6000	N.D.				
Bis(2-ethylhexyl)phthalate	1000	N.D.				
Benzo[b]fluoranthene	600	<600				
Benzo[k]fluoranthene	600	N.D.				
Di-n-octylphthalate	600	N.D.				
Benzo[a]pyrene	600	N.D.				
Indeno[1,2,3,cd]pyrene	600	N.D.				
Dibenz[a,h]anthracene	600	N.D.				
Benzo[g,h,i]perylene	600	N.D.				
C-3 Alkylbenzene isomers	600	N.D.				
C-4 Alkylbenzene isomers	600	N.D.				
1-Methylnaphthalene	600	N.D.				
Dimethylnaphthalene isomers	600	N.D.				
Trimethylnaphthalene isomers	600	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	49%	Phenol-D6 . . . . .	55%	Nitrobenzene-D5 . . . . .	59%
2-Fluorobiphenyl . . . . .	67%	2,3,6-Tribromophenol . . . . .	66%	4-Terphenyl-D14 . . . . .	111%

Notes: GC/MS also detected traces of unknowns.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5408 Report To: M. YOUNG  
Location: H.I SS-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.4 g

Date extracted: 10/05/93  
Percent moisture: 12.9

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
N-Nitrosodimethylamine	600	N.D.			
Aniline	600	N.D.			
Phenol	600	N.D.			
Bis(2-chloroethyl)ether	600	N.D.			
2-Chlorophenol	1000	N.D.			
1,3-Dichlorobenzene	600	N.D.			
1,4-Dichlorobenzene	600	N.D.			
1,2-Dichlorobenzene	600	N.D.			
Benzylalcohol	1000	N.D.			
2-Methylphenol	600	N.D.			
Bis(2-chloroisopropyl)ether	600	N.D.			
Hexachloroethane	600	N.D.			
4-Methylphenol	600	N.D.			
N-Nitroso-di-n-propylamine	600	N.D.			
Nitrobenzene	600	N.D.			
Isophorone	600	N.D.			
2-Nitrophenol	1000	N.D.			
2,4-Dimethylphenol	600	N.D.			
Bis(2-chloroethoxy)methane	600	N.D.			
2,4-Dichlorophenol	1000	N.D.			
1,2,4-Trichlorobenzene	600	N.D.			
Naphthalene	600	N.D.			
Benzoic acid	6000	N.D.			
4-Chloroaniline	600	N.D.			
Hexachlorobutadiene	600	N.D.			
4-Chloro-3-methylphenol	1000	N.D.			
2-Methylnaphthalene	600	N.D.			
Hexachlorocyclopentadiene	600	N.D.			
2,4,6-Trichlorophenol	1000	N.D.			
2,4,5-Trichlorophenol	1000	N.D.			
2-Chloronaphthalene	600	N.D.			
2-Nitroaniline	2000	N.D.			
Acenaphthylene	600	N.D.			
Dimethylphthalate	1000	N.D.			
2,6-Dinitrotoluene	1000	N.D.			
Acenaphthene	600	N.D.			
3-Nitroaniline	6000	N.D.			
2,4-Dinitrophenol	6000	N.D.			
Dibenzofuran	600	N.D.			
2,4-Dinitrotoluene	1000	N.D.			
4-Nitrophenol	6000	N.D.			
Fluorene	600	N.D.			
4-Chlorophenyl phenyl ether	600	N.D.			
Diethylphthalate	1000	N.D.			
4-Nitroaniline	6000	N.D.			
4,6-Dinitro-2-methylphenol	6000	N.D.			
N-Nitrosodiphenylamine	600	N.D.			
Azobenzene	600	N.D.			
4-Bromophenyl phenyl ether	600	N.D.			

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5408 Report To: M. YOUNG  
Location: H.I SS-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.4 g

Date extracted: 10/05/93  
Percent moisture: 12.9

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	600	N.D.			
Pentachlorophenol	2000	N.D.			
Phenanthrene	600	N.D.			
Anthracene	600	N.D.			
Di-n-butylphthalate	1000	N.D.			
Fluoranthene	600	N.D.			
Pyrene	600	N.D.			
Butyl benzyl phthalate	1000	N.D.			
Benzo[a]anthracene	600	N.D.			
Chrysene	600	N.D.			
3,3'-Dichlorobenzidine	6000	N.D.			
Bis(2-ethylhexyl)phthalate	1000	N.D.			
Benzo[b]fluoranthene	600	N.D.			
Benzo[k]fluoranthene	600	N.D.			
Di-n-octylphthalate	600	N.D.			
Benzo[a]pyrene	600	N.D.			
Indeno[1,2,3,cd]pyrene	600	N.D.			
Dibenz[a,h]anthracene	600	N.D.			
Benzo[g,h,i]perylene	600	N.D.			
C-3 Alkylbenzene isomers	600	N.D.			
C-4 Alkylbenzene isomers	600	N.D.			
1-Methylnaphthalene	600	N.D.			
Dimethylnaphthalene isomers	600	N.D.			
Trimethylnaphthalene isomers	600	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	42%	Phenol-D6 . . . . .	49%	Nitrobenzene-D5 . . . . .	14%
2-Fluorobiphenyl . . . . .	38%	2,3,6-Tribromophenol . . . . .	68%	4-Terphenyl-D14 . . . . .	106%

Notes: Surrogate recovery for nitrobenzene-D5 below control range.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

 Department of Environmental Conservation Laboratory  
 Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

 Lab Id: 5409 Report To: M. YOUNG  
 Location: H.I. SS-3

 Phone: 241-3888 Date Collected: 9/30/93  
 Program: 21 6255 Chain of Custody? Yes

Notes:

 Date Analyzed: 10/08/93 Over hold? No  
 Sample wt.: 10.4 g

 Date extracted: 10/05/93  
 Percent moisture: 8.8

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	500	N.D.				
Aniline	500	N.D.				
Phenol	500	N.D.		2	Y	60
Bis(2-chloroethyl)ether	500	N.D.				
2-Chlorophenol	1000	N.D.		8	Y	60
1,3-Dichlorobenzene	500	N.D.				
1,4-Dichlorobenzene	500	N.D.		59	Y	19
1,2-Dichlorobenzene	500	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	500	N.D.				
Bis(2-chloroisopropyl)ether	500	N.D.				
Hexachloroethane	500	N.D.				
4-Methylphenol	500	N.D.				
N-Nitroso-di-n-propylamine	500	N.D.		4	Y	76
Nitrobenzene	500	N.D.				
Isophorone	500	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	500	N.D.				
Bis(2-chloroethoxy)methane	500	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	500	N.D.		24	Y	54
Naphthalene	500	<500				
Benzoic acid	5000	N.D.				
4-Chloroaniline	500	N.D.				
Hexachlorobutadiene	500	N.D.				
4-Chloro-3-methylphenol	1000	N.D.		4	Y	69
2-Methylnaphthalene	500	N.D.				
Hexachlorocyclopentadiene	500	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	500	N.D.				
2-Nitroaniline	2000	N.D.				
Acenaphthylene	500	N.D.				
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	500	N.D.		2	Y	84
3-Nitroaniline	5000	N.D.				
2,4-Dinitrophenol	5000	N.D.				
Dibenzofuran	500	N.D.				
2,4-Dinitrotoluene	1000	N.D.		3	Y	87
4-Nitrophenol	5000	N.D.		16	Y	136
Fluorene	500	N.D.				
4-Chlorophenyl phenyl ether	500	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	5000	N.D.				
4,6-Dinitro-2-methylphenol	5000	N.D.				
N-Nitrosodiphenylamine	500	N.D.				
Azobenzene	500	N.D.				
4-Bromophenyl phenyl ether	500	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

Lab Id: 5409 Report To: M. YOUNG  
Location: H.I. SS-3

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.4 g

Date extracted: 10/05/93  
Percent moisture: 8.8

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	500	N.D.				
Pentachlorophenol	2000	N.D.		4	Y	81
Phenanthrene	500	N.D.				
Anthracene	500	N.D.				
Di-n-butylphthalate	1000	N.D.				
Fluoranthene	500	N.D.				
Pyrene	500	N.D.		7	Y	109
Butyl benzyl phthalate	1000	N.D.				
Benzo[a]anthracene	500	N.D.				
Chrysene	500	N.D.				
3,3'-Dichlorobenzidine	5000	N.D.				
Bis(2-ethylhexyl)phthalate	1000	N.D.				
Benzo[b]fluoranthene	500	N.D.				
Benzo[k]fluoranthene	500	N.D.				
Di-n-octylphthalate	500	N.D.				
Benzo[a]pyrene	500	N.D.				
Indeno[1,2,3,cd]pyrene	500	N.D.				
Dibenz[a,h]anthracene	500	N.D.				
Benzo[g,h,i]perylene	500	N.D.				
C-3 Alkylbenzene isomers	500	N.D.				
C-4 Alkylbenzene isomers	500	N.D.				
1-Methylnaphthalene	500	N.D.				
Dimethylnaphthalene isomers	500	N.D.				
Trimethylnaphthalene isomers	500	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	42%	Phenol-D6 . . . . .	50%	Nitrobenzene-D5 . . . . .	47%
2-Fluorobiphenyl . . . . .	64%	2,3,6-Tribromophenol . . . . .	67%	4-Terphenyl-D14 . . . . .	105%

Notes: GC/MS also detected traces of unknowns.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

 Department of Environmental Conservation Laboratory  
 Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

 Lab Id: 5410 Report To: M. YOUNG  
 Location: H.I SS-4

 Phone: 241-3888 Date Collected: 9/30/93  
 Program: 21 6255 Chain of Custody? Yes

Notes:

 Date Analyzed: 10/08/93 Over hold? No  
 Sample wt.: 10.4 g

 Date extracted: 10/05/93  
 Percent moisture: 18.1

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	600	N.D.				
Aniline	600	N.D.				
Phenol	600	N.D.				
Bis(2-chloroethyl)ether	600	N.D.				
2-Chlorophenol	1000	N.D.				
1,3-Dichlorobenzene	600	N.D.				
1,4-Dichlorobenzene	600	N.D.				
1,2-Dichlorobenzene	600	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	600	N.D.				
Bis(2-chloroisopropyl)ether	600	N.D.				
Hexachloroethane	600	N.D.				
4-Methylphenol	600	N.D.				
N-Nitroso-di-n-propylamine	600	N.D.				
Nitrobenzene	600	N.D.				
Isophorone	600	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	600	N.D.				
Bis(2-chloroethoxy)methane	600	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	600	N.D.				
Naphthalene	600	N.D.				
Benzoic acid	6000	N.D.				
4-Chloroaniline	600	N.D.				
Hexachlorobutadiene	600	N.D.				
4-Chloro-3-methylphenol	1000	N.D.				
2-Methylnaphthalene	600	N.D.				
Hexachlorocyclopentadiene	600	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	600	N.D.				
2-Nitroaniline	2000	N.D.				
Acenaphthylene	600	N.D.				
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	600	N.D.				
3-Nitroaniline	6000	N.D.				
2,4-Dinitrophenol	6000	N.D.				
Dibenzofuran	600	N.D.				
2,4-Dinitrotoluene	1000	N.D.				
4-Nitrophenol	6000	N.D.				
Fluorene	600	N.D.				
4-Chlorophenyl phenyl ether	600	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	6000	N.D.				
4,6-Dinitro-2-methylphenol	6000	N.D.				
N-Nitrosodiphenylamine	600	N.D.				
Azobenzene	600	N.D.				
4-Bromophenyl phenyl ether	600	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

440 3 1993

GJD

Lab Id: 5410 Report To: M. YOUNG  
Location: H.I SS-4

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.4 g

Date extracted: 10/05/93  
Percent moisture: 18.1

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	600	N.D.			
Pentachlorophenol	2000	N.D.			
Phenanthrene	600	N.D.			
Anthracene	600	N.D.			
Di-n-butylphthalate	1000	N.D.			
Fluoranthene	600	N.D.			
Pyrene	600	N.D.			
Butyl benzyl phthalate	1000	N.D.			
Benzo[a]anthracene	600	N.D.			
Chrysene	600	N.D.			
3,3'-Dichlorobenzidine	6000	N.D.			
Bis(2-ethylhexyl)phthalate	1000	N.D.			
Benzo[b]fluoranthene	600	N.D.			
Benzo[k]fluoranthene	600	N.D.			
Di-n-octylphthalate	600	N.D.			
Benzo[a]pyrene	600	N.D.			
Indeno[1,2,3,cd]pyrene	600	N.D.			
Dibenz[a,h]anthracene	600	N.D.			
Benzo[g,h,i]perylene	600	N.D.			
C-3 Alkylbenzene isomers	600	N.D.			
C-4 Alkylbenzene isomers	600	N.D.			
1-Methylnaphthalene	600	N.D.			
Dimethylnaphthalene isomers	600	N.D.			
Trimethylnaphthalene isomers	600	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	42%	Phenol-D6 . . . . .	47%	Nitrobenzene-D5 . . . . .	18%
2-Fluorobiphenyl . . . . .	44%	2,3,6-Tribromophenol . . . . .	62%	4-Terphenyl-D14 . . . . .	129%

Notes: Surrogate recovery for nitrobenzene-D5 below control range.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5411 Report To: M. YOUNG  
Location: H.I. SS-5Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.2 gDate extracted: 10/05/93  
Percent moisture: 16.1

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	600	N.D.				
Aniline	600	N.D.				
Phenol	600	N.D.				
Bis(2-chloroethyl)ether	600	N.D.				
2-Chlorophenol	1000	N.D.				
1,3-Dichlorobenzene	600	N.D.				
1,4-Dichlorobenzene	600	N.D.				
1,2-Dichlorobenzene	600	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	600	N.D.				
Bis(2-chloroisopropyl)ether	600	N.D.				
Hexachloroethane	600	N.D.				
4-Methylphenol	600	N.D.				
N-Nitroso-di-n-propylamine	600	N.D.				
Nitrobenzene	600	N.D.				
Isophorone	600	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	600	N.D.				
Bis(2-chloroethoxy)methane	600	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	600	N.D.				
Naphthalene	600	N.D.				
Benzoic acid	6000	N.D.				
4-Chloroaniline	600	N.D.				
Hexachlorobutadiene	600	N.D.				
4-Chloro-3-methylphenol	1000	N.D.				
2-Methylnaphthalene	600	N.D.				
Hexachlorocyclopentadiene	600	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	600	N.D.				
2-Nitroaniline	2000	N.D.				
Acenaphthylene	600	N.D.				
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	600	N.D.				
3-Nitroaniline	6000	N.D.				
2,4-Dinitrophenol	6000	N.D.				
Dibenzofuran	600	N.D.				
2,4-Dinitrotoluene	1000	N.D.				
4-Nitrophenol	6000	N.D.				
Fluorene	600	N.D.				
4-Chlorophenyl phenyl ether	600	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	6000	N.D.				
4,6-Dinitro-2-methylphenol	6000	N.D.				
N-Nitrosodiphenylamine	600	N.D.				
Azobenzene	600	N.D.				
4-Bromophenyl phenyl ether	600	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5411 Report To: M. YOUNG  
Location: H.I. SS-5

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.2 g

Date extracted: 10/05/93  
Percent moisture: 16.1

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	600	N.D.			
Pentachlorophenol	2000	N.D.			
Phenanthrene	600	N.D.			
Anthracene	600	N.D.			
Di-n-butylphthalate	1000	N.D.			
Fluoranthene	600	N.D.			
Pyrene	600	N.D.			
Butyl benzyl phthalate	1000	N.D.			
Benzo[a]anthracene	600	N.D.			
Chrysene	600	N.D.			
3,3'-Dichlorobenzidine	6000	N.D.			
Bis(2-ethylhexyl)phthalate	1000	N.D.			
Benzo[b]fluoranthene	600	N.D.			
Benzo[k]fluoranthene	600	N.D.			
Di-n-octylphthalate	600	N.D.			
Benzo[a]pyrene	600	N.D.			
Indeno[1,2,3,cd]pyrene	600	N.D.			
Dibenz[a,h]anthracene	600	N.D.			
Benzo[g,h,i]perylene	600	N.D.			
C-3 Alkylbenzene isomers	600	N.D.			
C-4 Alkylbenzene isomers	600	N.D.			
1-Methylnaphthalene	600	N.D.			
Dimethylnaphthalene isomers	600	N.D.			
Trimethylnaphthalene isomers	600	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	41%	Phenol-D6 . . . . .	43%	Nitrobenzene-D5 . . . . .	47%
2-Fluorobiphenyl . . . . .	44%	2,3,6-Tribromophenol . . . . .	65%	4-Terphenyl-D14 . . . . .	107%

Notes:

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

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Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5412 Report To: M. YOUNG  
Location: H.I SS-6

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.5 g

Date extracted: 10/06/93  
Percent moisture: 18.5

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	600	N.D.				
Aniline	600	N.D.				
Phenol	600	N.D.				
Bis(2-chloroethyl)ether	600	N.D.				
2-Chlorophenol	1000	N.D.				
1,3-Dichlorobenzene	600	N.D.				
1,4-Dichlorobenzene	600	N.D.				
1,2-Dichlorobenzene	600	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	600	N.D.				
Bis(2-chloroisopropyl)ether	600	N.D.				
Hexachloroethane	600	N.D.				
4-Methylphenol	600	N.D.				
N-Nitroso-di-n-propylamine	600	N.D.				
Nitrobenzene	600	N.D.				
Isophorone	600	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	600	N.D.				
Bis(2-chloroethoxy)methane	600	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	600	N.D.				
Naphthalene	600	N.D.				
Benzoic acid	6000	N.D.				
4-Chloroaniline	600	N.D.				
Hexachlorobutadiene	600	N.D.				
4-Chloro-3-methylphenol	1000	N.D.				
2-Methylnaphthalene	600	N.D.				
Hexachlorocyclopentadiene	600	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	600	N.D.				
2-Nitroaniline	2000	N.D.				
Acenaphthylene	600	N.D.				
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	600	N.D.				
3-Nitroaniline	6000	N.D.				
2,4-Dinitrophenol	6000	N.D.				
Dibenzofuran	600	N.D.				
2,4-Dinitrotoluene	1000	N.D.				
4-Nitrophenol	6000	N.D.				
Fluorene	600	N.D.				
4-Chlorophenyl phenyl ether	500	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	6000	N.D.				
4,6-Dinitro-2-methylphenol	6000	N.D.				
N-Nitrosodiphenylamine	600	N.D.				
Azobenzene	600	N.D.				
4-Bromophenyl phenyl ether	600	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

DEC 3 1993

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5412 Report To: M. YOUNG  
Location: H.I SS-6

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/08/93 Over hold? No  
Sample wt.: 10.5 g

Date extracted: 10/06/93  
Percent moisture: 18.5

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
Hexachlorobenzene	600	N.D.				
Pentachlorophenol	2000	N.D.				
Phenanthrene	600	N.D.				
Anthracene	600	N.D.				
Di-n-butylphthalate	1000	N.D.				
Fluoranthene	600	N.D.				
Pyrene	600	N.D.				
Butyl benzyl phthalate	1000	N.D.				
Benzo[a]anthracene	600	N.D.				
Chrysene	600	N.D.				
3,3'-Dichlorobenzidine	6000	N.D.				
Bis(2-ethylhexyl)phthalate	1000	N.D.				
Benzo[b]fluoranthene	600	N.D.				
Benzo[k]fluoranthene	600	N.D.				
Di-n-octylphthalate	600	N.D.				
Benzo[a]pyrene	600	N.D.				
Indeno[1,2,3,cd]pyrene	600	N.D.				
Dibenz[a,h]anthracene	600	N.D.				
Benzo[g,h,i]perylene	600	N.D.				
C-3 Alkylbenzene isomers	600	N.D.				
C-4 Alkylbenzene isomers	600	N.D.				
1-Methylnaphthalene	600	N.D.				
Dimethylnaphthalene isomers	600	N.D.				
Trimethylnaphthalene isomers	600	N.D.				

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	43%	Phenol-D6 . . . . .	50%	Nitrobenzene-D5 . . . . .	17%
2-Fluorobiphenyl . . . . .	34%	2,3,6-Tribromophenol . . . . .	62%	4-Terphenyl-D14 . . . . .	135%

Notes: Nitrobenzene-D5 recovery below control range.

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

GJD

Lab Id: 5413 Report To: M. YOUNG  
Location: H.I. SS-7

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/09/93 Over hold? No  
Sample wt.: 10.1 g

Date extracted: 10/06/93  
Percent moisture: 14.3

Parameter	Units are ug/kg dw		Remark Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
	PQL	Result				
N-Nitrosodimethylamine	600	N.D.				
Aniline	600	N.D.				
Phenol	600	N.D.				
Bis(2-chloroethyl)ether	600	N.D.				
2-Chlorophenol	1000	N.D.				
1,3-Dichlorobenzene	600	N.D.				
1,4-Dichlorobenzene	600	N.D.				
1,2-Dichlorobenzene	600	N.D.				
Benzylalcohol	1000	N.D.				
2-Methylphenol	600	N.D.				
Bis(2-chloroisopropyl)ether	600	N.D.				
Hexachloroethane	600	N.D.				
4-Methylphenol	600	N.D.				
N-Nitroso-di-n-propylamine	600	N.D.				
Nitrobenzene	600	N.D.				
Isophorone	600	N.D.				
2-Nitrophenol	1000	N.D.				
2,4-Dimethylphenol	600	N.D.				
Bis(2-chloroethoxy)methane	600	N.D.				
2,4-Dichlorophenol	1000	N.D.				
1,2,4-Trichlorobenzene	600	N.D.				
Naphthalene	600	N.D.				
Benzoic acid	6000	N.D.				
4-Chloroaniline	600	N.D.				
Hexachlorobutadiene	600	N.D.				
4-Chloro-3-methylphenol	1000	N.D.				
2-Methylnaphthalene	600	N.D.				
Hexachlorocyclopentadiene	600	N.D.				
2,4,6-Trichlorophenol	1000	N.D.				
2,4,5-Trichlorophenol	1000	N.D.				
2-Chloronaphthalene	600	N.D.				
2-Nitroaniline	2000	N.D.				
Acenaphthylene	600	N.D.				
Dimethylphthalate	1000	N.D.				
2,6-Dinitrotoluene	1000	N.D.				
Acenaphthene	600	N.D.				
3-Nitroaniline	6000	N.D.				
2,4-Dinitrophenol	6000	N.D.				
Dibenzofuran	600	N.D.				
2,4-Dinitrotoluene	1000	N.D.				
4-Nitrophenol	6000	N.D.				
Fluorene	600	N.D.				
4-Chlorophenyl phenyl ether	600	N.D.				
Diethylphthalate	1000	N.D.				
4-Nitroaniline	6000	N.D.				
4,6-Dinitro-2-methylphenol	6000	N.D.				
N-Nitrosodiphenylamine	600	N.D.				
Azobenzene	600	N.D.				
4-Bromophenyl phenyl ether	600	N.D.				

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

12/02/93

Department of Environmental Conservation Laboratory  
Method 8270 - Semivolatile Organics in Solids

DEC 3 1993

GJD

Lab Id: 5413 Report To: M. YOUNG  
Location: H.I. SS-7

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Date Analyzed: 10/09/93 Over hold? No  
Sample wt.: 10.1 g

Date extracted: 10/06/93  
Percent moisture: 14.3

Parameter	Units are ug/kg dw PQL	Remark Result Code	Rel % Diff.	Spiked Dups ?	Percent Recovery
Hexachlorobenzene	600	N.D.			
Pentachlorophenol	2000	N.D.			
Phenanthrene	600	N.D.			
Anthracene	600	N.D.			
Di-n-butylphthalate	1000	N.D.			
Fluoranthene	600	N.D.			
Pyrene	600	N.D.			
Butyl benzyl phthalate	1000	N.D.			
Benzo[a]anthracene	600	N.D.			
Chrysene	600	N.D.			
3,3'-Dichlorobenzidine	6000	N.D.			
Bis(2-ethylhexyl)phthalate	1000	N.D.			
Benzo[b]fluoranthene	600	N.D.			
Benzo[k]fluoranthene	600	N.D.			
Di-n-octylphthalate	600	N.D.			
Benzo[a]pyrene	600	N.D.			
Indeno[1,2,3,cd]pyrene	600	N.D.			
Dibenz[a,h]anthracene	600	N.D.			
Benzo[g,h,i]perylene	600	N.D.			
C-3 Alkylbenzene isomers	600	N.D.			
C-4 Alkylbenzene isomers	600	N.D.			
1-Methylnaphthalene	600	N.D.			
Dimethylnaphthalene isomers	600	N.D.			
Trimethylnaphthalene isomers	600	N.D.			

Surrogate Percent Recoveries (S=Surrogate recovery out of range)

Fluorophenol . . . . .	39%	Phenol-D6 . . . . .	44%	Nitrobenzene-D5 . . . . .	52%
2-Fluorobiphenyl . . . . .	53%	2,3,6-Tribromophenol . . . . .	54%	4-Terphenyl-D14 . . . . .	118%

Notes:

Remarks: E=Estimated Value J=Value may be in Error O=Value outside Standard Curve

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12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5407 Report To: M. YOUNG  
Location: H.I. SS-1

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name	Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Solid	<	2.50 mg/kg	dw				
Cadmium - Solid	<	5.00 mg/kg	dw				
Copper - Solid	<	25.0 mg/kg	dw				
Lead - Solid	<	25.0 mg/kg	dw				
Mercury - Solid	<	.100 mg/kg	dw	Yes			
Nickel - Solid	<	25.0 mg/kg	dw				
Selenium - Solid	<	2.50 mg/kg	dw				
Zinc - Solid		51.0 mg/kg	dw				8

Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      N = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival

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12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5408 Report To: M. YOUNG  
Location: H.I SS-2

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Recovery Dups ?	Recovery Percent
Arsenic - Solid	<	2.50	mg/kg dw					
Cadmium - Solid	<	5.00	mg/kg dw					
Copper - Solid	<	25.0	mg/kg dw					
Lead - Solid	<	25.0	mg/kg dw					
Mercury - Solid	<	.100	mg/kg dw		Yes			
Nickel - Solid	<	25.0	mg/kg dw					
Selenium - Solid	<	2.50	mg/kg dw					
Zinc - Solid	<	25.0	mg/kg dw					

Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      N = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival

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Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5409 Report To: M. YOUNG  
Location: H.I. SS-3

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Solid	<	2.50	mg/kg dw			8	Y	69
Cadmium - Solid	<	5.00	mg/kg dw					
Copper - Solid	<	25.0	mg/kg dw					
Lead - Solid	<	25.0	mg/kg dw					
Mercury - Solid	<	.100	mg/kg dw		Yes	6	Y	103
Nickel - Solid	<	25.0	mg/kg dw					
Selenium - Solid	<	2.50	mg/kg dw			12		61
Zinc - Solid		91.0	mg/kg dw					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5410 Report To: M. YOUNG  
Location: H.I SS-4

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Solid	<	2.50	mg/kg	dw				
Cadmium - Solid	<	5.00	mg/kg	dw				
Copper - Solid	<	25.0	mg/kg	dw				
Lead - Solid	<	25.0	mg/kg	dw				
Mercury - Solid	<	.100	mg/kg	dw	Yes			
Nickel - Solid	<	25.0	mg/kg	dw				
Selenium - Solid	<	2.50	mg/kg	dw				
Zinc - Solid	<	25.0	mg/kg	dw				

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

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Department of Environmental Conservation Laboratory  
Analytical Results

GJD

Lab Id: 5411 Report To: M. YOUNG  
Location: H.I. SS-5

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Recovery Dups ?	Recovery Percent
Arsenic - Solid	<	2.50	mg/kg dw					
Cadmium - Solid	<	5.00	mg/kg dw					
Copper - Solid	<	25.0	mg/kg dw					
Lead - Solid	<	25.0	mg/kg dw					
Mercury - Solid	<	.100	mg/kg dw		Yes			
Nickel - Solid	<	25.0	mg/kg dw					
Selenium - Solid	<	2.50	mg/kg dw					
Zinc - Solid	<	25.0	mg/kg dw					

Remarks: E = Estimated Value I = Chemical Interference J = Value may be in Error N = Sample not Processed  
P = Present, not Quantitated Q = Insufficient Quantity R = Results not Reported W = Sample Warm on Arrival

12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

DEC 3 1993

GJD

Lab Id: 5412 Report To: M. YOUNG  
Location: H.I SS-6

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Recovery Dups ?	Recovery Percent
Arsenic - Solid		6.00	mg/kg dw					
Cadmium - Solid	<	5.00	mg/kg dw					
Copper - Solid	<	25.0	mg/kg dw					
Lead - Solid	<	25.0	mg/kg dw					
Mercury - Solid	<	.100	mg/kg dw		Yes			
Nickel - Solid	<	25.0	mg/kg dw					
Selenium - Solid	<	2.50	mg/kg dw					
Zinc - Solid		42.0	mg/kg dw					

Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      N = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival

12/02/93

Department of Environmental Conservation Laboratory  
Analytical Results

DEC 5 1993

GJD

Lab Id: 5413 Report To: M. YOUNG  
Location: H.I. SS-7

Phone: 241-3888 Date Collected: 9/30/93  
Program: 21 6255 Chain of Custody? Yes

Notes:

Test Name		Result	Units	Remark Code	Over Hold?	Rel. % Diff.	Spiked Dups ?	Recovery Percent
Arsenic - Solid	<	2.50	mg/kg dw					
Cadmium - Solid	<	5.00	mg/kg dw					
Copper - Solid	<	25.0	mg/kg dw					
Lead - Solid	<	25.0	mg/kg dw					
Mercury - Solid	<	.100	mg/kg dw		Yes			
Nickel - Solid	<	25.0	mg/kg dw					
Selenium - Solid	<	2.50	mg/kg dw					
Zinc - Solid		43.0	mg/kg dw				4	

Remarks: E = Estimated Value      I = Chemical Interference      J = Value may be in Error      N = Sample not Processed  
P = Present, not Quantitated      Q = Insufficient Quantity      R = Results not Reported      W = Sample Warm on Arrival