

Superfund Record of Decision:

Helen Kramer, NJ

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SUPERFUND RECORD OF DECIS	ION	September 2	7, 1985	
Helen Kramer Landfill, NJ		6. PERFORMING O	RGANIZATION CODE	
7. AUTHOR(S)		S. PERFORMING O	8. PERFORMING ORGANIZATION REPORT NO.	
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		11. CONTRACY/GR	ANT NO.	
12. SPONSORING AGENCY NAME AND	ADDRESS	13. TYPE OF REPO	RT AND PERIOD COVERED	
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Record of Decision Helen Kramer Landfill, NJ			<i>:</i> ·	
Contaminated Media: air, o	gw, soil, sw,			
Key contaminants: arsenic	_			
organics, phenols, tolu	ene 			
18. DISTRIBUTION STATEMENT		19. SECURITY CLASS (This Report)	21. NO. OF PAGES	
		None	120	
•		20. SECURITY CLASS (This page) None	22. PRICE	

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16. ABSTRACT

Include a brief (200 words or less) factual summary of the most significant information contained in the report. It the report contains a significant bibliography or literature survey, mention it here.

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(a) DESCRIPTORS - Select from the Thesaurus of Engineering and Scientific Terms the proper authorized terms that identify the major concept of the research and are sufficiently specific and precise to be used as index entries for cataloging.

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The cost-effective remedial actions selected for this site include: construction of a ground water leachate collection trench, a clay cap, upgradient slurry wall, active gas collection and treatment system, and a security fence; dewatering, excavation, and filling of the leachate ponds and lagoons; implementation of surface water controls; a monitoring program; and collection and treatment of ground water/leachate from the trench (treatment preference is pretreatment and discharge to the POTW). The estimated capital cost for this remedy with pretreatment of the ground water/leachate is \$36,478,000 and with complete onsite treatment is \$38,089,000. O&M costs vary over the 30-year life of the remedy. First year O&M costs are projected to be \$1,047,900 for pretreatment and \$792,100 for complete onsite treatment.

RECORD OF DECISION REMEDIAL ALTERNATIVE SELECTION

Site

Helen Kramer Landfill, Mantua Township, New Jersey

Documents Reviewed

I am basing my decision on the following documents describing the analysis of cost-effectiveness of Remedial Alternatives for the Helen Kramer Landfill site:

- Remedial Investigation Report and Feasibility Study of Alternatives, Helen Kramer Landfill, R.E. Wright Associates, July 1985
- Staff summaries and recommendations for remedial alternative selection
- .- Responsiveness Summary for the Helen Kramer site

Description of Selected Remedy

- Construction of a groundwater/leachate collection trench
- Construction of a clay cap over the site
- Construction of an upgradient slurry wall
- Construction of an active gas collection and treatment system
- Dewatering, excavation, and filling of the leachate ponds and lagoons
- Construction of a security fence surrounding the site and work areas
- Implementation of surface water controls which are necessary to properly construct or implement and ensure the reliability of the other remedial components
- Implementation of a monitoring program to assess the effectiveness and reliability of the remedial action

- Collection and treatment of groundwater/leachate from the trench. The treatment preference for collected leachate is pretreatment and discharge to the POTW. Implementation is pending approval of the State of New Jersey and the local POTW. If such approval is not provided, complete treatment on-site will be implemented followed by discharge to local surface waters.
- Operation & Maintenance as required to ensure the continued effectiveness of the remedy.

Declarations

Consistent with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), and the National Oil and Hazardous Substances Contingency Plan (NCP), 40 CPR Part 300, and pursuant to RPA Delegation Manual Order 14-5, I have determined that the remedy described above is the cost-effective remedial action alternative for the Helen Kramer Landfill site.

It is hereby determined that implementation of this remedial action is the lowest cost alternative that is technologically feasible and reliable, and which effectively mitigates and minimizes damages to and provides adequate protection of public health, welfare and the environment. It is also hereby determined that the selected remedy is appropriate when balanced against the availability of Trust Fund monies for the attacks.

The State of New Jersey has been consulted and agrees with the selected remedy.

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Date

Christopher J. Daggett Regional Administrator

Helen Kramer Landfill Site Summary of Remedial Alternative Selection

SITE LOCATION AND DESCRIPTION

The Helen Kramer Landfill is located in Mantua Township, Gloucester County, New Jersey, approximately five miles south of Woodbury, New Jersey. The approximate latitude and longitude of the site are 39° 36' 45" north and 75° 12' 15" west, respectively (see Figure 1-1). The site is bounded on the north by Jessups Mill Road, the east by Edwards Run, the south by Boody Mill Road, and the west by Leave Road. The site encompasses a 66-acre refuse area and an 11-acre stressed area between the refuse and Edwards Run.

Centre City, the nearest residential community, is 1,200 feet east of the site. The Town of Mantua is 1.4 miles northeast of the site.

The landfill is dominated by a major north-south ridge approximately 1,500 feet in length with greater than 100-foot relief (see Figure 1-2). In the southern portion of the site, the ridge turns to the southeast and maintains an elevation of 80 to 90 feet above Edwards Run for a distance of about 600 feet. The ridge is characterized by randomly placed, uncompacted, and uncovered refuse, with numerous longitudinal settlement cracks which vent methane and steam.

The western side of the landfill is moderately sloped with surface grades averaging less than 5 percent and rarely exceeding 10 percent. Leave Road is an access road which parallels the western boundary of the refuse zone.

The western boundary of the site is formed by a row of trees and brush and an open trench, approximately 2 feet deep, constructed to "cut-off" gas migration.

The northern boundary of the landfill is the Kramer homestead and the north ravine. The north ravine contains two converging rivulets which emerge from the fill at its toe and combine on the floodplain of Edwards Run. Dead vegetation, iron staining, a dark brown foamy leachate, and foul odor are present in this area.

Edwards Run is located immediately east of the landfill in a relatively low-lying and well entrenched stream valley. Edwards Run essentially forms the eastern boundary of the landfill. Steep escarpments form both sides of the stream valley. Edwards Run was primarily used for recreation and irrigation. Hidden Acres Township Park lies along Edwards Run about 4000 feet downstream of the site. Edwards Run flows into Mantua Creek 2.8 miles downstream of the site. Mantua Creek is a tributary to the Delaware River.

FIGURE 1-1

r. e. wright associates, inc.

south of the north ravine, deachate emanates from several points along the landfill's eastern slope. The soil in the area of these leachate discharges exhibits a greenish to dark brown discoloration. The vegetation in this area is stressed.

The gradient of the northeast facing slopes of the landfill in this area is about 20 to 30 percent and has an elevation change of 70 feet.

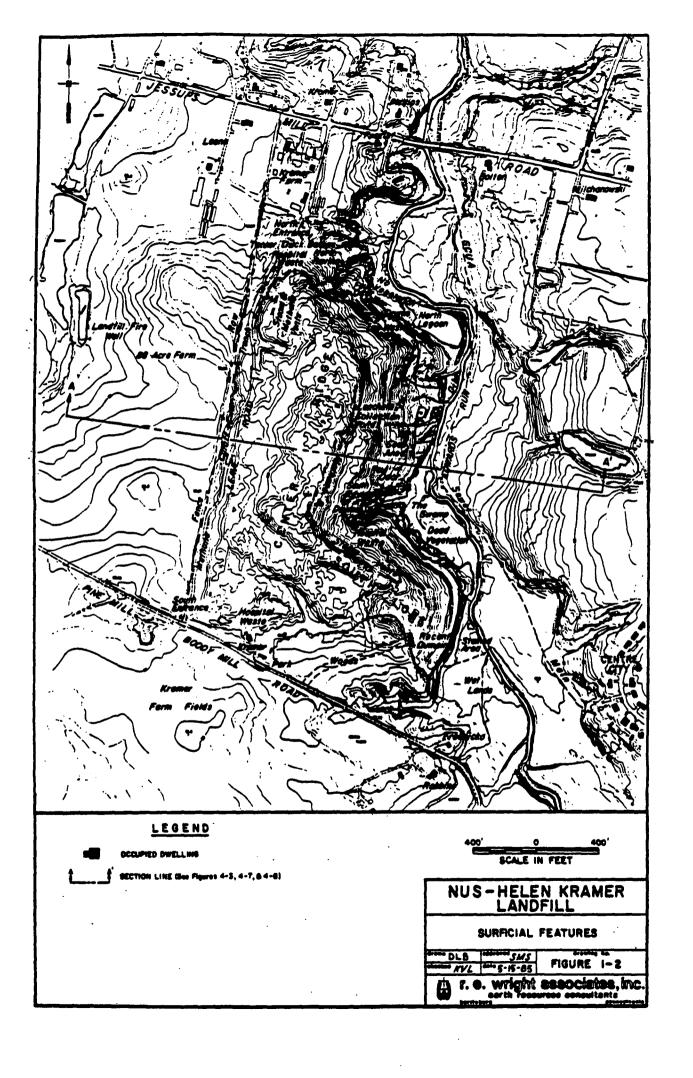
A two to three-acre pond called the "north lagoon" contains from one to two million gallons of water and is located in the northeast corner of the site. Leachate from the landfill accumulates in this pond and is ultimately discharged through the pond's north end and bottom into Edwards Run.

The eastern slope of the landfill is long and steep. A 15 to 20 percent grade produces elevation changes along the slope of up to 100 feet. Numerous leachate seeps appear at various elevations along the base of the slope. Flow in these seeps may be a function of elevation since lower seeps exhibit greater flows. A man-made dike across the base of the landfill extends along Edwards Run from the north lagoon to about midsite. This dike is contructed of sandy soil and has numerous breaches, through which leachate discharges to Edwards Run.

Two leachate collection ponds are located midway along the base of the eastern slope. These ponds were constructed in order to capture and recirculate leachate back onto the landfill. One pond is approximately two to three feet deep and is about 4,000 square feet in area. It is lined with a Hypalon membrane which is torn in numerous places. There is no apparent inlet to this pond from the site. South of the lined pond are numerous seeps which drain into an adjacent unlined pond of approximately 1,200 square feet in area. This smaller pond is formed behind the dike, but discharges to Edwards Run through a breach.

Numerous leachate seeps exist south of the leachate collection ponds along the edge of the fill for a distance of at least 500 feet. These seeps generally appear at elevation 30 feet mean sea level (msl) and drain into shallow gullies which flow across the sandy base of the eastern slope. These leachate flows generally discharge directly into a wetland to the east, although some of the flow re-percolates into the ground before entering the wetland.

The wetland (about three acres) is located east-southeast of the center of the landfill. It receives a large proportion of the leachate which migrates from the landfill. Vegetation is extremely stressed and the soil is stained by leachate. The wetland discharges primarily from its north end into Edwards Run approximately 200 feet south of the leachate collection ponds.



Further south along the eastern side is the south ravine. This feature is a topographic depression in the surface contour which intersects the center ridge at its bending point toward the south lobe. The south ravine exhibits steep natural sides sloped at greater than 50 percent. Prior to being landfilled, this gully was a major runoff swale. Today, flow persists in the ravine at typical discharge rates of 30 to 50 gallons per minute. Numerous leachate seeps enter the ravine from both sides. Leachate from the south ravine enters the wetland where it is combined with flows from other seeps. A few empty or crushed drums are in the south ravine, and buried drums are visible in the wall head of the ravine. The accessible drums were inspected and are empty. Much of the vegetation on these slopes is severely stressed.

The south lobe rises from the Edwards Run Valley very steeply with a natural slope of greater than 50 percent. The wetland forms the south lobe's northeastern boundary and Edwards Run skirts its southeast margin. Leachate seeps occur at the base of the slope and discharge directly into Edwards Run.

Off site to the southeast of the south lobe is a large wetland area. Some evidence of leachate staining was observed in this area along its border with the south lobe. However, the staining rapidly disappeared with distance from the landfill.

The southeastern border of the site is formed by a wooded area. Two dirt roads run through these woods, and recent refuse dumping has occurred at the ends of these access roads. Three house trailers (two occupied) are located south of the landfill off of Boody Mill Road. Boody Mill Road is an infrequently traveled dirt road which is essentially the southern border of the landfill, and is little used by anyone other than local residents.

SITE HISTORY

Waste Disposal and Enforcement

The Helen Kramer Landfill site was originally operated as a sand and gravel pit. The site became an operating landfill between 1963 and 1965, during which time landfilling occurred simultaneously with sand excavation. In 1963, large volumes of wastes were deposited just north of the south ravine. Ponds of standing liquid were then located around the north ravine. Between 1963 and 1965, the fill was extended into the south ravine, and the north ravine was filled and graded. Very little is known about Helen Kramer Landfill activities between 1965 and 1970.

In 1970, as a result of the enactment of the New Jersey Solid Waste Management Act, the site operator (Mr. Marvin Jonas) was issued a temporary 1-year registration by the NJDEP, and was given until July 1, 1971 to submit a sanitary landfill design required for permanent registration. Several months prior to the July 1, 1971 deadline, Mr. Jonas informed the NJDEP that operation of the landfill was the responsibility of Helen Kramer, owner of the property on which the landfill is located. The required landfill design was not submitted until July of 1973, and both it and subsequent revisions submitted in January and March of 1974 were determined to be incomplete by the NJDEP.

In October 1973, NJDEP inspections noted that trenches were being excavated and used for the disposal of chemical waste. A 20 by 6 foot area of chemical waste was noted, as was the disposal of septic waste into an active landfill face.

In January 1974, several inspections noted the presence of chemicals in a diked-off area and approximately 12 drums adjacent to these areas. Chemical waste disposal was evident in at least seven lagoons. Approximately 140 drums that may have contained scrap paint materials and other chemical wastes had been reportedly dumped into open trenches.

In April 1974, NJDEP personnel observed leachate discharging into Edwards Run from the landfill. Pursuant to this sighting, NJDEP issued a Departmental Order, a Notice of Prosecution, and Notice of Intent to Deny Renewal of Approved Registration for improper landfill operation and contamination of waters of the State. Also, in 1974, because of new regulatory authority, the NJDEP was able to specifically restrict the disposal of hazardous waste at the landfill. The NJDEP issued a stipulation against the landfill which limited it to the disposal of municipal refuse from households and commercial/institutional establishments, sewage sludge, septic tank wastes, leaves, tree stumps, and branches.

A revised engineering design was submitted in November of 1974 and was again found to be deficient by NJDEP.

A second Notice of Prosecution was issued in September 1976 notifying Helen Kramer that her registration for landfill operation would be revoked within 90 days if an acceptable engineering design was not submitted to NJDEP within 30 days of the notice. The requested design was submitted, but was again rejected by NJDEP in April of 1977. At that time, a Notice of Registration Revocation was issued, thereby informing the owner to cease operation of the landfill.

Hearings on the revocation of the landfill registration continued until early 1981. On March 3, 1981, a Gloucester County Court ordered the landfill to cease operation effective March 7, 1981. The premise for the court-ordered closure was that the landfill had exceeded its permitted elevations and capacity.

Throughout the period from 1974 to 1981 it was alleged by area residents that sporadic chemical dumping continued. NJDEP files and other reports indicate materials containing hazardous substances were also disposed of at the landfill during that period.

Previous Response and Investigation Activities

During the summer and fall of 1981, several fires broke out at the landfill. The NJDEP with the assistance of the local fire department took action and extinguished all fires by November 1981.

From 1974 to 1983, the Helen Kramer Landfill has been the subject of numerous investigations and studies by local health authorities, the NJDEP, EPA and its consultants, and by Wehran Engineering Corporation (consultants for Helen Kramer). However, all of these investigations and studies were limited in their scope.

The results of the previous studies have determined:

- The Mt. Laurel/Wenonah Aguifer flowed from west to east under the site.
- The Mt. Laurel/Wenonah was contaminated with organic and inorganic pollutants in the area between the landfill and Edwards Run. -
- No residential wells were found to be impacted by the landfill, except for one shallow well located within 20 feet of the refuse. This well was closed by the Gloucester County Health Department.
- Edwards Run was contaminated with organic and inorganic pollutants. Bioassay and Ames testing indicated Edwards Run was both toxic to the test species (bioassay) and mutagenic according to the ames test.
- Volatile organic compounds were found in the ambient air on and near the site. The concentrations did not indicate any imminent threat to nearby residents.

- Landfill gas, primarily methane, was detected migrating to the west in the unsaturated zone of the soil. No residential dwellings were found to be impacted.

ENFORCEMENT

In June of 1981 and January of 1982, EPA sent out Information Request letters pursuant to Section 3007 of RCRA, 42 U.S.C. \$6927, to eleven (11) Potentially Responsible Parties (PRPs). The PRPs included the owner (Mrs. Helen Kramer), as well as several generators and transporters. The PRPs responded that either they did not send hazardous waste to the Helen Kramer Landfill or that waste was sent to the site without their (generators) knowledge and/or authorization.

Notice Letters to conduct the RI/FS were sent to eight (8) PRPs on March 16, 1983. No PRPs responded to the notice letters.

Notice Letters offering the opportunity to conduct the remedial design and implementation of the proposed remedial action were sent on September 6, 1985.

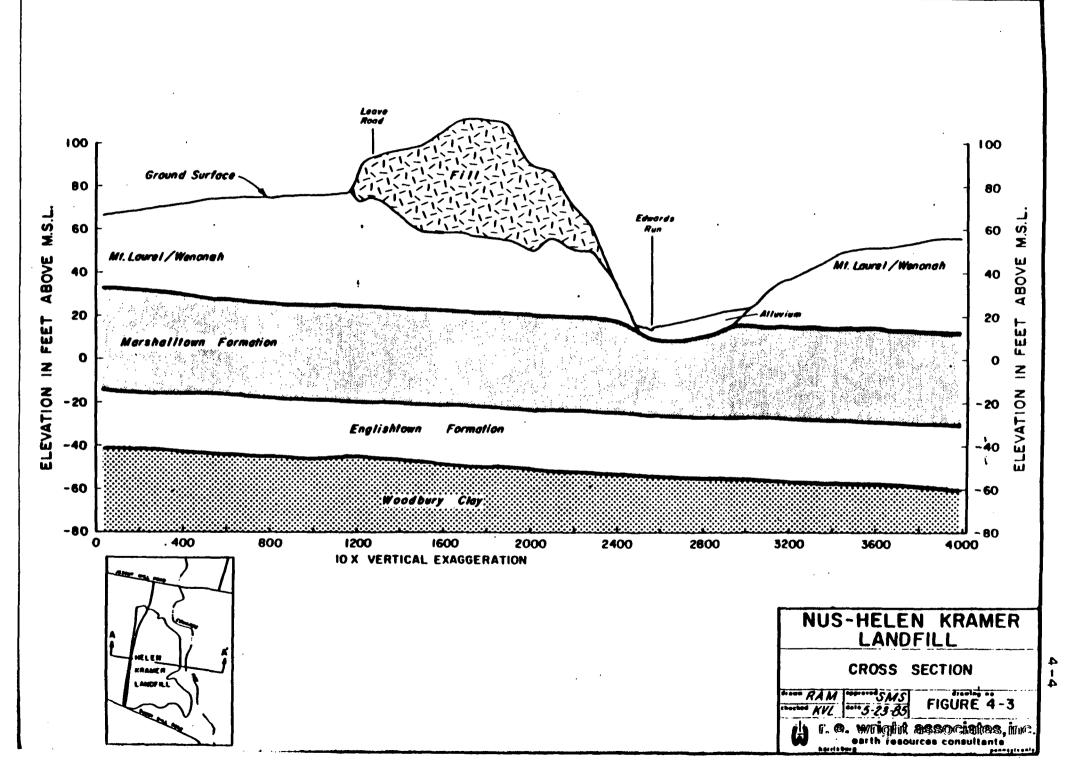
SITE GEOLOGY

Gloucester County, New Jersey, lies within the Coastal Plain physiographic province of the Eastern United States. The area is underlain by unconsolidated layers of sands and clays deposited in a relatively extensive horizontal sequence with a gentle southeastern dip.

The unconsolidated formations underlying the Kramer Landfill, from the surface down, are; Mount Laurel/Wenonah, Marshalltown, Englishtown, Woodbury, Merchantville, Magothy/Raritan. The Edwards Run stream valley also contains recently deposited alluvium (see Figure 4-1).

The Belen Tramer Landfill and adjacent areas are located within an outcrop of the Mount Laurel Sand and Wenomah Formation, which are mapped as a single undifferentiated geologic unit in Gloucester County due to their similar lithology (Hardt and Hilton, 1969). Hereafter, the Mount Laurel/Wenomah will be referred to as the Mount Laurel. The upper Mount Laurel Sand consists of light-gray to tan, medium to coarse-grained quartz sand with glauconite.

The Mount Laurel ranges in thickness from 0 to 55 feet in the immediate area of the site (see Figure 4-3). An ancient Edwards Run removed Mount Laurel Sand to form the valley in which the stream now resides. The quarrying and landfilling operations stripped away an unknown quantity of the Mount



NO.	in the second se	To the second se	No. of Parties
MOUNT LÄUREL UNDIFFERENTIATED — —		SAND, MEDIUM TO COARSE, GLAUCONITIC	
WENONAA		SAND, FINE TO MEDIUM, MICACEOUS	0.0-64.7
MARSHÄLLTOWN		SANDY SILT, AND FINE SAND TRACE CLAY, FOSSILIFEROUS, AND GLAUCONITIC	20.0- 59.0
ENGLISHTOWN		SAND, MEDIUM TO COARSE, SOME PEBBLES TRACE SILT, GLAUCONITE CLAY	14.0-29.5
WOODBURY		MICACEOUS SILTY CLAY, AND FINE SAND	400
MERCHANTVILLE		CLAY, GLAUCONITIC, SOME SANDY ZONES	120
MAGÖTÄY UNDIFFERENTIATED —		CLAY, DARK COLORED AND SAND, LIGHT COLORED (ALTERNATING)	مر مؤم
RAŘÍTÂN		CLAY AND SAND, VARIEGATED (ALTERNATING)	150 -500
—Unconformity —— Wissähickon (Subsürface)		BANDED MICACEOUS SCHIST OF GNEISS	5,000-8,000

SITE SPECIFIC STRATIGRAPHIC COLUMN
HELEN KRAMER LANDFILL, MANTUA TWP., NJ.

Laurel prior to disposal activities. The recent Edwards Run alluvium is as much as 20 feet thick and is deposited in the cut eroded through the Mount Laurel/Wenonah and partially into the top of the Marshalltown.

The Marshalltown Formation underlies the Mount Laurel, and is reported in the literature (Hardt and Hilton, 1969; Owens, 1969) to have a thickness of approximately 20 feet. A 20 to 55 foot thick unit was encountered in this investigation and termed Marshalltown. The Marshalltown in the study area is composed of medium to dark olive-gray fossiliferous and micaceous very fine silty sand and sandy to clayey silt. Six sub-units (members) of the Marshalltown were observed and correlated under the site. These units in pairs composed three distinct upward-coarsening sequences which varied from silty sand or sandy silt containing clay in the basal member to silty sand with traces of gravel in the top member. boring encountered an average total of 15 feet of strata containing clayey material in the Marshalltown. The Marshalltown Formation is interpreted as continuous under the entire site and serves as a leaky confining layer between the Mount Laurel and the underlying Englishtown Formations.

The Englishtown Formation is a fine to coarse-grained quartzose, sometimes massive cross-stratified sand unit with localized thin tongues of silt in the southeast portion of the study area. It is interpreted as being continuous under the site, ranges in thickness between 15 and 30 feet, and exhibits a moderate to high permeability.

The Englishtown Formation is underlain by the relatively impermeable Woodbury Clay and Merchantville Formations (combined thickness of approximately 120 feet) which create an effective barrier between the Englishtown and the Magothy and Raritan Formations. Due to this barrier the Magothy and Raritan Formations are not considered to be impacted by the site and therefore were not extensively studied.

The Remedial Investigation concentrated on the Mount Laurel and Englishtown Aquifers. The Mount Laurel Aquifer flows east under the landfill and discharges to Edwards Run. Since Edwards Run is a groundwater barrier to the Mount Laurel, the groundwater (Mount Laurel) on the east side of Edwards Run flows west and also discharges to the run. The coefficient of permeability ranges from 9x10-4 to 2x10-2 cm/sec. The groundwater flow in the Mount Laurel/Wenonah through the site area and discharging to Edwards Run is approximately 80,000 gallons per day (gpd) or 55 gallons per minute (gpm).

No monitoring wells were screened in the Marshalltown formation since it is not used as a water supply source. The coefficient of permeability tends to decrease with depth and ranges from 1.92 X10⁻⁴ to 1.33x10⁻⁷ cm/sec with values of 5X10⁻⁷ cm/sec or less in more than half of the samples.

Due to the piezometric heads in the Mount Laurel and the Englishtown, the vertical leakage from the Mount Laurel through the Marshalltown into the Englishtown under the site is estimated to be 10,000 gpd (7 gpm). In the area of Edwards Run, the piezometric head of the Englishtown is greater than that of the Mount Laurel or Edwards Run. Therefore, vertical leakage is up from the Englishtown through the Marshalltown into the Edwards Run stream valley at an estimated rate of 19,000 gpd (13 gpm) (see Figure 4-9).

The Englishtown Formation is a confined aquifer whose piezometric surface is approximately 10 ft. above the top of the Marshalltown. The Englishtown flows east under the landfill and beyond Edwards Run. Because the Englishtown is confined it appears unaffected by Edwards Run. The hydraulic gradient across the site area and Edwards Run appears constant and the coefficient of permeability ranges from 1.18 x 10-2 to 4.22x10-3 cm/sec. The flow under the site area is approximately 101,000 gpd (70 gpm).

REMEDIAL INVESTIGATION ACTIVITIES AND RESULTS

Remedial Investigation Activities

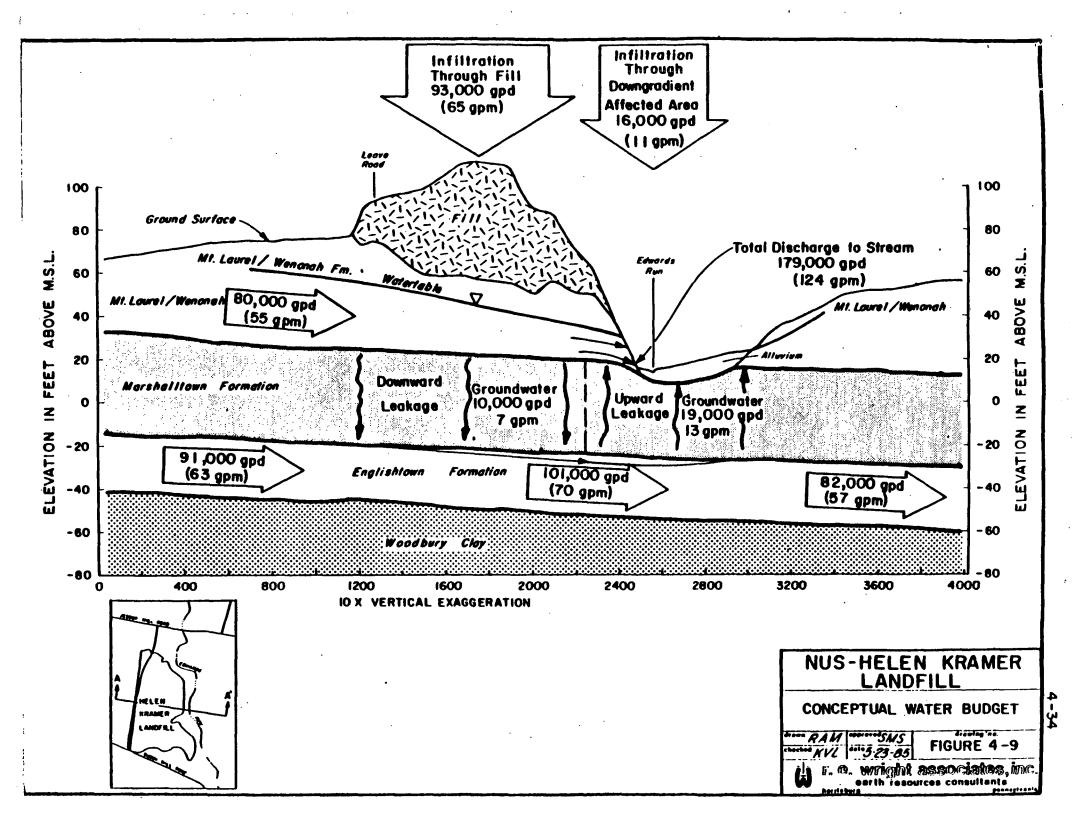
The Remedial Investigation activities pertinent to the Remedial Investigation and Feasibility Study (RI/FS) are summarized in:

Draft Remedial Investigation Report and Feasibility Study of Alternatives, Helen Kramer Landfill site, Mantua Township, Gloucester County, New Jersey, R.E. Wright Associates Inc., July 1985.

The major pravious remedial investigation activities in the above report include:

- Air sampling, October 31 November 2, 1983, by the NJDEP
- Bioassay and Ames testing. March and June 1981, and August 1984, USEPA Region II, Technical Support Branch

As part of the RI/FS, a Treatability Study to determine the effective treatment alternatives for the leachate has been conducted and is under review.



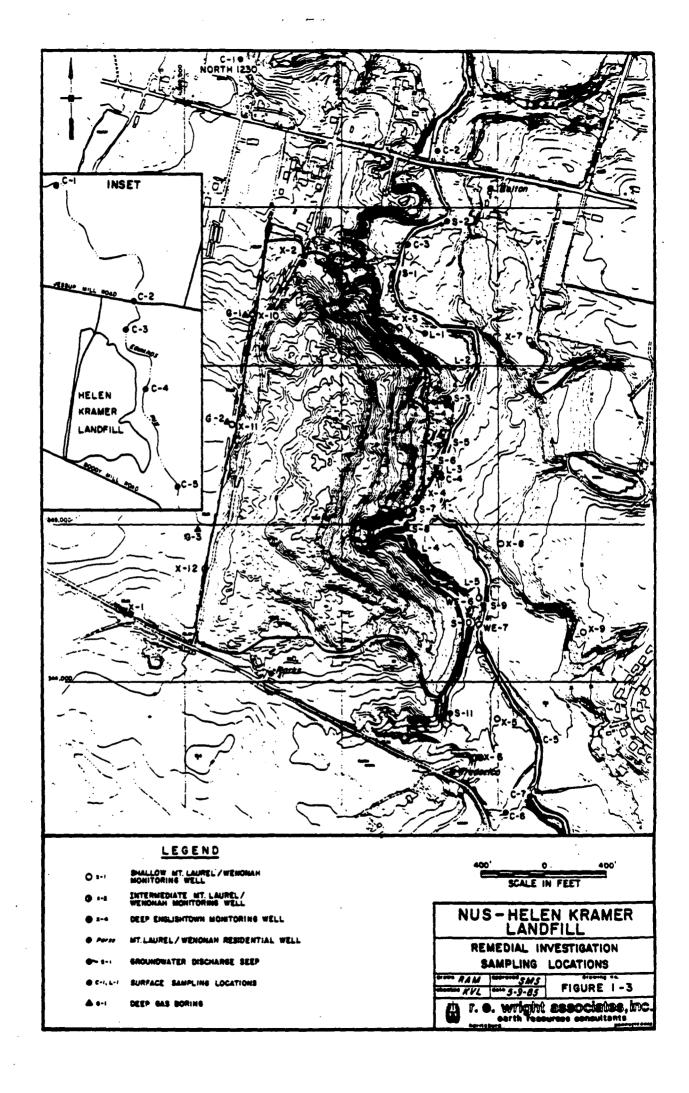
Results

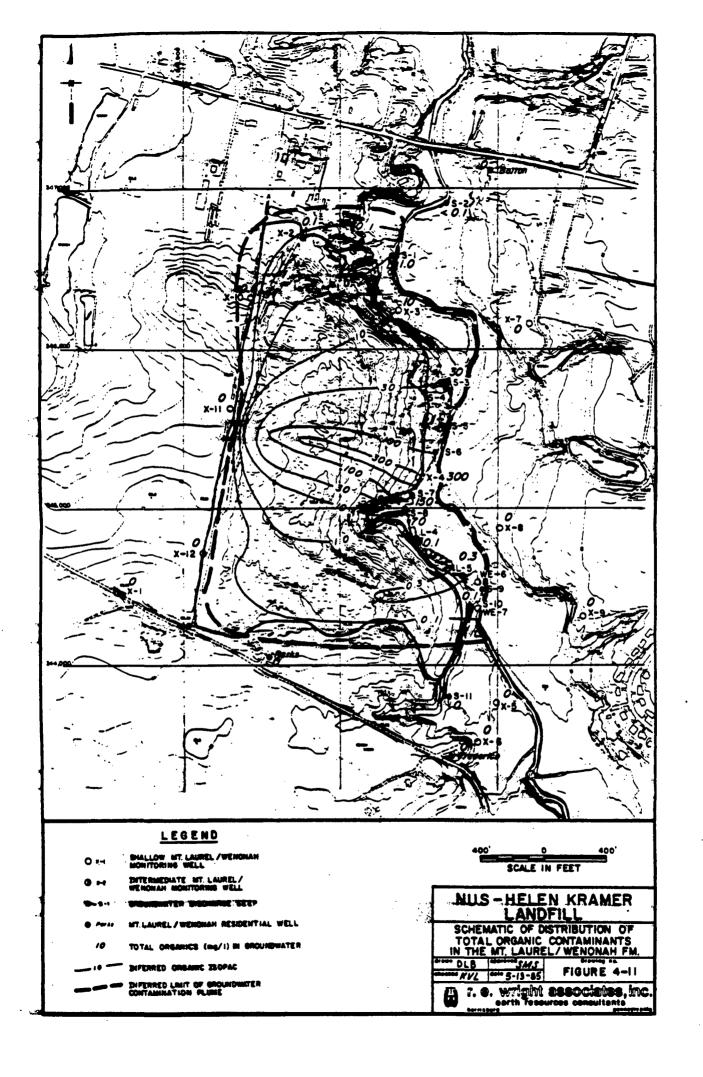
The Remedial Investigation has determined that the Mount Laurel Requirer is heavily contaminated (up to 400 mg/l total

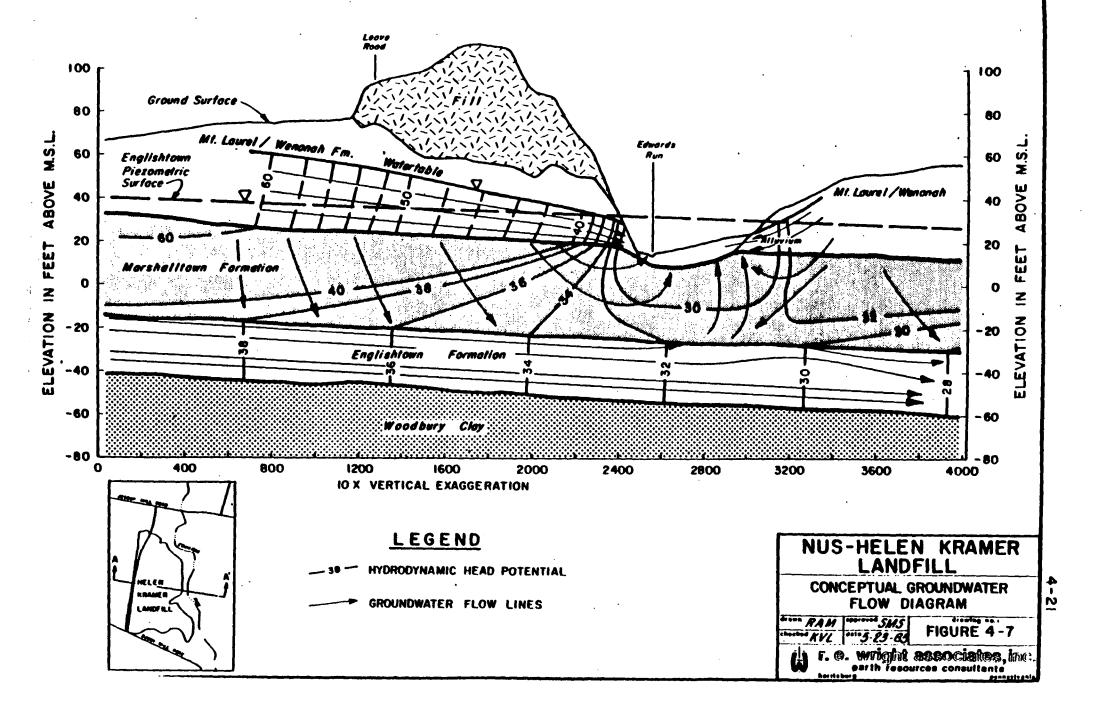
volatile organics) with organic compounds including dichloro and trichloro-ethanes and ethenes, benzene, toluene, xylenes, ketones, and phenols. Inorganic chemicals found in high levels in the Mount Laurel include arsenic, cobalt, iron, magnesium, sodium, and calcium. Indicator parameters such as total organic carbon (TOC), total organic halides (TOX), and chemical oxygen demand (COD) were found at levels as high as 1200 milligrams per liter (mg/l), 65 mg/l, and 3900 mg/l, respectively. The groundwater analysis data are attached as Appendix I. All the sampling locations are shown in Figure 1-3.

As previously discussed, the Mount Laurel is discharging to Edwards Run. The approximate limit of the contamination in the Mount Laurel is shown in Figure 4-74. Although the Mount Laurel is used for domestic water supplies, because of the easterly flow only one well may potentially be affected. The owner maintains the well is not affected due to its depth. The owner stated only that the well was deep and refused to allow EPA's contractors to sample the well.

During the drilling of monitoring well X-4D (Englishtown well), gross organic vapors were found emanating from the drill cuttings of the Marshalltown Formation. Drill cuttings of the Marshalltown were collected and sent to a laboratory for organic chemical screening by gas chromatography. screening showed organic contaminants had penetrated 40 feet of the Marshelltown at X-4 or to about 19 feet from the bottom of the formation. Based on the coefficients of permeability of the Marshalltown and the hydraulic gradient at X-4, the contaminated groundwater from the Mount Laurel should not have penetrated 40 feet of the Marshalltown, assuming the contaminants mobility is the same as water. Other factors, such as diffusion of contaminants, do effect the mobility of organic chemicals; therefore, assuming the contaminants mobility is the same as water may be an oversimplification. Research has shown that some organic chemicals do migrate faster than water through various strata. explanation for the organic contamination in the Marshalltown are the beds of higher permeability silty sands coupled with the conceptual vertical flows (Figure 4-7). Under this scenario, the contaminants may have entered the silty sand of the Marshalltown west of X-4 and migrated east horizontally and vertically down into the Marshalltown at K-4.





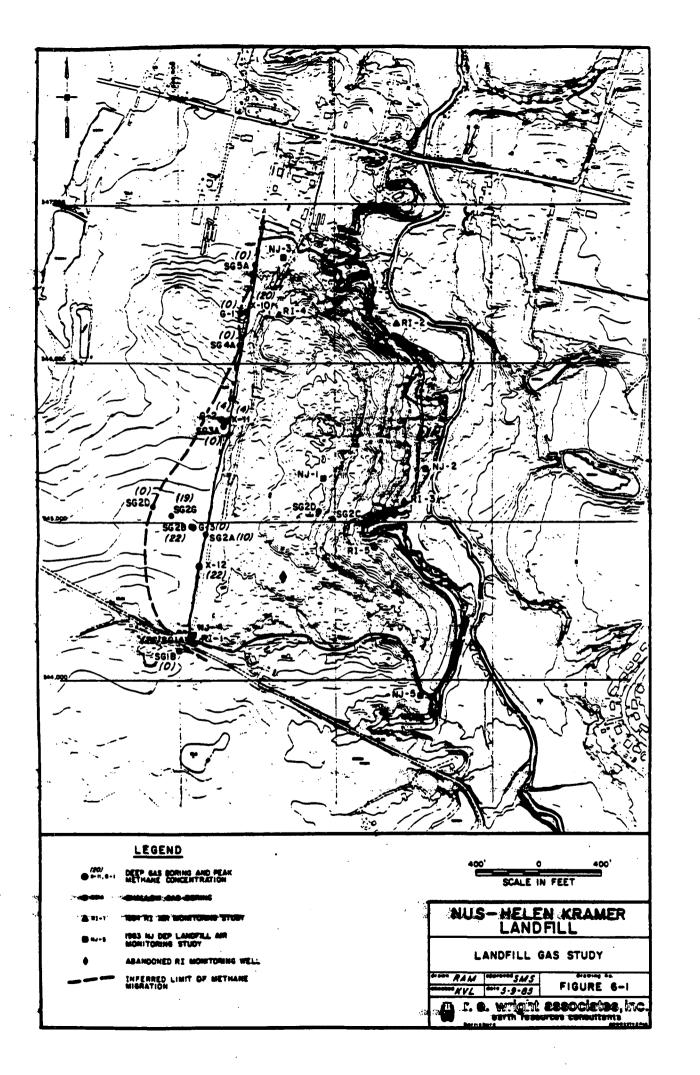


Two groundwater samples were collected on the same day from X-4D (Englishtown). Both samples showed trans-1,2,dichloroethene at 5.5 and 5.3 micro-grams per liter (ug/l). Two possible explanations for this observation were discussed in the report. One is that the analysis has detected the first signs of contaminant leakage through the Marshalltown. The second explanation is that cross-contamination from the Mount Laurel to the Englishtown may have occurred during drilling operations. No contaminants above background were detected in any of the other wells in the Englishtown. Due to the inconsistencies in the physical data and the different potential sources of the chemicals detected the report concludes that the data is insufficient to make any conclusions concerning the contamination of the Englishtown Aquifer. The data, regardless of the inconsistencies, does show a potential for the Englishtown to be contaminated.

The flow velocity in the Englishtown is estimated to be 0.5 feet per day. The Englishtown aquifer is used as a residential water supply (at least 2 homes) and possibly for irrigation within one half mile downgradient. Monitoring wells in the Englishtown located between the site and the residential wells did not show any contamination. Assuming contaminants are currently entering the Englishtown and based on the flow velocity, it would take 7 months to reach a downgradient monitoring well and over 4 years to reach the nearest residential well.

Edwards Run is also beavily contaminated with similar organics and inorganics found in the ground water, although at lower concentration due to dilution in the stream. Edwards Run is being contaminated by both surface leachate seeps and underground discharges. Previous bioassay and Ames testing of the leachate entering Edwards Run (1981) showed the leachate was both toxic and mutagenic respectively, to the test specimens. Bioassay and Ames testing in 1984 showed similar results.

A three day, twenty-four hour air sampling program was conducted by the NODER from October 31 to September 2, 1983. The results showed significant concentrations of vinylidene chloride (1,1, dichloroethene), benzene, 1,2-dibromoethane, and toluene. As part of EPA's health and safety monitoring at the site, gross organic vapor analyses of the gases discharging from natural vents in the landfill showed sporadic levels of organic chemicals. The organic vapor concentrations ranged from 0 ppm to over 300 ppm during an attempt to drill through the landfill.



Landfill gas migration, primarily methane, was investigated using an organic vapor analyzer (OVA). This study indicated landfill gas is migrated in the unsaturated zone of the Mount Laurel formation about 200 feet to the west in the southern end of the landfill. Pigure 6-1 shows the approximate extent of the gas migration. Landfill gases are also being discharged to the atmosphere through natural vents or cracks in the surface of the landfill. Methane concentrations at these vents were found at explosive levels at the vent openings, but the concentrations fell below explosive levels within a few feet from the vent.

The remedial investigation also noted several areas of exposed wastes with protruding sharp objects, steep slopes and rifts, as well as cracks in the surface. These conditions present physical hazards to anyone walking on the landfill.

Additional remedial investigations were concerned mainly with the surface leachate. In order to determine the amount of leachate being generated, several mathematical calculations together with direct observations were used. The results are graphically presented in Figure 4-9. The estimated average annual flow of leachate to Edwards Run is 124 gpm (179,000 gpd). Flow through the Mount Laurel is 55 gpm and infiltration from precipitation through the fill is 65 gpm. Infiltration through the area between Edwards Run and the fill is 11 gpm and leakage through the Marshalltown is 7 gpm. The average leachate/groundwater contaminant concentrations were estimated to be approximately 130 mg/l total organics with a TOC of 236 mg/1, COD of 326 mg/l and TOX of 8.2 mg/l. The average estimated concentrations of inorganics included arsenic 0.06 mg/l, chromium 5.4 mg/l (total), lead 0.197 mg/l, iron 300 mq/l and nickel 5.4 mq/l.

RISK ASSESSMENT

To assist in determining the impact of the landfill on the public health and environment, a risk assessment was performed for the conditions at the site. Where possible, relevant standards were used to assess the impact of the site. In most cases no standards exist and relevant or applicable criteria and guidance must be used.

Relevant standards for air borne contaminants have been developed for the work place. The ambient measured or calculated concentration of air contaminants at the landfill do not exceed the workplace standards. For some compounds the work place Threshold Limit Value (TLV) has been used to develop a guidance level for non-workplace exposure. The concentrations of 1,1-Dichloroethene and toluene, at the site exceed these guidance levels. The potential increased cancer risk due to air-borne contaminants from the site is estimated to be in excess of 1×10^{-6} up to a distance of 5 miles from the site.

Several of the maximum observed concentrations of contaminants in Edwards Run also exceeded the water quality criteria for surface water developed pursuant to the Clean Water Act. For the inorganics, only nickel exceeds the guidance, and for the organics, 7 of 18 exceeded the guidance. These include chloroform, benzene, and several chlorinated ethenes. The potential increased cancer risk for ingestion of Edwards Run is estimated to be 3.5×10^{-3} .

The NJDEP has developed preliminary discharge criteria for the groundwater/leachate discharge from the site to Edwards Run. These criteria can be used to help determine what could be considered acceptable contaminant levels in the discharge. The average concentrations of contaminants in the discharge exceed twelve of the State's criteria, including benzene, arsenic, BOD, COD and TOC.

In general, the leachate entering Edwards Run is considered to have rendered the stream unusable for the designated uses of an FW-2 non-trout surface water.

SCREENING OF REMEDIAL ACTION TECHNOLOGIES

Table 11-1 summarizes the problems and potential exposure pathways identified during the remedial investigation. The goal of the remedial action at The Helen Kramer Landfill is to prevent or mitigate the migration of hazardous substances.

a comprehensive list of remedial technologies applicable to uncontrolled hazardous waste sites was evaluated. The screening procedure evaluated the technological applicability and constraints, the public health and environmental effects, institutional constraints, and order of magnitude costs. The results of the screening produced feasible remedial action technologies that then were combined into remedial alternative components.

REMEDIAL ALTERNATIVE COMPONENTS

Security Fence

Installation of a security fence would control access to the site and substantially reduce the hazard of direct contact with waste materials. The fence would be 6 foot high chain link and would surround the site.

Groundwater/Leachate Collection Trench

One method to prevent leachate from entering Edwards Run would be to install a groundwater/leachate collection trench along the entire eastern border of the site. A trench would be excavated down into the Marshalltown Formation. A perforated PVC pipe would then be placed in the trench to channel the leachate to a collection point. The trench could then be backfilled with gravel and sealed to prevent surface infiltration. The trench would be equipped with manholes for maintenance and lift pumps to remove the leachate. The pumps can also be used to maintain a leachate level in the trench that would minimize infiltration into the trench of clean surface water from Edwards Run. A downgradient slurry wall could also be installed to prevent the surface water from infiltrating into the trench. Another method, pumping wells, was considered but was eliminated because the aguifer characteristics prevent the wells from forming an effective cone of depression.

Upgradient Soil-Bentonite Slurry Wall

A means to mitigate the release of hazardous substances to Edwards Run and to mitigate the potential for contamination of the Englishtown aquifer is to install an upgradient slurry wall. The wall would substantially reduce the groundwater flowing under the site in the Mount Laurel formation from 55 gpm to approximatly 4 gpm. Reducing the groundwater flow also reduces the piezometric surface of the Mount Laurel aquifer. This substantially reduces the potential for downward vertical migration through the Marshalltown into the Englishtown. The resulting flow reduction would also decrease the leachate quantities to be treated.

The slurry wall would be constructed on the west, north, and south sides of the landfill. The wall would be three feet thick and extend from the ground surface down to and keyed into the Marshalltown (about 60 feet on the west side). The wall would be placed about 15 feet outside of the existing waste deposition limit.

Surface Grading and Capping

Surface grading and capping would consist of filling areas of the site with local borrow and grading the soil to a maximum 20% slope. The cap will serve to prevent direct contact with the exposed waste, assist in gas emission control, eliminate the steep slopes and rifts, and most importantly reduce the amount of leachate generated by promoting runoff of precipitation, rather than percolation.

The reduction in percolation is dependent primarily on the material which composes the cap. Three capping technologies were evaluated, including: a RCRA cap composed of clay, synthetic liner, and soil; a clay cap composed of clay and soil; and a soil cap only.

The RCRA cap was eliminated in the initial screening for technical feasibility reasons. Recommended slopes for RCRA caps range from 3 to 5%. With slopes at the site of 20%, the material placed on the synthetic liner (drainage layer and topsoil) would have a high potential for slope failure, and therefore the RCRA cap was considered unreliable. In addition, the expected differential settling of the landfill could rip the liner and substantially reduce the effectiveness of the cap. Identifying and repairing these rips would be a significant maintenance problem.

Different capping materials were evaluated using EPA's HELP model. A clay cap would be expected to reduce percolation through the fill from 65 gpm currently to 0.5 gpm, a 99.2% reduction. The slopes are not expected to adversely affect the clay cap. Differential settlement would also affect the clay cap, but maintenance of the clay cap would not be as significant as the RCRA cap.

A soil cap would be expected to reduce percolation by 46% to 35 gpm. Maintenance from differential settlement would be less than both the RCRA and clay caps and would be significantly less in capital costs than the other two caps.

The clay cap would consist of a variable thickness of local borrow on the waste, one foot of gravel for gas venting, two feet of clay $(10^{-7} \text{ cm/sec permeability})$, a one foot sand drainage layer, eighteen inches of local borrow and six inches

soil cap consists of the same material as the clay cap, except for the clay. In the alternatives that contain a groundwater/leachate collection system and/or an upgradient slurry wall, the cap is envisioned to extend from the refuse limit to the additional component.

Leachate Treatment

This remedial alternative component would be implemented in conjunction with the leachate collection trench. Once collected the leachate would require treatment prior to ultimate discharge to a surface water body. Several treatment technologies were evaluated. Based on the characteristics of the leachate, the following technologies were considered feasible for treatment of the leachate:

- * Plow equalization A basin designed to store peak flows which allow the treatment system to operate at a constant flow for more effective treatment, and for storage during maintenance shut-downs.
- Precipitation, Flocculation and Sedimentation- These technologies remove suspended solids and soluble heavy metals. It involves the addition of lime or caustic to raise the PH to about 8.0 to precipitate most of the heavy metals. Anionic polymers are then added to flocculate and agglomerate suspended solids. These processes are followed by sedimentation in a clarifier, to separate the precipitates from the waste water.
- Air stripping- The air stripping effectively removes volatile organic compounds from the leachate. This technique for removing these compounds was retained over activated carbon adsorption due to its lower cost with comparable, but less efficiency. The process involves passing air through a packed column of highly porous media and passing the leachate down the column, against the air flow. The volatile chemicals are stripped from the water and exhausted with the air. The air stripper may need additional treatment of the off-gas in order to comply with air pollution discharge criteria. If treatment is necessary it would involve vapor phase activated carbon to adsorb the volatile chemicals from the off-gas.

At this point in the treatment process, it may be possible to discharge the effluent from the air stripper to the Gloucester County Utilities Authority (GCUA) sewer system for final treatment at GCUA's activated sludge treatment plant.

If this pretreatment component is not implementable, either technically or institutionally, the treatment process would continue in order to obtain an effluent quality suitable for direct discharge to Edwards Run. This component will be the full treatment option and is expected to involve the following additional treatment methods:

- Activated sludge Biological treatment could be used to remove a large portion of the remaining organic contaminants from the leachate. Activated sludge was chosen over other biological treatments due to its adaptability to fluctuating loadings. The basic activated sludge process involves degrading the organic contaminants with microorganisms. The system is aerated to provide oxygen for the process. The aeration tank is followed by a final clarifier to separate the sludge containing the microorganisms from the leachate (waste water). A portion of the sludge is then recirculated back to the aeration tank and the waste water continues in the treatment system.
- * Filtration the two part filtration process serves to "polish" the waste water to remove any residual suspended solids and organic chemicals. The first filter, a dual media filter, will remove any suspended solids not removed by the final clarifier primarily to prevent clogging in the second, activated carbon, filter. Preventing clogging in the carbon filter improves its effectiveness. The carbon filter would remove any trace organic chemicals remaining.
- Chlorination This treatment step could be utlized to disinfect the waste water if necessary.

The Treatability Study currently under review will more specifically define the necessary treatment units.

Gas Generation/Migration and Treatment

In order to prevent off-site underground migration of landfill gas (primarily methane) and to control the release of landfill gas through the landfill surface, two types of gas controls were evaluated and retained. Gas control is also an integral part of the landfill cap. If uncontrolled, the pressure from the gas could cause cracks in the cap, adversely affect the integrity of a clay cap, and increase lateral migration off-site. The past fires at the site also indicate the need for gas control.

A passive gas ventilation system utilizes the gravel layer in the cap to channel the gas to the vents. Approximately 1,200 vents would be placed on a 50 square foot grid system. The vents would be 4 inch PVC pipes placed through the cap and perforated from the gravel layer down to the waste. The vents would extend to above ground level. The vents may have to be equipped with some type of treatment, depending on the concentrations and constituents of the gases being vented.

Active gas ventilation would utilize the gravel layer in the cap with 88 vents through the cap on a 200 foot grid. The vents would be perforated from the gravel layer down to the waste. The vents would be connected by a header pipe on the ground surface and be equipped with flexible joints to avoid breakage from differential settling. The header system would be connected to blowers, which would withdraw the gas and in turn force the gas into a gas treatment system.

The levels of gross organic vapors periodically found in the landfill gas indicate a strong potential for the gas to contain significant quantities of volatile organics. Based on other air analyses there is a potential for these volatile organics to cause offsite cancer risks greater than 1X10-6. The gas treatment system would consist of vapor phase carbon units to remove volatile organic chemicals, followed by methane flaring.

Although both systems allow for proper ventilation of the gases, the active gas system would provide the greatest assurance against the possibility of fires recurring at the site. Due to the methane hazard, an active gas ventilation system was recommended during construction of the cap. The short-term active gas system could then be easily integrated into the long-term system.

New Jersey Regulations require an active gas wentilation system when off-site migration of methane presents a problem. As a guide, the NJDEP considers that an off-site methane concentration greater than 25% of the lower explosive limit (LEL) would require an active gas collection system to be installed.

Excavation

Excavation is considered to be a very effective technology to mitigate the continued generation of leachate. The disadvantages of excavation at this site include: a significant safety hazard to the workers and the surrounding population, the lack of sufficient capacity in existing secure landfills for disposal of approximately 2 million cubic yards of waste, and the high cost of that disposal. This technology was, however, retained to be used in conjunction with the alternative to be developed to comply with EPA guidance concerning off-site treatment storage and disposal.

Construction of an On-Site RCRA Facility

This component involves construction of a secure hazardous waste landfill adjacent to the site that conforms to the regulations promulgated under the Resource Conservation and Recovery Act (RCRA). This RCRA landfill would serve as the disposal facility of the waste excavated. It would involve construction of three individual cells with double liners and RCRA caps.

A groundwater collection and treatment system would be installed to collect and treat the leachate during excavation, and remove any residual contamination from the soil after excavation. The treatment plant would then be available to treat any leachate that would be collected by the double liner system in the RCRA facility.

This component has an extremely high cost as well as significant safety problems associated with excavation.

Lagoon Dewatering and Excavation

This component involves remediation of the north lagoon and the two leachate collection ponds. The lagoons contain approximately 1.52 million gallons of leachate and an estimated 2400 yd³ of highly contaminated soil/sediment. The soil would be placed on the landfill under the cap. The leachate would be disposed of at a nearby (<25 mi.) permitted treatment facility or recirculated through the fill and then collected and treated by the leachate collection trench and treatment system. The lagoon would then be filled with local borrow.

Surface Water Controls

The surface water controls are an integral part of the landfill cap. This component consists of storm water runoff controls, to protect the cap from erosion and promote runoff, and relocating approximately 600 feet of Edwards Run near the south lobe of the landfill.

The storm water runoff controls would involve a series of channels on the cap to direct the runoff to retention basins, which discharge to nearby surface waters. The retention basins store the water to allow for a controlled discharge which helps protect erosion at the receiving stream.

The relocation of Edwards Run is necessary in order to extend the cap out to achieve the desired slope. A 600 foot long portion of Edwards Run near the south lobe will be relocated by constructing a new stream channel about 100 feet east of the existing channel.

These controls utilize established construction technologies and are relatively easily implementable and reliable. Relocating Edwards Run would most likely require compliance with state stream encroachment regulations.

Alternate Water Supply

This component would essentially eliminate the low potential for residential wells to become contaminated. It involves either drilling new wells to the unthreatened Raritan Magothy Aguifer and/or extending municipal water supply mains from east Greenwich Township down Jessups Mill and Boody Mill Road into Mantua Township. The water mains currently extend to the township border adjacent to the site.

Monitoring

This component would involve quarterly monitoring of six existing and one new shallow wells, two existing and 4 new deep wells, two surface water locations, and air samples upwind, onsite, and downwind.

REMEDIAL ALTERNATIVES

The Remedial Alternative components were combined to form remedial action alternatives in five categories to comply with EPA guidance. Outlined below are the remedial alternatives developed for the cost-effective analysis.

Alternative #1 (No Action)

Alternative #2

- *RCRA Landfill adjacent to site
- *Excavation and Disposal in the On-Site RCRA Landfill
- *Groundwater/Leachate Collection and Treatment
- Dewater, Excavate and Fill Lagoons
- *Security Fence
- *Honitoring

^{*}Security Pence

Monitoring

Alternative #3

- *Clay Cap
- *Groundwater/Leachate Collection Trench and Treatment
- Pretreatment
- Complete Treatment
- *Passive Gas Ventilation
- *Dewater, Excavate, and Fill Lagoons
- *Surface Water Controls
- *Security Fence
- *Monitoring

Alternative #4

- *Clay Cap
- *Groundwater/Leachate Collection Trench and Treatment
- Pretreatment
- Complete Treatment
- *Active Gas Ventilation
- *Upgradient Slurry Wall
- Dewater, Excavate, and Fill Lagoons
- *Surface Water Controls
- *Security Fence
- *Monitoring

Alternative #5A

- *Clay Cap
- *Passive Gas Ventilation
- *Upgradient Slurry Wall
- Dewater, Excavate, and Fill Lagoons
- *Surface Water Controls
- *Security Fence
- *Monitoring

Alternative #5B

- *Soil Cap
- *Groundwater/Leachate Collection Trench and Treatment
- Pretreatment
- Complete Treatment
- *Upgradient Slurry Wall
- *Passive Gas Ventilation
- Dewater, Excavate, and Fill Lagoons
- *Surface Water Controls
- *Security Pence
- *Monitoring

Alternative #5C

- *Clay Cap
- Passive Gas Ventilation
- *Dewater, Excavate, and Fill Lagoons
- *Surface Water Controls
- *Security Fence
- *Monitoring

Alternative #5D

- *Soil Cap
- Groundwater/Leachate Collection Trench and Treatment
 - Pretrestment
 - Complete Treatment
 - *Passive Gas Ventilation
 - *Dewater, Excavate, and Fill Lagoons
 - *Surface Water Controls
 - *Security Fence
 - *Monitoring

Alternative #5E

*Alternate Water Supply

EVALUATION OF ALTERNATIVES

The National Oil and Hazardous Substances Contingency Plan (NCP) 40 CFR Part 300 Subpart F dictates a detailed evaluation of the alternatives.

The detailed analysis evaluates each alternative according to its:

- Performance (effectiveness), reliability and implementability
- Institutional Constraints/Issues
- Any Adverse Environmental or Health Effects
- Cost

Each alternative was evaluated and compared on the factors listed above. The evaluation is summarized below:

Alternative \$1: This alternative would not be at all effective in preventing or mitigating the release of hazardous substances to the environment. The adverse risk to public health and the environment would continue and the violations of existing regulations, guidance, and criteria would continue. This Alternative is easily implementable and has the least estimated present worth cost of \$1,271,000.

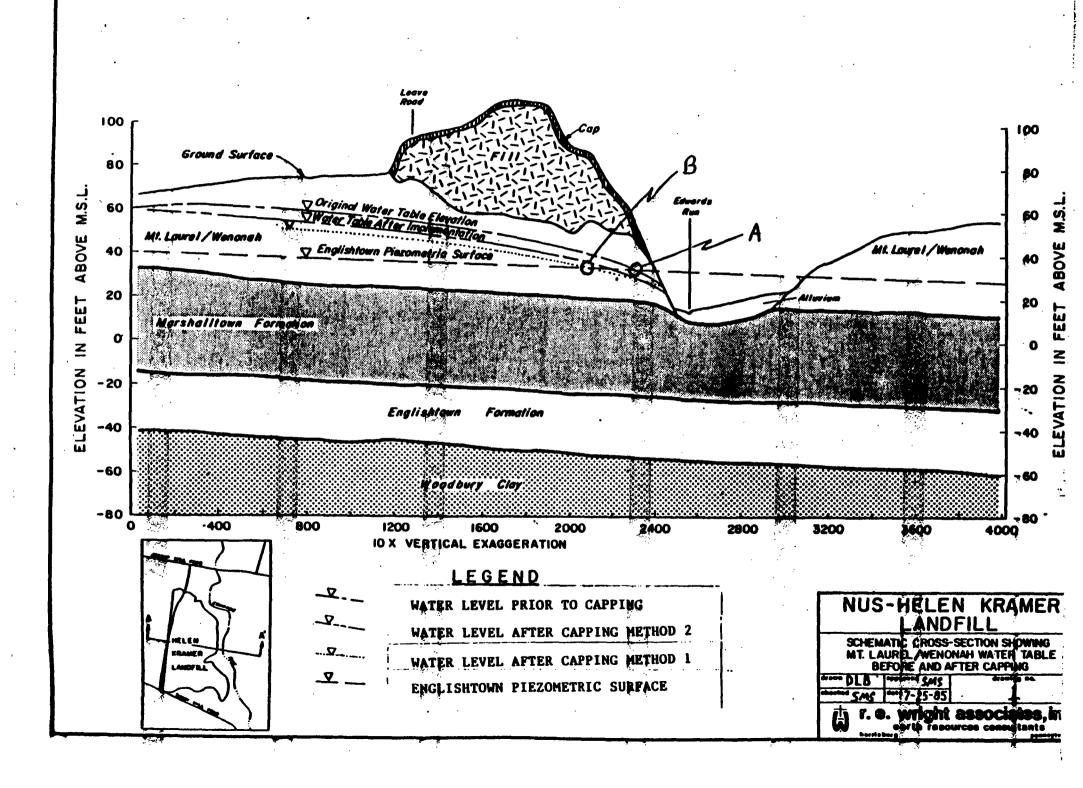
Alternative 42: This alternative has the greatest present worth cost at \$137,309,000. It requires excavation of the entire landfill and the construction of a secure landfill (RCRA) adjacent to the site. The excavation of the landfill has severe potential adverse impacts to the workers on site and to the surrounding residents. The unknown location and nature of the material buried in the landfill would require extensive safety precautions. These precautions still may not prevent explosions or rapid releases of hazardous substances from contact by heavy equipment with drums or other containers containing explosive, flammable or reactive waste. Exposing more solid wastes during excavation would increase the uncontrolled release of landfill gases and would be expected to increase the risk to residents from air-borne contaminants.

A means to reduce the adverse impacts of excavation would be to limit the area of excavation so that any releases can be properly managed. Although this is implementable it substantially increases the time to implement the remedial action. The time to construct the secure landfill would also be extensive compared to the other alternatives, conservatively estimated at twice as long as the other alternatives. The institutional constraints of building a RCRA disposal facility in a residential area would be substantial and could add additional time for implementation. When fully implemented this alternative would provide the most effective remedy.

Alternative #3: This alternative involves a clay cap; groundwater/leachate collection and treatment; passive gas ventilation; along with lagoon remediation; surface water controls; security fence and monitoring.

This alternative would reduce the amount of leachate emanating from the site by 60%, from 124 gpm to approximately 50 gpm annualized flow. The groundwater/leachate collection trench substantially reduces the discharge of the leachate to Edwards Run to a negligible amount and almost eliminates the risk associated with ingestion and dermal contact with Edwards Run. These two components also substantially reduce the direct contact and vapor inhalation hazards posed by the exposed waste and leachate on the site. The clay cap and passive gas ventilation system would effectively control the release of landfill gases, but the elevated risks to nearby residents associated with the airborne release of these gases from the vents would not be mitigated. The subsurface migration of gases off-site would be expected to be eliminated.

With the installation of the clay cap, the piezometric head in the Mount Laurel would be lower in response to the lack of recharge through the site area. The water table would lower and is estimated to reach an equilibrium about 8.5 feet lower than its present stage. This would result in a reduction in the potential for contamination of the Englishtown Aquifer due to the decrease in the vertical hydraulic gradient. clay cap's effect on the vertical gradient would not be sufficient to reverse the downward flow. The vertical flow gradient currently reverses at a point along the eastern edge of the site (Figure 1, Point A). At this point, the piezometric surface of the water table equals the piezometric surface of the Englishtown. This point is where the net vertical flow changes from down through the Marshalltown and into the Englishtown to up into the Marshalltown. The clay cap would only shift the point about 200 feet west, (point B) and thus would only slightly reduce the potential for contamination of the Englishtown.



The surface water controls are necessary for all the alternatives that have a cap (Alternatives 3,4,5A through D). Relocating Edwards Run is necessary in order to have space to construct the cap and trench. The other surface water controls reduce erosion and infiltration which subsequently improves the reliability and effectiveness as well as lowering the maintenance costs of the cap.

The security fence, applicable to all alternatives (except 5E), controls access and reduces the potential for vandalism and trespassing. This helps to keep maintenance costs down and reduces the risk of exposure to the gases concentrated from the passive gas vent system.

Monitoring is necessary for all the alternatives (except 5E) in order to determine the effectiveness of the remedial action and to help determine the long term reliability. Monitoring would also be an institutional requirement under federal and state regulations.

Dewatering, excavating, and filling the lagoons (lagoon remediation) is common to alternatives 3,4,5A through D. Dewatering the leachate collection ponds is a prerequisite to filling them in order to attain the slopes for the cap. Primarily because the north lagoon is not over and waste and for ease of construction of the cap and collection trench, the cap and trench are not envisioned to extend over the north lagoon. However, because of the high concentration of contaminants and the volume of material, the north lagoon is considered to present risks similar to that posed by the leachate and Edwards Run. Remediation of the north lagoon is considered essential to achieve the overall effectiveness of a source containment remedial action.

The potential adverse impacts associated with the implementation of Alternative 3 primarily deal with worker exposure during excavation of the collection trench. Proper safety precautions should eliminate these impacts. Another safety factor to be considered is the potential for igniting the methane being released through the cracks in the landfill. Heavy equipment needed for the installation of the cap, has the potential to be an ignition source for the methane. This potential hazard exists on the site currently from tresspassing vehicles and appears to be a risk that is inherent to capping any landfill. Safety precautions such as spark arresters and active gas collection during construction, can reduce, but not eliminate this potential.

The institutional constraints that may affect Alternative 3 include; state permit requirements for the treatment plant discharges, both air and water, and stream encroachment;

utilization of adjacent properties that are not part of the site, primarily for installation of the surface water controls and the security fence; not adhering to state regulation/guidance for off-site methane migration; any local ordinances for construction projects.

As previously discussed, when off-site migration of methane is found above 25% of the LEL, an active gas collection system may be required under the state regulations. The NJDEP methane migration study of 1981 indicated off-site concentrations greater than 100% LEL. The methane migration study in the remedial investigation found levels approaching but not exceeding 25% LEL. The earlier study might be used in the State's determination on the applicability of the regulation. This alternative would not satisfy that requirement, if imposed. It is also anticipated that the passive gas venting system would have to conform to state air pollution discharge criteria.

The extent of groundwater treatment is independent of the other components of this alternative. The determination of which treatment system would be needed is dependent on the results of the Treatability Study and subsequent approval by the state and local authorities.

For this alternative the design flow, which is estimated based on a 1.3 factor of safety multiplication of the maximum estimated annualized flow (150 gpm), is 200 gpm initially, and 125 gpm after implementation. The 125 gpm is expected to continue for the 30 year design life of the alternative. The design flows were rounded up to the nearest 25 gpm for costing purposes.

The estimated present worth costs for this alternative are \$35,975,000 for complete treatment and \$35,875,000 for pretreatment.

Alternative #4: This alternative includes a clay cap; ground-water/leachate collection and treatment; active gas ventilation and treatment; an upgradient slurry wall; dewater, excavate and fill lagoons; surface water controls; security fence; and monitoring.

Alternative 4 differs from Alternatives 3 in that it includes an upgradient slurry wall and an active gas ventilation and treatment system. These components improve the overall effectiveness of the action by substantially reducing the amount of leachate generated and the release of landfill gases to the ambient air. Another difference is the clay cap is extended from the refuse limits to the slurry wall in order to make an effective containment system.

The upgradient slurry wall would accomplish two benefits. One is that it reduces the groundwater flow through the Mount Laurel from 55 gpm to 4 gpm. This reduction in flow along with the reduction in percolation from the clay cap would reduce the flow into the collection trench from 124 gpm (179,000 gpd) to about 15 gpm (21,500 gpd). This represents an 88% reduction in the leachate requiring treatment. The other benefit to the slurry wall, in combination with the clay cap, is that by lowering the water table under the site the vertical hydraulic gradient would reverse from down to the Englishtown to up to the Mount Laurel (see Figure 2). Other factors, aside from flow direction such as diffusion, effect contaminant migration. However, the flow direction is the predominant factor in contaminant migration. Reversing the flow would not absolutely eliminate the potential for contamination of the Englishtown, but it does provide the maximum reduction of the potential for contamination, except for complete excavation.

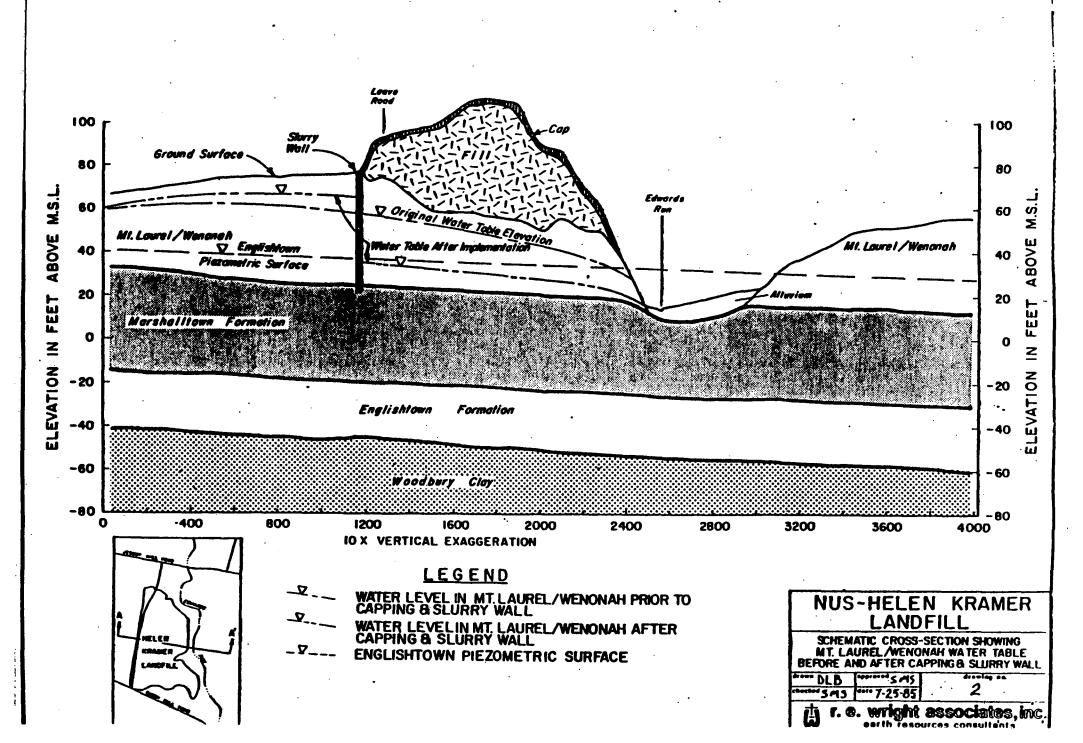
The active gas ventilation and treatment system is more effective in controlling the gas and reducing the hazards it poses than the passive system. The treatment of the gases would substantially reduces the risk to the residents from air borne contaminants over the passive system.

No adverse effects are anticipated during construction of the slurry wall or the active gas ventilation and treatment system. Proper safety precautions would be needed if a short term active gas system is utilized during construction of the cap. Adverse effects from the other components are the same as Alternative 3.

The institutional constraints are similar, except for the gas venting system, to Alternative 3, and are not expected to impede implementation of this Alternative. The state requirement for active gas collection would be satisfied under this Alternative.

The flow estimates used for costing purposes for this alternative were estimated to decrease exponentially with time. The initial design flow is estimated to be 200 gpm, then decreasing to 90 gpm the first year after implementation and then to 15 gpm at 10 years. The minimum flow of 15 gpm would then be expected to continue for the life of the alternative. With the flow substantially reduced, it may be possible to discontinue the treatment system, saving significant 0&M costs.

The discussion in Alternative 3 on other components (surface water controls; dewater, excavate, and fill lagoons; security fence; and monitoring), would apply to Alternative 4. The present worth cost estimates for this Alternative are \$41,647,000 for complete treatment and \$40,398,000 for pretreatment.



Alternative #5A: This alternative includes a clay cap; passive gas ventilation; an upgradient slurry wall; dewater, excavate, and fill lagoons; surface water controls; security fence; and monitoring.

This alternative does not contain a groundwater/leachate collection or treatment system. This alternative would mitigate the release of hazardous substances to the environment by reducing the quantity of leachate generated. As previously discussed in Alternative 4, the leachate flow would decrease from the initial annualized flow of 124 gpm to 15 gpm over a ten year period.

This alternative would allow the the continued uncontrolled discharge of leachate to Edwards Run at a lower rate than the current discharge. In an effort to attempt to quantify the health and environmental impacts from the continued discharge of leachate to Edwards Run, it was assumed that the health risks decrease proportionally with the flow. This would result in the potential increased cancer risk for ingestion of Edwards Run water to drop to 2.8X10⁻⁴ within ten years after installation of the action. This risk is still considerably higher than the generally accepted 1X10⁻⁶ risk.

The above assumption is not as easily applied to the environmental effects. Many of the preliminary discharge criteria parameters are not flow dependent and the concentration of contaminants in the leachate may not be flow dependent.

The mechanisms for formation of leachate would change after implementation of this alternative. An increasingly significant portion of the leachate would be predominantly clean Englishtown water discharging into the Mount Laurel due to a vertical gradient reversal created by the slurry wall. This would tend to dilute the contaminants. Conversely, the lack of a significant amount of clean water entering the site in the Mount Laurel from the west, that could be diluting the leachate now, would not be present after construction of the slurry wall and therefore, that dilution would no longer be available. The concentrations could then be expected to increase. Also the amount of percolation through the fill currently could be diluting pure contaminants or it could be the mechanism that "flushes" the waste, releasing contaminants. After implementation of the alternative, higher concentrations of contaminants may flow undiluted into Edwards Run or may not be released at all from the waste, although the flow is expected to decrease significantly.

Due to the currently unknown degree of variability of the contaminant concentrations in the leachate, a reasonable quantification of the environmental effects of Alternative 5A cannot be made and the assumption for the health risk decrease may not be valid. A reasonable subjective estimation would be that the contaminant concentration would not meet the non-flow

dependent criteria. The environmental effect on the stream and the potential health threat after the minimum flow of 15 gpm is achieved (10 years) could be negligible if the leachate discharged uniformly over the + 3000 ft. contact with Edwards Run and did not channel itself to discrete dicharge points.

The discussions of the other components to this alternative are the same as those discussed in Alternative 3.

The estimated present worth cost for Alternative 5A is \$36,347,000.

Alternative #5B: This alternative includes; a groundwater collection and treatment system; soil cap; upgradient slurry wall; passive gas ventilation; dewater, excavate, and fill lagoons; surface water controls; security fence; and monitoring.

This alternative differs from Alternative 4 in that it utilizes a soil cap and passive gas ventilation. This alternative has the lower cost soil cap to reduce, but not eliminate, percolation through the refuse. Leachate flow to the collection and treatment system would be expected to be reduced by 60% from 124 gpm to 50 gpm (annualized flow). By continuing to allow some percolation through the fill, it is felt that this may enhance the stabilization of the waste and "flush" the contaminants from the refuse into the collection and the treatment system, yet still removing the direct contact hazard.

With the installation of the slurry wall, the only significant source of water for leachate generation would be rainfall. The irregularity of rainfall may present some operational problems with the treatment system. Large peak flows would be encountered after heavy rains. Groundwater levels in the eastern side of the landfill rose significantly during and shortly after a rain storm of one inch. Within two days after the storm, the water level returned to approximately its original level. This indicates that the landfill is saturated and any amount of rain that percolates into the fill causes a similar amount of leachate to be discharged from the fill. Based on this observation, the peak daily flow in the treatment system could be 116 gpm. Conversely, during winter months when percolation is essentially zero, the flow in the system would only be 15 gpm from leakage through the slurry wall and up from the Englishtown. The flow range for the treatment system could range between 15 gpm to 116 gpm. A "treatment system could be designed to handle this range, possibly esing stabilization tanks, recycle loops, and treatment technologies that do not require a minimum flow in order to operate effectively. It is technically feasible to effectively treat this wide flow range, but it would be more operation intensive than constant flow treatment systems and therefore the reliability is less than the other clay cap alternatives.

Also because of the sporadic nature of the rainfall the piezometric head under the fill cannot be calculated. Therefore the vertical hydraulic gradients between the Mount Laurel and the Englishtown cannot be calculated. The effect of this alternative on the potential for contamination of the Englishtown is expected to be reduced over Alternative 3 but would be a greater potential than Alternatives 4 or 5A.

The discussion in Alternative 3 for the passive gas ventilation system would be the same as this alternative. The adverse effects during construction and the institutional constraints would also be the same.

The estimated present worth costs for Alternative 5B are \$35,324,000 for complete treatment and \$34,317,000 for pretreatment.

Alternative #5C: This alternative includes; clay cap; passive gas ventilation system; dewater, excavate, and fill lagoons; security fence and monitoring.

This alternative is the same as Alternative 5A except that it does not include an upgradient slurry wall. Not installing an upgradient slurry wall results in a similiar potential risk to the Englishtown as discussed in Alternative 3. The lack of a groundwater collection and treatment system would present greater risks and institutional constraints discussed in Alternative 5A with respect to the leachate discharge to Edwards Run. The passive gas ventilation system, lagoon remediation, security fence and monitoring would have the same risks, benefits, and institutional constraints discussed in Alternative 3.

The benefit to this alternative over Alternatives 3 and 5A is a lower present worth cost of \$28,934,000.

Alternative 45D: This Alternative includes; a soil cap; groundwater/leachate collection and treatment system; passive gas ventilation system; dewater, excavate, and fill lagoons; security fence and monitoring.

This alternative is the same as Alternative 5B except that it does not contain an upgradient slurry wall. This results in a potential risk for contamination of the Englishtown greater than all alternatives except the \$1 (no action) and 5E. The flow in the leachate treatment system would be sporadic, as discussed in Alternative 5B, but would range from 50 gpm to 176 gpm with an annualized flow of 85 gpm. This range would be expected to present the same technical and operations problems discussed for Alternative 5B.

The risks, benefits, and constraints associated with the passive gas ventilation system, lagoon remediation, security fence, and monitoring would be the same as those discussed in Alternative 3.

The estimated present worth costs for Alternative 5D are \$30,195,000 for complete treatment and \$30,476,000 for pretreatment.

Alternative SE: This Alternative is only a management of migration remedial action. It involves connecting fourteen homes with wells along Jessups Mill and Boody Mill Roads to a municipal water supply. This action would eliminate the potential for private well contamination from the site. It would not mitigate any other risks and hazards associated with the site.

Cost Evaluation

The alternative evaluation above discussed the effectiveness of the remedial alternatives. Another factor in selecting a remedial action is cost. Table 13-3 shows the estimated capital, annual operation and maintenance (O&M), and present worth cost for each alternative. The capital costs include indirect costs of 15% for engineering and design, 5% for administrative and legal costs, and 25% contingency. Present worth costs were calculated at a 10% discount rate over a 30 year period with all the capital costs incurred at year zero.

Alternatives 1, 2, and 5E contain, for the most part, unique remedial alternative components. However, Alternatives 3,4,5A through D contain the same basic components of a cap, lagoon remediation, security fence, and monitoring, but vary with respect to the material in the cap, groundwater leachate collection system, an upgradient slurry wall, and the gas collection system. A discussion on the costs of these components follows in order to weigh the individual costs of the components with their effectiveness which was previously discussed.

To estimate the cost of the "clay" cap versus the soil (no clay) cap, Alternatives 5B and 4 can be compared since the only difference is the cap material. The present worth cost of Alternative 5B (with complete treatment) is \$35,323,700 and the present worth cost for Alternative 4 (with complete treatment) is \$41,647,000. This indicates the clay addition to the cap increases the present worth cost by \$6,323,3000 or 183. The capitalized OaM costs of Alternatives 4 and 5B are \$3,558,000 and \$4,103,000. This indicates that adding clay to the cap reduces the capitalized OaM costs by \$545,000 or 13%.

Table 13-3
Remedial Alternatives
Cost Summary and Comparison

	Canibal C			6 11	
Alternative	Capital Cost (\$1.000)	Yest	Cost (\$1.000)	Cost (\$1,000)	Present Worth 4
. No Action	235	1-30	109.9	1,036.0	1,271.0
. New RCMA Landfill	132,484	1	1,229.7	1,117.9	137,309.2
		2 3	965.4 680.0	797.8 510.9	
		į	664.6	453.9	•
		5 6	649.2 633.8	403.1 357.8	
		7-30	233.4	1,183.8	
. Achieve Pederal Standards				•	•
a) With Complete Treatment	30,114	1	789.4	717.6	35,975.4
		2-30	603.9	5,143.8	
b) With Pretreatment	28,503	1 2-30	1,045.2 753.9	950.2 6,421.5	35,874.7
. Exceed Pederal Standards					
a) With Complete Treatment	38,089	1	792.1	720.1	41,647.0
a) with complete iteatment	30,000	2	521.6	431.1	41,047.0
		3 4-5	412.3 344.6	309.8 449.3	
		6-9	296.6	583.8	•
	•	10 11-19	311.6 286.6	120.1 636.4	•
•	•	20 21-29	301.6 286.6	44.6	
		30	301.6	245.3 17.3	
b) With Pretreatment	36,478	1	1,047.9	952.6	40.398.4
		2	621.6	513.7 336.1	
· •		4-5	361.6	471.5	
		6-9 10	296.0 311.6	5 82.6 120.1	
•		11-19	286.6	636.4	
	-	20 21-29	301.6 286.6	44.8 245.3	
•	•	30	301.6	17.3	
Achieve Some But Mot All Federal Standards				: * =	
a) Cap & Slurry Wall	34,566	1-30	188.9	1,780.8	36,346.8
, ,				್ಕ್ ಎ.ಎ.ಕ್. ಚಿತ್ರಾಪತಿಕಾಗಿದ್ದಾರೆ.	
Wall, Treatment		8			
1) With Complete Treatment	31,220	3	785.4	714.0	15,323.7
	T. Voltage		359.9	462.7 245.8	
		4-5	105.6	528.9	***
	· .	6-10 11-30	361.9	870.7 1,187.9	
11) With Pretreatment	29,607	1	1.040.9	946.3	34.316.9
		2	709.9	586.7	
		3 4-5	529.9 440.6	398.1 574.5	
		6-10	396.9	934.3	
-1.5		11-30		1,270.0	28,933.8
c) Cap	27,153	1-30	188.9	1,700.0	20,733.0
d) "No Clay" Cap, Treatment					
1) With Complete Treatment	; , 23,902	1 2-30	785.4 654.9	714.0 5,578.2	30.194.2
ii) With Pretreatment	22,290	1 2-30	1,041.2	946.6 7,239.2	30,475.8
e) Extend Public Water Supply	589	1-30	109.9	1,036.0	1,625.0
ptions:	•	•		<u>.</u>	: · · ·
	757	1-30	6		757.0
1. Downgradient Slurry Wall 2. Irrigation of Treated	381	1-30	69.2	652.3	1,033.3

*Discount rate of 10% over 30-year project life.

The addition of the slurry wall is approximately \$3,928,000. The addition of the slurry wall lowers the capitalized O&M costs by \$2,338,000 or 40% from \$5,896,000 (no wall) to \$3,558,000 (with a wall). If at some time prior to 30 years the leachate no longer requires treatment, due to the low flow, the treatment system will no longer be needed and the O&M savings would increase.

The costs essociated with the addition of the groundwater/
leachate collection and treatment system can be illustrated
by comparing Alternatives 3 and 5C. The addition of the
collection and treatment system (designed for 288,000 gpd)
increases the present worth costs by \$7,041,600 and \$6,940,900
for complete and pretreatment, respectively. As shown in
Table 13-3 the annual O&M cost for the treatment system are
flow dependent and therefore vary for each alternative. Of
the alternatives that contain treatment, the O&M of the
treatment system is the most significant portion of the
overall O&M costs.

The active gas collection and treatment system represents approximately \$600,000 in increased present worth costs over the passive gas ventilation system. The passive gas system has a direct capital cost of \$509,000 and insignificant or no O&M. The active gas system has a direct capital cost of \$897,000 and annual O&M costs of \$2,700 per year and \$15,000 at 10,20,30 years for carbon replacement.

COMMUNITY RELATIONS

A public meeting was held on April 26, 1984 at the Mantua Township Municipal Building to discuss the work to be undertaken by EPA's consultant for the RI/FS. Notices of the meeting were sent to all local officials and interested parties as outlined in the Helen Kramer Landfill Community Relations Plan. At this meeting, EPA officials provided an overview of the Superfund program. They also discussed the RI/FS activities which were going to be performed as part of the Selen Kramer project. Pollowing this presentation, the meeting was concluded with a question and answer session.

At the request of the Mayor a briefing on the status of the RI/PS was held on April 30, 1985 at the Mantua Township Municipal Building. The Mayor was informed of the preliminary results of the Remedial Investigation and updated on the schedule for completion of the Peasibility Study.

A second public meeting was held on August 1, 1985 at the Mantua Township Municipal Building to discuss the remedial alternatives. An information package including an agenda and a fact sheet were provided to the approximately 20 people who

attended. Copies of the draft feasibility study and notification of the public meeting were sent to local officials, other interested parties, and document repositories for public review. EPA officials and their consultant discussed the remedial alternatives and responded to the concerns and questions raised to the public.

The public comment period on the RI/FS began July 22, 1985 and extended through August 12, 1985. A Responsiveness Summary addressing the concerns and comments received at the August 18t public meeting and during the comment period is attached to this document.

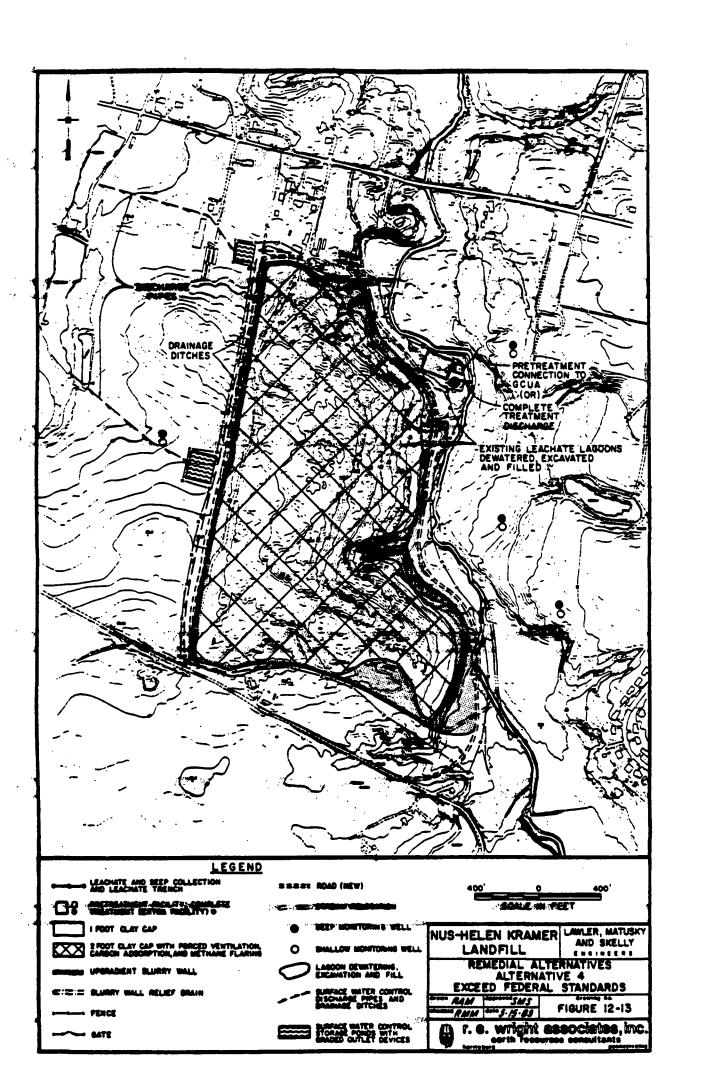
RECOMMENDED ALTERNATIVE

According to the CFR Part 300.68 (J), cost-effective is described as the lowest cost alternative that is technically feasible and reliable and which effectively mitigates and minimizes damages to and provides adequate protection of public health, welfare, and the environment. A cost comparison of the remedial alternatives is presented in Table 13-3. The evaluation of the remedial alternatives leads to the conclusion that Alternative \$4 is the appropriate cost-effective alternative (see figure 12-13).

Alternative #4 Includes:

- *Groundwater/Leachate Collection and Treatment
- *Clay Cap
- *Upgradient Slurry Wall
- Active Gas Collection and T entwent
- Dewater, Excepate, and PUTT Lagrons
- Security Fence
- *Monitoring

This alternative effectively mitigates all the current and potential adverse public health and environmental impacts caused by the release of hazardous substances at the site. The groundwater/leachate collection and treatment system substantially reduces the discharge of hazardous substances to Edwards Run. The clay cap and upgradient slurry wall reduce the potential for contamination of the Englishtown Aquifer, the amount of leachate which is generated and the amount to be treated to the extent practicable. The active gas collection and treatment system is needed to fully mitigate the potential air contamination and reliably control landfill gases.



Alternative 1 (no action) and 5E (extend water lines) do not effectively mitigate the adverse impacts caused by the site. Alternative \$2, (new RCRA landfill), is considered to be cost prohibitive and presents a substantial safety hazard during implementation. Of Alternative 3,4,5A through D, Alternative \$4 is the only alternative that effectively mitigates the adverse impacts through all the potential pathways of exposure.

Alternative 4 currently has two treatment options for the groundwater/leachate, complete treatment on site and discharge to Edwards Run, and on-site pretreatment and discharge to the Gloucester County Utilities Authority Wastewater Treatment The need for leachate collection and treatment has been established, the extent of the on-site treatment is independent of the evaluation of the alternatives in this Record of Decision. The extent of on-site treatment is dependent on the Treatability Study and the institutional constraints established by the state and local authorities. Upon completion of the Treatability Study and based on the Treatability Study the Region will determine the least cost treatment option. Then working with the state and local authorities the Region will evaluate the treatment option with respects to the institutional constraints... The decision on which treatment system is implemented will be determined by the least present worth cost treatment option that is environmentally acceptable and implementable.

Because of the substantial flow decrease with time for Alternative 4; it may be possible to rent a number of package treatment plants instead of building a plant on site. This should lower the capital cost of the treatment plant significantly.

COMPLIANCE WITH OTHER ENVIRONMENTAL LAWS

The recommended alternative, \$4, is envisioned to be implemented, constructed and operated in full compliance with all applicable existing environmental statutes with the exceptions discussed below.

*Floodplains and Wetlands

The preliminary conceptual plans for the recommended remedial alternative indicate that components of the action are within a designated 100 year floodplain. The work is affected by Executive Order (EO) 11988 - Floodplain Management, and the recommended alternative will comply with EO 11988. To ensure compliance with EO 11988, an evaluation of the conceptual plans will be performed during the design phase to determine what actions, if any, are needed to protect the components from

If the plans for the alternative do not comply, the design will be modified in order to comply with EO 11988. At this time, there appears to be sufficient flexibility in the conceptual plans so that compliance with EO 11988 would be technically feasible and would not significantly affect the environmental benefits or estimated cost of the recommended alternative.

The impacts of the site currently, and the recommended alternative are also believed to be affected by Executive Order 11990 - Protection of Wetlands. The area adjacent to the site appears to conform to the regulatory definition of a wetland. It appears that approximately three acres of wetlands are currently adversely affect by the site. Severly stressed vegetation is present in the wetlands near the south ravine.

The recommended remedial action would prevent any further contamination of these wetlands. The area should recover naturally. The cap is expected to intrude into the wetlands and cover approximately one acre. The design will attempt to minimize the encroachment to the extent feasible. The overall effect of the remedial action is beneficial to the wetlands by restoring two acres. Another six acres of wetlands is located south of the landfill and appears to only be impacted in a small area where the southern tip of the landfill meets the edge of the wetlands. The only contamination observed in this area is visual iron staining, The recommended action would be expected to eliminate further contamination without encroaching on the wetlands.

*RCRA Subtitle C, 40 CFR Part 264

The clay cap in the recommended alternative is believed to be in compliance with the criteria listed in CFR 264.310 (a). However, RCRA guidance documents for design of a final landfill cover include a 20 mil synthetic liner placed above the clay and below the sand drainage layer. As previously discussed, it is considered technically impracticable to include a synthetic liner in the cap of the recommended alternative. The RCRA guidance recommends a slope of 3-5% for final cover. In order to conform to the recommended slope an estimated 3.77 million cubic yards of fill would be needed to bring the existing slopes up to 5%. This is almost twice the estimated volume of the waste at the site. The cost and time to excavate, haul, and recompact the fill would be prohibitive and impracticable. From an environmental perspective the RCRA final cover would almost eliminate the wetland area adjacent to the site since the cap would have to be extended over this area. The RCRA cap would necessitate relocating Edwards Run to a new channel on the other side of the valley or installing a culvert under the cap.

In accordance with current CERCLA/RCRA Guidance, the clay cap in the recommended alternative was evaluated using the HELP model developed for evaluating final cover. The model estimates the leakage through the clay cover would be 700 gpd. This represents a 99.2% reduction in percolation through the fill. The RCRA recommended cap could achieve a 100% reduction in percolation assuming the liner remains intact and is not affected by differential settling. The increased reduction of 0.8% is not considered to be a significant improvement when weighed against the adverse technical considerations.

The installation of a RCRA recommended final cover at the Helen Kramer Landfill Site is considered technically impracticable for the reasons discussed above. The RCRA cap would significantly adversely affect the wetlands adjacent to the site and therefore may present further unacceptable environmental impacts.

OPERABLE UNITS

There are no operable units anticipated for the recommended alternative. Implementation of this alternative is expected to be the final remedy for this site.

It is possible to implement some of the remedial components independent of each other. For example, the slurry wall and collection trench can be implemented independent of each other and then be followed with cap installation. The sequence of construction of the recommended alternative components will be evaluated during design. If feasible, it would be desirable to phase the construction to allow for phasing of the funding.

A significant cost savings may be realized by utilizing small "package" treatment units instead of building a permanent treatment plant to handle the high initial flow. As the flow decreases with time the modules of the package units can be removed. It may also be possible to discontinue on-site treatment when the flow stabilizes and discharge directly to the POTW. Utilization of modular "package" treatment systems will be considered during design.

As a means to reduce the impacts of differential settling on the cap maintenance, phasing the installation of the cap and monitoring of the settling of the cap should be evaluated in the design phase.

Operation & Maintenance

All the remedial components of the recommended alternative require operation and/or maintenance to varying degrees, except the lagoon remediation.

FUTURE ACTION

Additional Studies

It is anticipated that additional investigations and/or studies may be necessary in order to properly design the selected remedy. These may include, but are not limited to; pilot studies for the components of the on-site treatment system, additional borings for more detailed geologic data, and additional gas testing for sizing the treatment system.

Sc	hedule	Date
-	Final Record of Decision	September 1985
-	Obligate design funds	Pending CERCLA Reauthorization
-	Amend State Superfund Contract	September 1985
-	Continue Responsible Party Search	Ongoing
-	Initiate design	Pending CERCLA Reauthorization
-	Complete design	Pending Funding Reauthorization

REMEDIAL INVESTIGATION/FEASIBILITY STUDY RESPONSIVENESS SUMMARY FOR THE HELEN KRAMER LANDFILL SITE

MANTUA TOWNSHIP, NEW JERSEY

BASED ON COMMENTS FROM PUBLIC MEETING OF AUGUST 1, 1985

Topic: Health Concerns

Issue: Are any wells in the landfill area used for the irrigation of

crops?

Response: A farmer living west of the landfill had a fire well that was

installed to provide water to extinguish previous fires. He then turned this well into an irrigation well. We tested that well

very early on and it is clean. It is a deep well.

Issue: Are you going to be testing our wells?

Response: No, there will be testing of EPA monitoring wells as part of the design and monitoring program that we will be developing. We do

not like to use residential wells as monitoring wells. Our wells will detect any contamination before it reaches any private

wells.

Issue: You took these air samples in April or May when the wind was

blowing at least 30 miles per hour. I saw you people doing this. And when you took your air samples, you shouldn't have even been there. The wind was blowing like hell. Now is when you should

be taking air samples, on an evening like tonight.

Response: We took air samples--actually, the State of New Jersey took air

samples--in September. We continually took air samples as part of our health and safety program. Every day we were out there,

somebody was taking air samples.

Issue: I'm telling you right now that when a gentle east wind is

blowing, my house is not fit to live in. You can't tell me that you're sure that I'm not being polluted from that air coming out

of that dump.

Response: There is no immediate threat from the landfill.

Issue: What happens if I die two years from now? You're still going to

tell me that there is no immediate threat, right?

Response: From the data we have to date, there is no immediate threat.

Issue: You cannot tell me this for sure.

Response: The hydrogen sulfide and the mercaptans that you smell--and they do smell terrible--are at levels far below anything that is considered harmful. Now I'm not disputing the odor problem, and know it's downright putrid, but those compounds that cause that

odor are not harmful.

Issue: I am not talking about just the methane. I'm talking about other

things that went into that dump that I've seen.

Response: The other chemicals that we are finding have been detected in low parts per billion on site. Most of the industrial standards for those chemicals are in parts per million, generally thousands of times greater. And those levels (that we detected) disperse rapidly as you get farther away from the site. There is still a risk associated with those chemicals being emitted and that risk was evaluated in the study.

As part of the remediation plan, there will be gas collection and venting. The gas will be destroyed. The threshold limit values for those parameters, as we stated earlier, are a thousand times higher than the concentrations that we measured while we were right on the landfill. And those threshold limit values are established for a continuous concentration (that's a thousand times higher than we measured) for an eight hour period everyday that you're in the working place. And what is happening on the landfill is that we have a measured concentration a thousand times less than the threshold limit value with no continuous concentration because of the change in wind direction, velocity, and so forth. There is no immediate threat.

Issue: You're telling me that there is no danger from the air in the

outer lendfill?

Response: Off of the landfill there is an increased risk from the gases

coming out of the landfill.

Topic: Technical Considerations

Issue: Has there been any thought given concerning the feasibility of

recovering the methane?

Response: "It has been considered but we did not really evaluate it, primarily because our initial concern is to gather it and destroy the hazardous chemicals. However, we will reconsider the

possibility of recovering the gas.

Issue: Do you have any idea regarding the possibility or danger of additional seepage of contaminants into the groundwater during

the 30 years of this project?

Response:

We first have to actually choose the alternative. There is the potential for contaminants to migrate into the groundwater which flows underground. However, an aquitard, which we talked aboutearlier, slows everything down; it takes a number of years for water to get through. We are talking a number of years down the road for the potential for this to happen - that is, before we might possibly detect contamination in our monitoring wells on the other side of Edwards Run. We would not anticipate any vast amount of contamination coming out of the landfill or any offsite migration in the groundwater after implementation of the proposed remedy.

Issue:

Is the Kramer Landfill still ranked #3 in the nation?

Response:

The ranking does not change after the study. We do not rerank the sites afterwards. A ranking of 3 does not mean that this site is the third worst site in the country. It means that on the forms and on the criteria that we used to evaluate the site, it scored relative to the others at the top. The criteria used are based on potential. The original potential at this site was for contamination of municipal wells over a mile away. That's the extent to which we evaluate the potential hazard of each site in order to get them ranked. Where it's located on the list doesn't matter for funding. EPA's perspective is that if it's on the list, it is eligible for CERCLA funding. People have used the ranking as an attempt to show toxicity. It is not meant to do that. It is an evaluation of a potential problem and is based on the amount of hazardous waste suspected of being there. The fact that it's on the list is all that really matters.

Issue:

What you have found is, by some stupid quirk of luck, a landfill located in what you are calling a safe area. Your study indicates that it is not going to go anywhere, that the fumes aren't going to hurt anybody, and that it is not going to damage the water supply or environment.

Response:

We didn't say it was not capable of moving. We said that the rate at which it would move would be extremely slow. The EPA is concerned with both public health and the environment. The public health potential risks from this site are considered low relative to other sites. The environmental damage caused by the site is substantial. This plan will protect both the public health and the environment. There is a danger for somebody to go on that site and it is mainly a physical hazard. As far as the air emissions are concerned, they can change. The one's we do have indicate that there is a potential threat from a constant/lifelong exposure to those chemicals. That tells us that we should evaluate the potential risk associated down the road. First, though, let's evaluate it. The risk is not acute; it is long-term chronic.

issue:

You say public health. Are you going to include the people in a public health study? You should start studying the people now to see if there are any changes between now and the future.

Response:

We found nothing to indicate any immediate hazard that would require a study. There is nothing to study. Are you asking why shouldn't we be taking studies of the people to see if there is an effect on them? The answer is because we are going to be remediating the site and eliminating the current contaminant pathways of exposure.

Issue:

You say you are going to, but that landfill can sit there and that's a chance we take. You don't know how it is really going to affect us.

Response:

The only pathways of exposure to the residents are through the leachate that's coming out of the landfill and into Edward's Run, and through the air. All of the remedial plans that are being evaluated are going to stop the migration of any of these contaminants through those pathways. There will not be exposure in the future, when we implement one of these plans.

Testc:

Administrative Issues

Issue:

With regard to the public comment period, will your decision be made then (when it's over) or in a year or so?

Response:

The problem is with our treatability study. The type of treatment system we will use is not known at this time. We're going to study the type of treatment system we will use. That will be a slow decision, but we really don't need to know for a few more months. We anticipate making a decision on the selected alternative in early September. The public comment period closes August 12 and we will evaluate all of the comments from the public. the State of New Jersey Department of Environmental Protection, the county, and our own internal comments. It really depends on what the comments are as to what we decide for the site.

Issue:

Are you telling me that after this one-half million dollar study, you are going to depend on comments from me and the audience here on how you should do this thing?

Assocse:

will also be receiving our consultant's recommendation. The purpose in coming to the public is not because we don't know anything. It is in case we missed anything. Your concerns are important to us, and this provides you with an opportunity to participate in the Superfund program.

Issue:

Do you have an alternative that you prefer over the others?

Response:

We are leaning toward certain alternatives. Tentatively, we are leaning toward capping the site and installing a pumping and collection/treatment system. We are strongly considering an upgradient slurry wall as well.

I think something that has not been brought up here is that none of the recommended alternatives are going to be a quick-fix solution. This pumping and collection/treatment system that we are proposing may go on for as many as 30 years.

Issue:

Can't we have the consultant's recommendation--now? Could he tell us, please, what it is?

Response:

His recommendation is listed in the back of the fact sheet. The recommendation includes the cap (of the landfill), the groundwater pumping and collection system, and the dewatering/excavation of the lagoon.

Because we do not have the treatability study complete yet, we do not know at this time, on a cost basis, whether the clay in a cap would be more feasible to keep the water from flowing down through the fill or an upgradient slurry wall, which would keep water from flowing under the fill. Since we are still studying all the information that we are obtaining, we do not know quite how to cost the alternative or choose one as a remedy. We're really not in a position yet to say or recommend that "yes," we need clay in the cap in order to keep the leachate generation down or that we need the wall. We're close (to selecting an alternative), and we are working on it. The treatability study is ongoing; we're taking a look at some other considerations and will be determining in the near future the remedy for this site.

Issue:

When would one of the plans be accomplished. How many years before its done?

`Response:

The next step is design, and that design will actually give us the construction schedule. Right now, we're assuming it is a 12-month design period, so we're talking roughly a year until construction gets going.

Issue:

So you have no cost evaluations?

Response:

Yes, we have estimated the capital costs, but we don't have an implementation schedule because we haven't actually completed a design of the alternative.

Issue:

So it will take you a year to design it. Out of the air, approximately how long would it take to incorporate this design into the grant?

Response:

This is a 56-acre landfill. There is going to be a lot of earth moving to cover that area with clay. I don't think that it is unlikely that just putting the clay cover on it will be a 2-year construction project.

Issue:

And that's the end of the project when you put the clay cover on.

Persones:

Not so. There will be an ongoing treatment system also, for the deschate. As we put the cap on, you will notice the lowering of the odors.

Issue:

You said that it will be a year before the design is completed, and approximately two years to cap it with clay. Will the remediation of the site begin right after the design is completed.

Response:

I think a 12-month design period is a little on the long side. A 9-12 month time frame is reasonable. That will probably include the advertising period and the start of the construction. I think a year's estimate until the start of construction is reasonable.

Issue:

This study, which cost one-half million dollars and it is only one study, is paid for out of the taxpayer's money, right?

Response:

Yes. it is.

Issue:

Can we get an accounting of this half-million dollars? Did we actually spend a half-million dollars on this study.

Response:

It is more than that amount.

Issue:

Does anybody have an accounting of how this money was spent?

Response:

We do keep records and eventually, in the near future, an audit will be done. The outcome of that audit is public information; every project gets audited.

Issue:

Aut does the public ever see these?

Response:

They don't, as a matter of course, mail out the audit as they did with the report. You would primarily have to request it.

Issue:

Will any of our elected officials see this?

Response:

Could you clarify what your concern is?

half million dollars later you don't know a damn thing more than we knew a year ago.

Response: We know a great deal more. We've done a lot of tests. We know a

lot more about the hydrogeology, and we have a recommended plan

of where we are going.

Issue: I expected you to tell me just exactly how you were going to

clean up this place.

Response: We're here to ask you what you want us to do.

Issue: I would like to see the landfill covered. I'll tell you why. I

have a farm there that is worth absolutely nothing with this landfill the way it is right now. I want to sell this farm and

nobody will begin to look at it with the landfill nearby.

Response: The site will be capped.

Issue: You're so sure you'll get funding for this? The last I heard, it

was all tied up in red tape.

Response: This is the last year of the 5 years of Superfund. It is the

authority of Congress to tax for and appropriate more money. The current law expires in October. Actually there are several bills

in Congress being debated right now.

Topic: Legal Issues

Issue: Tell me this. Is there a State law which governs closing a

landfill? Does that State law say that within a certain time

that landfill has to be covered?

Response: Yes.

Issue: Okay, and how do you guys get around this?

Response: We're not responsible for the landfill. There are closure

requirements under the State law. But it's not our site yet. The Kramer's would be the responsible people under that law to

close the site.

Issue: And how are they getting away with that?

Response: They are essentially broke. They do not have the capability to

do it. Helen Kramer herself has declared bankruptcy.

Issue: Mrs. Kramer told me that she has money in an escrow account that

she paid to somebody during the life of the landfill. How much

money is there and where is it?

Response: My name is Dave Paley and I'm with the New Jersey Department of

Environmental Protection. I'm allowed to give an answer. I visited with the Kramers at the end of last summer, and Joe

Kramer was asking me about his escrow account. He remembered something between the order of \$30,000 or \$40,000 in escrow. And he said, Whatever happened to my money? I didn't know anything about it and I said if he could give me any clue as to who he was dealing with—what agency, what branch of the government, or even a name—what person—that I would do whatever I could to track it down. He said he would get it for me. I called the Kramers twice, at intervals of a month after that and said I'm waiting to hear about the information. And I never heard from him. And I don't know where to look for it. If I do get some information, some help from them, I will pursue it to the extent possible.

Our capping alternative runs into the millions of dollars, so even with that fund of the Kramer's, you are only talking about a very small percentage of the total costs.

Issue: Somebody's breaking the State law that says this landfill has to be covered.

Response: I would say the owner but I can't speak as a legal counsel. It appears that they are in violation of the closure regulation under the State Solid Waste Disposal Law.

Issue: Is there anybody here from the State from that department?

Response: Dave Paley is with the Superfund program department, not with the solid waste department.

Issue: Dave, how can they break this law?

Response: The Kramers, as the owners of the landfill, are responsible for a host of problems caused by the landfill. Closure of the landfill is among the requirements under the law that they are in violation of. The penalty is fines. They don't have the money to pay them.

The government is going to spend a lot of money to clean up the site. There will come a point in time, I'm sure, when we will recover some of the costs. We are still looking for the responsible parties, beyond the Kramers, to the generators who generated this waste. The U.S. Justice Department is going to look carefully to find any hidden pockets of money and also to identify who the generators are so as to recover the monies expended by the government. That's the best we can do.

issue: Suring this course of operations of the landfill, didn't anybody have any idea that these violations were taking place?

Response: Yes. There were numerous notices of prosecution, notices of registration revocation—all of these ended up in administrative court. Everyone is innocent until proven guilty, so they were allowed to continue to operate until the court injunction, which wasn't issued until 1981.

Issue: Aren't there records available as to who these customers were as

generators?

Response: . We were not able to obtain any records from the Kramers. Records

that the State has are almost entirely with the municipalities in

the area.

Issue: When you say that you could not get any records from the Kramers,

do the records in fact exist, or are there any indications that

they destroyed them?

Response: There is no indication that they made a concerted effort to

destroy them.

Issue: Are they still in the Kramer's possession then?

Response: They may or may not be.

Issue: Has there been any legal action to get them? Have you sought

them?

Response: We're on the remedial side of the EPA. We have an enforcement

section that addresses these types of concerns.

In addition to the oral comments received at the public meeting on August 1, 1985, the EPA also received one written comment based upon an editorial that appeared in a local newspaper.

Issue: The EPA is delaying the initiation of cleanup at the Helen Kramer

Landfill until 1988 for politically motivated reasons.

Response: The EPA is not delaying the initiation of cleanup at the Helen Kramer Landfill until 1988. The design of the selected remedial

alternative should be initiated within the next few months if funding becomes available. The design is estimated to take approximately 12 months and actual construction of the alternative could take 24 months. We currently estimate that the construction will be completed in 1988 and not initiated in 1988.

as was reported in the article.

Times Editorial

Dump cleanup delay taints EPA motives

There are at least Wreasens why the U.S. Emironmental Protection Agency should not wait until 1988 to start. cleaning up the Kramer Landfill in Mantua Township.

An EPA consultant at a local meeting on the project

last week outlined them himself.

"In the leachate discharging into Edwards Run, there are over 30 identified organic compounds," said the consultant, Richard E. Wright, explaining that contaminated wood from the former trash dumpaite is spilling into a nearby creek. "Those compounds are believed to be carcinogenic or cause birth defects," he said.

The 30 chemicals, and the 66-acre site's susceptibility to underground fires, are the reasons why the EPA has ranked the site as fourth most dangerous among the 400-plus toxic waste sites nationally that qualify for cleanups with the federal Superfund. The number one site—Lingri Landfill—is also in Mantius Township.

EPA officials say there has been no effect un local drinking water from the Kramer atte. Yet such statements offer little comfort to people who live around the landfill, who have shallow wells, and who know that cancer-causing chemicals in surface water are also a health concern.

The EPA has proposed a \$30 to \$40 million program that would at first prevent the contaminated liquid from spreading beyond the landfill's borders. That is the same thing the agency has done at Lipari in a beneficial, but incomplete, project that has not yet removed or treated any of the toxic waste.

Early last year, EPA officials predicted that it would be 1955 before any channe work would take place at the Kramer afte. That was reasonable at the time, since studies were just being started and the full extent of chemical contamination in the landfill had become known only the previous year.

The demands on the Superfund, which itself faces a battle for renewal in Congress at an adequate funding level, are numerous. And the state's increased sources of revenue to address hazardous waste problems also are

But by deciding now to delay cleanup work at Kramer until 1988, the EPA is showing contempt for residents of Mantua, who have had to live with two of the worst toxic time bombs in the country for three decades.

Perhaps the decision is a political one based on the notion that New Jersey and Gloucester County — with Lipari, Kramer and the Bridgeport Rental and Oil Services in Legal Township—is receiving too large a share of the Superfund too soon. If so, it isn't fair. Kramer is ranked fourth on the Superfund list because of what it is, not where it is.

The EPA should reconsider the proposed cleanup schedule. And state, county and local officials should

push to have it accelerated.

APPENDIX 1

MESSAGE FLAGS FOR CHEMISTRY DATA

- [] Result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- B Analytic is found in the blank as well as a sample.

 It indicates possible probable blank contamination and warns the data user to take appropriate action.
 - S Value determined by method of standard addition.
- Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds, where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the indicated detection limit but greater than zero.
- R Actual value within the limitations of this method is less than the value given.
- B Blank greater than 1/2 method detection limit and greater than 1/2 concentration in sample.
- R Indicates spike sample recovery is not within control limits.

r.e. wright associates, inc.

MESSAGE FLAGS FOR CHEMISTRY DATA, CON'T.

UNDETECTED: Not present in sample above detection limit.

NOT REPORTED: No analytical results at time of report preparation due to: parameters not required by CLP contract, lost sample or analytical results, delay of data transmittal.

PRELIMINARY: Data not quality assured and subject to change.

FINAL: Data quality assured.

REJECTED: Data reported but results rejectd due to quality assurance problems such as bad methods, poor recovery, holding time violation, bad surrogate, or other.

HELEN KANER LANGFILL GROUNDARIER QUILITY MORLYTICAL RESILTS

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NELEN NOVER LANGFALM SUFFICE MATER SUBLITY FORLYTICAL RESILTS

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HELEN HAVER LAWFILL

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Note Shippill	o preside		99/85/84	******	01/05/04		J95/05/04	2
North Grid	34511.20218	34593.252210	36516. 822724	346918.822724	344001.517309	34601.817309	318734.143191	315734. jújíjí
East Grid	1838398, (23498	1830370. 123470	1856675. 128219	1856675, 128219	18585\$1. © 7646	1836581.427646	1656539, 277212	1050539.077812
TERMINELY INTRICE CONTROL	fine	PRED UNITARRY	FINAL	PREL IN INCHY	FINE	PRELIMINARY	FIRM	PART TANKAN
	₩Î	49/1	ug/l	eg/l	ig/l	wy/i	mg/i	4)
1,3-diesth/lieleure	METECTED	NOT REPORTED	UNETECTED	HOT REPORTED	. 71	WOETECTED	. J. 84	UNE VECTED
1, 1,5-Triadby tyclehendrene	INCEPECTED.	NOT REPORTED	UNETECTED	NOT REPORTED	1 419	DOETECTED	J 19	WETECTED
1. 1. 5-Triadiliyikye lakesanoi	DETECTED	INT REPORTED	MOELECIED	NOT REPORTED	1 111	MAETECTED	· UNETECTED	200 J. 146
4-activ)-2-perference	METECIEN	NOT REPORTED	UNCETECTED	NOT REPORTED	1877	1977	MAETECTED	UNETECTED
hosanthyléjelőtrisi loung	DEFECTED	NOT REPORTED	LARE LECTED	NOT REPORTED	<u> 200</u>	200	UMETECTED	200
1,9 nenerofiel	(METECTED	NOT REPURIED	LOGE TECTED	NOT REPORTED	WETECTED	WOETECTED	UNDETECTED	20
1,7,7-triality -bicyclo	DE TECTED	NOT REPORTED	UNE TECTED	NOT REPORTED	METECIED	DOCTECTED	LOGE TECTED	73
4-(1-acthy oth 1 tanzoic acid	METECTED	NOT REPORTED	UNETECTED	NOT REPORTED	METECTED	UNETECTED	J 59	22 B
4-II-methylistiff))banzoic acid	WE TELTED	NOT REPORTED	MAETECTED	NOT REPORTED	PECIED	UNDETECTED	MARTECTED	27. 65
2-celly) hijintific acid	J 550	NOT REPORTED	UNETECTED	HOT REPORTED	METECTED	UNDETECTED	UNIETECTED	UNETECIED
1, 1'-Chybi Milline	4 6	NOT REPORTED	UGETECTED	NOT REPORTED	, 71	UNETECTED	J 15	UNIT IT CIED
Dischipling Issuer	WETECTED	NOT REPORTED	UMETECTED	NOT REPORTED	J 119	METECTED	J 120	UNE ILCIED
Diarthylbefront Issuer	METELIED	NOT REPORTED	UMETECTED	NOT REPORTED	1 49	CONTECTED	J 3	MERCIED
Heamicaeld	1 5000	NOT REPORTED	UNETECTED	NOT REPORTED	DETECTED	DOCTECTED	MOETELTED	MAE RECIED
2-Ethylheninelit Reid) 6	NOT REPORTED	METECIED	NOT REPORTED	WETECTED	UNETECTED	MAETECTED	CHOE (ECTED
Cyclohenanter Touylicacid	1 210	NOT REPORTED	DOETECTED	NOT REPORTED	J	UNCETECTED	MOETECTED	die fecies
1, 1'-Snybist2-shloresthane)	WETELTED	NOT REPORTED	DOCTECTED	HOT REPORTED	39	UNETECTED	J 22	UNIONE PECTED
Denzeneurt hatel, Alpha-Alpha-	<u> </u>				3			
Simthy!	WHETECHED	NOT REPORTED	LOGETECTED	NOT REPORTED	<i>j</i> 51	MOETELTED	PRETECTED	CHERECTED
2-Preparely 1-11-12-Pathony-1-					141	,		19. v
Nithy officey)-1-					W ETECTED			CHE RECTED
Nothy offiguy)-	J 45	NOT REPORTED	UNETECTED	IOI REPORTED	THE TELLED	UNDETECTED	WHETECIEN	COMPLETED.
Bicyclot2.2.1 Mapt an 2-aus, 1, 7, 7	4 -				4		1 400	SE RECTED
-Triditiyi-	i si	NOT REPORTED	UCETECTES	NOT REPORTED	S 11	UNETECTED	J 150 J 7	AND RECIED
Trimthyloilaibl	1 5	NOT REPORTED	UNETECTED	NOT REPORTED		UNGETECTED UNGETECTED	jä	MAN RECIED
2-fothyl-2-frifami	1 17	NOT REPORTED	(METECTE)	HOT REPORTED	WETECTED	WETECTED	DEFECTED	GOE FECTED
Portanoic ficial	J 1300	NOT REPORTED	DOCTECTED	HOT REPORTED HOT REPORTED	WETECIED	MOETECTED	DOETECTED	GOE JECTED
2-firthy pull ambiencid	J 440	NOT REPORTED	UNETECTED UNETECTED	ACT REPORTED	WHE TECTED	UNE TECTED	WEE TECTED	Set Jecien
Replancic Reid	jä	NOT REPORTED	UNETECTED	NOT REPORTED	CHETECIED CONTRACTOR	MOETECTED	PRETECTED	MAE LECTED
financyropholescid 2-fethylbolescid	1 7	NOT REPORTED	PRETECTED	101 REPORTED	UNE TECTED	UNE TECTED	SOE IECTED	OUE JECTED
			DOCUCLED	NOT REPORTED	59	MOETECTED	MARE LECTED	OUE TECTED
Acetonitri le	PETECIED	NOT REPORTED		NOT REPORTED	· 8	UGE TEETED	MOETECIED	det fectes
lesthylthisi Share	WETECTED OF THE TELEPOOR	NOT REPORTED	UMETECTED UMETECTED	NOT REPORTED	. 22	MOETECTED	MOETECIED	MAC TECTED
3-arthyl-2-propage		NOT REPORTED			j 2	MOETECTES	WOETECTED	TECTED
2, 3-Directily1-E-Hexanol Pontanoicatid;2-Hethy1-	WETECTED WETECTED	NOT REPORTED	UNCETECTED UNCETECTED	NOT REPORTED	1 3	MOETECIED	UGE TECTED	DE RECIED
	WETERIED	NOT REPORTED	LAGE TECTED	NOT REPORTED	1 51	UNGE TECTED	UMETECTED	des fectes
Henanoicació, il-Ethyl- Phosphoricáció, Iriethylester	AMELECIED .	NOT REPORTED	UNE TECTED	NOT REPORTED	1 7	DOETECIED	UME TECTED	ME TECTED
Densoicació, 4-11-lethylethyl1-	METECTED .	ADI AE PORTED	UNE PECTED	MOT REPORTED	j ė	UGE TECTED	UNC TECTED	JOE PECTED
Serios Cacles 4:11-recovered 11-	WETECTED	NOT REPORTED	UMETECTED	NOT REPURTED	UNETECTED	MARE LECTED	J 6	UNICE TECTED
Sincore" (1-Aniph)o(ph))-	WHE TECTED	NOT REPORTED	MELECIEN	NOT REPORTED	UNE TECTED	METECIED	1 12	METECTED
Dicyclot2.2.1 Theptar-z-ore, 1.7.7		NUI REPORTED		THE PERSON CO			•	,
-Iriakhil	WETELTED	NOT REPORTED	UNGE TECTED	NOT REPORTED	UNETECTED	WETECTED	1 6	UNEFECIEN
-trimenyt		HUI HETURICE	WEELELLES	POUR PROPERTY.			• •	

SURFACE WITER GURLITY CHRYTICAL RESULTS

	_						-	
Sample Location	· 5-1	5 -1	S- 2	S-2	S-3	S-J	9-4	S-4
Sample Code	30 101	SN 201 .	50 102	SN 585	Su 183	SN 203	91 194	SM 204
Inorganic Sample 0	10 00 73	ION 220	10 (6 72	IBM 221	10 00 25	18A 213	10 0026	100 S15
Organic Sample 0	D 2249	M 252	D 2250	ක ක	1 2257	SN 245	B 2254	M 244
Bate Sampled	06/31/04	12/13/84	0 0./31/0A	12/13/04	98/30/8 4	12/11/84	96/35/84	12/11/84
Bate Shipped	66/31/64	12/1 3/D A	06/31/84	12/13/84	66/30/6 4	12/12/84	98/38/8A	12/12/84
Rate Shipped	09/85/BA		09/05/04		03/05/0A		93/65/84	
North Bred	3K391L25221B	JM3713.252218	346918.822724	J4691 B. 022724	346401.817309	344001.017309	345734. 143191	34573A. [43]9]
East Grid	1850350. 123450	1858J70. 123490	1858675. 128219	1856675.128219	1050501.427646	1856581, 427646	1838539, 277212	1656539.277212
Pesticide	FINAL	PATEL THE MARKY	FINAL	PREL ENTHANY	FINE	PRELEXINARY	FIRE	PRELIGINARY .
	49/ 1	49/1	ug/l	ug/l	wg/1	ug/1	49/1	9/1
Beta-DE	. UNETECTED	UNE TECTED	1.946	DOE TECTED	REACTED.	WETELTED	EXCIT	UNETECTED
Endoselfan 1	DOETELED	7.000	UNE TECTED	WETECTED	(EXCIE)	1.90	EACTED	UNETECTED
Endoselfan Belfate	MOETECTED	1.000	UMETECTED	LOGIE TECTED	REJECTED.	METECIED	REJECTED .	001.5
heptachler	0.006	2.300	UNITE TECTED	WHETECTED	REJECTED	UNETECTED	REJECTED.	PRETECTED
Alpha-DC	UNETECTED	PORTIECIED	DOETECTED	UNE TECTED	EXCIE	2.400	W.ACTED	USE TELTED
Same-BIC (Lindone)	WOETECTED	1,600	I 0.005	UNE TECTED	REACTED .	5.100	E.ECIED	1.600
PC3-125A	UNETECTED	OCCIECIED	UMETECTED	UGETECTED	RE RECTED	WETELTED	E ECTED	- UGETECTED
Belta-BC	WOETECTED	DOETELTED	UNETECTED	UNCE TECTED	REACTED .	OCETELIED	(EJEETE)	1.700
Aldria	WOETECTED	6.100	MOETECTED	UGE TECTED	R ACTED	MOETECTED	REJECTED	MAETECIED
Hestachter Esseside	OCETECTED	WETELED	MOSETECTED	DEFIECTED	(E.EETED	UNETECTED	EJECTED	0.500
Dieldrin	MORE RECTED	DEFECTED	USE TECTES	UCETETED	REJECTED	METECTED	E ECTED	MANE TECTED
4.4'-88	OCCIECTED	5.199	# B.025	CHISHIBO	REJECTED .	2.00	EECTED	DETELLO
Endrin	UMETECTED	SOCIECIES	UGE TECTED	UGE TECTED	RECIED	DOETECTED	EXCIED	1.100
Endosalfan II	GOETELTED	15.400	USE RECTED	UNETEETED	EXCID	WETECHES	EECIE)	GERCIES
4.4*-100	UNETECTED	14.500	K 0.010	UNE PECTED	REACTED .	METER	REACKED.	WOE TECTED
4.4'-801	BOETECTED	DOETECTED	MOETECTED	LAMETECTED	REJECTED .	METELED	EJECTED .	1.400
Alpha Endroelfan	DETECTED	MOETECTED	R 8.005	MOETECTED	(ELECTED	WAETECTED	REJECTED	WETECTED
VENTATIVELY INENTIFIED COPPOSES	FINAL	PREL MININGY	FM A L	PRET DITIONALA	FINAL	PREL INCOMEY	FINA	FIEL INTIMEY
		4 /1	44/1	4/I	wg/1	m/1	ug/l	w/I
	7.	7.	₩.		-g	Ψ.	•••	
Furan, Tetranlıydre-	J 91	HOT REPORTED	UMETEETED	HOT REPORTED	WESTECTED	WAETECTED	J 37	UNDETECTED
Benzene, Hethyl-	J 220	HOT REPUBLIED	WESTECTED	HOT REPORTED	DUETECTED	MAETECTED	DEFECTED	MOETECTED
Denreuseest icarid	MOETELYED	ACT CEPCONED	UGE TECTED	HOT REPORTED	1 33	DOSETECTED	DOCTECTED	MOETECTED
Ethere, 1,2-Bis 12-Chloresthony1-	WOETECTED	NOT REPORTED	WESTECTED	HOT GEFORTED	J 399	DOETECTED) (00	WOETECTED
tenesse, ethyl-	WORTECTED	HOT REPORTED	WOE RECTED	HOT REPORTED	J 29	MORETECTED	MOETECTED	UNETECTED
Unknown	J 14	· NOT REPORTED	MORETECTED	HOT GEFORTED	J 29	WATERCHED	1 97	ESTOST SDO
things.	jû	HOT REPORTED	UNDE TECTED	NOT REPORTED	J 31	METECTED	J 469	WESTECTED
Minimum	J 12	HOT REPORTED	WEETECTED	NUT REPORTED	1 6	WASE TECTED	· 1 200	UGE TECTED
Universe	J K	HOT REPORTED	UMETEETED	NOT REPORTED	J 11	MAETECTED	J 129	LIMIE RECTED
thickness .	J 13	NOT REPORTED	DOE LECLED	NOT REPORTED	1 22	WHETECTED	J	DOE TECTED
(Information)	J 51	HOT REPORTED	· UNE TECTED	NOT REPORTED	UNETECTED	MOETECIED	J 31	WETECTED
Melancian	J 39	NOT REPORTED	USETECTED	HO! REPORTED	UMETECTED	MORETECTED	J .8	MOETECTED
Unknown	DOCTECTED	HOT REPORTED	UNIX TECTED	HOT REPORTED	WESTECTED	MOETECTED	J R	UNDE VECTED
Unincum	UNDE TECTED	HAT REPORTED	UNE TECTED	NOT REPORTED	LAGE TECTED	WETECTED	J S	UMETECTED
Vrincum	MOETELTED	HOT REPORTED	UNETECTED	NOT REPORTED	MOETECTED	MOETECTED	J 5	LIMETECTED
Shinoun	UGE IECTED	NOT REPORTED	UNIX TECTED	NOT REPORTED	UGE TECTED	MODETECTED	J 18	UNGE TECTED
Wheen	MOETECTED	HOT REPORTED	LINGE PECTED	HOT REPORTED	CONTROLL	MORTECTED	1 2	UMETECTED
Urbness Hydrácarban	J 47	HOT REPORTED	UNE TECTED	NOT REPORTED	WOETECTED	UNETECTED	WETECTED	UNDETECTED
sylene	··· UGETECTE)	IGT REPORTED	UNE RECIED	NOT REPORTED	1077	1079	WASE TECTED	135
rylene	UNITE RECITED	IOI REPORTED	UNE TECTES	NOT REPORTED	592	582	LINGE TECTED	47
1-arthy lethy I hancove	OGETECTED	NOT REPORTED	UME TECTED	NOT REPORTED	MARTECTED	MOTECTED	J 20	UNETECTED
f-Proposal	J 10	NOT REPUBLIED		NOT REPORTED	. 3	UNETECTED	UNCTECTED	LIMIE TECTED
5 							J 200	UNE TECTED
digethoryanthane	BOETECTED	HOT REPORTED .	UPDE TECTED	HOT REPORTED	MOETECTED	UNDETECTED	, (-	· UMCIECIES

SUFFICE WHEN OUR IT HOLVIOR RESETS

.a :					THE RESULTS			
Saple Jecotion	5- 1	5-1	S-2	S-2	S-3	9-3	S-4	, 9 -4
Subtr tota	SM 184	20 501	9116	200 SAS	9# 103	SN 503	SH 10A	p i 204
Indigate Sample 8	10 0073	100 220	18 6572	188 221	10 0025	1 6 0 213	10 0020	के शर
Organic Sample 1	D 2249 ·	IN 252 ,	1 2230	M 253	1 2257	M 245	D 825A	M 244
Both Timpled	00/31/0 0	12/13/00	99/31/94	12/13/04	66/39/84	12/11/04	99/39/94	IZ/11/04
Both Mipped	60/31/64	15/13/ 8	99/31/84	12/13/04	99/39/94	12/12/04	99/39/94	R/12/84
Bat) Dipped	85/85/8 4	ik.	09/05/0 4		🥞 99/65/M	4	99/85/84	200
North (fild	36393.832218	3457B.25270	34691 B. B22724	34571 B. B22724	3[6001.817399	316001.017(09)	345 734, 143191	345734 , 143191
Casi trid	1 13030. 123490	1850370. 125490	1856675. 128219	1050675. 120219	1856581.427646	183631.42 KA	18585379. 277212	1000039.277212
under (C)								
				•	•	; ·		
will is	F110L	PAR BUILDAY	FINEL	PREZ INTERNATY	FINE	PER INTERNIT	FINAL	POR INTIONY
	4/1	w/1	wg/l	wy/1	49/1	49/1	9/1	49/1
	t '5		1007-177-1770	ton Contra	*********		• •	-
ch Eiroffnanne ch Eiroffaro		ICH EPHILES	UNETECTED UNETECTED	IOT REPORTED IOT REPORTED	UNETECTED UNETECTED	DESTRUCTION OF THE PARTY OF THE	15	3
	WHETETED	भग व्यक्तिती				not little	MAETECTED	METECTED
1, 1-tichlereathere	5		UNIE TECTED	HOT REPORTED	2		MACTECTED	UNETECTED
1, 1/2-Grichlereethere 1, 1416hlereethere	MACHETED GLIESTED	HET REPORTED	LOCE TECTED	NOT REPORTED	WE TECTED K 5	SOUTH THE	UNCETECTED	COCCUED
		ICH ETANES	ANE LECTED	MOT REPORTED	WETELTED	See HE HE	DOCTOTED	UMETECTED
mthylifio chloride activit	NEJECTED .		-	HOT REPORTED	WE TELTED		REJECTED .	12
trate-li 2-dichloresthese	\$30	HOT REPORTED HOT REPORTED	UNETECTED UNETECTED	IOI REPORTED	SOC LECTED		. 151 VOE TECTED	UNDETECTED
1.2-dichloresthere		IN COME				ver fil its		
	BORTECTED	MAI MERMINER	UNIETECTED		MOETECTED			UNDE TECTED
1, 2-dithloropropore	1 10		· LOGETECTED	NOT REPORTED	UNETECTED	une fecilis	PORTECTED	UNGE TECTED
I, I, I-trichleresthese	DOETECTED	ioi sejanto	LOGETECTED	HOT REPORTED	· 18	UNE HERE	DOE TECTED	DOCTECTED
1, 1, 2, 8-totach loresthese	WEETETED		LOGIE TECTED	ICT REPORTED	GETTSTED	OOERERD	UMETECTED K 10	COME TECTED
chitrothere	DOETECTED	NOT REPORTED NOT REPORTED	UNETECTED	HOT REPORTED	DOCTECTED	unc recita		UNETECTED
trith prorthers	WOETECTED		K 5.	NOT REPORTED	URETECTED	une te ita	OCCUECTED	USE TECTED
vial theria	DOETECTED	OF ANTANES	E.ECIED	NOT REPORTED NOT REPORTED	UNETECTED 412	B, J 2160	VOCETECTED	UMETECTED 1 325
belieft 4-ditigli-2-pertarana	DOETECIEN	NUT REPORTED	WHE TECTED UNDER TECTED	NOT REPORTED	UNCTECTED	J : 487	39	101
(Idealrich loresthere	91 1 10		UGETECTED	NOT REPORTED	UNETECTED	DOE TELTED	SOCIECIED	BOOKTECTED
tofractionarthers	1 3		1 5	NOT REPORTED	DELIEUE	UNETERN	WOETECTED	UNETECTED
loidid	'n		UNETECTED	NOT REPORTED	300	1 1916	S S S S S S S S S S S S S S S S S S S	3 66
2- tot alone	50 50		(EJECTE)	IGI EFRIED	8	was feel to	CHITH.	UNIETECTED
2-	7		UNE PECTED	NOT REPORTED	UNETECTED	DOETELED	METECTED	UNE TECTED
ethrikheme		HOT REPORTED	UNETECTED	ICT REPORTED	120	BOETECTED	R	120
Total Rylenes	iii	NOT REPORTED	UME TECTED	NOT REPORTED	310	1 240	· ·	644
Sullegiatile	****	PRES INTERNATION	FIME	PRET INTIMARY	FIME	PREZ THEORY	FINEL	PHEL INTHINY
200140192116	FINEL				ug/I	q/1	4/1	4 /1
4× %	49/1	49/ 1	49/1	ug/i		24.00	Ψ.	-in
2, Fainthy Island	ELECTED	AUT OFFICE	UNETECTED	INT REPRITED	REJECTED	DES. (EC.)	TERCTED	LOGETEETED
Rebal	R.JELTED	NOT REPORTED	WESTECTED	HOT REPORTED	RE JECTED	une fected	REJECTED	UNCETECTED
bitte thlorestly lighter	MOETECTED	not defaulten	UNE TECTED	HOT REPORTED	ME ACTED	100	540	365
1, 4-dichlorobenzone	WETELTED	NOT REPORTED	UNIETECTED	NOT REPORTED	REJECTED	BOUTER	13	UNETECTED
Bolayi Alcohol	MAETECTED	IOT REPORTED	UNDETECTED	NUT REPORTED	EXCITE	MAETELIED	METECTED	UNETECTED
I, 2-Dichlerobencone	UMBETECTED	NUT REPUBLED	UGE TECTED	HOT REPORTED	RECTED	Sta	UMETECTED	LOGETECTED
4-figliphenol	EJECTED	IOT REPUBLED	UNETECTED	HUT REPORTED	. NEJECTED	180	TE JECTED	UNCETECTED
Indiana	WOETECTED	INT REPORTED	UNCETECTED	INT REPORTED	NE JECTED	. \$ 75	38	70
2-lielly leterol	EJECTED	NOT REPORTED	UNCETECTED	IGT REPORTED	M.H.CIED	weterten	EXCITO	LAGE TECTED
Beligist Acid	RECTED	HOT REPORTED	UMETECTED	HOT REPORTED	M HCTED	(00)	EXCITO	LAGE TECTED
Bi to Edvighthelate	R 10	IOI REPUBLE	UNCETECIED	NOT REPORTED	REJECTED	nac jec je d	LOCKETECTED	UNITE TECTED
Pig (S-Ethy theory) Mythal ate	Ř 10	HOT REPUBLIED	MACTECIES	MI EMITE	E ACIES	westectes	31	LOGE TECTED
Di-n-Octyl Phtholate	DOCTECTED	NOT REPORTED	MAETECTED	NOT REPORTED	ME ACCIED	unac fet fen	UNITE TECTED	UNCETECTED
nihihilme		NOT REPORTED	UNCETECTED	NOT REPORTED	R ACTED	33	39	UNITE TECTED
diethyl phthalate	10 Harnitia	NOT REPORTED	UNDETECTED	NOT REPORTED	MENECIED	UNCETECTED	· UNDETECTED	UNCETECTED
aistukt birnaigra	WAETECTED	MUI METUMILE	Date (FELD)					

SUFFACE WHILE OUR IN MARYITON RESULTS

Sample Location Sample Code	5-1 50 181	9-1 \$1 201	5-2 51 162	5-2 94 202	5-3 94 103	5-3 5u 203	5-4 Su 164	S-4 91 204
		ION 220	10 40 72	100 221	10 0025	188 213	10 4626	10A 212
Inorganic Sample 6	10 0073	M 252	D 2250	M 23	0 2257	IM 245	D 2254	M 244
Organic Sample 0	B 2249	12/13/ 9 4	08/31/8A	12/13/04	00/30/84	12/11/84	00/30/04	12/11/84
Bate Sampled	00/31/94		68/31/84	12/13/84	98/39/84	12/12/04	66/39/8 4	12/12/04
Bate Snipped	66/31/84	12/13/04	43/85/84	(2,13,4)	93/65/8A		03/05/0A	
Bate Shipped	09/05/04	******	346318.822724	346918. 822724	34601.817309	346801, 817389	345734, 143191	345734, 143191
North Grid	346593.252210	34593.252218	1050675, 120219	18566.75, 128219	1856581, 427646	1856581.427646	1050539.277212	1856539.277212
East Grid	1858390, 123498	1858398, 123498	18380/3r 1cmc+/	Japan Kari		V		•
FIELD PROPERTY		•					•	
	_		5	10	19-29	NOT NEARINED	1-2	NOT HERBURED
Flow (gpm)		10-15	18.5	14.5	22.59	7.5	ä	10
Temp. (Celsius)	æ	16	18.5 6.4	7.6	6.30	1.2	7.29	7.09
PAR	5.%	5. 17 1300	120	160	3.20	1370	7200	1650
Specific Conductivity (unho/cm)	1599	1.500	ICU			52.0		
	C 1 1111	Fin a l	FINAL	FINAL	FINE	FINAL.	FIRE	FROL
INCHEMICS	F110L ug/1	ug/I	ug/1	. ug/l	09/1	49/1	ug/l	ug/l
•	-	11500	1045	LOGE TECTED	973500	o 220000	34020	12100
Alwinds	312	METECTED	LAMETECTED	MAETECIED	41	WETECTED	MOETECTED	UNIE TECTED
And isseny	UNE TECTED	LIME TECTED	17	UMETECTED	115	# 536	145	E 200
Arsenic	10 200	MAETECTED	LINGETECTED	UNCETECTED	2785	UMETECTED	650	MAETECTED
Bartus		UNE TECTED	UNCETECTED	MOETECIED	ន	21	RE JECTED	UNETECTED
Beryllian	MOETELTED	COME TECTED	DOE TECTED	MAE LECLED	142	•	UNE TECTED	UNE TECTED
Cadei un	UNGETECTED NOT REPORTED	70000	HOT REPORTED	20000	NOT REPORTED	95000	INT REPORTED	40000
Calcius		DOETECIED	UNE TECTED	UMETELTED	35740	220	264	100
Chroman	23	Mar istrica	UME TECTED	THUSE LECTED	1950	830	UGETECTED	UNITETECTED
Cobalt	MOETECTED	UME TECTED	UME TECTED	METELTED	2000	410	METECTED	UMETECTED
Copper	UNCE TECTED	122006	12750	4250	1143000	225000	[67000	126000
· Iran	97850	MAETECLES	16130	DOE TECTED	1000	. 5 3	73	\$ 16
Lead	9	UNE TECTED	UNCETECTED	MAETECTED	MAETECTED	220	22	10
Cyanide	WAE TECTED	10000 S0000	NOT REPORTED	METECIED	NOT REPORTED	55,000	INT REPORTED	73000
Ragnestub	NOT REPORTED	3400	104	4	1960	2199	350	330
Ranganese	1390	METECIED	UME TECTED	METECTED	MMETECTED	UNE TECTED	METECTED	MOETECTED
Recury	CHITTEDER		LOGETECTED	LOGGE TECTED	. 15760	17000	as a s	u
Hickel .	POETECIED	1070	NOT REPORTED	LOGE TECTED	NOT REPORTED	[20000	HOT REPORTED	53000
Potassian	NOT REPORTED	,,,,,	UNDETECTED	LINCE TECTED	5	MOETECTED	3	METECTED
Selenium	MAETECTER	UNCTECTED UNCETECTED	UNE TECTED	UNGE TECTED	UME TECTED	MOETECIED	UNE TECTED	METECTED
Silver	UNCETECTED	909995 Marietien	NOT REPORTED	UNCE TEETED	NOT REPORTED	652000	HOT REPORTED	05.1900
Sofium	NOT REPORTED		UNGE TECTES	UNE TELTED	METECTER	WETECTED	UNITE TECTED	METECTED
The lites	UNGETECTED	UPBETECTED II 170		UNICE TECTED	tage lectes	UME TECTED	· UNETECTED	
Tin	MOETECTED			DOE TECTED	307	UMETECTED	207	
Vanadiso .	UNCE TECTED	UNGE TECTED		UNIC TECTED	12705		220	
line	REJECTED	350					NOT REPORTED	NOT REPORTED
Percent Solids	NOT REPORTED	NET REPORTED		MUI WE PORTER				

SAFETE WINES CHET ILL SERLIS

			•				C-7	C-7
idole Lecation	E-4	€-4	C-S	C-5	C-6	C-6		CN 287
Libelo Cado	CD 104	CH 284 ·	CD) 165	CD1 285	OI 166	CN 506	CM 107	CO EO
table case								
2	10. 5017	100 210	10 0010	100 228 ··	10 MS	10A 229	10 067	10A 239
idromic Cambo I		m 545	9 3271	M 260	9 2%	m 261	1 286	BU 585
Mjanic Samle 0	D 275	12/11/04	98/27/99	12/12/04	88/27/84	12/12/04	80/27/84	12/12/04
iffe Saspled	00/25/04		60/59/94 ·	12/13/04	60/25/84	12/13/04	88/28/8 4	15/13/04
life Shipped	60/25/64	12/12/04		22, 15, 0.	09/05/0A	*,	03/05/04	
Nic Shipped	63/65/8A	- E	93/85/04	34327. TS4200	343166.015740	302155.015740	MESS. BULL	NEW BERTS
airth Brid	J45301.420006	35301.6200K	343627.9563 9 0	1651247. 794224	1851042.875602	1851042, 075602	1851 191. 528 34	1851191.520154
in orid	1839630, 013005	1836.30. 81.30K	1851247. 794224	IBIGI. MCC	10714-519-1	,0017121010000		
6 5					•			
DEPONES .	•			•				
• ************************************		á á			****	FIEL THIMMY	FINE	POET. ENEXABLY
wild the	FINEL	FOEL INCOME	FIME	PRED_ENTERPRE	FIMIL	ep/i	w/l	w/I
- 	ug/1	wy/L	ug/l	wy/i	wy/l	₩.		•
di di	-		12.00	NOT WEFORTED	MORTECTED	HOT REPORTED	van Erib.	HOT REPORTED
dilerebaneone	POETELTED	INT IEFUTED	DOLLETE		METECTED	IN EPHIED	net (t. ip	NUT REPORTED
diareters	MOETERED	WHETERTED	PRESENT	NOT REPORTED		HOT HEADERED	DOE ELTE	INT REPORTED
lil-dichleresthere	MOETECTED	WHETETED	AND LEGIED	NOT REPORTED	MOETECTED	HAT EPHINE)	DOC BEIND	IN EPHILE
1; 1,2-tricklereethese	MOCRETED	WESTELLED	CONTRACTOR	NOT REPORTED	GOETECTED		was fit to	INT IEFORTED
II I-qicylarqidana	MOETERIT	MATTERE	UNE PEET P	HET SE FORTED	MAETECTED			INT GUARTE
The state of the s	METECRED	METECTED	MOEFECIED	ICT TEPRITED	LOCAL TECTED			INTERPRETED
dithylene chlorids	DOE TECHED	MAETELTED	DOE TECTED	IOT REPORTED	WOETECTED	IDT REPORTED	WE FEE	HOT REPORTES
Beton	OCETECIED .	WOETECTED	uar fet te	NOT REPORTED	UNETECTED	NOT REPORTED	OCCUPATION OF THE PARTY OF THE	
fram-1,2-dichleresther	#	UNETECTED	use fet its	INT EPHILIP	MOETECTED	ICT REPORTED		INT REPORTED
fi2-dichleresthere	DOCTECTED		une lecto	NOT REPORTED	UNETECTED	HET REPORTED	ACCÉTÉD	NOT REPORTED
1,2-dichloroproport	MOMETECTED	WESTELTED	was terito	MET REPORTED	WOETECTED	INT REPORTED	wee brits	INT REPORTED
il. 1-trichleresthese	INDETECTED	DOETECTED	DOE VELTED	ADI GERGRIED	DOETECTED	INT REPORTED	DOETECTED	INT REPORTED
1,2,2-tetachlerestham	LOGE TECTED	METELED		•	REACTED .	HOT REPORTED	E RETED	HOT REPORTED
chloresthane	NEJECTED	WHE TECTED	ERTH	HOT REPORTED		NOT REPORTED	MERCHO	HOT REPORTED
Fighlerethere	MOETECTED	MOETECTED	POLÍTE P	NOT REPORTED	DOETECTED		s kch	INT REPORTE
	E.ECTED	MARKETECTED	EECHD	NOT REPORTED	EJECTED	NOT REPORTED	EATED	MI SEPORTE
gingl chloride	EEEE	J.0 2	EXCE	NOT REPORTED	NE JECTED	NOT REPORTED	EEED	MET REPORTE
Genzene		MORTETED	MANE RECTED	NOT REPORTED	MOETECTED	NOT REPORTED		
f-withyl-2-parteness	WOETELTED.	UGETETE)	UNEVELTED	ADS REPORTED	UGETECTED	INT REPORTED	mariteta	101 IEPONE
(Insretrick) oresettens	WEETELTED		une et la	WET REPORTED	MONETECTED	IOI REPORTED	um techn	IOT REPORTE
letrachleresthene	MOETECIED	METECTED	und rectes	NOT REPORTED	WOETELTED	HOT REPORTED	MOE JECHD	NOT REPORTE
folume	UMETECTED	MOETETED		NOT REPORTED	MOETECTED	MOT REPORTED	unclet (t)	NOT REPORTE
t-but enone	WOETECTED	MODERECTED	MACHECKED		DOETECTED	NUT REPORTED	MOEFECED	. NOT REPORTE
È-benamere	POETECTED	WETECTED	UNITECTED	IOI REPORTED	MOELECIED	NOT REPORTED	porterto voctetes	HOT REPORTED
Othylbenzone	MOETECTED	MOETECTED	und lected	HOT REPUBLIED		MIT REPORTED	une fectes	. IN REPORTE
Total Hylones	MOETECTED	MAETELTED	unttected	NOT REPORTED	WETECTED			
				PRES. INCLIDERY	FINAL	PRES THE WARM	FINAL	PRET INCIDENA
Ženivolst i le	FINL	MET INCHES	FIME.		ug/1	49/1	wg/l	- ₩/1
	الوب	49/1	wy/l	49/1	₩.	•	- A	
	· .		-		WOETECTED	ICT EPHIED	NOT BEEN	. INT REPUBLIE
E. 4-disuthy lphonel	DOETECTED	UNERCTED	CHECKED .	INT REPORTED		IOT REPORTED	voeteste	IN EPHILE
Served .	UNETECTED	MORETECTED	wat techen	IOI REPORTED			vo(EE ED	INT CEPTITE
	MOETECTE	MODETECTED	UNE RECTED	HOT REPORTED			voltected	MOT REPORTE
bist2-chloraethyllathar	MORETELTED	WOETELTED	PORTECTED	NOT REPORTED	UNETECTED	NUT REPORTED	حماد عادما	NOT REPORTE
1,4-dichlorobanzone		UNE RECTED	-	HOT REPORTED	METELTEN	HET REPORTED		ICI EPRIT
Bunryl Alcohol	MOETECIE			NOT REPORTED	UNIETECTED	INT REPORTED		IOT REPORTS
1,2-Dichlorobensons	UNETECTED	WOETELTED				NOT REPORTED	THE RESERVE	
4-Mathy Laboraci	MOELECUE	MOR JECTED				NOT REPORTED	VOLTECTED	HOT REPORTE
Ingherene	MAEJECIE		A			INT REPUBLIES	uni elie	IOI REPORT
2-egthylphonol	. WOETELTER	UNKTECTED	UNE PETED			NOT REPORTED	LECTO	HO! REPORTE
Benzoic Acid	(EJECTE)	MOETECTED	LOURTEETED			HOT REPORTED		HET REPORTE
	. WOETECTE!		ude teried				وماعد ف	NOT REPORT
Di-a Dutylphthalate	RE RECTER	MATEURI		NOT REPORTED		NOT REPORTED		NOT REPORT
bis (2-Ethylhenyl) Phthålatë			محقد الشاري) WHETECTED		حسافت فسرر	
Bi-w-Octyl Phthelate	MOETECTES					NOT REPORTED		·-·
neglithaleve	UNETECTE						, untretten	NOT REPORT
	UNGE TECTEÑ) UNDETECTED						

METER KNOES FIND-IT

				· ·				
Sample Location Sample Code	C-4 CH 184	C-4 DI 204	C-5 CN 165	C-5 DJ 265	C-6 CH 166	C-6 DI 2 6 6	C-7 CH 107	C-7 Cu 207
Inorganic Sample 0	10 0017	100 Z10	10 10 10	100 · 228	10 0057	HBA 229	10 0057	100 230
Branic Samle 9	0.275	245 UK	0 271	935 MB	1 2%	M &1	9 286	M SE
Bate Semiled	90/25/94	12/11/04	08/27/84	12/12/04	60/27/84	12/12/04	98/27/9A	12/12/94
Bate Shipped	60/23/84	12/12/94	00/29/84	12/13/84	08/28/84	12/13/04	98/29/84	12/13/84
Bate Shipped	99/65/84	10.10.1	09/05/84		09/05/0A	12713-01	03/05/84	10.13.07
North Grid	345301,620006	345301.620006	3A3627, 956200	3A3627.956200	343166. 015740	343166, 015740	MESS BY CL	34256. DELLE
East Grid	1850638.813006	1050630, 013006	1651247. 734224	1851247. 794224	1051042.075602	1051042.875502	1651191.528154	1851191.520154
FIELD PRODUCTERS								
Flow (age)	2700	500	1800	NOT HEAGURED	500	NOT HERSURED	1800	4500
Tem. (Celsius)	19.5		19.5	7.0	2.53	3.5	13.25	1.2
	6.76	7.09	6.65	6.79	6.14	6.91	NOT HERSURED	6.60
Specific Conductivity (unho/cm)	210	125	142	12		52	140	95
Managemics	FINAL	FIIOL	FINAL	FINAL	FINAL	FINAL	FINAL	FINAL
•	49/ I	49/1	wg/1	ug/l	ug/1	wg/1	ug/1	99/1
Alanima	WOETECTED	MANE PECTED	MAETECTED	UNGE TECTED	LAGETECTED	WETECTED	WE TECTED	UME TECTED
Port impray	DOETECTED	WHETECTED	UME TECTED	INCE TECTED	UNBETECTED	UME TECTED	UNITETECTED	UNE TECTED
Arsonic	MORTECTED	UNETECTED	UNE TECTED	UNDETECTED	SOMETECTED	UNGETECTED	UNCETECTED	UME TECTED
Berien	WAETECTED	WOETECTED	UNGETECTED	METECTED	LAGE TECTED	UNIE TECTED	METECTED	MAETECTED
Peryllius	REJECTED	UNETECTED	UNETECTED	UNETECTED	MOETECIED	MOETECTED	DOCTECTED	METECTED
Cadanus	LIGHE RECITED	WOETECTED	UNETECTED	UMETECTED	LAME TECTED	MOETECTED	OGE TECTED	DETECTED
Calcius	NOT REPORTED	15000	NOT REPORTED	15000	NOT REPORTED	(404)	NOT REPORTED	15000
Drenies	UNE TECTED	MAETECTED	UNETECTED	UNETECTED	LAGE LECTED	METECIED	UNAE TECTED	UMETECTED
Cobalt	MAETECTED	UNIE TECTED	UNDE TECTED	(DICETECIE)	UNICTECTED	UGETECTED	UNITE TECT IED	UNTETECTED
Copper	ude lecien	MOETECTED	(JAME TECTED	UME IECTED	UNDE TECTED	METECIED	UNGE TECTED	6312313040
Iren	4420	2400	2250	6.00	(EITSLE)	196	ther lected	1850 WAETEC:ED
Lead	UNE TECTED	CHICATOR	COME TECTED	UNITE TECTED	UNETECTED	UNIETECTED	OGE LECTED	UME TECTED
Cyanide	MOETECTED	(ETTOSTEDE)	UNDETECTED NOT REPORTED	UGE TECTED	UNBETECTED NOT REPORTED	METECIED	IN REPORTED	ORETECTED
Ragness on	NOT REPORTED	UNGETECTED 150	AUI REPURIES	WHE IELIEF	NUI REPUBLEM	70	6	CHIEFE TECTED
Ranganese Rancury	CONTRIBUTED 1773	MOETECTED	UNGETECTED	UNCE TECTED	UNGE : ECTED	UME TECTED	UNSETECTED	UNETECTED
Riche!	DOCTECTED	WEETECIED	UNIX TECTED	METECTED	DELECTED.	MOETECIED	UNACTECTED	UCETECIES
Potassian	INT REPORTED	(4000)	MBI REPORTED	[4000]	NOT REPORTED	(3000)	CONTRACTION	(1000)
Selenius	MOETECIED	METECIED	UME TECTED	UMETECTED	CONTRACTOR	DOE LECTED	UNION TECTED	METECIEN
Silver	UNITE TECTED	WOETECTED	LIMIE RECTED	UMETECTED	MAETECIES	MELECIED	METECIED	UMETECIED
Selice	NOT REPORTED	UME TECTED	NET REPORTED	UNICETECTED	NOT REPORTED	POETECIES	NOT REPORTED	UMETECTED
Thellium	LAGE TECTED	UNCETECTED	UNGE JECIED	UNCETECTED	UNDE IECTED	DOETECIES	UARE :EC ED	UNDE TECTED
Tip	MOETECIED	UNE TECTED	DOE LECTED	1 200	LPGE TECTED	R 170	UNCETECTED	UNETECTED
Vanadius	UME TECTED	MONETECTED	UME TECTED	MARTECTED	UNEFIECTED	UNCETECIED	UNE TECTED	UNDE TECTED
line	ME AECIED	20	CHICAL DE	60	" WEETECTED	[10]	REJECTED	
Percent Solids	NOT REPORTED	HOT REPORTED	NOT REPORTED	MOI REPORTED	NOT REPORTED	NOT REPORTED	NOT REPOR ED	NOT REPORTED

SHARE RUIES CHI LIA MONALIDE MENT IS

Saple Location Saple Code	C-4 CH 104	E-4 00 884	C-5 Cu 165	C-5 CN 845	C-6 CH 186	6-5 205 ND	C-7 CM 187	C-7 CN 287
Impresie Samle 8	10 1017	MB 210	10 0010	100 220	10 0051	III) 229	10 0057	ISA 230
Organic Sample 8	D 275	DD 242	B 3211	M 260	0 2K	m &1	B 3286	M 262
like Sampled	60/25/00	12/11/04	96/27/94	12/12/04	00/27/04	12/12/04	90/27/94	12/12/94
Dite Shipped	99/25/94	12/12/04	00/20/00	12/13/04	99/29/9A	12/13/04	10/25/04	12/13/04
lifte Shipped	09/45/04	Á	93/85/94		95/65/84	.2.	03/05/0A ₂₂	
Nijeth Grid Edst Grid	345301.620005 1030634.013005	3(530), (2006) 1(506,30, 0) 3(66)	34327, 952 30 1851217, 77 421	343627. 156200 1651247. 754224	343166.015740 1851042.075662	343166.015740 1851012.875662	34255, 8265E 1451191, 528734	34325E, 82662 1851 171, 528154
DE PRINCIES	FIME	FINAL	FINAL -	FINAL	FINAL	FINE	Final	FINA
	ug/l	49/1	9/i	49/1	49/1	49/ 1	49/1	1,127
 Živiė		2000	(13	2000	1000	12000		13000
Silate .	22900	27000		2,000	7500	13000		34000
Pitrate	1000	# 1200	en referres	1 (50)	16780	1 1600	2100	. R 1100
Granute	ADV REPORTED	INT REPORTED	INT REPORTED	HOT REPORTED	NOT REPORTED	IST EXTREM	an effeite	WET GEFORTED
(Scortunate	HAT RETURNED	IDI REPUTED	NOT REPORTED	NOT REPORTED	HAT REPORTED	HOT REPORTED	INT IEPATA	HAT REPORTED
∯s ·	135000	NOT REPORTED	i i i i i i i i i i i i i i i i i i i	IOT REPORTED	4000	HOT REPORTED		HOT REPORTED
) c	7500	ELECTED		173000	4000	MEJECTED		EJETE
ļo	EJECTED	EEEE	E ECTO	REJECTED	REJECTED	MEJECTED	E Etch	EETB
.	17300	11000	DOEFFERD	71,3000	LOGETECTED	11000	<i>ై</i> (1)	MODE TECTED
Mulialty, phi	IOI REPORTED	IN EXITED	chine a ton	HOT REPORTED	NOT REPORTED	NOT REPORTED	an einige	INT REPORTED
Mulisty Coll	INT REPORTED	NET REPORTED	iai esinita	NOT REPORTED	NOT REPORTED	NOT REPORTED	IN CENTED	MET REPORTED
that inity, hydranide	IOF EPHIED	HOT REPORTED	elinita ini	NOT REPORTED	NOT REPORTED	NOT REPORTED	INI CAND	IOI REPORTED
Boostorus, Istal	IN IEPHTED	EXERE	ini ichingi	WHETECTED	NOT REPORTED	EXCIE		EECTED
hania Lacras	WOETECTED	996	CORE PECTED	7500	1850	199		983
hifide	IN CONT.		ant argumen	HUT REPURTED	NUT REPORTED	NUT REPORTED		IN EPHIE
luoride Astrolous Hubracarbana	HOT REPURED	INT REPORTED	INT REPORTS	HOT REPORTED	HOT REPORTED	NOT REPORTED NOTE TELTED	and action(s)	ICH REPORTED MORE PECTED
196	UMETETED 14000	WOETECTED WAT REPUBLIED	out (t)	MARTECTED MAT REPORTED	UNICTECTED 7000	MI ENGES		MALTELIED MATERIALIED
etal P	152	HER BEAUTIES		ANT EPORTED	14	ACT REPORTED	74	NOT REPORTED
(FEE)		MET REPORTED	MACHELLES MIL MENTED	ICT EPONED		MIT MERCHIED		NOT REPORTED
	HOT PERGRED	HOT REPORTED	HOT HET MES	NOT REPORTED	NOT REPORTED	NOT REPORTED		INT EPRIED
pelfato, turbidientric	IDE SEMILE			NOT REPORTED	IOI EPRIED	MET GERORIED	101 10 101	
₹,4,0 (3 00	ADT ACTORIES		ACT ACTORNES	ADT REPORTED	NOT REPORTED	MIT REPORTED		INT EPONED
2,4,5 IP (Silver)	IOI EPINED	NOT REPORTED	HOT HE CONTEN	HOT REPORTED	OI EPHRED	MI ERRE		NOT REPORTED
Carbon organic	HOT EPONED	HOT REPORTED	MIT AFFINITED	IOI REPORTED	MIT REPORTED	MIT GERMIED	tor where	INT EXCITED
Polids, dissolved at 1882	NOT REPORTED	112000		200000	NOT REPORTED	10000	our actuality	176000
Middle, Despended	HOT REPORTED	METECTED	HOT REPORTED	114000	NOT REPORTED	MERCIED	nor netamen	E ECTED
Sacrific Contactores. EX.	NOT REPORTED	ACT REPORTED	estantes	MOT GERCOTED	NOT REPORTED	NOT REPORTED	astrotis rac	ICT REPORTED

HELEN KNOEN LOOF IL SUFFRE WITER GUILTY MOLYTICH RESILTS

Sample Location Sample Code	C-1 CH 180	C-1 CH 201	CH 1 0 5 C-5	, DI 585 C-5	C-2 (N 102 SLP.	C-2 CN 262 BUP.	C-3 DJ 103	C-3
Intranic Saple I	10 0021	18A 825	10 0014	100 225	10 tots	MBA 223	ND 6075	100 219
Brazzic Sample 0	D 3265	m 257	D 3203	BAS 64	B 3204	M 25	9 5240	M 251
Bote Sampled	99/27/9 4	12/12/04	99/27/94	12/12/04	99/27/94	12/12/84	00/31/04	12/12/04
Bute Shipped	68/29/94	12/13/04	MARZINIAN	12/13/84	00/20/04	12/13/94	80/31/84	12/13/04
Bate Shipped		•	89/85/84	•	03/05/8A		89/85/84	
Herth Brid	349159.263869	349139, 263869	347357. N2755	347357.042735	347351.042735	347357.042755	346769.00304S	346749.043045
East Grid	1045335.005981	1849335.866981	1050624, 000193	1859554, 999153	1858624,000193	1830624.000193	1050435, 045757	18504.25. 045757
TERRITIVELY INSPIRE CONTRACT	FIM	POER MINISTER	FINEL	PRES. EXTRACTOR	FINE	POER THE MANNEY	FIRE	PRES. EMERGRAY
	49/1	ug/1	wy/I	og/i	w /1	wg/1	49/ 1	4/1
4.41-arthylane bis shoul	OGETELTED	IN EXITED	MAETELIED	ICT SEPTETED		ICI ESCRE	OGETECTED	-
2-Present	2.0	HOT REPORTED	WOETECTED	NOT EPHINED	7.1	NOT REPORTED	1 1	ADT EPARTED
Non ortho sylane	16	MET MERCHTED	EMETECTED	HET EFORTED	15	NOT REPORTED	WORKELTED	INT SPORTED
CALSO	1.4	NOT REPORTED	UNIETECTED	NOT REPORTED	WESTECTED	NOT REPORTED	METELTED	IST REPORTED
Acetanido, II, II-Disathy	30	NOT REPORTED	WOETECTED	NOT REPORTED	WOETECTED	IOI REPORTED	UMETECTED	ICH REPUNTED
Innernalistic Acid	19	HOT REPORTED	WOETECTED	NOT REPORTED	MOETECTED	NOT REPORTED	WETECTED	INT REPORTED
Phonol, 4, 4' Rethyunbi s	7.2	HET REPORTED	LINE VECTED	HOT REPORTED	MOETECTED	ICI (EFCITE)	COLOREGIED	INT REPORTED
Myonadisic Acid, Disetyl Ester	11	NOT REPORTED	WESTELTED	NOT REPORTED	UNETECTED	HOT REPORTED	WEFECTED	IN REPORTED
Albert	MOETECTED	HUT HEPORTED	1.5	HOT REPORTED	UGETECTED	HOT REPORTED	MOETECTED	IN REPORTED
Albene	UNETECTED	HOT REPORTED	. 13	NOT REPORTED	UGETECTED	IDI CERMITED	WHETECTED	HOT REPORTED
1, 2-81s (2-Chloraethopy)Ethora	POETECTED	HOT REPORTED	143	NOT REPORTED	12	NOT REPORTED	J 140	NOT REPORTED
Diactylaster, Manusadioic Acid	MOETECTED	NOT REPORTED	- 11	HOT REPORTED	A.5	NOT REPORTED	DOETECTED	NOT REPORTED
9-Rct adocument de	EEEE	HOT REPORTED	31	HOT REPORTED	44	NOT REPORTED	WHETERTED	NOT REPORTED
Densolcarid, Wethy)	MMETECTED	NOT REPORTED	UNDETECTED	NOT REPORTED	18	HOT REPORTED	MAETECTED	NOT REPORTED
disethospeethere	POETECTED	HOT REPORTED	DOE RECIED	NOT REPORTED	DOETELTED	INT CHARED	1 80	NOT REPORTED
arthyloster of 2-butanoic acid	UNCETECTED	IOI REPORTED	UNDETECTED	NOT REPORTED	HARE TECTED	NOT REPORTED		NOT REPORTED
C5 alcohol	POE TELTED	INT REPORTED	UNETECIED	HOT REPORTED	DOETECTED	HOT REPORTED	1 9	HOT REPORTED
1, 3-dianthy linname	WETELTED	HAT REPORTED	WETECTED	NOT REPORTED	UNETECTED	HOT REPORTED	J 6	NOT REPORTED
3, 1, 5-Triesthyleyelohenenene	POETECTED	HAT REPUBLED	UNETECTED	· NOT REPORTED	WOETECTED	HOT REPORTED	1 12	HOT REPORTED
3, 3,5-Trianthyleyelehesenel	MOETECTED	HOT REPORTED	MMETECTED	NOT REPORTED	METECTED	NOT REPORTED	J 19	HOT REPORTED
1-Many lethenere	MOETECTED	HET HEPUTTED	WORTECTED	INT REPORTED	WOETECTED	NOT REPORTED	. J .2	NOT REPORTED
4-(1-arthylathyl)hansoic acid	MOETECTED	NOT REPORTED	13	HOT REPORTED	MOETECTED	NOT NEPORTED	DEFECTED	HOT REPORTED
CA 169	14	NOT REPORTED	UNETECTED	INT REPORTED	WOETECTED	NOT REPORTED	OGETECTED	IOT REPORTED
Telane	E7	HOT REPORTED	LOGIE TECTED	NOT REPORTED	UNIE TECTED	HOT REPORTED	WERETED	NOT REPORTED

SHEAR ANDER CHAFTE

et.							•	
Saible Lecetion	C-1	C-1	6-5	C-2	6-5	, C-5	£-3	C-3
Smile Code	in in	01 201	CM 185	CON 2002	CH 182 MP.	11 ag 110.	CD 163	DI 203
				, — —		7		C 04
Infiguric Samle I	10 CE21	225	10 MIA	MM 275	NO 8015	in 223	地 総 方	100 E19
Granic Samle 6	1 265	.m 57	B 1203	M 25	D 329A	M 25	1 24	M 21
Self Sarpled	19/27/0 4	S18100	00/27/0A	12/12/04	65/27/84	isusus.	66/31/6V	12/12/14
		2/13/04	80/20/04	12/13/04	60/20/04	12/13/M		
Doll Brigger	60/20/04	(6) (3)		, IC/ (3/ 4/		N/13/PA	68/31/84	12/13/04
Both Bipped		حديد كأنت	99/05/94		97/65/94	حجيب مناشعة	93/85/84	
mile bu	349139.253869	30157.25383	347357.04275	347357.042735	347357.042735	347357.042735	36769.0030C	J46769.003045
East Orld	1043255.006506	10/1355, 06/501	185624.0019	1858624.000133	1830524.000193	183624.00193	1859435, 045737	1030435.045757
Princip	FINAL		FINAL	PRED PREDICTIVE	FINAL	MED EMBERY	FINE	POER, INTRODUCE
	· up/1	49/1	49/1	49/1	44/1	49/1	4/ 1	49/1
•	•	•	S .	•		•	· .	4.
ski s t	MARTERIA	METERIED	UNETERE	CONTRETED	MAETECTED	MOETECRE	EEEE	ORTHERE)
Englantan 1	OCCIETE	MERCE	UNE TERTES	UNCETELIED	MOETECTED	8.60	at Street	WEETED
Endenifan Sulfate	OFFICED	PRETECTED	une refrei	METELTED	MORTECIED	WETELTED		MOETELIED
heitashler	DOETELED	MEED	UNE PER PER	METECTED	MOETEETED	MOETELED	R.ESTE	MOETEETED
	WEIELED		WEIE E	WETECTED	· WOETECTED	MAETELIED	E.Efe	DOETECTED
Aliga-BC			X				- 2	
Selle-IIC (Lindme)	MOELECLED	METERED	WHE TER TER	MAETECTED	MOETECTED	COMETECTED	E FIRE	WETELTED
10) 1831	WOETECTED	METETED	CONTRE	MATERIED	COMETECTED	MOETECTED	e.e.	MACTECIEN
90∯o-BC	OCCIECTED	8.400	UNE RETE	0,400	MOETECTED	. 0.300	EENS EES	0.100
Alfia	UNDETECTED	METER	DOCTOR	MORTELIED	MOETECTED	METECIED		OREIETE
Huffachler Esponide	MOETECTED	MAETECTED	LOOK HE TEL	UNIETECTED	MOETECTED	METEURE	EELE	· DEFECTED
Di di dria	MAETECTED	MAETELLED	MAETERE	PRETECTED	UNDETECTED	WESTECTED	EER	UNETECTED
4, 🖁 🚥	WOETECTED	UCETETED	DOE LEE'TE	COMETECTED	WOETECIED	DOETELTED	EEGE	PRETECTED
Emilia	WOETECTED	DOETECKED	VOETEŠÍE)	MORETECTED	UNIETECTED	UNETECTED	EEFE	WHETELTED
Enfoultee II	MOETECTED	WEIETED	DOCTECTED	0, 100	WOETECTED	0.100	R.EETE	PRETELIED
4, £-000	MOETECTED	MERETED	UNETERIE	METELTED	MORETECTED	WETETED	EHİH	WAETELTED
₹.001	DOCTECTED	WESTER	UNIE HEETED	UNETECTED	WOETELTED	MORETECTED	EFFE	UNETECTED
Olde Entreelfan	MOETECTED	METETED	MACTELIER	MODETECTED	MONETECTED	WETETED	NEJECTED .	WORTELTED
		· ·						
TEÄNTNELY ITENTIFIED CEÜVÜĞES	FINAL	odi menty	FINE	PRED_INTERRET	FINE	PIËL IMMOV	FHAL	PREL SHAMPEY
	-/I	4/1	49/ L -	m/l	44/1	49/1	w/ 1	49/ 1
	•	•	i.e.a.s				ينيخ رين	•
Etilian, 1, 2-Dist2-Chloresthonyl-	170	ANT CEPARTED	MERKE	MET GEFRETED	MOETELIED	IN EPHILED	BOOK TO THE	HUT REPORTED
Mariania	OGETECTED	INT CERTIFIED	WAE TELTED	MET MERCETED	U	HOT GERONED	DOETELTE	IN CONTEN
Hriftpolicacid Uniform Uniform Uniform Uniform Uniform Uniform	8	INT COURTED	5.1	HET REPORTED	ü	MAT MERCHAED		MIT REPORTED
2.46	MOETECIED	IOT REPORTED		MATERIAL SEPTIMENTED	Ĭ.	NOT REPORTED	METERIE	HOT HEPORTED
2			3	NOT REPORTED	165	IOT REPORTED	UNE TEL TE	INT INFORTED
	WETECTED		~7		METELTED	HAT REPORTED	BOETER	INT WHITE
Hillians	METECTED		5	NOT REPORTED			OR REAL	
I dian	MOETECTED	INT REPORTED		INT REPORTED	MOETELED		OUT THE TE	
Refiner Pleathery	8	HAT REPORTED	METERIE	HOT REPORTED	3	INT REPORTED		
Etino, I, I-esphis (2-chlefel	9.1	NOT NEPORTED	METELLE	HOT REPORTED	WETELTED	NOT REPORTED	DE FE	INT REPORTED
2-financi	93	HOT REPORTED	1	NOT REPURTED	77	NOT REPORTED	OUE TE TE	HAT REPORTED
Union Carbonylic Reid	DOETECTED	IOI REPORTED	IĮ.	NOT REPORTED	7.7	ACT REPORTED	OUTESTE	HOT REPORTED
Uniform Carbonylie Acid	METERE	NOT REPORTED	2.9	NOT REPORTED	UNETECTED	NOT REPORTED	WOETERTED	NOT REPORTED
Sificane	OCETECTED	NOT REPORTED	. 💥	NOT REPORTED	65	NOT REPORTED	UME TE TE	NOT REPORTED
2-finance	MOETECTED	ICT REPORTED	MORETEÉTED	HOT REPORTED	215	HOT REPORTED	MOETERIE	NOT REPORTED
Milion School	219	IGH CERCOHED	119	HOT REPURTED	DOETECTED	HOT REPORTED	WOETERTE	HOT REPORTED
Notice of the same	DOETECTED	IOI EFUNED	13	NOT REPORTED	73	ACT REPORTED	VOCTELIES	NOT REPORTED
	16	HOT REPORTED	, i	HOT REPORTED	ii	NOT REPORTED	WOETERTED	NOT REPORTED
2-fintanol, 4 firthyl			DOE RÉTES	MET REPORTED	MARTECRED	NOT REPORTED	LOGE TEÉ IES	HOT REPORTED
tidium Misre		NOT REPORTED	8.7	MOT REPORTED	WETELTED	NOT REPORTED	METELTED	HOT REPURTED
eylene	WOETELIED	NOT REPORTED	5.7					
•								

NEVEN KNIER CHAFTA WAS ALLOW WEST 12

		• •						
Sample Location	C-1	t-1	C-2	C-5	6-5		C-3	C-3
Sample Code	CH 101	Cu 201	CM 105	DI 586	CH 162 RD.	CH 200 N.P.	CM 163	CN 583
Inorquic Saute 1	10 0021	IIIN 225	10 0014	100 225	10 0015	IGA 223		PER 219
Granic Saule 9	9 3265	m 257	9 1201	M 258	8 2204	M 25	III 0075	
Bate Session	99/27/94	12/12/04	63/27/84	12/12/04	6 1/27/ 8 4		1 200	175 AB
Date Shipped	60/58/04	12/13/04	60/50/04 63/51/04	12/13/04	68/58/84	12/12/04	00/31/04	12/12/04
		16/13/44		12/13/04		12/13/04	99/31/94	12/13/04
Sate Shipped		****	99/85/84	*****	99/05/94		99/65/84	•
Murth Orid	349139, 26,3869	349159. 86,3869	347351.042755	347357.042735	347357. BA2735	347357.042735	34749.003045	345 N. DE 3045
East Brid	1049.225.005901	10432277 000201	1856624, 000193	1858624.000193	1830624.000193	1839654, 000133	1850435.045757	1850435.045757
enerates								
m.b.444								
Volatile	FINA.	POES, SHEHRINY	FINAL	PRES. DISTRIBUTY	FINE	PRED_INITIONALY	FINE.	PRELIMINARY
******	 /1	wg/I	ug/l	wg/l	ug/l	mg/L	ug/1	. wp/1
chlordonome	1.3	101. REFORÊD .	WHETETED	HOT REPORTED	. 13	IOT REFORTED	(EXERT)	INT COUNTY
chlorofora	4.9		1.4	HOT REPORTED	. 5.5	NOT REPORTED	EJETED	AUT GEFARTED
1, 1-dichleresthane	2.3	NOT REPORTED	1.6	HOT REPORTED	2.0	NOT REPURTED	EETO)	NOT REPORTED
1.1.2-trichleresthane	METECTER	INT EPIKED	- CONTRACTED	ACT REPORTED	1.0	NOT REPORTED	E JECTED	OT EPHTE
1.1-dichlerenthese	DOETECTED	NOT REPORTED	UNETECTED	HOT REPORTED	15	NOT REPORTED	E JETTED	IOI REPORTED
arthylene chloride	e e		EJECTED	NOT REPORTED	ě	HOT REPORTED	EATED.	ACT REPORTED
ecutions Contactor	519		610	NOT REPORTED	ž	IOT REPORTED	E.ECTED	· 101 REPORTED
tros-1,2-dichlaresthese	15		3.2	NOT REPORTED	WETERE	NOT REPORTED	EACHED	HOT REPORTED
		INT REPORTED						· · - · - · · -
1,2-dichloropthere	•		2	HOT REPORTED	· ·	NOT REPORTED	REJECTED.	INT REPORTED
1,2-dichioreprepane			DOCTOTO	NOT REPORTED	UGETECTED	IOI CEPTITED	RESERVED	IN EPHILED
1, 1, 1-trichleresthans	. 13	NOT REPORTED	2.2	HOT REPORTED	1.1	NOT REPORTED	REACTED	HOT REPORTED
1, 1, 2, 2-totach loreethese	K)	IDT EPHNED	1.9	INT IEPHNED	3.6	HOT REPORTED	ELECTED	INT REPORTED
chloroethere	(EJECTE)	NOT REPORTED	EETED	HOT HEPORTED	EJETE	NOT REPORTED	ERTED	INT REPORTED
trichloresthese	7.1	IOI REPORTED	5	NOT REPORTED	7.3	NOT REPORTED	RECRE	ICH REPORTER
vinyl chloride	EXER	MUT REPORTED	E ETED	MIT REPORTED	EEEE	HOT REPORTED	EETED	IOT REPUITED
lancone	7.9	IN BEFORED	(EJECÍE)	HOT REPORTED	9.5	NOT REPORTED	REJECTED.	HUT REPORTED
4-cetty1-2-centance	200	INT REPORTED	130	NUT REPORTED	2)	NOT REPORTED	EJECTED	HOT REPURTED
fluoretrichlerenthese	MARTECRED	IN EXITE	DOE VECTED	INT REPUITED	METELIED	NOT REPORTED	EXCLED	NOT REPORTED
tetrachieresthese	13	IN EXCITED	WETELTED		2.1	NOT REPORTED	EEE	ANT REPORTED
tolume	7		E E CTED	IOI (EPONE)	120	INT EPONED	(EJECTE)	INT REPORTED
E-butanese	. 100	INT REPORTED		NOT REPORTED	140	IOI EPINED	REJECTED.	INT REPORTED
2-hananana	2.9		WEVELED	NOT REPORTED	4.7		EEE TED	OUT GENERAL
							REETED .	HUT REPORTED
ethylleneone	6.9	HOT REPORTED	4.4	HAT REPORTED	L.	HOT REPORTED		
letel lylenes	11	NOT VENUED	9.6	IDT IEPUNED	17	NOT REPORTED	NEJECTED .	INT REPORTED
Sunivelat je	FIRE	PREL INCHURY	FROL	PRES. ENGINEERY	FINAL	PRES INFINITY	FINAL	FREE INCOME
	eg/1	wy/I	wg/l	eg/i	wy/1	wy/l	49/1	ep/1
2, 4-dissthylateret	DOE NETED	INT EPHIED	DEFECTE)	IST SEPURIED	DOETECTED	w (1010)	CELEBRATE	HAT GEFARTED
Phone	CONTRACTO		WESTECTED		WOE TECTED		WESTERS	AUT CEPARTED
bis (2-chloresthy) lether							71	HOT REPORTED
	7	NOT REPORTED	69	HOT REPORTED	70		MAETECKED	NOT REPORTED
1,4-dichlorobaccos	WHE TELTED		DEFECTED		WIETETED .			HOT REPORTED
Burryl Medial	MOETECTED	HOT REPORTED	SOME TECTED	NUT REPORTED	WETELTED	NOT REPORTED	WESTECTED	
1,2-Dichlaratumenne	DOETECTED	INT EPHILED	OGETECTED	IST REPORTED	UGETECTED	IST REPORTED	MOETECTED	IOT REPORTED
4-Methylphonel	. 15	INT REPORTED	LINGSE TELLTED	NOT REPORTED	4.9	NOT REPORTED	UNIETECTED	INT REPUBLED
Isophurene		NOT REPORTED	21	NOT REPORTED	J	IOI (ETOTE)	¥	NOT REPUTTED
2-arthylphonol	7.5	NUT REPORTED	25	NOT REPORTED	7.3	· NOT REPORTED	ORETECTED	IOT REPORTED
Benzoie Reid	(EJECTED	NOT REPURED	EXCITO	IGH REPURTED	EJECTED	NUT REPORTED	METECTED	IOI REPUITED
Pi-n-Dutylphthelate	MOETECTED	NOT REPORTED	SOCIECIES	NOT REPORTED	SOCTECIES	NOT REPORTED	K 10	NOT REPORTED
bis (2-Ethy Meny) Mithalate	REJECTED	NOT REPORTED	REJECTED	HOT REPORTED	E JETTED	NOT REPORTED	K 10	NOT REPORTED
Di-n-Octyl Phthelate	WETELTED	IOT REPUBLED	WOE RECTED	NOT REPORTED	DOCTECTED	ICH REPORTED	MERCIED	NOT REPORTED
nashthalone	UGE TECTED	NOT REPORTED	COCTECIEN	NOT REPORTED	UNETECTED	NOT REPORTED	MOETECTED	NOT REPORTED
			· ·					HOT REPORTED
diethyl phthalate	MOETECIEN	HOI REPORTED	UNCE TECTED	NOT REPORTED	UNCTEERED	NOT REPORTED	METECIED	

HELEN KARNER LINGT!. SUNFACE MATER OURLITY MARLYTICAL RESULTS

Sample Location Bample Code	C-1 CH 181	C-1 Cu 201	C) 105 C-5	C-5	C-2 Cu 162 Bup.	C-2 CN 242 BUP.	C+3 . CH 160	C-3 Di :43
Incremic Samle V	10 002 L	IIIA 225	m Wil	190 226	ID 6015	100 223	n há	180 219
Oranac Sample 0	0 3205	m 27	• 20	NA 528	8 3/84	253	0 800	IA (5)
Rote Secoled	00/27/0A	12/12/04	e jetisk	12/12/84	69/27/04	12/12/84	ev high	12/12/04
Date Shipped	ON SOLEN	12/13/00	00/10/0	12/13/04	00/20/DA * *	12/13/04	ev ii A	12/13/04
Bate Shipped	· ·		67/67/A	10.100	97/95/84	12713757	11/5/8	10.13.00
Borth Grid	149157L2K316\$	M9159, 26,3659	347351.042755	347357.042755	347351.842755	347357.842755	34L765, 103.3 45	346767L003045
East Grid	1849335.00698	[849355.006901	1856624.000193	1656524.000193	1858624.000193	1850624. 680193	1859435. 975757	1850435.045757
FIELD PRODUCTERS					1.			r
•	E-1.4	•	≱ €			•	•	**************************************
Flow (goal)	IOI IEIGIÈ	jat ieigjiei	INT TERSURED	NOT HEASURED	HOT HEASTED	NOT PERSURED	3.00	79 6
Tomp. (Celsius)	£.)	7.3	22.25	1.0	NOT HEADINE	NOT PERSURED	51	li.§
	CH.	. 6.65	6.45	6.51	HOLIERAN TON	NOT REASINED	6.50	6.00 139
Specific Conductivity (name/co)	. 206	152	275	155	NOT REASONED	NOT HEASURED	e99	137
			F (TO)		-,"	******	<u> </u>	
HERENICS	FINAL	FIML	F COMMA	FINAL	FIRM	FINAL	File.	FINAL
	ug/l - 12	44/1	a vi	49/1	49/1	wg/l	i i	49/1 (2)
Aluniam		500	્રું સર	- 540		800	290	7 🦠
Ant carry	UNERECTED	METECTED	TECTED	UNCETECTED	UNE TEGRE	UNETECTED	INTERESTED	MOETECTE
Arsonic	MAELEFIEI	UNDETECTED	TECTED .	UNDE TECTED	MOETEÇTED	UNETECTED		UME TECTE
Barron	ume reéres	MAETECTED	the TECTED	WETECTED	UNETECTED	METECTED	PORTECIED	DASE TECTES
Decyl Lists	WOETER!E!	· UNE TECTED	AND LECLED	UNITE TECTED	R ALTER	UNETECTED	tion iteres	DOE LECTO
Cadales	अवस्ति ।	METECTED	De lected	METECIED	WEE IE CHED	DOE TECTED	PORTECTED	NACE LECTED
Calcian	ADI KENDÎTÎ	17000	INTERNITED	15000	IOT REPORTED	17000	ndi Cianted	170
Chronium	UNE TEETED	METECTED	DE TECTED	UNETECTED	nae ieției	UMETEC:ED	PORTECIED.	mee iec:eb
Cobell	MAETEČIĆÍ	MAETECTED	POR TECTED	UNGE TECTED	MOETEČICÍ	METECIED	SOR TECTED	METECIE
Copper		MOETECTED	DOE TECTED	CONSETECTED	<u> </u>	METECTED	BARTECTED.	NOTE RECTED
Iren		5750	470	(800	71.0	6900	7650 DOETECTED	SSÁÐ UMETECTEN
Leed	LAGE TE CITED	METECTED	PECTED	UNGE TECTED	uae tečtěš uae tečtěš	UNCETECIED 30	DE TECTED	MACE LECTED
Cyanide	WOETEČÍTÝ MOT MEROŽITÉŘ	5 36	CETOER TON	UNCE TECTED	NOT REPORTED	MARETECTED	INT INTERIOR	MOEIECIED
Ragness att		MAETEETED		UME JECTED		229		500
Rangamene	UNDETECTED	219 September 219	242 18131 308	210 LINGE TECTED	UNIT TELLES	INCELECIED	<u>्र</u> ु 212	MAETECTE
Hercury Hickel	SOCIECIES SOCIECIES	(30)	THE TECTED	(20)	WAS TECTED	(30)	TECTED	
Put assius	HOT HE POÈTES	5000	MATERIAL SECTION	5000	NOT REPORTED	(4000)	HAT GETON:ED	(4000)
Selenius	DOE TELIE	MAETECIES	WOR TECTED	UMETECTED	LOGETERIED	METECIEN	had recien	UNETECTED
Silver	UNGE TE CTEN	DOE TECTED	63123: 300	UNCE TECTED	UNCE TECTED	UME IECIED	FEC:ED	UNDETECTED
Softwa	NOT REPORTED	MAE JECIED	MI CHAILE	ONDE LECTED	MOT REPORTED	METECIED	MI RPORTED	25000
Thating	MARE LEE JE D	MOETECTED	DOE IECTED	DOE TECTED	LAGE FECTED	MAETECTED	ME TECTED	MAETECIEN
Tia	OUELECTE)	UNIETECTED	PAR LECTED	LAGE TECTED	INGELEÇIEN	UNDETECTED	DE TECTED	1 10
Vanadius	UNDE TELLED	MOETECTED	631331 EC1ED	LAME TECTED	METETIEN	UME TECTED	OMETECTED	MERECTEN
liec	OF JECTES	WHEN TELLIED	940	3	ME RÉTES	4	. 195	20
E 1776	~~~;\		. , ,	-		***	NOT REPORTED	METECTED

HELEN KINNER LINGFIL SUFFREE WATER QUILTTY MORLYTICAL RESILTS

Sample Location Sample Code	E-1 CU 101	C-1	CD 165 C-6	CH 585 C-5	C-2 CH 162 BUP.	C-2 CH 202 BLP.	C-3 Cu 193	C-3 CN 293
Intergenic Stuple 6	10 0021	10A 825	ID 0014	100 225	10 00:5	MM 223	10 007 5	18A 219
Organic Sample 0	9 3205	30 257	D 3283	DA 258	D 320A	M 25	D 2246	IN 251
Date Saspled	96/27/84	12/12/04	10/27/04	12/1 2/04	00/27/04	12/12/04	99/31/94	12/12/04
Oute Shipped	40/25/20	12/13/04	80/25/80	12/13/04	06/28/04	12/13/04	00/31/04	12/13/04
Date Shipped			93/85/84		99/85/84		89/85/8A	
Marth Grid	349159.263869	349179.863869	347357.042735	3A7357. BA2735	347357.0427 35	347351.042735	34349.003045 .	345X7.003945
East Grid	1845355.886981	(849275, 80686)	1630624,000193	1650624.600193	1838624.000193	183824.000193	1630435.045757	1850435.045757
SAR MANUELES	FIME	PREA. INVIDENT .	FINAL	FINE	FINEL	F1100L	FINAL	FINAL
**************************************	eq/1	49/1	_ y/1	49/1	49/1	ug/1	- ≱/t	49/1
Discride	51388	41000	\$2000	45000	54	41000	MOETECTED	43000
Sulfate	22000	29000	22000	3000	22.5	27000	20300	3000
Mitrote	14000	1 1200	19500	R 1100	5.4	R 1100	CETENTON	· 1 1200
Cartenate	IN EPHRED	IOT REPORTED	INT REPORTED	INT REPORTED	NOT REPORTED	NOT REPORTED	ICH REPORTED	HOT REPORTED
Bicartenete	INT REGITED	IN IEPONES	IN EPHILED	ICH REPORTED	NOT REPORTED	NOT REPORTED	IOI REPORTED	NOT REPORTED
106	\$6500	INT REPORTED	40000	HOT REPORTED	284	NOT REPORTED	NOT REPURTED	HOT REPORTED
THE	2000	14000	16400	EXCITED	*	CELECTED	29	REJECTED
***	EEEE)	EJECTED	E JECTED	RE-ECTED	EEE	REJECTED	NOT REPORTED	ME JECTED
	4200	2000	3460	31000	2.1	31000	57	45000
Alkalinity, phi	IN REPORTED	HAT REPORTED	INT REPORTED	IST PETERTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	INT REPORTED
Alkalinty (CaCS3)	INT REPORTED	101 CENTRED	INF REPORTED	HOT REPORTED	HOT REPORTED	NOT REPORTED	INT REPORTED	NOT REPORTED
Alkal inity, hydranide	ADT REPORTED	HOT REPORTED	HOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	HAT REPORTED	NOT REPORTED
Rougherus, Total	HOT REPORTED	(EJECTE)	IOI REPORTED	MEJECTED 1300	NOT REPORTED Salan	NEJECTED 1300	HOT REPORTED 1570	HOT REPORTED
America	4060 100 (2) 100		HETO HETOTES	MATE REPORTED	2/580	1300 EST (ESTENS)	IOT REPORTED	
Sulfide Classic	MI EIGH)	INT REPORTED	INT EPHILE)		5400		NOT REPORTED	
Fluorido Potroleus Hadrecarbana		MORTECTED	LOGETECTED	WOETELTED	WETECTED	3000	MORE TECTED	MOI MERMITED
recommendadas	1300	MAT REPORTED	21000	MIT REPORTED	2000	101 (270)113	INT REPORTED	HOT REPORTED
istal 9	<u> </u>		104	MAN EXCUSES	204000	MIT SERVICED	13	NOT REPORTED
Notes P	AND REPORTED	(CT REPORTE)	MATERIALED	MIT REPORTED	2000	NOT REPORTED	MI ENNO	HOT REPORTED
en e		NOT REPORTED	INT REPORTED	HAT REPORTED	MIT REPORTED	ADI GEPORIES	INI ENGLES	IOI EPONTED
Sulfata, turbidientric	NOT REPORTED	IGT REPORTED	HOT REPORTED	MIT EPRITED	270	HOT REPORTED	MIT EPONTED	INT REPORTED
2,4,0 (00)	IGT EPONED	NOT REPORTED	INGI REPURTED	NOT REPORTED	UST EPONE)	NOT REPORTED	INT REPORTED	ACT REPORTED
2.4.5 TP (Silven)	IN EXCES	MAI MERCETED	MET REPORTED	NOT REPORTED	NOT REPORTED	ICT EFORTED	NOT REPORTED	NUT REPORTED
Carton, organic	INT EPOSED	IOT REPRITED	INT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	INT REPORTED	ICI REPORTED
Salida, disselved at ISSC	IOT REPORTED	12400	NOT REPORTED	143000	NOT REPORTED	181 000	NOT REPORTED	190000
Solids, Securedad	CETOTED TON	E.E.IE	NOT REPORTED	REJECTED	NOT REPORTED	REJECTED	NOT REPORTED	REJECTED
Specific Conductance, 25E	IOI REPORTED	IOT REPORTED	INT REPORTED	HOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
		···-				_		

HELEN KARNER LANDFILL GROWNATER GURLITY FINALYTICAL RESILTS

Sumba à austion		مد أ				. 16			4
Sample Location	1-95	1-166	X-115	1-125	Field Blank	Field Blank	Trip Black	VE-6	<u>u</u> k-7
Sample Code	NS 109	i is 110	15 111	IS 112	15 11 3FD	18 513FB	IS 21310	VE-186	1 €∸107
Inorquitic Sample 0	784 469	6 0 4%	MMA 475	1 00 1 474	HBQ 479			190 469	(46) 401 s
Organië Sample 8	0.4150	D 4191	9 4170	B 4189	D 4194	•			
Bate Spipled	12/5/04	HE/S/M	12/5/04	12/6/84	12/6/84	6 /03/85		B 4199	# (500
Bate Stiesed	12/6/04	IZ/S/M	12/6/04	12/6/84	12/ 6/8 4	6/6/85		12/10/04	12/10/04 :
Date Silicand	16769-91	- Indian	12/0/04	12/8/09	12/6/04.	W/W/80		12/11/04	12/11/04
Berth Bid	34317, 236314	JA 10. 920925	345628.476460:	34466.248215					
East Orid	1851543, 121725	MANAGE DASAGE						344534, 191909	Mai 1872
ts	1831347 151409	MANAGE BACKET	1849300. 197538	1849117.037965				1650076, 414761	10001E.022001
PESTICINE	PREL INCOMY	MELTHINARY	PRELIMINARY	PRED. EVEL NAMEY	PRES. EXTRACTLY	FINAL	FINAL	PRELIMINARY	PRES SPECIAL
	49/1	ig/l	09/ 1	49/1	wg/l	m/l	wg/l	w/I	i) /1
**************************************							*******************		• 4.
Endose Pan 1	MOETECTED	UNETECTED	UNETECHED	LOGETECTED	UNCETECTED	UNCETECTED	HOT REPORTED	UNDETECTED	BO ETECTED
Endouglan Bulfake	UNIETECTED	UNIETECTED	LONE TEC (E.D	MACTECIED	UNBETECTED	UNDE IECTED	NOT REPORTED	UNCETECTED	D OE TECTED
hapt actifier	WOETECTED	UNDETECTED	UNETECTED	UNDETECTED	UNETECTED	UGETECTED	NOT REPORTED	UNDE FECTED	DOETECTED
Alpha- Q C	UNETECTED	UNDETECTED	UNETECTED	UNETECTED	UNETECTED	UNDETECTED	NOT REPORTED	UMETECTED	DOETECIED
Set a-SE	WOETECTED	LOGE TEXTED	UNETECIEN	LINCE TECTED	LIMBE TECTED	WOETECTED	NOT REPORTED	LOGETECTED	DEETECTED
Same QC (Lindane)	UNETECTED	UNETECTED	UNETECIED	LOUIE TECTED	UNETECTED	WERECTED	HOT REPUR É D	UNIOE TECTED	DOE TECTED
Belta-IPC	MOETECTED	UNETECTED	UNETELTÉD	UCE TECTED	UNCETECTED	UNE TECTED	HOT REPORTED	UNIE TECTED	DOE TECTED
FCD-125	UNETECTED	UNETECTED	UNETEC ÉS	UNIETECTED	UNITETECTED	UNETECTED	HOT REPORTED	UME TECTED	DOETECTED
Alph-AČ	MOETECTED	UNETECTED	UNE TECTÉD	LOWETECTED	MOETECTED	UMETECTED	101 EFORTS	UNGETECTED	DOE TECTED
Belta-BC	UNETECTED	LOGETECTED	UNETECTED	UNETECTED	MOETECTED	UNDETECTED	NOT REPORTED	UNITE TECTED	DOETECTED
Same-ITC (Lindans)	WOETECTED	UGETELTED	UMETECTÉD	· UNCETECTED	UNCETECTED	MOETECTED	IOI EIORILE	UNCETECTED	OCE TECTES
Aldria	UNETECTED	UNETECTED	UGETECHE	UMETECTED	UNETECTED	UGE TECTED	HOT REPORTED	UNCETECTED	MOE IECTED
Neptachiar Engoside	OGETECTED	OMETELTED	UNETECTÉD						
Dieleriä			METECIED	UNCE TECTED	COCETECTED	UMETECTED	HOT REPORTED	UNETECTED	CONTRACTED
44- 4	UNETECTED	UNIETECTED		UNETECTED	UNDETECTED	UNETECTED	NOT REPORTED	CONTENTANT	MOE TECTED
	MOETECTED	UNETECTED	UNETECTED	UNDE TECTED	UNETECTED	METECTED	NOT REPORTED	UNCE TECTED	A CE LECTED
Endrin	UNETECTED	UNETECTED	METECIFO	UNDETECTED	LOGETECTED	UME TECTED	HOT REPORTED	UNIETECTED	GO E IECTED
Endoselfate II	WOETECTED	UNETECTED	MAETECTÉD	LOGETECTED	LAGE LECTED	UNETECTED	HOT HEPORTED	UNIETECTED	QOE TECTED
4, 41 - ani	UMBE TECTED	UNDETECTED	UMETECTÉD	UNIETECTED	LOGIETECTED	UDE TECTED	NOT REPORTED	LIMETECTED	MOE TECTED :
4,41-807	MOETECTED	UNETECTED	UNE TECTED	UNCETECTED	UNETECTED	WETECTED	NOT REPORTED	UNGE TECTED	· UCETECTED
TERRITIELY INSPIRED CONTURE					PREALING MARKY	film	FIRM	PREL INTINKY	Pati Milatey
SCHOOL SECTION OF CONTRACTOR									
		•4•			ug/l	ig/I	=9/1	49/ 1	a p≀
Ethaneli@-butory-	NOT REPORTED	THE SERVICE	NOT REPORTED	HOT REPORTED	J 19	UGETECTED	HOT REPORTED	UNIE TECTED	DOETECTED
Cyclohelianone, 3, 3, 5-Trianthy)	NOT REPORTED	THE REPORTED	NOT REPORTED	NOT REPORTED	LAMETECTED	UGETELTES	NOT REPORTED	. 13	UNDETECTED
Bonzenzijel fananide, H. H. 4-Tri	NUI NEPUNICO	STATE OF THE PERSON NAMED IN	MAI HE MAINTEN	NU SCHOOLS	CHECK IST.	MAKE IST ICA	MUI NEPAMIEN	73	UNE IECTED
angel -	NOT REPORTED	THE REPORTED	HOT REPORTED			10.00*******			i i i recessor
				NOT REPORTED	UNDETECTED	UNCETECTED	NOT REPORTED	UNETECTED	LINDETECTED
Furan, Tétalydro-	NOT REPORTED	INT REPORTED	NOT REPORTED	NOT REPORTED	UNCETECTED	UGETEETED	NOT REPORTED	UMETECTED	1 8
Pulane, & 2-Dichloro-3-Hithyl-	NOT REPORTED	INT REPORTED	NOT REPORTED	NOT REPORTED	UNCETECTED	UMETECTED	HOT REPORTED	69	J 33
Cyclopropane, Tetraurthyl			2						4
Préjyl idena-	NOT REPORTED	illi depointed	HOT REPORTED	NOT REPORTED	UNIDETECTED	WETELTED	IDI EIDIĞ	UNETECTED	j 13
SI-lantifin-9-One, 4-Hydroxy-	NOT REPORTED	MIT REPORTED	NOT REPORTED	NOT REPORTED	LOGETECTED	UNCETECTED	NOT REPORTED	UNDETECTED	j 54
Henane	NOT REPORTED	HÊT HEPONTEN	NOT REPORTED	NOT REPURTED	WEETECTED	DOE TECTES	NOT REPORTED	7	MIDETECTED
i-Henanol, 3-Hethyl-	HOT REPORTED	HÁT REPORTED	HOT REPORTED	NOT REPORTED	WOETECTED	LOGETECTED	NOT REPORTED	23	Witherected
Heranoicheid, 3, 5, 5-Trianthyl-	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	WEETECTED	METECTED	NOT REPORTED	55	LAIDE TECTED
2H Rzepiji-2-one, Hendrydro-4									
-Milhyl-	NOT REPORTED	HÂT REPORTED	NOT REPORTED	NOT REPORTED	WETECTED	LOGE TECTED	NOT REPORTED	71	UNDETECTED
Pantanedioicacid, Dis (1-Hetay)			THE REPORTED	THE REPORT OF	U-BC ICLIED	urde IEL IE.	W. E.C.	"	WOC ICLIES
/2	and breaking	ide grane	une sesseré	MAI STATES	1447777	ingrapers		**	(alle report
profyllEster	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPURTED	WETEETES	UNCETECTED	NOT REPORTED	56	MPETECIEN
Denzenej opanoicacid, . Deta. ,								e-	
2,4-Triaethyl-,Hethylest	NOT REPORTED	HOT REPORTED	HOT REPORTED	NOT REPORTED	MOETECTED	MELECIED	NOT REPORTED	50	LADETECTED

NJDEP Hazardous Site Mitigation Administration Air Monitoring Program at Helen Kramer Landfill October 31, to November 2, 1983*

TABLE 6-1

Compound	Leachate Seep Area	Site Mean Value ppb
vinylidene chloride	48.8	38.9
methylene chloride	29.6	12.3
chloroprene	ND	ND
chloroform	1.96	9. 82
1,2-dichloroethane	ND	8. 36
1,1,1-trichloroethane	6.48	2.61
benzene	16.2	7.51
carbon tetrachloride	8.0	Ø.12
trichloroethylene	9.37	2.43
dioxane	ND	0.61
1,1,2-trichloroethane	2.88	1.22
toluene	. 137	46.5
1,2-dibromoethane	ND	6.47
tetrachloroethylene	5.49	1.91
chlorobenzene	1.66	0.80
ethylbenzene	6.65	3.85
m, p-xylene	14.6	7.43
styrene	8.61	1.53
o-xylene	3.13	2.31
1,1,2,2-tetrachloroethane	6.82	9.78
o-chlorotoluene	0.44	8.59
p-chlorotoluene	0.63	8.36
p-dichlorobenzene	8.42	0.54
o-dichlorobenzene	Ø.63	Ø.86
nitrobenzene	0.14	6.54
napthalene	0.09	9.36

ND - Not Detected (reported by NJDEP HSMA as zeros)
(All values are three-day mean concentrations)

r.e. wright associates, inc.

^{*} Prom Gianti, et. al. 1984

GROUNDMETER DURLITY DIVENTIFIED RESILTS

€:	•						•		
Salute Location	1-労	1-105	T-115 .	1-125	Field Blank	Field Blank	Trip Ol jich	NE-6	Æ-7
Saliste Code	IS 107	IS 118	rs ui	IS 112	IS 113FB	15 213FD			
				43 11E	73 113 C	*2 C175B	12 5131 0	₩-1 6 6	₩E-107
. É	****		4						
Infranic Samle 0	IBA 469	IGN 476	MBD 47§	186 7 474	MBA 479			HBR 480	1907 481
Orfenic Sample 0	D 4198	D 4191	D 419)	8 4189	D 4194			8 4199	8 4200
Bath Sampled	12/5/84	12/5/84	12/5/84	12/6/84	12/6/84	01/93/85			
Baff Shipped	12/6/84	12/6/84	12/6/84					12/10/84	12/10/84
- 4	12/0/07	15,0,04	16/0/04	12/6/84	12/6/84	81/83/65		12/11/84	12/11/ 84
Boll Shipped	·	3							.•
Noith Grid	344317.236314	MJJB. 928925	345620.47\$460	344666.248215				344534, 191999	JÁSL 12592
Eagl Grid	14515A3, 121 <i>78</i> 6	1047432.042403	1849300. 1975.3	1849117.037965				1850078.414761	1850072, 021007
X								1000010111101	committee describes
ORDINICS									
									•
			;	•					
			.				• .		A Comment
VOLÍTILE	PRED_INIDIARY	METINIMAA	PREL INTIVINY	PRELIMINARY	PREL INTROPY	FINAL	FIRE	PREL INIMARY	PREI INTHUMY
	wj/1	wp/l	wg/i	wq/1	49/i	w/1	w/ 1	ug/ 1	'mg/1
4.3			No. of		•4.	- -		4	٠,٠
chiérobenzene		indrinder.	voit fectes	1000100000			_أنستوني		
	· DEE TECTED	DOCTECTED		UMETECTED	UPBE TECTED	DOCTECTED	unt let les	19	UNCETECTED
chibrofore	MEETECTES	UNETECTED	that techen	UCE TECTED	LOCETECTED	UNCETECTED	umetelten	LIMETECTED	UND ETECTED
1,14ichloreethene	UCETECTED	LAMETECTED	LOCETECTED	UNDETECTED	MOETECTED	UNDETECTED	uoételtes	4	WEETECTED
1, 1;2-trichloropthane	LIMBETECTED	LANGETECTED	DOME TECTED	LACETECTED	LACE LECTED	THOS LECTED	unt letten	UNCETECTED	UNDETECTED
1, 1-dichlarsethene	UNCE TECTED	UGETECTED	UOC TECTED	UNCETECTED	UCETECIEN	MOETECTED	uel fet fen	WESTECTED	
							Carried Spice		UNCETECTED
selfylene chloride	LOCETECTED	UNGETECTED	u de lecte d	UNDETECTED	UME TECTED	REJECTED	udificien	5	31
actions	UNCETECTED	27	. 15 ا في الم	41	24	.35	,ુ,ુ,ુ31	12	UNDETECTED
trafis-1,2-dichloroethere	LOCETECTED	UNETECTED	UNETECTED	LPRETECTED	LOGETECTED	UNCETECTED	voetectes		UNIDETECTED
1, 2-dichloreethane	UNCETECTED	UNETECTED	und let feb	LAGETECTED	UNCETECTED	UNCETECTED	untiteles	,	100
1, 1/1-trichloroethane	MAETECTED	22	unttecten	UNCETECTED	LACE LECTED	UNDETECTED	unitelien	JAMES STREET	UNDETECTED
* ;*							CHANGE SECTION	LAGE TECTED	
1,1j2,2-terachloroethane	UNCETECTED	22	525	EMBETECTED	UCETECTED	1 5	vottester	UNCETECTED	UNDETECTED
chlijroethane	UGETECTED	22	52	UNCETECTED	LOCETECTED	UNCETECTED	une tecten	UMETECTED	UNDETECTED
trithloroethene	LAGE LECTED	22	22	UNCETECTED	UNCETECTED	UNCETECTED	weetecten	3	UNDETECTED
visit chloride	UNDETECTED	22	55	UMETECTED	UNCETECTED	UME TECTED	unditates	13	UNCETECTED
bergene		22					une recien		
	WEETECTED		. 22	UNCETECTED	UGETECTED	UCETECTED		8	UNDETECTED
4-újthy1-2-pentanone	LAMETECTED	22	55	UND ETECTED	UNCETECTED	1 13	LACTECTED	UMETECTED	UNDETECTED
fi@rotrichlorowthane	WEETECTED	n	55	UNCETECTED	UCETECTED	WESTECTED	MAETECTED	UNCETECTED	UNDETECTED
tetřachloroethene	UNCETECTED	J S	uwétected	UMETECTED	UNETECTED	UOETECTED	voetected	UMBETECTED	UNDETECTED
tollene	UNDETECTED	UNIETECTED	LANDE TECTED	UNCETECTED	UGETECTED	13	UOCTECTED	3	UNCETECTED
								•	
2-fit anone	LAMETECTED	UNCETECTED	UNCHTECTED	UNCETECTED	UNCETECTED	18	untiecten	UNETECTED	UNCETECTED
2-lifesamone	UMETECTED	UMETECTED	nae lecjed	UNCETECTED	LOCETECTED	MAETECTED	UNE TESTED	UCETECTED	UNDETECTED
Etilij i benzene	LOGETECTED	UGETECTED	UNCETECTED	LACETECTED	UNDETECTED	LINGETECTED	undtellen	3	UNCETECTED
Total Tylenes	UNCE TECTED	UMETECTED	UMETECTED	LMOETECTED	UNCETECTED	E 5	unttecten		UNDETECTED
		0-00.00.00		0-02.00.25		• •		•	
SENTVOLATILE	PRES. SMI NUMY	PRELININGRY	PREL INJUÍRY	OF THIS	PRELIMINARY	FINAL	FINAL	PRELIN: NORY	PRELIMINARY
				PRELIMINARY					
	wg/l	wg/l	ug/1 °	•¢/l	ug/1	ug ∕i	ug/ l∫≃	wg/l	uą/1
<u>2.</u>							62 36		
2, 4 digethylphenol	UNGE TECTED	UNCTECTED	UNETECTED	UNCETECTED	UNDETECTED	UNDETECTED	NOT REPORTED	UNIETECTED	UNCETECTED
Philipi	UNCE TECTED	DOCIECTED	UNCETECTED	UNCETECTED	34	37)	NOT RÉPORTED	. UMBETECTED	UNCE TECTED
			MOETECTED				not ne Politeo	17	MOETECIED
bist-2-Chloroethy11Ether	UNIVETECTED	UMETECTED		UNDETECTED	UCETECTED	WOETECTED		• •	
1,4 dichlorobenzene	MOETECTED	UMBETECTED	MACHECHER	UNCETECTED	UNC ETECTED	UNCETECTED	NOT REPORTED	UNCETECTED	UNDETECTED
Đeižyi Alcohol	UNCETECTED	UNCETECTED	LOUNE TECTED	EMORTECTED	UNCETECTED	UNDETECTED	NOT REPORTED	UNCETECTED	UNDEFECTED
1, 2 Dichlorobenzene	LIMETECTED	MACTECTED	UNCETECTED	LINDETECTED	LINCE TECTED	LAGE LECTED	NOT REPORTED	15	WOETECIED
			LINCETECHED		UNICE TECTED	UNDETECTED	NOT REFORMED	UMBETECTED	UNDE TECTED
4-Mithyl shenol	MEETECTED	MACHECIED		MOETECTED					
isdiflarone	UMETECTED	UCETECTED	UNDETECTED	UNDETECTED	UNDETECTED	INCE TECTED	not reforted	UNCETECTED	UNCE TECTED
2-afthyl phenol	UNCETECTED	UMETECTED	MOETECTED	. CHOE LECTED	UNCETECTED	UNDETECTED	NOT REPORTED	UNCETECTED	LIMBETECTED
Bedfoic Acid	UNCETECTED	LAGE LECTED	LAGE TECTED	LINCETECTED	UNCE TECTED	UNDETECTED	NOT REPORTED	UNCETECTED	LINGETECTED
Di-A-Butylphthalate	MOETECTED	UMETECTED	UNCETECHED	LADETECTED	OCCIECTED	J 10	NOT REPORTED	UNCETECTED	LINDE TECTED
						METECTED	NOT REPORTED	UMDETECTED	UNDETECTED
bist2-Ethylhenyl)Mthalate	UCETECTED	DELECTED	UNCETECTED	UNCETECTED	UNDETECTED				
Bi- Á Oct yl Phthalate	UPOE IECTEB	MOETECTED	UNCETECTED	LADE LECTED	UNCE TECTED	UNDETECTED	NOT REPORTED	LNOETECTED	UNDETECTED
naghthalere	UNCETECTED	UNCETECTED	waetected	LADETECTED	MOETECTED	UNDE TECTED	NOT REPORTED	UNCE TECTED	UNDETECTED
diethyl phthalate	UNCETECIED	UMBETECTED	WERECIED	LACETECTED	UMDE TECTED	UNDETECTED	NO: REPORTED	LACETECTED	UNDETECTED
tentyl alcohol	UNCETECTED	UNDETECTED	WOETECIED	UNDETECTED	UNDETECTED	UNDETECTED	NOT REPORTÉD	UNDETECTED.	UNIVESTECTED
	UPOC ICCICD								
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HELEN KROVER LANGFILL GROUNDHATER QUALITY ANALYTICAL RESILTS

Sample Location	1-98	1-166	I-115	1-125	Field Stank	Field Blank	Trip Blank	€ -6	₩E-7
Sample Code	IS 109	15 110	75 111	IS 112	IS 113FB	IS 213FB	IS 21310	₩-106	NE-107
Inorganic Sample 0	MBA 469	160 476	NBA 475	1000 474	MBA 479			10A 480	100 401
Brganic Sample 0	D 4198	D 4191	0.4190	D 4189	D 4194			B 4199	0 4200
Bate Sampled	12/5/84	12/5/84	12/5/84	12/6/84	12/6/84	81/83/85		12/10/04	12/10/04
Bate Shipped	12/6/04	12/6/84	12/6/04	12/6/84	12/6/84	01/03/85		12/11/84	12/11/84
Bate Shipped								10, 11, 0,	
Morth Grid	344317.236314	346130.928925	345628, 476468	344666, 248215				344534, 191509	34436.1.126992
East Grid	1651543. 121726	1849432.042403	1049300.197536	1849117.037985				1850078.414761	1850872.022009
SIG PRIMETER		FINAL	FINEL	FINEL	FINEL	PRET ENIMARA		FINAL	FINAL
		eg/l	wg/l	ug/l	ug/1	wg/l		ug/1	ug/l
Chloride	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	MOETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Sulfate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	IOT REPORTED	UNDETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Hitrate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNGE TECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Carbonate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
TOC	NOT REPORTED	3000	. 2000	_ 4000	2000	UNETECTED	HOT REPORTED	53900	1000
100	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	LOCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
CT00	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	35000	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alkalinity, pht	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	IGT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alkalinity (CaCO3)	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	9000	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alkal inity, hydroxide	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Phosphorus, Total	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNITE TECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alkalinity, bicarbonate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	2000	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alhalinity, carbonate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Amonia -	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	MOETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Sulfide	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Petroleum Hydrocarbons	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNETECTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
198	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Fluoride, soluble (F)	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	WOETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Total F	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Halogen(TOX)	NOT REPORTED	14	6	11	UNDE TECTED	UNITE TECTED	NOT REPORTED	330	170
	NET REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	5500	HOT REPORTED	NOT REPORTED	NOT REPORTED
Sulfate, terbidisetric	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	1600	NOT REPORTED	NOT REPORTED	NOT REPORTED
2,4,0 (M) ·	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNCETECTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
2,4,5 TP (Bilveu)	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNITE TECTED	NOT REPORTED	MOT REPORTED	NOT REPORTED
Carbon, organic	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNDETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Solids, dissolved at 1880	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	5000	NOT REPORTED	NOT REPORTED	NOT REPORTED
Solids, Despended	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Specific Conductance,250	NUT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	24	NOT REPORTED	NOT REPORTED	NOT REPORTED

HELEN KROVER LONDFILL GROUNDWITTER QUALITY PARLYTICAL RESILTS

Saute Location Saute Code	I-98 IS 109	1-105 15 110	7-115 KS 111	1-125 15 112	Field Blank 15 113FB	Field Blank NS 213FD	Trip Blaik IS 21310	₩-6 ₩-106	IE-7 IE-107
Instigutic Sample 8 Orgánic Sample 8 Baté Samplad Baté Shippod	NOR 469 . D 419B 12/5/84 12/6/84	NOR 476 D 4191 12/5/84 12/6/84	NBA 475 D 4190 12/5/84 12/6/84	NBA 474 D 4189 12/6/04 12/6/04	180: 479 8: 4194 12/5/84 12/5/84	01/03/55 01/03/65		MBN 488 8 4199 12/10/84 12/11/84	MBN 481 .D 4200 \$2/10/64 \$2/11/84
Baté Shipped North Grid East Grid	344317. 236314 1851543, 121726	1843/12.04543 1843/12.04543	34552 0, 475 4 56 16493 00. 19753 5	344666.248215 1849117.037985			·	344534. 191509 1850878. 414761	344\$53. 126992 185 0 672. 6 22669
FIELD MANETERS							•		•
Flood (ggm) Tempic (College) gH Specific Conductivity (confided)	6.7 11.5 5.12 65	1.7 12.0 4.03 130	1.9 180 4.85 183	1.8 11.9 4.63	NOT NEROLINED NOT NEROLINED NOT NEROLINED NOT NEROLINED	HOT MEAGURED HOT MEAGURED HOT MEAGURED HOT MEAGURED	IOT IEĀLĪD IOT IEĀLĪD IOT IEĀLĪD IOT IEĀLĪD	0.5 15.0 6.03 1120	0.4 17-2 4.13 700
HORMICS	FINAL ug/1	FINAL ug/1	FINAL ug/1	FINEL ug/l	FINAL og/l	FINAL ug/l	ekir	. FINAL ug/I	FINGL ug/l
Aludinus Aut Many Aradhic	429 Undetected Undetected	3100 UNETECTED UNGETECTED	7)3 K UNE TECHS	4150 Undetected Undetected	UICETECTED UICETECTED UICETECTED	WOETECTED WOETECTED WOETECTED	NOT REPORTED NOT REPORTED	. % £2 16	1190 73 LAMETECTED
Barija Barji Lius Cassijus	(79) (0,6) Undetected	212 UNETECTED UNDETECTED	Po Unce fection Unce fection	362 (0.9) Underected	URETECTED URETECTED URETECTED	UNCETECTED UNCETECTED UNCETECTED	NOT REPORTS NOT REPORTS NOT REPORTS	39 Uncetected 7.8	272 9.9 1 8
Calélus Dréjius Cobilt	6 200 (7.0) (9.1)	28 (8.9)	(collo . [5 (4.7)	9858 44 (39)	UGE TECTED UGE TECTED UGE TECTED	(400) Undetected Undetected	NOT REPORTED NOT REPORTED NOT REPORTED	9500 12 24	35700 17 73
Copfer Ired Lead Cyalide	{16) 1670 [2.1]	(9.9) 4390 7.5	(jij) Olet Oproden ton	(13) 15900 6.6	UNGETECTED (10) UNGETECTED	UIGETECTED (70) (4)	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	14 92200 Undetected Hot reported	ÉE 21 7830 71 NOT REPCRIED
Rapides us Ranginese Hercury	NOT REPORTED 5900 206 Unde teched	NOT SEPOSTED 12400 139 LINGETECTED	EIIÎO Po LINE TELÎED	NOT REPORTED 16500 511 LINGETECTED	NOT REPORTED LANGETECTED LANGETECTED LANGETECTED	LAGETECTED (19) LAGETECTED UNDETECTED	NOT REPORTED NOT REPORTED NOT REPORTED	15100 2600 UNCETECTED	20100 433 UNDETECTED
Hick) Pot Baius Seldhius	(28) (2140) Unde tected	(29) 7740 UNGETECTED	(25) Sido was ficito	(29) 8460 LINGETECTED	UNETECTED UNCETECTED	UNETECTED (40) 'UNETECTED	HET RETURNED HET RETURNED HET RETURNED	15 1360 Undetected	219 114 00 Undetected
Si life Softm Thallium	UNGETECTED UNGETECTED	UMETECTED REJECTED UMETECTED	vae fecito ne fecito vae fecito	LINGETECTED NEJECTED LINGETECTED	UNGETECTED (4630) UNGETECTED	UNDETECTED UNDETECTED UNDETECTED	NOT REPORTS NOT REPORTS NOT REPORTS	B. 1 342 000 REJECTED	19900 Undetected
Tin Vanifica Zinë	UMETECTED (6.8) 100	UNDETECTED (25) S2	unce fectes unce fectes da	UNDETECTED (46) 70	UNGETECTED UNGETECTED UNGETECTED	(6) UNDETECTED UNDETECTED	NOT REPORTED NOT REPORTED NOT REPORTED	UNGETECTED 17 256	UNCETECTED (33) 423
Percent Solids	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

HELEN KNOWER LANGFILL GROUNDWATER GURLITY ANALYTICAL RESILTS

		•							
Sample Location	1-6	, 1-45	1-5 S	· 1-6S	1 -6 0	1-7S	1-79	1-70	1-65
Sample Code	7S 104	TS 200	IS 165	IS 106	ID 166	IS 107	XD 107	XD 207	IS 100
					•				
Inorganic Sample 8	1 6 0 477	•	10 992	MD 991	NO 9%	MB 995	MBR 466		MBO 993
Organic Sample #	0 4192	·,	8 4182	B 4184	0 4183	9 4185	D 4106		D 4187
Bate Sampled	12/6/84	01/03/85	12/4/84	12/4/84	12/4/84	12/5/84	12/5/84	01/03/85	12/5/84
Bate Shipped	15/6/64	01/03/65	12/6/84	12/6/84	15/6/84	15/6/84	12/6/84	01/03/05	12/6/84
late Shipped	***								•
North Grid	3/5192, 425518	315192.425518	Jaj767.259262	343513.120954	343514.879150	346159.991358	346153. 9 66090	346153 . 986898	344672.645721
East Grid	1850199.075163	1850499, 075403	1650998.466598	1650076.550619	1850864.715134	1651263.747789	1651262, 73315 9	1651262.733150	1651019, 123350
PESTICINE		FINAL	PRELIMINARY	PREL IN INDARY	PRET INTHRAFY	PRELIMINARY	PRELIMINARY	FINA	PREL ININGRY
	•	wg/i	ug/1	ug/l	49/1	wg/L	wg/L	44/1	wg/1 -
Endosulfan I	WEETECTED	COMETECTED	WHETECTED	UNCETECTED	UNCETECTED	WETECTED	WESTECTED	UGE TECTED	UGE TECTED
Endosulfan Bulfate	UNETECTED	LOGETECTED	DOCTECTED	UNCETECTED	UMETECTED	MOETECTED	UMETECTED	LIGETECTED	UNDE TECTED
hestachior	OCETECTED	UNETECTED	UNCETECTED	UCETECTED	UNDETECTED	MOETECIED	UGE TECTED	UNE TECTED	UNDETECTED
Ngha-IHC	UNCETECTED	UMETECTED	UMETECIED	MOETECTED	LACETECTED	MOETECIED	UMETECTED	UNETECTED	UNDETECTED
leta-BC	UNCETECTED	METECTEN	UNCETECTED	UNCETECTED	UNCETECTED	UNCETECTED	MELECIED	MACTECTED	UNDE TECTED
Sama DC (Lindare)	UMETECTED	UNETECTED	UMETECTED	UNDETECTED	UNCETECTED	MOETECTED	MOETECIED	UMETECTED	UNDETECTED
leita-BC	MOETECTED	METECTED	UNGE TECTED	WOETECTED	UNCETECTED	MOETECTED	UNCETECTED		
PCD-1254	UCETECTED	UNCETECTED	MOETECIED	UNCETECTED	UNCETECTED	MOETECTED		UNCETECTED	LAGETECTED
Nigh-BIC	WOETECTED	DOSTECTED	UME TECTED	LAGETECTES	UNCETECTED		UMETEETED	METECTED	UNDETECTED.
leita-BHC	UCETECTED	UMETECTED			- :	· MOETECTED	UCETECTED	METECTED	UNDETECTED
Samu-DC (Lindone)		UMETECTED	UGETECTED	UNCETECTED UNCETECTED	LOGETECTED	UMETECTED	UNETECTED	UNETECTED	UNDETECTED
	MOETECTED		UNE TECTED		UNCETECTED	MOETECTED	UGE TECTED	UNETECTED	UNDE TECTED
Aldrin Handand I. Sugarida	UNCTECTED	CHIDEFECTED	UGETECTED	UNCETECTED	UNCETECTED	METECIEN	UNETECTED	UGE TECTED	UNDETECTED
Heptachlor Exposide	UNCETECTED	LOGETECTED	LINGETECTED	UNCETECTED	LAGETECTED	UNCE TECTED	LAGETECTED	LACETECTED	UNCETECTED
Dieldrin	UNCETECTED	LIGETECTED	UCETECTED	UNCETECTED	LOGETECTED	UNCTECTED	UNCETECTED	UNETECTED	UNETECTED
4, 4' - BBE	MOETECTED	UNETECTED	UCETECTED	UNCE TECTED	UNCETECTED	DOETECTED	UNE TECTED	UMETECTED	WETECTED
Endrin	UMETECTED	UNDETECTED	DOE LECTED	MOETECTED	UNETECTED	UNCTECTED	UNETECTED	UMETECTED	UNETECTED
Endosolfate II	UNCETECTED	UGETECTED	UNC ETECTED	UNCETECTED	LOCETECTED	LAGETECTED	LAGETECTED	UGETECTED	UNETECTED
A, 41-000	UNETECTED	UNCETECTED	WEETECTED	UGETECTED	UMETECTED	UNETECTED	MOETECTED	UNETECTED	LOCETECTED
1,4'-10 1	COMETECTES	METECTES	UNDETECTED	OCETECTED	UNDETECTED	MOETECTED	UNE TECTED	UNETELTED	UNDETECTED
TENTATIVELY INEXTIFIED CONFOLIAGE	PRED. CRINGRY	FINAL						FINAL	
***************************************	wg/l	ug/l			•			mg/1	
2-Pentanone, 4-Hethyl-	J 20006	J 20000	NEST REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	WETECTED	NOT REPORTED
Benzene, Hethyl-	J 30	· GOETELTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UMETECTED	NOT REPORTED
Denzene, 1, 4-Digethyl-	J 670	DOETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED
Senzene, 1, 4-Biarthyl-	1 440	MOETECTES	HUT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	OUT DEPORTED	MOETECTED	NOT REPORTED
Pentaneicacid	1 8	J 50000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED
Heranoicacid, 2-Methy)-	J 56	WESTECTED	NOT REPORTED	NUT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UGETECTED	NOT REPORTED
Menanoicacid, 2-Ethyl-	UNCETECTED	J 1000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	DOE SECTED	NOT REPORTED
Denzonpacet icació	J 41	J 4000	HEIT REPORTED	NOT REPORTED	NOT REPORTED	ACT REPORTED	NOT REPORTED	UMETECIED	NOT REPORTED
Ethane, 1, 2-0 is (2-Chloraethony) -	UNETECTED	J 2000	7	NOT REPORTED		NOT REPORTED	NOT REPORTED	UNCETECTED	NOT REPORTED
	CHARLIST IST	, (100	NOT REPORTED	MUI REPUBLICA	NOT REPORTED	MUI METUMIEN	MAI MENUNICA	UNE TOUTED	HUI HEPURICU
1,3,5-Trazi ne-2,4-D iame,	••	IMPTERTO		MOT #FR08178	WAT GERMANICS	MATE STATESTED	NOT REPORTED	UMETECTED	NOT REPORTED
6-Phenyl	19	UNETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED			
Foreauide, M, N-Bisethy) -	UNDETECTED	J 9000	NOT REPORTED	HOT HEPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNDETECTED	NOT REPORTED
Menanoicacid	LINDETECTED	J 3000	· NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UCETECTED	NOT REPORTED
Mexamedioicacid, Dioctylester	. UCETECTED	UGETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	J 50	NOT REPORTED
4-Methyl-4-Hydrony-2-Pentanona	UNCE TELL TED	J 20000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UCETECTED	NOT REPORTED
						MANY BEARBLES			
	LINDETECTED	J 10000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UBETECTED	NOT REPORTED
1,5-Cyclooctadiene, (E, Z)-	UNDETECTED	J 800	NOT REPORTED	NOT REPORTED	NOT REPORTED	NET REPORTED	NOT REPORTED	WOETECTED	NOT REPORTED
Outanoicacid 1,5-Cyclooctadiene, (E, 2)- Cyclohesanone, 3, 3, 5-1riuethy)- 3, 8-Honadien-2-one, (E)-									

FRUIT AGUEN LIVER ILL.

•		•			E RESILIS				», *
Sample Logition	I-46 .	1-45	1-55	1-65	1-60	1- 1 s	1-70	1-70	1-4
Sample Code	15 104	15 204	IS 165	75 166	ID 106	15 , 107	ID 107	ID 207	क्षे छे
Inorganic Sample 8	190A 477		10 992	10 991	IR 9%	10 925	100 466		(
Organic Sibple 0	B 4192	1 / A	D 4102	9 4164	B 4183	0 4105	9 4186		# 41 6 7
Bate Sampfed	12/6/04	i i i i i i i i i i i i i i i i i i i	12/4/84	12/4/84	12/4/84	12/3734	12/5/84	01/03/65	12/3/0)
Date Shipped	12/6/04	1/11/15	12/6/04	12/6/84	12/6/84	k/i/m	12/6/84	61/03/05	12/6/6
Bate Shipped						12.11		VI.74345	icra ev
North Grid	365192, 423518	345 19 2, 1 23518	3A3767.259282	Å3513. 120954	343514, 879158	34(199, 1913SB	346153,986898	3 46153, 986090	344678, 645721
East Grid	1859199.675403	1650/95, 075463	1850798.446598	1050074,550619	1650064, 715134	1851201.747789	1851202.733150	1651202, 733150	1651619.123358
OFGOITES									•
******		\$				•			÷
VOLATILE	POED, ENDINAN	fill.	PREL INJURAY	PREL INITIALITY	PREL INCOMEY	PIÈL I MUNRY	PRELININGRY	FINEL	PREL TREMON
	wg/1		mg/1	wg/1	49/1	ψ)	m/J	eg/1	4/1
			AAGETEENERS.	•	-	<u>.</u>		-	· K
chlorobenitore	MOETECTED	GRETECIES	UNGE TECTED	LAGETECTED	UNCETECTED	QUETECTED	UNETECTED	. UNE TECTED	METECTED
thiereford	LAMETECTED	METECTED	UNDETECTED	UNCETECTED	LOGETECTED	MOETECTED	UNDETECTED	UNE TECTED	louis TECTED
I, I-dichi@cethare	DOCTECTED	METECTED	UNGE TECTED	LAGETECTED	tage tectes	GETECTES	UNETECTED	DOE TECTED	METECTED
1, i,2-tri@ilorcethane	UNETECTED	(INCTECTED VINETECTED	UNCETECTED	UNGETECTED	UNETECTED	DETECTED	UGETECTED	UNE TECTED	IN TECTED
1, 1-dichlörarthore	WAETECTED 1200	11000	UME TECTED LAGE TECTED	UNCETECTED	WOETECTED	MOETECTED	UMETECTED.	UGE TECTED	MAR TECTED
acthylene thloride acetone	14000	4400	UNCETECTED	UMETECTED 81	UNETECTED	MOETECTED	LOGETECTEN	REJECTED	LANE TECTED
trans-1, 2 yichlerestnese	21000	27000	UNCETECTED	UNDETECTED	UMETECTED	SOCIECIED	METECTEN	32 UGETECTED	DETECTED
1,2-dichl@rethere	13000	300	UNDETECTED	UNGE TECTED	UNDETECTED	CETECTED			TOTE TECTED
I, I, I-trickleresthese	7900	. 8466	METECTED	UNCETECTED		MOEJECIED MOEJECIED	UNETECTED OF THE PROPERTY OF T	CONTRACTOR	UNE TECTED
1, 1, 2, 2-t grach lereet have	2000	2000	UMETECTED		UNETECTED	GOETECTED	WETELTER	UMETECTED	DUE TECTED
r, r, c, c=r gracul washing chlaresthing	UNETECIED	GOETECTES	UNE TECTED	· UNDETECTED UNDETECTED	UNCETECTED UNCETECTED	OCCIECTED.	MARTECIEN	UNETECTED UNETECTED	DE IECIED
trichlored hone	1566 2566	1900	UNCTECTED	UMETECTE		GO ETECTED	CONTRACTED IN	OGETECTES	MORTECTED
vinyl chloride	UMETECTED	GOETECTED	UMETECTED	UNETECTED	UNDETECTED UNDETECTED	GOE LECTED	UMETECTES	UGE TECTED	LOCE TECTED
persone	3300	2900	UNCE TECTED	WESTECTED	UNDETECTED	GOETECTED	MOETECTER	UGE TECTED	INTETECTED
4-authyl-E-pentarana	LOGETECTED	:: 13000	CHOC LECTED	UMETECTED	UGETECTED	OCCUENCE	MOETECTED	UGETECTES	DOE TECTED
fluoretrichlerenethane	MOETECTED	OGE TECTED	UGE TECTED	MOETECTED	UNCETECTED	MOE LECTED	UGETEETET	WEETECTED	UNE TECTED
tetrachloristhese	6189	13000	UNETECTED	WESTECTED	UNETECTED	HO ETECTED	UMETECIEN	DOCTOTO	be recres
tolume :	61000	10000	UNETECTED	WETECTED	UNETECTED	GETECTED	WETECTED	BOETELLED	. DOETECTED
2-butaner®	\$2000	43000	UNETECTED	UGETECTED	UMETECTED	GO E TECTED	DOETECTED	UGETECTED	WETECTED
2-heusser ë	8900	GGETECTED	UNGETECTED	UGETECTED	WESTECTED	GETECTED	METECTEN	WETECTED	DE TECTED
Ethylbenzine	J 4200	5100	UNCETECTED	UMETECTED	UNETECTED	GOETECTED	UGETECTE	OGETECTED	UNETECTED
Total Tylines	10000	21000	LACETECTES	LIMETECTED	UNETECTED	GETECTED	UMETECTED	UMETECTED	METECTED
SENIVOLATÎLE	PREL ENTHERRY	FI	PRELININGRY .	PRED, INLINERRY	PREL ININGRY	PARA LITTURAN	PRELININGRY	FINAL	PRELIBITORY
	ug/l	a	ug/l	eg/1	ug/1	4 /1	ug/l .	ug/l	4/1
2,4-disetivistano)	100000000	GRETECTED.		ADDRESS OF THE SECOND	ADDRESS CO.	OC ETECTED	WOETECTED	UG ETECTED	DOMETECTED
Resol	UNDETECTED		UNETECTED	UNETECTED	UGETECTED		MOETECTES	UGETECTED	METECTED
his (-2-Chieroethy) (Ether		14000 g 3200	LAGETECTED	LAGETECTED	UNCETECTED	OC ETECTED	MOETECTER	UCETECTED	UNE TECTED
1,4-dichl ärabensens	2200	GOETECTED	LAMETECTEN	MOETECTED	UNDETECTED	DOETECTED	MOETECTED	MUETECTED	UNE TECTED
Benzyl Algohol	UNCETECTED		UNDETECTED	LACETECTED	UNCETECTED		METECIEN	UGETECTED	UNE TECTED
	UMETECTED	650	LOCETECTED	· UMETECTED	UNCETECTED	MOETECTED	UGE TECTE!	WESTECTED	ME TECTED
1, 2-Dichlärsbenzese 4-Nethylgienoi	918	330	UNETECTED	LAGE LECTED	UNDETECTED UNDETECTED	MOETECTED MOETECTED	METECIEN	UGE TECTED	De recres
(sophoroid	(3)	1500	UNETECTED .	UNDETECTED UNDETECTED		OOE TECTED	MOETECTED	WOETECTED	METECTED
	1200	2000	i i		LOCETECTED	MOE TECTED	MOETECTE	UNCETECTED	LOGETECTED
2-arthylphenol Banzaic Arid	UNETECTED	248 5300	. LOGETECTED	UNCETECTED UNCETECTED	UMETECTED	GO E TECTES	UME TECTED	DEFECTED	VETECTED
	2100		LAGETECTED		UCETECTED	OC ETECTED	UMETECTED	J 10	UNE TECTED
Di-a-Buty Ighthalate	UNETECIED	200	LOGETECTED	UCETECTED	UNETECTED	DO ETECTED	MAC LECTED	16	INCETECTED
bis(2-Etiffhery))Phthalate	UNCETECTED	250	UNCETECTED	UNCETECTED UNCETECTED	UNCETECTED UNCETECTED	ther tected	MOE LECTER	UNCETECTED	UNETECTED
91-a-Octyl Phthalate	UNCETECTED	ÖCETECTED	UNDETECTED			· POETECTED	METECTE	UNCETECTED	UNETECTED
naphthajejje diethul diethalada	J 226	120	DESERVICE OF THE PROPERTY OF T	INCETECTED	UNDETECTED	(ACETECTED	UGETECTE!	MOETECTED	UNETECTED
diethyl githalate	UNDETECTED	MOETECTED	UNCETECIEN.	UNCETECTED	UNETECTER	MOETECTED	MOETECTED	UNDETECTED	UNETECTED
benzyl alĉohol :	LAGETECTED	UNDETECTED .	UNCETECTED	UCETECTED .	UNCETECTED		INDETECTED	LINDETECTED	UNDETECTED
Phenenthrène	INDETECTED	CHOETECTED	UMPETERTED	INDETECTED	FINDELECTED	UNDETERIED	UMER IEE IEU	USE ICLIEB	UNDE TELTED

HELEN KNOWER LANGFILL GREENWATER QUALITY ANDLYTICAL NESSETS

Sample Location Sample Code	17-46 15 104	1-46 15-294	1-56 15 165	1-65 IS 186	1-69	1-75	1-70	1-70	1-65
Studies Cons	12 (44	13 CP1	T2 140	12 (40	XD 106	XS 107	19 107	10 207	.XS 100
Inertanic Samte 0	1980 477		IB 992	10 991	10 9%	IB 995	180 4C		HBD 993
Oreanic Sample 8	9 4192		8 4182	D 4104	D 4183	D 4185	B 4186		B 4187
Bate Sampled	12/6/04	01/03/05	12/4/04	12/4/84	12/4/84	12/5/84	12/5/04	01/03/05	12/5/84
Bate Shipped	12/5/84	01/03/85	12/6/84	12/6/84	12/6/04	12/6/84	12/6/84	01/03/05	12/6/84
Note Shipped						,	55.5.5		
North Grid	345192, 423518	345192.423510	3A3767.259282	343513. 12 89 54	343514.879150	346159.991358	346153.786090	346153.986090	344672.645721
East Grid	1850499, 075463	1839499, 875403	1859990. 406590	1850076.550619	1850004, 715134	1851283, 747789	1851202.733150	1851202.733150	1051019, 123350
SAS ANADETER	FINAL	PRELIMINARY	FINAL	PREJ. EMEMORY			PRED EMENARY	PRELIMINARY	
**************************************	ug/l	ug/ 3	. ug/l	ug/1			ug/1	09/1	
Chloride	NOT REPORTED	. 93000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	3000	NOT REPORTED
Salfate	UNETECTED	UNCETECTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NUT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED
Hitrote	NOT REPORTED	400	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UMETECTED	NOT REPORTED
Carbonate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	120000	NOT REPORTED
TOC	600000	1500000	2000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	9500	NOT REPORTED
100	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UGETECTED	NOT REPORTED
COB .	NOT REPORTED	330000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	13000	NOT REPORTED
Alkalinity, pht	NOT REPORTED	UNDETECTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	110000	NOT REPORTED
Albalinity (CaCB3)	NOT REPORTED	25,0000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	170006	NOT REPORTED
Alkalinity, by dro xi de	NOT REPORTED	WETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	50000	NOT REPORTED
Phosphorus, Total	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alkalinity, bicarbonate	NOT REPORTED	25,0000	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED
Alkalinity, carbonate	NOT REPORTED	UNCETECTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	120000	NOT REPORTED
Amenia	NOT REPORTED	67000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	AUT REPORTED	300	NOT REPORTED
Sulfide	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	13000	HOT REPORTED
Petroleum Hydrocarbons	NOT REPORTED	NOT REPORTED	HOT REPORTED	MOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	MET REPORTED	NOT REPORTED
196	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED
fluorido, soluble (f)	NOT REPORTED	UMETECTES	ICOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	200	NOT REPORTED
Total P	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED
Halogen(TOX)	REJECTED	65000	7	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UMETECTED	
pH	NOT REPORTED	5300	HOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	10900	NOT REPORTED
Sulfate, turbidinetric	NOT REPORTED	87000	MOI REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	13000 UNGETECTED	NOT REPORTED
2,4,0 (80)	NOT REPORTED	LAGETECTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED
2,4,5 TP (Silven)	NOT REPORTED	UNCETECTED.	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	9.6	NOT REPORTED
Carbon, organic Enhigh discoluted at 1880	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	MOT REPORTED	NOT REPORTED		225000	NOT REPORTED
Solids, dissolved at 100C	NOT REPORTED	2410001	NOT REPORTED	NOT REPORTED	NOT REPORTED	MOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED
Solids, Suspended	NOT REPORTED	HOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	unho/cm3 310	MET REPORTED
Specific Conductance,25C	NOT REPORTED	unno/cm3 2900	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	MUI REPUBLED	-min/cm2 21A	MINI METANICA

HELEN KROVER LONGFILL
MICHOGRAFIER QUALITY CORLYTICAL RESILTS

,				IER CTATILA MASTALIO	L RESILIS				
Shaple Location	1-46 15 104	1-45 15 204	1-55 15 A5	1-65 15 166	1-60 10 166	1-75 15 107	1-10 10 (0)	1-79 10 207	I-85 IS 166
	33 10 1			A3 (80		43 107	19 (0)	AD CO!	Y2 100
(Morganic Sample 0	1900 477		10 %	10 991	10 9%	MB 995	ren 🗱		MBD 993
Myanic Sample I	0 4192		0 4100	B 4184	D 4183	8 4185	D 4 8 8		, D 4187
lite Sampled	12/5/04	01/03/05	12/4/04	12/4/04	12/4/04	12/5/84	12/5/34	01/03/05	12/5/84
lite Shipped	12/6/84	01/03/05	12/6/64	12/6/84	18/6/04	15/6/04 '	12/6/14	01/03/05	12/6/04
lifte Shipped			10 m				2.02		t
inth Grid	345192. 423518	JASI 92. 425518	343767. 2392	JAJS13. 120954	3A3514. 87915 0	346 159. 991 358	316151, 16690	346153.986990	344872.645 721
Eint Grid	1850499.075463	1830/99.075/03	1650990, 466598	1850676.550619	1 05000A. 71513A	16512 9 3, 747 799	1851802, 737730	1851892.733159	[651019.1833 50
ELD PROVETERS		•	•				•		•
Fine (gm)	4.75	15.0	. 17	1.9	į	NUT HERBURED	.12.0	15.0	1.0
ing. (Colorus)	11.1	10.0	<i>≱</i>	11.0	16/5 6- 6 1 1 8 2	11.5	11.5	iae	(0. 9
A	5.Q	HET HERBLIKE	HET HERILINES	4.61	6.41	5.15	6.65	5	4.67
Specific Conductivity (Suborce)	. 55	125	153	25	ıë	85	, 9 9	325	185
Engelics	FINAL	FINEL	FIIOL	FINAL	FINEL	FINAL	FINE	FINAL	PREL INTERPRET
v.	49/1	mg/1	ug/i	ug/1	mg/1	wg/l	أرو	ug/1	49/1
Îmina	DOCTECTED	500	. 286	269	UCETECTIO	921	% ×(49)	LOGE TECTED	1840
it isom	UGETECTÉ	UGETECTED		MOETECTED	UME TECTED	UMETECTED	UNE PECTED	UGETECTED	. USETECTED
Frenic	WHICH IELD	70	UNETRIED	UNDETECTED	UNDE TECTED	MOETECTED	UNE PETER	REJECTED	
	(122)	GMETECTED	1100	229	1113	(67)	(4)	UGETECTED	(3. <i>1</i>) 222
ryllia:	MOETECTES	UGETECTED	UNE TECTED	(0.6)	UCETECTÉ	UNGETECTED	UNE PECTED	UNCETECTED	(0.8)
	Lå	(3)	MACHECIED	LIGHTECTED	OMETECTED.	LOGETECTED	UNE PICTED	(.6)	UMETECTED
Alcie	13000	216 000	6.300	6979	5150	13000		25000	6190
Protion	12	39	½. ½ 14	22	UGETECTED	13	\$400 5.91	UNETECTED	. 50
halt	193	276	UNETRITES	(9.1)	WETECTES	(11)	UNEINCIED	MOETECTED	(51)
Apper	(12)	WHETECTED	ţ161	(14)	UCETECTÓ	(10)	(11)	UNCETECTED	(9.3)
ron	11600	175000	1300	318	ariting.	1540	397	839	4680
	11	REJECTED	12 22 12	(3.2)	(3.6)	(2.71	4.9	REJECTED.	9.3
janide .	NOT REPORTED	UGETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPRINTED	UNETECTED	NOT REPORTED
Byresium	7100	83000	(J)901	7980	(4210)	(3480)	(1500)	2920	11200
lingarese	5070	6868		85	4	53	20	51	180
Preury	UMETECTES	UMETECTED	UNETECTED	UMETECTED	OGETECTÉ	UNCETECTED	WEITER	LINGETECTED	UNCETECIED
ijche)	ú	9	tin	(35)	(11)	(22)	9. .91	MOETECIED	52
Startion	1800	21000	· (4960)	5370	(4300)	[3070]	(§30)	29000	(2980)
M lenius	1	14	UNETECTED	UCCETECTED	UCETECTED	LOGETECTED	est in the same	LOGETECTED	UNCETECTEO
il I ver	19.1)	UNETECTED	WETELTED	MOETECIED	MOETECTED	UNDETECTED	UNETRITED	UMETECTED	UNDETECTED
idies	27200	25000	R JECTED	REJECTED	REJECTED	UNDETECTED	JE JETED	11000	REJECTED
Nollium	WE TECTED	UNETECTED	WETELIED	UMETECTED	UMETECTE!	UNCETECTED	UNETERIED	LOUIETECTED	UNCETECIED
ila	MOETECTED	UNETELTED	UNETECTED	MOETECTED	WETECTED	LAGETECTED	WEIETED	NE JECTED	UNDETECTED
Analia	(12)	(6)	UNETELTED	UMETECTED	MOETECIED	UNCETECTED	UNETECTED	LOCETECTED	(8.2)
line	550	610	MEJETTED	132	REJECTED	41	REJECTED		285
Percent Solids	NOT REPORTED	HET HERWITED	NOT REPORTED	NOT REPORTED	NUT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

HELEN KROVER LANGFILL GROUNDWATER QUALITY ANALYTICAL RESILTS

Sample Location Sample Code	11 505 1-51	I-21 I 1 202 AUP.	19 102 17-29	1-35 15 163	TD 104	ID 164 BUP.	19 104F9 _.	19 10A19
Inorganic Sample 8 .		•	MBA 472	HBA 478		•		
Organic Sample 0			B 4195	D 4193.	1-49-A	1 -10-0	1-14	1-15
Date Sampled	01/03/85	01/03/05	12/6/84	12/6/84	3/11/65	3/11/05	3/11/85	3/11/65
Bate Shipped	01/03/05	01/03/85 ·	12/6/84	12/6/84	3/11/85	3/11/65	3/11/85	3/11/65
Bate Shipped								
North Grid	346711.688838	346711.680030	346651.738498	346243.986452				
East Brid	1049774. 036171	1849774. 035171	1049730, 330316	1850370.272627			•	
Denzemethanol	UMETECTED	UNCETECTED	UMETECTED	J 130	LAGETECTED	WETECTED	UNCETECTED	WETECTED
Ethanol, 1-(2-Butenyethony)- 1, 3-Cyclohexanedione, 2-Butyl-	DOCTECTED	UNETECTED	WETECTED	J 13	UNDETECTED	UNETECTED	MOETECTED	UNETECTED
2-lethy1-	UNETECTED	UGETECTED	LOGIETECTED	1 60	UNCETECTED	UNETECTED	UMETELTED	LOGE TECTED
things.	J 20	J 100	UNCETECTED	UMETECTED	UNCETECTED	MOETECTED	WETECTED	DOCTECTED
Unkacen	j 20	UMETECTED	UMETECTED	UNETECTED	UNETECTED	UGETECTED	UNETECTED	DOETECTED
Urknow	J 108	UGETECTED	UNCE TECTED	UNCETECTED	MOETECTED	UNETECTED	DOETECTED	DOETECTED
							UNETECTED	WESTELTED
Unknown Hydrocarbon	J 10	UNETECTED	UNCETECTED	LOCETECTES	MOETECTED	UNCETECTED		
Unknown Hydrocarten	J 10	MAETECTED	UMETECTED	UCE TECTED	UNCETECTED	UMETECTED	LAGE TECTED	LOGIE TECTED
Hexamdioicacid, Dioctylester Hexame, 3, 3-Dinethyl-	J 30 J 10	J 28	UNCETECTED	UNE TECTED	UNIETECTED		UNETECTED	LOUBETECTED
		UNETECTED	UMETECTES	UNETECTED	UGETECTED	UGETECTED	LOCKETECTED	UMETECTED

HELEN KRINER LANGFILL GROUNGHATER QUALITY ANGLYTICAL RESILTS

نگز								
in location	1-21) 1-21	1-20	1-JS			*	
mile Code	11 502	\$1 202 BUP.	ed 105	IS 103	104 Gİ	to 104 our.	10 104FÐ	ID 104TD
ndiamic Sample #			MBA 472	MBA 478				
rainic Sample I		•	B 4195	8 4193	1-40-A	1-40-8	I-14 .	1-15
at & Campled	01/03/05	01/03/85	12/6/84	12/6/84	3/11/65	3/11/85	3/11/85	3/11/85
stå Shipped	01/03/05	01/03/05	12/6/84	15/6/84	3/11/05	3/11/05	3/11/85	3/11/65
pti Shipped		d.	182 1			471744	9/11/83	3/11/63
orth Grid	346711.686839	36711.600030	346651.736790	346243, 986452				
nst Grid	1049774.636171	1049774.036171	1849738. 338316	1850370.272627				
E ICINE	****	Pluts	PREL INTROPY	diff. furnish		******		
.57 ICIE	FINAL ug/i	FENAL ug/1	ne i inimata	PRELIMINARY ug/l	PRELIMINARY ug/1	FINAL ug/1	FINAL wg/l	FIML m/l
G		-	4.742	-g/ -	-g	adv.	(.2)A	 /-
ministra 1	MOETECTED	UMETECTED	une fitte	UNDETECTED	WETECTED	UNETECTED	DOEFER	UNDETECT
ndfiselfan Sulfate	UMETECTED	LOCISTECTED	um fet fe	UNDETECTED	UNDETECTED	UNDETECTED	UNCE TEE IED	LOGETECT
p <u>l</u> achlor	MOETECTED	UNBETECTED	uaelecifo	UNCETECTED	UNIVETECTED	UMETECTED	MEETER	LAGE TECT
 ∳ -11C	UNCETECTED	LAMETECTED	une jet jed	LOGETECTED	UNDE TECTED	UNCETECTED	LNOERECRO	UNDETECT
M≸-BIC	MOETECTED	UNDETECTED	UNDERECTED	LOUVE TECTED	UNCETECTED	UNETECTED	unetecte	UNETECT
più BC (Lindare)	UNDETECTED	UNETECTED	UNE FECTED	UNDETECTED	UNICE TECTED	UNCETECTED	UNEFETED	LOGE TECT
el ta-B C	MORETECTED	UNIETECTED	uae řetřěd	MOETECTED	LOCKETECTED	UNETECTED	UNE PER PLAN	UNETECT
M3150	MOETECTED	UMETECTED	LOGE PER TED	LOCETECTED	LAGETECTEN	WOETECTED	UNE RECTED	LAME LECT
BC	WOETECTED	UNETECTED.	LAME TECTED	LACE TECTED	UNCETECTED	UNETELTED	USE EL PED	UNETECT
olfa-DC	UNCETECTED	WETECTED	UNETECTED	UMETECTED	WESTECTED	LAGETECTED	DOE FEETED	UNDE TECT
min BC(Lindane)	DOETECTED	UGETECTED	UME PEC PED	UNDETECTED	UMETECTED	UMETECTED	uer et it o	USE TECT
die.	UNETECIED	MOETECTED	UNE PECITO	MACTECIED	UMETECTED		UNE EE ED	
splachler Exposide			UNITE PECTED			UNDETECTED	nest letter	LOGETECT
	UGETECTED	UMETECTED		UNCETECTED	UNETECTED	UNDETECTED	uae lecito	LOGETECT
ieldrin 410E	UMETECTED	LAGETECTED	LINE TECTED	UME TECTED	LAGETECTED	UNCETECTED	tone lecito	UNCE TECT
	UNETECTED	UNCETECTED	LINE PECTED	ENCETECIED	LAGETECTED	UMETECTED	DOEFTE	UNCETECT
	UNDETECTED	UMETECTED	nac let les	UMETECTED	UNITE TECTED	UNDETECTED	nac (EE 160	UNETECT
divilfate II	MOETECTED	LONETECTED	URE TECTED	UNDETECTED	UNCETECTED	UNETECTED	MAEJELED	LINGE TECT
4 - 000	UNETECTED	UNDETECTED	MOETELIED	LOGETECTED	UNGETECTED	UNCETECTED	MAEJECHED	UNDETECTI
47-001	DOCTECTES	UMETECTED	UNEFECTED	LACETECTED	WETECTED	UMETECTED	UNE PECIED	LOGETECT
BUNITIVELY IDENTIFIED CONTOURS	****	Press.	PRELININGRY	PREL ININARY	FINAL	FINAL	FINE	FIRE
	7 1 E 2	PIRE						
	F1164. 49/1	FINAL ug/l	ug/i	ug/l	ug/l	ug/1	m/1	wg/l
	49/1	w y/1	w/i	ug/ 1	ug/l	u g/1	4/1	•
	ug/I UNCETECTED	ug/l Undetected	ug/l UNGE PECITO	ug/l J 130	ug/l UNGETECTED	ug/1 UNDETECTED	ug/l (Date let led	UGETECTI
thine1,2-butony-	49/1	w y/1	w/i	ug/ 1	ug/l	u g/1	4/1	WETECT
thinel, 2-butony - icit le(2.2. 1 H upt ar 2-oud , 1,	ug/I HOETECTED LIGETECTED	ug/l Undetected	ug/l Unde fected Unde fected	ug/l J 130	ug/l UNGETECTED	ug/1 UNDETECTED	up/1 Unat ECTED Unat ECTED	UNGETECTI
Mirel, 2-butony	ug/I UNCETECTED	ug/l Undetected	ug/l UNGE PECITO	ug/l J 130	ug/l UNGETECTED	ug/1 UNDETECTED	up/1 (Jac Hickin) (Jac Hickin) (Jac Hickin)	UNGETECTI
Highel, 2-butony- icje lol 2.2. i Hisptan-2-ond, 1, 7, 7-Trimethyl-	ug/I HOETECTED LIGETECTED	ug/l Undetected Undetected	ug/l Unde fected Unde fected	ug/l J 130 J 230	ug/l undetected undetected	ug/1 Undetected Undetected		UMETECTI UMETECTI
Minol, 2-butony- icit lol 2.2. 1 Minot an 2-ond, 1; 7, 7-Trimethyl- rt grossno	ug/I Udetected Udetected	ug/1 UMETECTED UMETECTED	ug/l LAGE TECTED LAGE TECTED	ug/1 J 130 J 230 UNDETECTED	ug/l UNDETECTED UNDETECTED UNDETECTED	ug/I Undetected Undetected Undetected	ug/1 Unit litrito Unit litrito Unit litrito Unit litrito	UNDETECTI UNDETECTI UNDETECTI UNDETECTI
Highel, 2-butony- icyclo(2,2,1 Maptan-2-ond, 1; 	ug/I UMETECTED UMETECTED J 30 UMETECTED UMETECTED UMETECTED	METECTED UNDETECTED UNDETECTED UNDETECTED	uge fecto uge fecto uge fecto uge fecto uge fecto uge fecto uge uge uge uge uge uge uge uge uge uge	ug/1 J 130 J 230 UNDETECTED UNDETECTED UNDETECTED	ug/l UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	UNICETECTED UNICETECTED UNICETECTED UNICETECTED UNICETECTED UNICETECTED UNICETECTED	ug/1 Unit litrito Unit litrito Unit litrito Unit litrito	UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI
thins, 2-butony- icjt lo(2,2,1 Maptan-2-om, 1; 7,7-Triunthyl- ctatosane ctatosane apliatocane	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED	une fiction une fiction une fiction J 2 J 9	J 130 J 230 J 230 UNDETECTED UNDETECTED UNDETECTED	UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	ug/1 Unit little Unit little Unit little Unit little Unit little	UNETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI
Highel, 2-butony- icyclo(2.2. 1 Maptan-2-ond, 1; 7, 7-Trimethyl- ctacosane ctacosane optidecane -Pantanone, 4-Methyl-	MACTECTED UNDETECTED J 30 MOCTECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED	ug/l LINE FECTED LINE FECTED J 12 J 9 J 11 LINE FECTED	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50	ug/1 UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	UNIVERSE OF THE PROPERTY OF TH	ug/1 UNE TETED	UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI
thine), 2-betony- icycle(2,2,1 Hepton-2-ond,), 7,7-Triusthyl- ctilesone ctilesone pplidecone -Partonone, 4-Nethyl- -Partonone, 4-Nethyl-	UNGETECTED UNGETECTED J 30 UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED	unce fection LINES FECTION LINES FECTION J 12 J 9 J 11 LINES FECTION LINES FECTION LINES FECTION	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50 J 300	ug/1 UNDETECTED	UNCETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	une feries une feries une feries une feries une feries une feries une feries une feries	UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI
thinel, 2-butony- icit lef2.2. I Hisptan-2-ond, I, 7,7-Trimthyl- ct it osane ct it osane optionese -Mitanone, 4-Nethyl- -Mitanone, 4-Nethyl- mitane, Nethyl-	UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED	unce fection unce fection unce fection J le J 9 J li unce fection unce fection unce fection unce fection	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 58 J 300 J 350	ug/1 UNDETECTED	UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED	up/1 UNE TETED	UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI
thinel, 2-butony- icit lef2.2. I Hisptan-2-ond, I, 7,7-Trimthyl- ct it osane ct it osane optionese -Mitanone, 4-Nethyl- -Mitanone, 4-Nethyl- mitane, Nethyl-	UNGETECTED UNGETECTED J 30 UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED	unce fection unce fection unce fection J le J 9 J li unce fection unce fection unce fection unce fection unce fection unce fection	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50 J 350 J 100	ug/l UNDETECTED	UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED	unce for finance f	UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI
thinel, 2-butony- icit lol2.2. I Heptan-2-ond, I; 7,7-Trimthyl- ctilosare ctilosare phidecare -Mitanore, 4-Hethyl- enive, Nethyl- lidge, TetrachloroMitanore, 4-Hydrony-4-Hethyl-	UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	unce fection unce fection unce fection J 12 J 11 unce fection unce fection unce fection unce fection unce fection unce fection unce fection unce fection	ug/1 J 130 J 230 UNDETECTED UNDETECTED UNDETECTED J 50 J 300 J 350 J 100 J 26	ug/l UNDETECTED	UNICETED UNICETED	up/1 UNE TETED	UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI UNIETECTI
thinel, 2-butony- icit lol2.2. I Heptan-2-ond, I; 7,7-Trimthyl- ct itosare ct itosare spildecare	UNCETECTED UNCETECTED UNCETECTED	MONTECTED MONTECTED	UNCE PECTED LINE PECTED	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50 J 350 J 100	ug/l UNDETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	up/1 UNE PETED UNE ET PD	UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI
thinel, 2-butony- icit let2.2. I Hisptan-2-ond, I;	MOETECTED UNDETECTED	UNDETECTED UNDETECTED	UNDEFICITED LINEE FECTED	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50 J 300 J 350 J 100 J 26 J 5A	UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	UNEFECTED UNEFECTED	UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI UNDETECTI
thinel, 2-betony- icit lel2.2. I Hisptan-2-ond, I; 7,7-Trimthyl- titosane et itosane spindocane -Patanone, 4-Hethyl- Patanone, 4-Hethyl- ishne, Tetrachloro- laine, Tetrachloro- spinone, 4-Hydrony-4-Hethyl- spinone, 1,4-Bimethyl- spinone, 1,4-Bimethyl- spinone, 1,4-Bimethyl- spinone, 1,4-Bimethyl- spinone, 1,4-Bimethyl- spinone, 1,4-Bimethyl-	MOETECTED UNDETECTED UNDETECTED	UNEFECTED LINE FECTED LINE FECTED J 1 LINE FECTED	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED J 50 J 300 J 350 J 100 J 26 J 54	UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UNCETECTED UNGETECTED	unce fiction unce fiction	UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT UNIETECT	
Africal, 2-butory- icrelicit. 2. 1 Hisptan-2-ond, 1; 7, 7-Trimethyl- tiliosane tiliosane plidocane Africanone, 4-Nethyl- Africanone, 4-Nethyl- ichie, letrachloro- Africanone, 4-Hydrony-4-Methyl- ichies, 1, 4-Dimethyl- ichies, 1, 4-Dimethyl- ichiese, 1, 4-Dimethyl-	UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UMETECTED UMETECTED	UNEFECTED LINE FECTED LINE FECTED J 1 LINE FECTED	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED J 50 J 300 J 350 J 100 J 26 J 54	UNDETECTED UNDETECTED	UNCETECTED UNGETECTED	une lectes une lectes	UMBETECTI UMBETECTI
Africal, 2-butory- icrelicit. 2. 1 Hisptan-2-ond, 1; 7, 7-Trimethyl- tiliosane tiliosane plidocane Africanone, 4-Nethyl- Africanone, 4-Nethyl- ichie, letrachloro- Africanone, 4-Hydrony-4-Methyl- ichies, 1, 4-Dimethyl- ichies, 1, 4-Dimethyl- ichiese, 1, 4-Dimethyl-	MOETECTED UNDETECTED UNDETECTED	UNE PECTED LINE PECTED LINE PECTED J 12 J 11 LINE PECTED LINE PE	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50 J 350 J 100 J 26 J 54 J 100 J 32 S3	UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UNITED TED UNDETECTED	une ferito une ferito	UNIETECTI UNIETECTI	
thinel, 2-butony- icic lot2.2. 1 Haptan-2-ond, 1; 7,7-Triunthyl- ct acosane ct acosane phidecane -MathylMitanone, 4-Nethyl- phitanone, 4-Nethyl- phitanone, 4-Nethyl- phitanone, 4-Hydrony-4-Mathyl- profine, ly 4-Binethyl- profine, l, 4-Binethyl	UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	UMETECTED UMETECTED	UNE PECTED LINE P	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 36 J 350 J 100 J 26 J 5A J 100 J 25 J 25 J 25	UNDETECTED UNDETECTED	UNIVERSELLED UNGETECTED	unce fiction unce fiction	UNIETECTI UNDETECTI UNIETECTI
-Pfivelidiaone, 1-Nethyl- thinol, 2-betony- icficle.2. 1 Neptan-2-ond, 1; 7, 7- Trimethyl- rt stoame refisance -Pfitanone, 4-NethylPfitanone, 4-Nethyl- refise, Nethyl- thine, TetrachloroPfitanone, 4-Nydrony-4-Nethyl- mateue, 1, 4-Dimethyl- refise, 1, 4-Dimethyl- refise, 1, 1, 2-Disethyl- refise, 1, 1, 2-Disethyl- refised, 1, 1, 2-Disethyl-	UNCETECTED UNCETECTED	UMETECTED UMETECTED	UNE PECTED LINE PECTED LINE PECTED J 12 J 11 LINE PECTED LINE PE	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 50 J 350 J 100 J 26 J 54 J 100 J 32 S3	UNDETECTED UNDETECTED	UNITED TED UNDETECTED	une ferito une ferito	UNDETECTE UNDETECTE
thins, 2-but ony- icpt 10(2.2. 1 Hispt an-2-ond, 1; 7, 7-Trimthyl- ct diverse ct diverse ct diverse -Pipt some -Pipt some, 4-NethylPipt some, 4-Nethyl- endive, Nethyl- thins, TetrachloroPipt some, 4-Hydrony-4-Hethyl- endive, 1, 4-Bimethyl- endiveries tendinologid uniferset icacid thins, 1, 2-Bis (2-Chloroethory)- ordenide, 1, N-Bimethyl- endiverset icacid thins, 1, 2-Bis (2-Chloroethory)- ordenide, 1, N-Bimethyl-	MACTECTED UNDETECTED	UMETECTED UMETECTED	UNE PECTED LINE P	J 130 J 230 UNDETECTED UNDETECTED UNDETECTED UNDETECTED J 36 J 350 J 100 J 26 J 5A J 100 J 25 J 25 J 25	UNGETECTED UNGETECTED	UNIVERSELLED UNGETECTED	unce fiction unce fiction	UNDETECTE UNDETECTE

MELEN KRONER LINGS ILL GROUNGWRIER OURLITY MARLYTICAL RESULTS

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mole Location	1-21	1-21	1-20	1-JS				
auste Code	11 505	11 202 009. ,	ID 165	XS 163	ID 104	19 194 BUP.	ID 104FD	ID 104TD
rorganic Sample #			MBD 472	160 478				
manic Sanale 8	•		8 4175	D 4193	1-49-A	1-40-8	T-14	
ite Sampled	01/03/05	01/03/65	12/6/84	12/6/84	3/11/85	3/11/65	3/11/45	I-15 3/11/85
ite Shipped	01/03/05	01/03/05	12/6/84	12/6/84	3/11/85	3/11/05	3/11/65	3/11/65 3/11/65
ite Shipped							3/11/63	3/11/60
orth Grid	346711.680030	346711.680030	346651.738490	346243, 986452				
ist Grid	1049774. 035171	1849774.036171	1849738, 330316	1854370.272627	•			
GWICS								
			•					
LATILE	FINAL	FINAL	PRELIMINARY	PRETININGUA	FINAL	FINAL	Cture	F 1150
	ug/l	wg/I	. m3/1	ug/1	wg/1	1104L 104/3	F1101. ug/l	FINAL ug/l
landenzere		DOTE TECTED	AND WEST			·		-
ilorosenzene ilorofora	9.3		UGE TECTED	J 74	· UNDETECTED	UNDETECTED	UNETECTED	DEFECTED
	UGETECTED	UNDETECTED	UNDETECTED	LAGGETECTED	CHOCKTECTED	LACETECTED	UNDETECTED	UNDETECTED
1-dichloreethane 1,2-trichloroethane	UNIDETECTED UNIDETECTED	UMBETECTED UMBETECTED	UNDETECTED UNDETECTED	LACETECTED LAUETECTED	(DOETECIED	ODETECTED	UMETECTED	DOCTECTED
1-dichtaraethere	WOETECTED	UMETECTED	LACETECIED	J 50	UNCETECTED	OGETECTED	UNCETECTED	UNDETECTED
thylene chloride	(EJECTE)	REJECTED	UNCETECTED	J 2900	UNCETECTED	DETECTED	UCETECTED	DEFECTED
stone	15	UGETEETED	33	2500	J, D S UNDETECTED	J, B 5 UMETECTED	J,B 5	J,0 5
ans-1, 2-dichloroethene	WETECTED	UNETECTED	UMETECTED	UNCETECIED	5.5	5.3	J9 UNETECTED	54
2-dichloropthane	MOETECTED	UGETECTED	UNE TECTED	2700	UNCE TECTED	UMETECTED	METECIEN	UMETECTED UMETECTED
1,1-trichlorosthare	UNETECTED	UNCETECTED	MACIECIED	J %	MOETECIED	DICETECTED	DOETECTED	UNCETECIED
1, 2, 2-terachleroethane	UNCETECTED	UGETECTED	UMETECTED	LOCKETECTED	UNDETECTED	MOETECTED	UNGETECTED	UNDETECTED
lororthane	UMETECTED	UNDETECTED	UNETECTED	UNDETECTED	UNCETECTED	UNDETECTED	UNDE TECTED	UCETECTED
richleroethene	MOETECTED	UNGETECTED	UNCETECTED	410	UNCETECTED	MOETECTED	UNE TECTED	METECIED
myl chloride	UGETECTED	UMETECTED	UMETECTED	UNCETECTED	LAUSE TECTED	UNCETECTED	UNDETECTED	UMETECTED
wiene	WOETECTED	PRETECTED	UMETECTED	150	UNCETECTED	MOETECTED	UNCETECTED	UNCETECTED
cethyl-2-pertanore	UGETECTED	UMETECTED	UNDETECTED	UNCETECTED	UNICE TECTED	UMETECTED	UNCETECTED	UMETECIED
uorotrich]orosethane	UNCETECTED	LABE LECTED	UNCETECTED	UNCETECTED	LACETECTED	LIMETECTED	UMETECTED	UNCETECTED
trackloroethene	UGETECTED	UMETECTED	UNDETECTED	J BS	UNDE TECTED	UNCETECTED	UNCETECTED	UCETECIED
luene	WETECTED	UNETECTED	UNDETECTED	920	UNDETECTED	WETECTED	UNETECTED	LIME TECTED
butanere	USETECTED	UNCETECTED	UNDETECTED	1500	UNDE TECTED	LAMETECTER	LIMBE TECTED	WETECTED
heranone	UNCETECTED	UMETECTED	LIMBETECTED	820	UNCETECTED	UMETECTED	WETECTED	UNETECTED
hythenzene	9.3	9.2	UNETECTED	UNCETECTED	UNICE TECTED	UNDETECTED	WETECTED	UNETECTED
dal Tylenes	6.2	. 2.2	UNCETECTED	J 500	UNCETECTED	DOCTECTED	UMBETECTED	UNCETECTES
MIVOLATILE	FIME	FINAL	· PRELINIARRY	PREL INTHINTY	FINAL	FINAL	FINAL	FIML
	ug/ 1	ug/1	ug/1	ug/1	ug/l	wg/1	49/1	uq/1
4-disethylphenol .	UNETECTED	UNETECTED	MOETECTED	DETECTED	UNCETECTED	UNCETECTED	UNDETECTED	UNETECTED
enol	UNCETECTED	UMETECTED	UNCETECTED	120	J 10	UNC ETECTED	24	J 10
s(-2-Chl eroethy)1Ether	UNDETECTED	UNDETECTED	UNCETECTED	LOGETECTED	LOCKETECTED	UNDETECTED	UNCETECTED	UMETECIED
4-dichlorobenzene	UNDETECTED	UNGE TECTED	LACETECTED	LPICETECTED	UNDETECTED	UMETECTED	UMETECIED	UNDETECTED
nzyl Alcohol	UNCETECTED	UNCETECTED	UNCETECTED	. J 25	UNCETECTED	UNCETECTED	UNCETECTED	UNCETECTED
2-Dichlorobenzene	UNCETECTED	UGETECTED	UNCETECTED	UNCETECTED	UNCE TECTED	UNCETECTED	UNIOE TECTED	UNCETECTED
Methyl chenol	UCETECTED	UNCETECTED	UNCETECTED	J 10	UNCETECTED	UNDETECTED	UNCETECTED	LAIDE TECTED
ophorone	DOETECTED	UNCETECTED	LOCETECTED	140	UNCETECTED	UNCETECTED	UNCETECTED	UMETECTED
wethy i sheno!	LAGETECTED	COCCTECTED	UNETECTED	22	CHOCKECTED	LIGETECTED	COMETECTED	MOETECTED
nzoic Acid	UNCETECTED	UNCETECTED	UNDETECTED	UNCETECTED	LOCKETECTED	UNDETECTED	MOETECTED	UNDETECIED
-n-Buty)pothelate		18	UNDETECTED	UNCETECTED	MOETECIED	J,8 10	B 14	J,0 10
	J 16	• 11	LINDETECTED	LAIDETECTED	UNDETECTED	150	UMBETECTED	LACETECTED
si2-Ethylhesy1) Anthalate			INDESCRIPTION	UNDETECTED	LAGE TECTED	· UNDETECTED	LPIDETECTED	UNCETECTED
-n-Octyl Phthalate	UNDETECTED	J 10	UNDETECTED					
-n-Octyl Phthalate phthalene	UNDETECTED	UMBTECTER	UNCETECTED	UNCETECTED	UNIDETECTED	UNDETECTED	LINDETECTED	UNDETECTED
-n-Octyl Phthalate								

HELEN KRINER LONGFILL GROUNDHATER QUALITY ANALYTICAL RESULTS

Sample Location Sample Code	1-2i 11 202	1-21 11 282 N J.	हे-स भी विदे	t-35 15 103	ID 104	19 104 BUP.	ro loës	ID 19479
•		•	100 47E	100 ATA			4,	
Inorganic Sample 8			0.4195	MBA 478 0 4193	1-48-6	1-40-0	f-ič.	I-15
Organic Sample 0 - Bate Sampled	81/83/E5	01/03/05	12/8/04	12/6/84	3/11/85	3/11/85	עווע	1-13 3/11/ 6 5
Date Shipped	• 01/03/05	01/63/65	12/4/4	12/6/84	3/11/85	3/11/ 6 5	3/1/6	3/11/ 8 5
Bate Shiseed	41/63/63	41/43/63	16/6/67	15/0/04	3/11/03	3/11/63	3/11/03	3/11/60
North Brid	346711, 60003 ¹	344711.444630	31665 Î. 73Î198	246243,986452				
East Grid	1849774. 836171	1849774.636171	1849738. 138316	1858378, 272627				
SAS PRINCETER	PRED INDUMY	PRELINGUARY		FINAL				
•	49/1	49/1	· 🔆	wg/L	* · ·			144
Orlarida		68688	and a roomes	NOT REPORTED	HOT REPORTED	NOT REPORTED	A REPORTED	HOT REPORTED
Sulfate	NOT REPUBLIED		ME MERCETED	NOT REPORTED	IOI DEPONIED	NOT REPORTED	INT REPORTED	HOT REPORTED
Hitrate		100	HAT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HE REPORTED	HOT REPORTED
Cartonate	NOT REPUBLIED	•••	MEPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED	INTERPORTED	NOT REPORTED
TOE	17104	5000	HAT HE PORTED	21	NOT REPORTED	NOT REPORTED	ME PORTED	HOT REPORTED
100	7500	3900	und Mechanism	NOT REPORTED	HOT REPORTED	NOT REPORTED	en EPONIED	HOT REPORTED
COD	3)000	3,000	HE PORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HIT RPORTED	HOT REPORTED
Alkalinity, sht	UMETEČIĆI	UMETECTED	dit Mennten	NOT REPORTED	HOT REPORTED	NOT REPORTED	MET REPORTED	HOT REPORTED
Alkalinity (CaCB3)	(300)	68898	INT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	OF REPORTED	NOT REPORTED
Alkal inity, hydronide	UNE TEL TEL	UNETECTED	dat ade in the	NOT REPORTED	NOT REPORTED	NOT REPORTED	di Eranea	NOT REPORTED
Phosphorus, Total	NOT REPORTED		INT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	INT GPORTED	HOT REPORTED
Alkalinity, bicarbonite	(još)	5,0000	MT MERUNTED	HOT REPORTÉD	HOT REPORTED	NOT REPORTED	iği Branted	NOT REPORTED
Alkalinity, carbonate	MOETELTE	UNETECTED	MI ÉPOPTED	NOT REPORTED	NOT NEPONTÉN	NOT REPORTED	MI GRORIED	HOT REPORTED
Remonia	UMETETE	UNDETECTED	INT REPORTED	NOT REPORTED	NOT REPORTER	HOT REPORTED	iği il eponted	NOT REPORTED
Solfide	HOS REPUBLIER	NOT REPORTED	INT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	MI GRORTED	HOT REPORTED
Petroleus Hydrocarbolls	HOT REPORTED	NOT REPORTED	HÊT MEPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	iffi Geonies	HOT REPORTED
196	NOT REPORTED	NOT REPORTED	MET REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	iği (Eponte)	NOT REPORTED
Fluoride, soluble (F)	ૂં (છે)	100	ANT MERCHIED	NOT REPORTED	NOT REPORTED	NOT REPORTED	INT IE PERTED	HOT REPORTED
Total P	NOT NEPORTÉR	HOT REPORTED	OSTROPAÑ ÎM	NOT REPORTED	NOT REPORTED	NOT REPORTED	illi il pointen	NOT REPORTED
Malogen(102)	, N	42	ME PORTED	2270	NOT REPRINTED	NOT REPORTED	di Recutes	HOT REPORTED
ph 1	isa)	6500	INT ROOMED	NOT REPORTED	NOT REPRINTED	NOT REPORTED	iği Gero nten	HOT HEPORIES
Sulfate, turbidizetric	(10)	5700	MI MEPONTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	i i i i i i i i i i i i i i i i i i i	NOT REPORTED
2,4,0 tMN	une ichtel	MOETECIED	MI EPONIEO	NOT REPORTED	NOT REPUMTED	NOT REPORTED	mi geronien	NOT REPORTED
8,4,5 TP (Bilves)	METELE	UNDETECTED	INT REPORTED	NOT REPORTED	NDT REPÜRTEN	NOT REPORTED	OI GEPONIES	NOT REPORTED
Circles, organic	mil	50000	ME PORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	IN GEFORTED	NOT REPORTED
Solidi, dissolved at 1880	SŲ100 Į	216000	ight ifekonten	NOT REPORTED	NOT NEPŮRTEŮ	NOT REPORTED	IN REPORTED	NOT REPORTED
Solids, Suspended	NOT REPORTEÑ	NOT REPORTED	ADT NEPORTED	NOT REPORTED	MOT NEPŮNTEŮ	NOT REPORTED	NOT REPORTED	NOT REPORTED
Specific Conductance, 25C	Sunho/cm3 376	usho/cm3 428	NOT NEPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	ADT REPORTED	NOT REPORTED

HELEN KARNER LANGFILL Groundwrier durlity rikrytichl resilts

Sample Location Sample Code	11-21 11 282	1-21 11 282 R.P.	1-29 10 162	I-35 15 103	ID 104	TD 104 RIP.	19 10 4 73	* ID 164TB
Increasic Sample T			MR 472	180 478				
Granic Sample 4			D 4195	8 4193	1-40-6	1-40-0	I-14	1-15
Bate Sampled	01/63/65	01/03/05	12/6/04	12/6/04	3/11/65	3/11/85	3/11/85	3/11/ 6 5
Bate Shipped	01/83/05	01/03/85	15/2/04.	12/6/84	3/11/85	3/11/85	3/11/85	3/11/ 6 5
Bate Shipped		V., C., C.	12,000	10.00	- 11/05	3/11/63	3/11/63	3/11/63
North Grid	346711.600030	346711.688839	346651,738490	346243, 986452	• •			
East Grid	1849774. 036171	1049774.036171	1049730, 330316	1050370.272627				
FIELD MANUETERS		•						
Elm lamb	4.5	Iot nergued	5		With Manager		****	
Flow (ggm) Tamp. (Cetsion)	11.5	HUT HERELMED	11.5 14	0.5 14.8	NOT NEASURED	HOT HERSLIED	NOT NEASURED	NOT HEAGURED
	123 22		8.30	19.0 5.97	NOT RESEARCE	HOT HEASINED	NOT HEAGURED NOT HEAGURED	NOT HEASINED
pn Specific Conductivity (unho/cm)	3.C	NOT NEARLIES	250	3.97 195	NOT HEARINED	HOT HEAGURED	NUT VERSURED	NOT HEAGURED NOT HEAGURED
specific consecutivity (emores /	CBJ	MUI PERSUACE	C.M	130	NUI REMOUNES	MAI MENGURER	NUI RESQUIED	HUI REHEATED
INCORPORTES	FINAL	FINAL	FINAL	FINE				
	19/1	wg/1	99/1	wg/1				
	-9 ·	- T	-	-g				
Alexines .	880	990	UNCETECTED	3200	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Ant isony	UNETECTED	LOGE TECTES	UNCETECTED	UNDETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Arsenic	REJECTED	E JECTED	UNDETECTED	(6)	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED
Barius	UCETECIED	UNIDETECTED	[34]	(124)	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Beryllius	UNCETECTED	UNETECTED	UNETECTED	UCCTECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Cadnius	UMETECTES	UCETECTES	-UMETECTES	UNCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Calcie	16000	16000	11600	69000	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Chronius	. 20	10	(7.0)	ĸ	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Cobalt	(30)	[20]	UNDETECTED	UNCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Copper	UMETECTED	UNCETECIED	(3.6)	84	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Iron .	56100	27900	E44	31700	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Lead	[4]	REJECTED	[4.3]	5.1	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Cyanide	UCETECTED	UNETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED
Ragnesius	15000	16000	(371)	{4190}	HOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Hanganese	2200	2299	40	සා	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Hercury	LOGE TECTED	UNCETECIED	UNCETECTED	LOGETECTES	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Nickel	UNCETECTED	UNETECTED	(7.5)	(14)	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Potassium	(980)	(970)	13500	6740	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Selenius	UNCETECTED	METECTED	UNDETECTED :	LINCE TECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Silver	MOETECTED	WEETECTED	MOETECIED	UNCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Sofium	32000	33000	REJECTED	REJECTED.	NOT REPORTED	NOT REPORTED	NUT REPORTED	NOT REPORTED
Thallium	UMETECTED	WETECIED	ENDETECTED	UNCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Tin	LINCE TECTED	METECTED	UNCETECTED	UNDE TECTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
Vanadius	UNCETECTED	LMMETECTED	UDETECTED	(27)	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
line		36	ÆÆCTED	99	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Percent Solids	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

HELEN KIRNER LINGFILL GRENGHRIER CURLITY FORLYTICAL RESILTS

Sample Location	X-15 IS 161	X-11 X1 101	1-11	1-10	1-10	1-28	1-25	1-21
Sample Code	12 101	11 101	XI 501	XD 161	19S 6E	15 162	15 102 DUP.	11 105
Inerganic Sample 0	160 774	MBR 467		JEED 468		MIN 478	100 473	100 471
Branic Sample 8	9 2263	B 2262		B 2261		D 4197	D 4106	9 41%
Bate Sampled	12/4/84	12/4/84	01/02/05	12/4/84	01/02/05	12/5/04	12/6/04	12/5/04
Bate Shipped	12/5/94	12/6/84	01/03/85	12/6/84	81/83/84	12/6/84	12/6/84	12/5/04
Sate Shipped								22,000
North Grid	344462, 258997	34459,250640	344450, 250640	34442.619728	34442, 619728	346722.180450	346722, 180459	346711.600030
East Brid	1040589.976300	184511.69461	1848611.694861	1040631.337147	1040631.337147	1849777.051621	1849777.651621	1049774, 036171
STE PROPRETER	FINAL	FINAL	PRELIMINARY		PREL INTONNY			
	ug/]	49/1 -	49/1		wg/l			
Chlorida	NOT REPORTED	NOT REPORTED	10000	NOT REPORTED	2000	NOT REPORTED	NOT REPURTED	NOT REPORTED
Selfate	NOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	HOT REPORTED.	NOT REPORTED
Nitrata	NOT REPORTED	NOT REPORTED	17000	NOT REPORTED	INCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Carbonate	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
ta:	- 3000	7000	11900	NOT REPORTED	16700	NOT REPORTED	NOT REPORTED	NOT REPORTED
	NOT REPORTED	NOT REPORTED	1000	NOT REPORTED	2500	NOT REPORTED	NOT REPURTED	NOT REPORTED
COD .	NOT REPORTED	NOT REPORTED	7000	NOT REPORTED	19900	NOT REPORTED	HOT REPORTED	MOI REPORTED
Alkalinity, pht	NOT REPORTED	NOT REPORTED	UNGETECTED	NOT REPORTED	HOT REPORTED	NUT REPORTED	NOT REPORTED	NOT REPORTED
Alkalinity (CaCS3)	NOT REPORTED	NOT REPORTED	7000	NOT REPORTED	86000	NOT REPORTED	NOT REPORTED	NOT REPORTED
Alkalinity, hydrouide	NOT REPORTED	NOT REPORTED	UGETECTED	NOT REPORTED	UNCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Phosphorus, Total	NOT REPORTED	NOT GEPERTED	NOT REPORTED	NOT REPORTED	NUT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED
Alkalinity, bicarbonate	NOT REPORTED	NOT REPORTED	7000	NOT REPORTED	85.000	NOT REPORTED	. NOT REPORTED	NOT REPORTED
Alkalinity, carbonate	NOT REPORTED	NOT REPORTED	UNCETECTED	NOT REPORTED	UNCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Resonia	NOT REPORTED	HOT REPORTED	UNDETECTED	NOT REPURTED	UNETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Sulfide	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Petrolaum Hydrecarbons	NOT REPORTED	NOT REPORTED	UNDETECTED	HOT REPORTED	UMETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
196	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HUT REPORTED	NOT REPORTED
Fluoride, soluble (F)	NOT REPORTED	NOT REPORTED	UNDE TECTED	HOT REPORTED	300	NOT REPORTED	NOT REPUBLED	NOT REPORTED
Total P	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
Halogen(10X)	UMETECTED	UNDETECTED	27000	NOT REPORTED	15	NOT REPORTED	· NOT REPORTED	NOT REPORTED
pH	NOT REPORTED	NOT REPORTED	5700	NOT REPORTED	8000	NOT REPORTED	NOT REPORTED	NOT REPORTED
Sulfate, turbidimetric	NOT REPORTED	NOT REPORTED	3300	NOT REPORTED	15000	NOT REPORTED	NUT REPURTED	NOT REPORTED
2,4,0 (84)	NOT REPORTED	NOT REPORTED	UNCETECTED	NOT REPORTED	LOCETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
2,4,5 TP (Silver)	NOT REPORTED	NOT REPORTED		NOT REPORTED	UNETECTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Carbon, organic	NOT REPORTED	NOT REPORTED	11900	NOT REPORTED.	16700	NOT REPORTED	NOT REPORTED	HOT REPORTED
Solids, dissolved at 1880	NOT REPORTED	NUT REPORTED	NOT REPORTED	NOT REPORTED	148888	NOT REPORTED	NOT REPORTED	NOT REPORTED
Solids, Suspended	HOW REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED
Specific Conductance, 25C	NOT REPORTED	NOT REPORTED	unho/cm 3130	NUT REPORTED	usho/cs3 170	NOT REPORTED	NOT REPORTED	NOT REPORTED

HELEN KARNEN LANGFILL MICHIGANTEN GUPLITY MORLYTICAL RESILTS

	•				e realers		,	
Sample Location	I-15	I-11	1411	T-10	1-10	1-25	II: es la	1-21
Rample Code	XS 101	XI 10f	ri žši	XD 101	ID 501	IS 102	15 tot 100.	11 165
Prorganic Sample 8	IBA 994	MBD 467		100 468		MIR 470	ren issi	HER 471
Premic Sample 0	. 0 5563	D 2262	4 A	0 2261		B 4197	9 4180	B 41%
ate Sampled	12/4/84	12/4/84	91/乾/麟	12/4/84	01/02/05	12/6/04	12/\$/\$\$	12/6/84
pate Shipped	12/6/04	12/6/84	01/ 0 3/ 0 0	12/6/84	01/03/04	12/6/84	12/6/04	15/6/84
fate Shipped	•	•	. <u>.</u>				.,,	
Morth Grid	34462.86997 ₂	9445B.258844C	34438 ₁ 25 9 40	34442.619728	34442.61972 8	346722, 180430	346722-100030	346711.600030
East Grid	1846589. 976388	1846611.654661	184661 . 654661	1040631.337147	1040631.337147	1049777.051621	1949777.00(12)	1049774.036171
ÉMBRONICS					•			
	•						÷	
VOLATILE	PREL INDURY	PRELIBINARY	FI	PREL ENTINGY	FINAL	PREL ENTINGRY	PRES TRANSPORT	PREA_ENTERNAY
in mai	m/1	up/1	₩ 1	ug/1	49/1	ug/1	4/1	ug/l
Éblerelenzone	MOETECIEN	DÉSETÉCTES	SOE RECTED	LOGETECTED	PACTECÍE)	و و	ு நிற்ற	PRETECTE
thierefore	UGETECTED	UMETECTED	OUE TECTES	UCETECTED	DOETECIEN	UCETECTED	BOX TECTES	UNETECTE
1.1-dichloresthere	. USE TECTED	OGETECTED	ONE PECIED	UNE TECTED	MOETECTED	1 1	1	UNE TECTE
. 1.2-trichleresthere	UNDETECTED.	UNETECTED	AND RECTED	UNE TECTED	MAETECIEN	UMETECTES	Butlerren	UNETECTE
1, 1-dichloresthere	MOETECIED	DOETECTED	ONE RECTED	UGETECTED	UCETECIEN	UNETECTED	1	UMETECTE
acthylene chloride	UNE TECTED	UMETECTED	ME JECTED	LAGRETECTED	RECK!	UGETECTED	j s	
Acetone	Ü	190	47	340		WETECTED	ំ	g
frans-1,2-dichloreetheile	UGETELTED	. UNETECTED	OGETECTED	UMETECTED	UNETECTED	UMETECTED	DESTECTED	•
1,2-dichloraethane	MOETECTED	UGETECTED	DUE PECTED	UGETECTED	UNETECTED	DOETECTED	POETECIED	UMETECTE
1,1,1-trichloreethane	MACLECIED	UMETECTED	det fectes	UGETECTED	UMETECKE	UNETECTED	THE RELEASE	UGETECTE
1,1,2,2-torachloreethalie	(DOETECIED	DOETECTED	GNE FECTED	UNETECTED	LAGE TECHEN	DOETECTED	SET BETE	UGETECTE
thierorthese	UNE TECTED	UNCETECTED	dine fec ted	UNETECTED	UNE TECTED	DOETECTED	THE RECTED	UNETECTE
frichloroethene	DOETECIED	UGETECTED	due fectes	MOETECTED	WETECTED	UNETECTED	Batterro	UNE TECTE
Ŷinyl chloride	UO ETEC IÉD	UMETECTED	MOETECTED	UCETECTED	UNETECTED	UNETECTED	ductecres	UNETECTE
lenzene	WETECIED	MOETECTED	UNIE PECTED	UMETECTED	METECKE	19	19	UCETECTE
-arthyl-2-pentanene	UMETECTÉ	UNDETECTED	WEFECTED	UNIE TECTED	UGETECTED	UNETECTED	1 1 S	UNETECTE
fluoratrichloromethang	WOETECRED	UMETECTED	WEETECTED	UGETECTED	WOETECTED	UGETECTED	The terms	UMETECTE
etrachlorouthene	UGE TECHED	UNETECTED	LÎGIE TECTED	UNETECTED	MOETECTED	UNETECTED	datterren	UGETECTE
ļol uma	MOETECIED	DOSETECTED	CHUE RECTED	UNGE TECTED	UNETECTED	1 1	1 1	DOE TECTE
É-botanose	UGETEC (É)	MOETECTED	UNE PECTED	UNE TECTED	UME TELL TEN	UNCETECTED	j s	
Ê-hesanone	WOETECTED	UGETECTED	UNE RECTED	UNCETECTED	UNCETELTED	WETECTED	Ì	UNETECTE
Ethylbenzene	LAGE TECTE)	UNCETECTED	UNE PECTED	UCETECTED	UMETECTED	3	37	
lotal lylenes	MOETECHED	DOETECTED	WEETECTED	LAGETECTED	UNCETECTED	28	89	
EPITVILATILE	PRELIMINARY	PER INIMARY	FINE	PRELIKINARY	FINAL	PRELEMINARY	PER MINERY	PRELINGUARY
*	ug/l	49/1 ·	اڼ	ug/1	49/1	ug/1	4 1	wg/l
4-disethylphenol	VOETETÍÐ	UCETECTED	DOER CIED	UGETECTED	UNETECTED	J 13)	UGETECTE
Phenol	MOETECIÉD	UGETECTED	UNE PECTED	USE TECTED	UCE TECTES	DOCTECTED	THE PETED	METECTE
hist-2-Chloroethyl IEther	UGETECTED	DOETECTED	UNE PECTED	UMETECTED	UMETECTED	UNETECTED	die RECTED	UNETECTE
1.4-dichlorobenzene	MOETECTED	DOETECTED	UNE RECTED	UNDETECTED	MOETECIEN	METECTED	CHOE RECTED	WETECTE
Sunryl Alcohol	UNGE TECTED	UMETECTED	UNE PECTED	UME TECTED	UNETECTED		MUE PECTED	UMETECTE
1.2-Dichlorobensone	MOETECTED	METECTED	MOETECIED	UNCETECTED	UNE TECÎLO	METECTED	DE RECTED	WETECTE
4-Nethylphenol	UGE TECTED	UGETECTED	WELLCIED	UME TECTED	UMETECIED		that fecter	UNETECTE
Saghorene	MOETECTED	DOETECTED	UNE PECTED	UNETECTED	LINCETECTED		DE RECTED	UNE TECTE
-methy) phenol	. WOETECIËÜ	WETECTED	UNCTECTED	UNETECTED	DOETECTED		UNETECTED	MOETECTE
				UNCETECTED	WOETECIEN		UNETECTED	UNCE TECTE
Pensole Reid		(DOETECTED)					20	
enroic Acid	MOETECTED	UMETECTED UMETECTED	MOE JECLED		' io	UNITE TECTES	ÚME FECIFO	(DOME TECT F
enroic Acid i-n-Butylphthelate	UNCETECTÉD UNCETECTÉD	UNCETECTED		LIMBETECTED	·	_	UNDE FECTED Lâme Fected	
fenrolc Acid fi -n-Bu tylphthelate fis12-Ethylhenyl)Atha fate	UMBETECT ED UMBETECT ED UMBETECT EO	UNDETECTED UNDETECTED	ANDE MECLES SS	UNDE TECTED UNDE TECTED	, \	UNDETECTED.	LÍME F ECTER	UNCE TECTE
fenzoic ficid fi-n-ButyIphthelate fisi2-EthylhenyI)Mthefate fi-n-BityI Mthelate	UGETECTÉD UGETECTÉD UGETECTÉD UGETECTÉD	UNDETECTED UNDETECTED UNDETECTED	Mae lecten SS SS SS SS SS SS SS SS SS SS SS SS SS	LAMETECTED LAMETECTED LAMETECTED	40 LAMETECTED	UNCETECTED	UNE PECTED UNE PECTED	UNCE TECTE
Benzoic Acid Bi-n-ButyIphthelate Bis12-EthylhenyI)Mthelate Bi-n-BctyI Mthelate Baphthelene	UGETECTÉD UNGETECTÉD UNGETECTÉD UNGETECTÉD UNGETECTÉD	UNDETECTED UNDETECTED UNDETECTED UNDETECTED	22 Line ficted Line ficted Line ficted	UNDE TECTED UNDE TECTED UNDE TECTED UNDE TECTED	UNDETECTED UNDETECTED	UNGETECTED J 16	UNETECTED 29	UMBETECTEI UMBETECTEI UMBETECTEI UMBETECTEI UMBETECTEI
dentale Acid	UGETECTÉD UGETECTÉD UGETECTÉD UGETECTÉD	UNDETECTED UNDETECTED UNDETECTED	Mae lecten SS SS SS SS SS SS SS SS SS SS SS SS SS	LAMETECTED LAMETECTED LAMETECTED	40 LAMETECTED	UNGETECTED J 16 UNGETECTED	UNE PECTED UNE PECTED	UNCE TECTES

HELEN KROVER LANGFILL GROUNDWRIER QUALITY ANALYTICAL RESULTS

Sample Location	1-IS	1 -11	R-11	X-10	1-19	1-2S	1-2S	1-21
Sample Code	IS 101	II 1 6 1	XI 201	XD 161	XD 201	IS 102	is 102 dup.	11 165
	enn 654	ACT		100 V.S		MMA 434	400 ATT	MBR 471
Inorganic Sample 0	18A 994	IBA 467		1907 468 D. 2001	•	MBA 470	100 473	B 4196
Organic Sample 0	9 2263	1 5262	A	9 2261	A1 100 100	8 4197	D 4106	
Bate Sampled	12/4/84	12/4/64	01/02/85	12/4/84	01/02/05	12/6/64	12/6/84	12/6/84
Bate Shipped	12/6/84	12/6/84	91/03/05	12/6/84	01/03/04	12/6/ 84	12/6/84	12/6/84
Bate Shipped								
Morth Grid	34462.268987	34438.258846	344458.250040	34442.619720	34442.619728	346722. 1 86 45 8	346722.188458	346711.680030
East Grid	1848589, 976388	1846511.694861	1848611.694861	1846631.337147	1949631.337147	1849777. 651621	1849777.051621	1849774.036171
PESTICINE	PARTLEH THROUGH	POET ENTHANY	FINAL	PREL EMINARY	FINGL	PREL INTHONY	PRED. DATABATE	PREL INCHARY
	9/1	ug/i	ug/l	ug/1	ug/l	ug/i	ug/l	m /l
				WEETECTED	*********	IO DETECTED	10.000 1000000	
Enfosulfan 1	SOCTECTED	LOGETECTED	UNGETECTED		UNDETECTED	INGETECTED	UNITE TECTED	UMETECTED
Endoselfan Belfate	UNETECTED	UNETECTED	UNGETECTED	LACETECTED	UNDETECTED	UMETECTED	UNDETECTED	UNETECTED
heptachlor	MOETECTED	MAETECTED	UMBETECTED	COCETECTED	LOGETECTED	DOETECTED	WETECTED	UNETECTED
Alpha-DC	WHETECTED	UNETECTED	WEETECTED	UNE TECTED	UMETELTED	UNDETECTED	METECIED	UNCETECTED
Seta-BC	MOETECTED	WETECTED	LOCETECTED	LAGETECTED	UNCETECTED	WETECTED	UNETECTED	UNCETECTED
Same SIC (Lindane)	UNETECTED	WESTECTED	UMETECTED	UNCETECTED	UNETECTED	UCETECTED	LOCKETECTED	UMBETECTED
Delta-DC	UNDETECTED	DOCTECTED	UNCETECTED	LACE TECTED	LOCETECTED	LOCETECTED	UNETECTED	UMETECTED
PCD-1254	UNETECTED	UNETECTED	UMETECTED	UMETECTED	LOCETECTED	UNCETECTED	UNETECTED	UNDETECTED
Alph-BIC	WOETECTED	MOETECTED	UMETECTED	LINCE TECTED	UICETECTED	MOETECTED	UNETECTED	LOGETECTED
Belta-BC	UNETECTED	LOGETECTED	UMETECIES	LACETECTED	UNETECTED	UGETECTED	UNETECTED	UNCETECTED
Cama-BC (Lindme)	WOETECTED	WHETECIED	LOGIETECTED	LIGHTECTED	LOCETECTED	UNCETECTED	UMETECTES	LOGE TECTED
Aldria	UNETECTED	UNETECTED	UNETECTED	LOCKETECTED	UMETECIED	LAGETECTED	UMETECTED	LANDETECTED
Heptachler Exposide	MOETECTED	UNETECTED	UNDE TECTED	LAGE TECTED	UNCETECTED	ENGETECTED	LAGE TECTED	LAGETECTED
Dieldria	COME TECTED	DOCTECIED	UNE TECTED	UNETECTED	UNETECTED	UNETECTED	UNETECTED	LAME TECTED
4.4'-80E	OCTECTED	UMETECIED	UMETECTED	LOGIE TECTED	UNCETECTED	WOETECTED	UNETECTED	UNGETECTED
Endrin	UCETECTED	UMETECTED	UMETECTED	LAGE TECTES	UME TECTED	DOETECIED	UGETECTED	UNDETECTED
Endocalfate II	MOETECTED	UNETECTED	UNETECTED	UICE TECTED	UNCETECTED	MOETECTES	METECTED	UNCETECTED
	AMELECIED ,		UMETECTED		UMETECTED	UNIE TECTED	UMETECTED	UNDETECTED
4,41- 900 4,41 -90 1	LAGE TECTED	UMETECTED UMETECTED	UNETECTED	UNDETECTED UNDETECTED	WETECTED	METECTED	MACIELIED	UMETECTED
TEMATIVELY INSMIFTED CONFOLIOS	PRED. INCHRIBY	MET INTHUSA	FIRE	PRELIMINARY	FINAL	PRELINIMENT	FIML	METININGAA
	49/1	ug/1	ug/1	eg/l	wg/t	wg/i	eg/1	wg/l
Ethane, 1, 1, *-Ochis-	NOT REPORTED	NOT REPORTED	METECTED	NOT REPORTED	UNCETECTED	MOETECTED	J 31	UNCETECTED
1,3-Propagatio1,2,2-Starthy1-	ADT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED	WOETECTED	J 139	J 27	UNCETECTED
Bicyclol2.2.1 Heptan-2-one, 1,								
3, 3-Triesthy) -	NOT REPORTED	. NOT REPORTED	UNCETECTED	NOT REPORTED	· UCETECTED	J 79	J 120	UNCETECTED
Dicyclo(2.2.1) Westen-2-ons, 1,					•		•	
7,7-Trisethyl-	NOT REPORTED	NOT REPORTED	LAGETECTED	NOT REPORTED	UNCETECTED	MOETECTED	J 350	UMBETECTED
1, 3-Benzenadiol	NOT REPORTED	NOT REPORTED	WOETECTED	NOT REPORTED	UNDETECTED	UNCETECTED	Ja	UCETECTED
1, 12-Tridecadiene	NOT REPORTED	NOT REPORTED	UNCETECTED	NOT REPORTED	LOCETECTED	LINGE TECTED	. J 110	UNCETECTED
2, 5, 0, 11, 14-Pentaguagentadocano	NOT REPORTED	NOT REPORTED	UMETECTES	NOT REPORTED	UMETECTED	LOCKE TECTEO	J 51	MOETECTED
3-ffranci, 3,5-Disethyl-	NOT REPORTED	NOT REPORTED	WESTECTED	NOT REPORTED	MOETECTED	J 200	J 200	న
3-Hesanol, 3, 5-Directhy) -	NOT REPORTED	NOT REPORTED	UMETECTED	NOT REPORTED	UNCETECTED	J 34	J 34	UNDETECTED
	NOT REPORTED					j 4		MOETECTED
Denzoicacid, 4-11, 1-Disethyl	MI MINERICO	ADI REPURIED	. UNITE LECTED	NUT REPURIED	UNDETECTED	•	. 1 20	WWC ICC ICE
ethyl)-	NOT REPORTED	NOT REPORTED	LAGE TÉCTED	MOT GEORGIES	UNCETECTED	UNCETECTED	J 28	WOETECTED
	WIN WENT WICE	NUI REPUBLICA	OME IECTED	NOT REPORTED	UNKIELIEN	U-U-CICLIED	,	CHURC IECTED
Denzenesal Fenancido, II, II, 4-Tri methyl-	-	-		WAT				in the second
	MOT REPORTED	NOT REPORTED	UNCETECTED	NOT REPORTED	UNCETECTED	J 120	j M	UNCETECTED
•				NOT REPORTED	UNETECTED	LIMPETECIED	J 31	LIMBETECTED
2130 -Benzothiazolone	NOT REPORTED	NOT REPORTED	MOETECTED	MI METONIES			• ••	
2130 -Denzothiazolene Denzenesulfenaside, H-Dutyl-4-					•			
2130 -Benzothiazolane Benzenesul fonanide, H-Butyl-4- Hethyl-	HUT REPORTED	HOT REPORTED	UME TECTED	NOT REPORTED	UNCETECTED	J 36	1 25	UNCETECTED
2130 -Dearothiazolone Dearcresulfenanide, N-Butyl-4- Nethyl- 1-Propanol, 3-(Diethylanino)-			UME FECTED		•			UNDETECTED UNDETECTED
2130 -Denzothiazolere Denzeresul fenanide, N-Butyl-+- Netbyl-	HUT REPORTED	HOT REPORTED	UME TECTED	NOT REPORTED	UNCETECTED	J 36	1 25	UNCETECTED

HELEN KARNER LANGFILL GROUNDATER GURLLIY MORLYTICAL RESILTS

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Sample Location .	1-15	1-11	1-11 11 25 1	I-10	X-10	1-25	1-6	1-51
Sample Code	25 101	XI 101	li a i	X9 101	ID 201	15, 162	us for tup.	11 165
Inerganic Sample &	IOA 594	IBB 467		100 448		MBG 470	in 173	MMA 471
Granic Saudio 0	0.253	8 206.0		1 225.1		0 4197	V (De	B 41%
Sale Semied	12/4/04	12/1/04	01/02/05	12/4/84	e1/62/65	12/6/04	18/6/64	12/6/84
Sale Shipped	12/6/64	12/6/04	01/01/05	12/6/84	01/03/04	12/6/04	12/6/DA	12/6/84
Date Shipped	0E/9/94		41,434	12/10/01	01/00/01	1270741		
Auth Grid	34462.868 3	344439.256840	Julie Pare	34442, 619728	34442.619.8E	346722, 180459	346782, fbevoe	346711.60030
East Grid	1040303. 376,000	1846611.69461	100011, 19001	1040631.337147	1040631.337147	1049777.051621	1849777.051621	1849774.836171
TEMATIVELY INENTIFIES COMPUSES	PRED DIMORY	PREPLEMENTARY	FINE	PRELIMINARY	FINEL	PRELIMINARY	PREL HIRMAN	PREL ENLUGRY
Aug	49/1	ug/l	أ/ب	wg/1	ug/1	ug/l	ayli .	49/1
1-Cyclopynge-1-Hyllingh LAI sac		****	*				_	
ه المستحدث المستحدة الم	HOT REPUTED	INT REPORTED	WE TECTED WE TECTED	NOT REPORTED	UNCTETED	J X	i i	LAMETECTED
Punzonamino, 2-Ontoré		AUST REPORTED	MAN TECTED	. NOT REPORTED	MOETECTE)	J 35	1 46	MOETECJED
Foran, Tetalydro- bicyclo\2. 2. I Westan-2-				HOT REPORTED	A	J II	WETECTED	UNETECTED
one, 1, 3, 3-trimitly!-	HOT REPORTE	MOT DEPORTED	METECTED	ACT REPORTED	UCETECTED	J 84	THE TECTED	UNETECTED
Cyclohesane, (2-Hethylpridy)) -	INT REPORTE	HAT REPORTED	METECTED	NOT REPORTED	LIMETECTED .	1 36	METECTED	UNETECTED
Sutane, 2-Methony	NOT REPRINE	HOT REPORTED	COME TECTED	HOT REPORTED	MOEIECIE	J 128	ETECTED	LOGIE TELETED
Sicyclo(3.1.1) Higtor 2 the, 3,6	(2.74)		₩,				1.	
.6-frienthyl-	का क्रकेंस	HOT REPORTED	METECTED	HET REPORTED	LIGHT TEN	J 74	WETECTED	UNETECTED
Ethano, (2-Ethory-1-Wethiley	والمحمورة					-	4	
ethony)-	un ceránció	HOT REPORTED	WETECTED	NOT REPORTED	WOETÉCTÉ	J 49	METECTED	WEETELTED
Ethanol, 2-(2-2-Butospellinny)	7 6		:		il a sa		. 3.	, us
Ethony)-	NOT REPUTITE	HOT REPORTED	WÜETECTED	HOT REPORTED	WOETETE	J X	UNETECTED	UMETECÍÉD
1-Butanol, 2, 2-Dissetly/1-	HOT REPURE	HOT REPORTED	(DÉE TECTED	HET REPORTED	UNETECTED	J 8	WETECTED	UGETECTES
Sunzanide, H-(1, 1-Giaithijlothyl)	4				177		, di	الرزا
-4-Rethyl-	NOT REPUBLIE	NOT REPORTED	WETECTED	NOT REPORTED	UGETECTE	J M	METEURE	UGETECTÉD
IN-Indone, Octobydro-P. Jii, 4-Trio	Note to				يۇ-ئىرى		45	ι <u>΄</u>
othy1-2-(1-Hetliylothy	AUT REPUBLIE	HOT REPORTED	UNE TECTED	HOT REPORTED	MOETECTED	J 59	METECTED	UMETECTED
Benzone, Nethyl-	NOT REPORTED	NOT REPORTED	WESTECTED	NOT REPORTED	uce iferia	UNDETECTED	METECTED	11
1-Hesons, 3, 4, 5-Trimithy)-	ACT REPORTED	HOT REPORTED	LOUIE TECTED	HOT GEFORTED	UQETECTÉ	METECTED	THE TECTED	j 🗓
3-Buten-2-ene, 3-Hetily1-4-Pheny1-	HOT REPUTITED	HOT REPORTED	WETECTED	NOT REPORTED	UMETECTÉD	UNETECTED	METECTED	1 14 1 75 1 30 1 90 1 10
3-Buten-2-one, 3-Hethyl-4-Phonyl-	101 व्हर्गाति	NOT REPORTED	WETECTED	NOT REPORTED	UMETECTED	UNETECTED	(METECTED	j ji
2-Propose), I-(1-HetHy)proposy)-	ADT REPUBLIE	HOT REPORTED	DOETECTED	NOT REPORTED	LAMETECTES	WETECTES	METECTED	j
2-Propanol, I-(I-Hethy) propany)-	NOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED	UNCETECTED	LOCETECTED	METELTED	j 💆
1,3-Preparediol,2,2-Disathyl-	HOT REPÜTTEN	MOT REPORTED	UNETECTED	NOT REPORTED	WOETECTED	WOETECTED	1. 110	j ji
Heneicusane	HOT REPUBLIE	HUST REPORTED	ENGETECTED	NOT REPORTED	LIGHT TECH	UMETECTED	WETECTED	j i
Heneicosane	NOT REPORTED	ADT REPORTED	LOCE TECTED	NOT REPORTED	UNDE TECTED	UME TECTED	UNETECTED	j ý
Decosare .	HOT REPORTED	NOT REPORTED	UNITETECTED	NOT REPORTED	UCE TÊCTEÎ	UNIETECTED	UTETECTED	J ý
Bocosane	NOT REPUBLIE	NOT REPORTED	LOGETECTED	NOT REPORTED	MOETECTE	LOGETECTES	WETECTED	J 10
1, 3-prepared iel, 2, 2-dimithyl-	nor nerditelj	NOT REPORTED	(DO TECTED	NOT REPORTED	UNCETECTED	130	UMETECTED	METECHE
Unknown	iai Eränti	NOT REPORTED	ÜÜETECTEN	NOT REPORTED	ume těcté)	UMETECTED) 13	UNITETECHED
U nkreen	NOT REPORTED	NOT REPORTED	LAGETECTED	NOT REPORTED	UNDETECTED	MOETECTED	1 7	LAME TECTES
Retone	NOT REPORTED	INT REPORTED	UNETECTED	HOT REPORTED	MOETECTE	UNCETECTED	1 2	MAETECHED
Postona, 2-Butony-	NOT REPORTED	NOT REPORTED	UNETECTED	NOT REPORTED .	METECTE	· UMETECTED	J. X	WETECHED
Hesandioicacid, Dioctyletter	NOT REPORTED	NOT REPORTED	J 30	NOT REPORTED	J 200	UMETECTED	LOGETECTED	UNCETECTED

HELEN KRITER LOOF ILL SUFFICE WHEN GUILLY ROLYTICAL RESULTS

Sample Location Sample Code	C-12 CH 112	C-12 CN 112 N.P.	Field Slack CM 21578	Field Black CN 21.570	Trip Blank CH 2141B
Inorqueic Sasple 8	. 10 0013	ID 66 71	615 ADI	IBA 224	MA 217
Gramic Samle 0	9 3202	D 2251	DA 250	M 256	BA 249
Boto Sampled	00/27/04	00/31/04	12/12/04	12/13/04	12/12/04
Bate Shipped	00/20/04	90/31/9A	12/12/94	12/13/04	12/12/04
Note Shipped	03/05/04	99/65/8A			
Harth Grid	•				
East Grid .					
Pesticide	FIRM	FINAL	PRET INTIMARA	PRELIMINARY .	PREL ENCHANY
	49/1	wg/l	ug/1	ug/l	49/1
Ret-9C	DOCTECTED	DOETECIED	UNIETECTED	(POSETECTE)	PRETECTED
Endosetfan t	MOETECTED	UNETECTED	METECTER	WESTECTED	UME TECTED
Endougles Sulfate	MOETECTED	EXCITE	LOGETECIED	UNIETECTED	MOETECTED
heptachlor	UNCETECTED	WOETECTED	UNETECTED	MOETECTED	UNCE TECTED
Alpha-DC	DOETECTED	UNIETECTED	UNITE TECTED	ENGETECTED	ANDELECTED
Same-DC4Lindonel	UNDETECTED	UNETECTED	UNIETECTED	UNETECTED	UNE TECTED
PCD-125A	MOETELTED	UNIETECTED	UNIETECTED	UNCETECTED	MAETECTED
Belta-BC	LOGETECTED	UNCETECTED	UNETECTED	MMETECTED	UME TECTED
Aldrin	MOETECTED	MOETECTED	UNIETECTED	UNCETECTED	WAETECTED
Heptachler Expenies	UNETECTED	WESTELTED	UMETECTEN	WESTECTED	UMETECTED
Dieldrin	MOETELTED	DUETECTED	UNE TECTED	LINGE TECTED	MOETECTED
4,4"- BBE	COMETECTED	WESTECTED	METECTED	WATE TECTED	UME TECTED
Endrin	DOCTECIED	METECIEN	UNIETECTED	LAME TECTED	METECTED
Endougles II	UNETECTED	WETECTED	UGETECTED	WETECTED	(DOE TECTED
4,41-800	WAETELTED	MELECLED	UNIETECTED	UNETECTED	MOETECIED
4,41-807	MAETECTES	WETECTED	UNETECTED	UNE TECTED	LOGE TECTED LOGETECTED
Alpha Endoculfan	METECTED	UNETECTED	UNETECTED	UNITETECTED	WARE TELL TELL
TENTRY IVELY INEXT IF HED CONFOLURG	FINAL	PREL INCHPRAY	PRED. ENGINERY	PHEL INTHINY	PREAL PREMARKY
	ug/l	wg/1	wg/L .	ug/l	wy/i
Directi	41	, J 29	MARTECTED	HOT REPORTED	UNETECTED
S idmoun	UNETECTED	1 5	UNETECTED	IOI REPORTED	UNIX TECTED
hensuethyl-carlotrisilousee	WOLTECTED	UNETECTED	200	NOT REPORTED	200
9-Oct aducement de	41	UNETECTED	UNETECTED	NOT REPORTED	WORTECTED
ushness Alkyl Benzone	21	UMETECTED	UNETECTED	NOT REPORTED	WHETECIED
ushrusa Athene Bezene	15	UNETECTED	UMETECTED	HOT REPORTED	UNETECTED
heuasethylcycletrisi lesone	METECTED	UNCETECTED	200	NOT REPORTED	200

NELEN KRIVER LANGFILL RUFACE UNIER CUALITY MOLYTICAL RESILTS

.d			NUT-ILL	F MILES APACITA MANE	INDERESTIS	·
Supple Location Supple Code	L-1 LH 101	र्ष-1 भी श्रे	L-2 EN 102	L-2	t-3 LW 103	1-3 18 26
Incomic Sample 0	10 00%	नों की	10 0027	10 216	10 0019	ાની સંદે
Chanic Samle 0	1 225	. 成節	1 25	M 244	1 1270	
Dite Sampled	60/30/64	IZ IZ IM	99/30/64	12/12/04	48/62/80	12/11/4
Cife Shipped	63/39/04	ા <i>દી</i> કે કે કે કે કે કે કે કે કે કે કે કે કે	00/30/04	12/13/84	80/25/80	12/1 2/6 4
tille Shipped	\$5/85/84	24	99/85/04		63/65/64	3 5 3 a
High Grid	36100. 0\0537	361(<u>f</u> , 1 <u>11</u> 239	343753.401126	3K5993.4611@	J45312. 162730	34530 <mark>1. 10</mark> 730
Eint Brid	1454539.499833	1850695. (700.33	1850715.641029	1850715.641(29	1000430,360405	1856ch. 20 465
S MADETER	FIRM	r plant	FINE	FIME	FINAL	rhot
	4/1		ug/1 .	ug/1	w/1	'
		<u>.</u>				
(Alerido	1573000	E LECTED	935000	citization of the citization o	943000	\$3000
M Ifate	170000	133, 8000	35.000	3700	16600	1600
Mitrole	. 5500	A (500	MONETECTED	1 20	4200	ENERGY
Çërtonate		Gil (Esquir)	· INT REPORTED	IN ENTIRE	IGT (EPURTE)	AL GENERALES
Mcartanete	HOT REPORTED	(FICE IE)	HOT REPORTED	INDI REPORTED	HOT REPORTED	AL BLOKED
ijis	0000005	AN REPORTED	1754000	IOT EPHINE	2312000	INT REPORTED
(t)	44390	173000	16500	EACE	025000	370000
	EERD	EEEE	ERTE		EEEE	EJECTED
	75900	713000	13300	177.00	1657000	<u> </u>
Mailalty, phi	HOT REPORTED	(a) (EPONIE)	IGI (EPUNE)	IDI EPINES	IST REPORTED	THE PROPERTY OF
Malinty (Calli)	IOT REPORTED	EFORTED	INT REPORTED	IN ETHIE	IOI REPORTED	i granes
Mhal inity, hydranide	INT REPORTED	ibi leranta	NOT REPORTED	IDT REPORTS	INT REPORTED	IBI TEPRITED
Mospherus, Total	IGT REPORTED	WETECTED	IST IEPMIED	une recita		WETETED
Mante	2180				1700	34200
hifido		IN FRANCE	HAT REPORTED	IN EPHILD	INT REPORTED	OF GENERALES
() caride	NOT REPORTED	IN SEPONTED	HAT REPORTED	IOI ETUIS	7160	
fitrolous Hydrocartons	005559 0051	BOR RECRED	UNDERECTED 234000		221400	ACCO SEPURITED
its intel P		IN DEPORTED	C) THE	NUT ENGLISH NUT ENGLISH	100	EIGHED
iptal P Bilesto(18K)	130 MR (EPM)ED	THE PROPERTY OF THE PARTY OF TH	MALES AND	HOT REPORTED	401 E70010)	EPONED
in column cons		IN EXCUSES	HOT REPORTED		MOT GEPORTED	en Edules
Eldaha Ambidiantain	HOT CEPORTED	AND REPORTED	MI EMMED	ioi erimib	NOT REPORTED	in Epartes
Salfata, turbidisatrie	ADT EXCURES	, was percented	NOT REPORTED	HET REPORTED	MOT REPORTED	E EIGHED
EAS IP (Billion)	ACI COUNTED	IN REPORTED	HOT REPORTED	NOT EXPLISE	MIT EPONIES	IN EPHIED
	NOT REPORTED	IN TERMIED	HOT REPORTED	HEI EARTE	ION REPORTED	THE PURIED
Corbon, organic		200000	ACT REPORTED	(Ž	NOT REPORTED	2160000
folide, dissolved at 1880 folids, Suspended		114000	HOT REPORTED	270000	AUT REPORTED	15.000
Bacific Conductance, 23C	NET REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	int lesones
sharing conservants CT	NUT PERMITE		MAI METANICS	THE PARTY OF THE P		

NELEN KNOER LANGFRE SUFFACE WATER DURL HIV SKREVI ICAL RESIL IS

Sample Location	L-1	· L-1	l-8	ſ- 2	t-3	1-3
Sample Code	LW 101	LW 201	LW 182	LU 202	LW 103	LW 203
•	•					
Ineramic Saule 9	10 003	18A 227	. 10 0027	315 OI	10 0019	186 214
Organic Sample 0	1 2256	M 259	B 2255	DA 240	0 270	BO 217
Bute Sampled	00/30/0A	12/12/04	99/39/94	12/12/04		
Bate Shipped	03/30/0A	12/13/84	08/39/8A	12/13/04	99/29/94	12/11/04
	67/65/8A	15/13/04		15/13/04	00/29/04	12/12/84
Note Shipped		*****	09/05/AA	*****	07/05/84	
North Grid	34406.04537	346108.040539	345993. 401128	345993, 401120	345.382.162730	345302.162750
East Brid	1050530. 490033	1030530, 490033	1850715. 64182 9	1050715.641029	18506.38.560465	18586.30.560465
Post icide	FIME	MAET IN HERA	FINA	MET INTROGA	FEMAL	PRED, INTERPRET
	wy/l	49/l	wg/l	ug/l	ug/1	ug/l
						-
Seta-DC	DOCTECTED	UNIETECTED	UNETECTED	UNDETECTED	REJECTED	OBETER TED
Endosulfan 1	ENGETECTED	0.700	LOGETECTED	UNGETECTED	REJECTED	1.700
Endosulfan Sulfate	6.86	UNIENECTED	0.460	0.100	WEJECTED	MONETELTED.
hestachler ·	6.130	OGETECTED	UNETECTED	WOETECTED	R JECTED	0.700
Algha-BC	. 1.70	UNETECTED	USETECTED	1.600	(ELECTED	DOETECTED
Segna-BC(Lindons)	MORTECTED	MOETECTED	UNETECTED	OGETELTED	REJECTED.	8.00
PCD-125A	MOELECIED	UNETECTED	UME PECTED	DOETECTED		
Bolta-DC					R.ACTED	DOETECTED
	WOETECTED	MAETECTED	LOGETECTED	2,599	R.ACTED	13,000
Aldria	MOETECTED	3.000	UNDE TECTED	DOCTECIED	(EJECTE)	DEFECTED
Heptachler Expenide	MOETECTED	WAETECTED	UNCETECTED	UNITE TECTED	REFEREN	UGETECTED
Pieldrin ·	WOETELTED	UNETECTED	UNGE TECTED	WETECTED	REJECTED	MOETECTED
4,4'- 88E	COMETECTED	0.700	UMETECTED	UNDETECTED	REJECTED	2.200
Endrin	WOETECTED	UNETECTED	LIMBE TECTED	LIMIE TECTED	REJECTED	METELTED
Endoculfan 11	COMETECTED	0.700	LOCKETECTED	MOETECTES	REJECTED	1.000
4, 4' -900	WOETELTED	0.600	UNDE TECTED	UNGETECTED	(EJECTE)	2. 990
4.41-801	UNETECTED	METECTED	MORTECTED	LOGETECTED	TEJECTED.	WOETELTED
Alpha Endoculfan	WOETECTED	UNCETECTED	WESTECTED	UNETECTED	RECTED	WOETER TED
•						,
TEMPTIVELY INEXTIFIED COVERES	FINAL	PRES. INCOMEY	FINE	FINAL	PRES. EXTRACTOR	FIMIL
***************************************	49/1	og/l	wg/l	49/1	· ug/1	wy/i
	•••					
Denzona, Methyl-	OCCUENCE	INT REPORTED	COCETECTED	UNIETECTED	5440	MOERETRED
Denzenacet jezeld	MOETECTED	HOT REPORTED	LOGETECTED	WESTECTED		MOETELTED
Ethana, 1,2-Bis (2-Chloroethouy)-	LAGE TECTED	NOT REPORTED	UNETECTED	. WE TELTED	260	MOETECTED
bessere, othy)-		MAIN METERS OF THE SECOND				
M -A	WOETECTED	HOT REPORTED	MAETECTED	UNIETECTED	MOETECTED	700
Volumen	1 73	NOT REPORTED	WETECTED WETECTED	UNETECTED UNETECTED	WOETECTED 420	700 WOETECTED
Unimental Contract of the Cont	J 230	NOT REPORTED NOT REPORTED	UMETECTED UMETECTED UMETECTED	UMETECTED UMETECTED UMETECTED	WOETEETED 429 429	700 UNDETECTED UNDETECTED
Urbnern Urbnern	1 140 1 250 1 37	NOT REPORTED NOT REPORTED NOT REPORTED	LAGETECTED LAGETECTED LAGETECTED LAGETECTED	UNIETECTED UNIETECTED UNIETECTED UNIETECTED	WOETELTED 420 420 150	700 MOETECTED MOETECTED MOETECTED
Dénom Minon Menn	J 33 J 520 J 140 J 91	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	LAGETECTED LAGETECTED LAGETECTED LAGETECTED LAGETECTED LAGETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	90ETECTED 420 420 150 1360	700 UNDETECTED UNDETECTED UNDETECTED UNDETECTED
Driven Minera Minera Minera Minera	J 33 J 520 J 140 J 91 J 66	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LINGETECTED LINGETECTED LINGETECTED LINGETECTED LINGETECTED LINGETECTED	UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED	00ETECTED 420 420 150 1360 UNETECTED	700 USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES
Delaman Delaman Delaman Melaman Melaman	J 33 J 520 J 140 J 91 J 66 J 700	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	LAGETECTED LAGETECTED LAGETECTED LAGETECTED LAGETECTED LAGETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	WOETECTED 420 420 150 1360 UNDETECTED UNDETECTED	700 USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES
Driven Minera Minera Minera Minera	J 33 J 520 J 140 J 91 J 66	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LINGETECTED LINGETECTED LINGETECTED LINGETECTED LINGETECTED LINGETECTED	UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED	00ETECTED 420 420 150 1360 UNETECTED	700 USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED
Delaman Delaman Delaman Melaman Melaman	J 33 J 520 J 140 J 91 J 66 J 700	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNIETECTED LINIETECTED LINIETECTED LINIETECTED LINIETECTED LINIETECTED LINIETECTED LINIETECTED LINIETECTED	UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED	WOETECTED 420 420 150 1360 UNDETECTED UNDETECTED	700 USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES USE TECTES
Disease Disease Disease Disease Disease	J 33 J 520 J 140 J 91 J 66 J 700 J 20	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNIETECTED LINIETECTED	UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED	UNETECTED 420 420 150 1360 UNETECTED UNETECTED UNETECTED	700 USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED USE TECTED
Distance Distance Distance Distance Distance Distance Distance Distance Distance	J 33 J 520 J 140 J 91 J 60 J 700 J 20 HORFIELTED	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNIETECTED LINIETECTED	UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED	WOETECTED 420 420 150 1360 UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED	UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED
Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance Distance	J 33 J 520 J 140 J 91 J 60 J 700 J 20 MOETECTED MOETECTED	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LINGETECTED	UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED	OGETECTED 429 429 130 1300 1300 UNITECTED UNITECTED UNITECTED UNITECTED UNITECTED	JOS JOS JOS JOS JOS JOS JOS JOS JOS JOS
Underson Underson Underson Underson Underson Underson Underson Underson Underson Underson Underson Underson Underson	J 33 J 520 J 140 J 91 J 60 J 700 J 20 MOETECTED MOETECTED MOETECTED	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LINDETECTED	UNIETECTED UNIETECTED	OUETECTED 420 420 1300 1300 1300 1300 1300 1300 1300 13	JOS TECTED UNDETECTED
Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen Urbasen	J 33 J 520 J 140 J 91 J 66 J 700 J 20 MOETECTED MOETECTED MOETECTED MOETECTED MOETECTED MOETECTED	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LINGETECTED	UNIETECTED UNIETECTED	OGETECTED 420 420 1300 1300 UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED UNIETECTED	JOS JOS JOS JOS JOS JOS JOS JOS JOS JOS
Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen Unionen	J 33 J 520 J 140 J 91 J 60 J 700 J 20 ROGERETED UNETECTED UNCETECTED	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LABORTECTED	UNIETECTED UNIETECTED	UNETECTED 420 150 1360 UNETECTED	JOO MOETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED
Unionen Unionen	J 33 J 520 J 140 J 91 J 60 J 700 J 20 ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED ROCTECTED	NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	UNDETECTED LINGTECTED	UNIETECTED UNIETECTED	UNETECTED 420 420 1300 1360 UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED 1100 1500	JOO UNETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED
Unionen Unione	J 33 J 520 J 140 J 91 J 66 J 700 J 20 OUETECTED UNETECTED	NOT REPORTED NOT REPORTED	UNDETECTED LINDETECTED	UNIETECTED UNIETECTED	ORTECTED 429 429 1340 1340 UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED UNETECTED 1100 1500 259	MOETECTED UNDETECTED
Unionen Unione	J 33 J 520 J 140 J 91 J 66 J 700 J 20 OUGETECTED UNGETECTED	NOT REPORTED NOT REPORTED	UNDETECTED LAMETECTED	UNIETECTED UNIETECTED	WOETECTED 429 429 429 1340 1340 UNITECTED	MOETECTED MOETECTED
Unionen Unione	J 33 J 520 J 140 J 91 J 60 J 700 J 20 MOETECTED	NOT REPORTED NOT REPORTED	UNDETECTED LINGTECTED CETTED SINU CETTED	WOETECTED 429 429 1340 1340 UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED UMETECTED 1100 1500 2590 860	WOETECTED WOETECTED	
Unionen Unione	J 33 J 520 J 140 J 91 J 66 J 700 J 20 OUGETECTED UNGETECTED	NOT REPORTED NOT REPORTED	UNDETECTED LAMETECTED	UNIETECTED UNIETECTED	WOETECTED 429 429 429 1340 1340 UNITECTED	MOETECTED MOETECTED

SINGE WITE BUILTY AND VITED RESULTS

N. d	i				, à	
Sample Laget fon	(4)	L-I	1-5	1-5	<u>. t-</u> }	L-3
Sample Colle	LU ion	LII 201	CN 165	FN 585	Lu les	ra 503
Inorganie Sapile 6	મેં કૈસ	100 221	ID 6827	10 216	h din	
A - 1 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	7 63	M 27	e 2235	30 246	20 Z 70	160 214 60 247
Bate Sandied	D/D/OA	12/12/04	60/30/84	12/12/14	NATION N	12/11/ 8 4
Bate Shighed	\$3/\$J/84	12/13/04	99/39/94	12/13/04	DIAN.	12/12/ IN
Bate Shiffed	01/E/01		03/05/04		77/5/20	12/12/07
North Grid	346,046537	346188.048539	345991.461126	345993, 401120	345302,162750	315302, 162750
East Brið .	1000336.470033	1858536, 458633	1050715.641029	1858715.641829	LOCALISE SERVES	180638, 560465
	t iin.			•	8 4	
TENTITIVELY TRENTEFIED CONTRACT		PREA INDICATE	FINAL	PREL INCOME	MET TÜLMIM	FINAL
	a∳ /1	49/1	ug/1	ag/l	wj/1	wy/i
2,2"-01-3,3-thoustone	DOETECTED	NOT REPORTED	UNETECTED	OCCIECTED	1200	UNETECTED
Unham Carthaylic Acid	DOETECTED	NOT REPORTED	MAE LECLED	DOCTECTED	2000	MOE LECTER
Shown Liftbylie Reid	POE IEENED	MET ME MONTE !	UNETECTED	USCIECIED	1840	METECIES
Unknown Cartifaylis Acid	DOE TECHED	INT REPORTED	U-de recred	UNETECTED	100	MOEIECIEN.
Aretaning, a. D. Stanthyl	SHE SECTED	NO REPORTED	UNETECTED	USE TECTED	136	USE TECTES
Cyc (-part) and J. &-Mathy ! -	BARTECIES.	101 CHAILE	USE ICCIES	· LOCK TECTES	1200	tione techti
Del are, & Reffery-2, 1, 3-Iresethyl	DOE TECTED	IN REPORTE	UNCE TECTED	une lectes	1440	unt ter tra
4-Horandy 2-Rethy I	DOETECTED	INT REPORTED	UNGE TECTED	UNETECTED	1500	WORTECTED
Unknown Childrinated organic	MAKE TECTED	HOT REPORTED	UNGETECTED	UNE TELTED	3950	UNGE TEETE
Phonol, 4,4 fethylanebss-	DOE TECTED	HOT REPORTED	UNCETECTED	LOGETECTED	: 311	DOCTECTE
1, 3,5-Ir lumby Eyclahenel	DOETECTED	MI REFURIED	LINGE TECTED	355	INGETECTED	UNETECTE
Benseneg at their Acid	: J 4	INT REPORTED	MOETECTED	UNETECTED	POETECTES	MOETECTE
housethyl-theletrisilenses	MOETECTED	NOT REPORTED	UNGE TECTED	805	POETECIED	200
CS N1202-4-Mydrony-4-anthy1-2-	ENGETECTED	NOT REPORTED	UNE TECTED	593	CONTRACTED	METECTE
sylene	IDEE TECTED	NOT REPORTED	LOCKE TECTED	%1	POETECIED	113
sylme	UGE TECTED	NOT REPORTED	UNGE TECTED	428	LINGE PECTED	METECTES
C7 100-Sentenitrile	WOETELKED	NOT REPORTED	UNCE TECTED	i i	POETECTED	METERIE
C9 HIRD-1, 13-triestayleyele-						,
أنستأما	OGETECTED	HOT REPORTED	UNGE TECTED	34	DOCTECTED	1339
C4 HB029-totrahydrothiophone-						 :A.
1. l-dianide	MOETECIED	HOT EFORTE	UNIE TECTED	2	WOETECTED	UNETECTE
N, N-disalthy lacet anide	UNETECHE	NOT REPORTED	UNGE PECTED	WETECTED	UNETECTED	
i-withy jobby i benzone	MACTECTES	NOT REPORTÊD	UNE TECTED	UNDE TECTED	WETECIED	412
2-ectarine :	UNITE TECTED	NOT REPORTED	LAGE TECTED	UNIXE TECTED	UNE TEETES	₩
J-arthylphilol	DOC TECTED	IOI (EPONIȚI)	UMBE TECTED	UNETECTED	WOETECTED	11 45 571
Deniose de 🕅	UNGE TECKED	HOT REPORTED	UNGETECTED	UGE TECTED	UNETECTED	571
Denzing gefflie acid	WAE TECTED	HOT REPORTED	LIMBE TECTED	UNE TECTED	MOETECIED	ध्यी
Dentered propriories acid	UNE TECHED	noi reportib	UNE IECTED	UNETECTED	LINGE TECTED	27
4,4'-ugliyibne bis phenol	MACTECIED	HOT REPORTED	UNE TECTED	LIGHT TECTED	MAETECIEN	. 27
2-Propilie	J 14	NOT REPURITED	UNETECTED	UNETECTED	UNCETELTED	MELECIE
1,3-di@Highborene	1 9	HOT KENDRIĞİ	1 80	UNIX TECTED	MOELECLED	MAE LECUTO
I, I'-Oğlüğethanı	J 50	· wiernij	1 199	UNITE TECTED	DOCTECTED	MOESEES
Disethylhelizene Issuer	J 246	NOT REPORTED	LOGE TECTED	MOETECTED	UNCETECTED	DOCTECTED
Disethfitulizene Isoner	J %	HOT KERCHIED	UGETECTED	UNGETECTED	MOCIECIED	DOETECTE
Cyclotehanil		not retoriệd	UNIE TECTED	UMETECTED	METECTED	mae LECUED
Cyclodeladi 2-December 2-December	J 87	HOT REFORMS	: UNE TECTED	UNE TECTED	(FECTED	DOETECIÉD
2-Oct albeit	J 110	NOT REPORTED	UNITE FECTED	UNETECTED	COME LECTED	UNETECIÉD
Heranafica id	JR.	HOI REPORTED	thee lected	UNE TECTED	GETECTED	DOE TECTED
2-Ethylhesinoic Acid	J 09	NOT REPORTED	UNE TECTED	USE TECTED	UNITE TECTED	UME TECTÉ D UME TECTÉ D
Cyclodinaricarbonylicacid	J 140	not reported	UME TECTED	MERECIEO	USE TECTED	UME IECTÉS
Octonoscacid	J 160	NOT REPORTED	UME TECTED	mae lected	(POE TECTED	UME TECTED
1-12-Bitespethosyl-Ethanol	3 71	NOT REPROPED	UNCE TECTED	, mer lectes	03131300	MAC LECTED
Acetogitette	UNDETECTED	NOT REPORTED	J 10	UGETECTED	OMETECTED	UNDE TECTED
1, 1*- Mybi4f2-chloroptnanef	MOETECTED	NOT REPORTED	1 6	use lecter	DOCIECIED	MAK IELICA

HELEN KNOWER LANGETILL BURFACE WATER GUALITY RIVALYTICAL RESILTS

Sample Location Sample Code	L-4 LN 104	L-4 LH 204	L-5 LH 165	L-5 UI 265
Inorganic Sample 0 Organic Sample 0 Bate Sampled Date Shipped	10 0022 B 2250 00/25/84 00/38/84	100 443 00 235 12/10/04 12/11/04	10 0024 0 2258 00/29/04 00/30/04 93/05/04	180 482 80 238 12/10/04 12/11/04
Bate Shipped North Grid East Grid	09/05/04 344618. 003550 1850485. 687058	344818. 883539 1858485. 687858	344577. 141294 1650763. 776625	314577. 14129A 1858783. 776625
FIELD PROVETERS				
Flow Igent	_!	5	•	. •
Temp. (Celsius)	8.1	14.6	21	14.5 L 46
gli Specific Conductivity (mbo/co)	£.55	6.74 1825	6.3 31 00	170
INDROMICS	FINAL	FINAL	FINAL	FIME
********	wg/L	wg/i	49/1	ug/l
Alusimo	2020	1200	37005	112000
Ant impry	UNIE TECTED	UNETECTED	UNCETECTED	WHETECTED
Arsonic	244	R 540	133	8 1000
Barium	466	UNGE TECTED	6005	200
Daryllian	MOETECTED	UNDETECTED	UNDETECTED	UNETECTED
Codelan	UNETECTED	METECTED	75	ANCE TECTED
Colcie	HOT REPORTED	10000	NOT REPORTED	3700
Orenium	SE SECTED SE	30 UNIETECTED	LAMETECTED	(46)
Cobalt	DOETECTED-	WHETECTED	185	29
Capper Iron	133400	174000	1903000	PETERO
lesi ·	20	MARTECIED	259	\$ 500
Cyanide	WOETECTED	95 1	UNETECTED	UNCETECTED
Regresivo	NOT REPORTED	17000	NOT REPORTED	40000
Ranganese	1200	1010	11000	1100
Hercury	UNGETECTED	UNGETECTED	1.4	1.6
Hichel	WETECTED	DOCTECTED	140	LINGETECTED
Putassian	NOT REPORTED	42000	NOT REPORTED	00033
Selenius	MOETECTED	UNITE TECTED	UNCETECTED	UNCETECTED LINCE TECTED
Silver	UNETECTED	UNIDETECTED 464000	UNDETECTED ADT REPORTED	ACCORD.
Sodies	NOT REPORTED UNDETECTED	LAGE TECTED	MORE LECTED	UNE TECTED
Thellium Tin	UNETECTED	LOCK TECTED	LINGE TECTED	LOCKE TECTED
Tin Vanadisa	COMETECTED	MARE LECTED	MOETECTED	560
lisc	(E.FELIED	30	366	560
Percent Solids	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

MELEN KANCO LAMPAL BAFRE WITER BUILTY AND VILOR RESULTS

Sample Localist Sample Code	L-4 L# 184	L-4 LM 204	L-5 LN 165	L-5 La 265
Inerganic Sabil 0	10 0022	MM 463	10 0024 8 2256	100 442 84 236
Organic Saufto I	1 5574	25	. W/23/M	12/19/94
Date Samples	6 /25/66	12/10/04	6/26/6A	12/11/84
Date Shippol	66/36/E	12/11/04	COVES/A	, , , , , , , , , , , , , , , , , , , ,
Bate thipped	63/63/ 6	344010.003550	34677, 141294	ŠM577. 141294
Harth Brid	304618, 803939 ; 1830483, 667639	IRSONEL GAZES	LEGETAL 776425	(BS6761, 776625
East Brid	NOTIFIED BELLEVA	1672-67- CALLETA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	FIME	FINAL	FINAL	FINAL.
SIE PRINCETER	ug/1	49/ 1	ug/1	49/1
	83,000	671000	532000	21,000
Chlorida	12.5	23000	AJR#	
Selfate	i/ou	WETELTED	-	1 200
Mitroto		IST REPORTED	HOT REPORTED	HAT GEPARTED
Cartenate		HOT REPORTED	MOT DEPOSITED	NOT REPORTED
Bicarteneté	iai iĝiaje) Ŝiaĝo	MOT SEPORTED	1625000	MAT METCHTED
196	131600	14000		100000
TEC	2	EECTED	E ECIE	E ECIED
300	entio	131666	115400	705000
	[7 <u>(00)</u>	IST REPORTED	MET GERCHTEN	INT EFTREE
Milelinity M	भाग विश्वविद्या	NOT REPORTED	MIT GERGITE	INT REPORTED
Athalisty Cally	IOI EPIĞIED	INT REPORTED	INT REPUBLED	INT REPORTED
Albalinityi by danida	AND STATES	MORETELIED	INT REPORTED	WHETECTED
Phosphorus; Total	THE RESERVED		910	- SA300
Amenia	ior Erajies	IDT CEPTRED	IN ENNE	NOT REPORTED
Salfide	unt EruftED	ICT REPORTED	INT REPORTED	HOST SEPTEMBED
Flooride 32	UNE TESTED	METELTED	2500	3900
Petroleus Apdrécurtons	123000	INT MERCATED	161200	HOT REPORTED
196	mar HE TES	INT EPHILED	670	IN EPHIED
iotal P	un Esulto	IOI EPONE)	का समाहि	HOT REPORTED
Halogen(REE)	IOI EMPE	NOT REPORTED	INT REPORTED	NOT REPORTED
pli Sulfate, tërbibiantric	IOT EPIETED	MET REPORTED	INT REPUBLE	NOT REPORTED
2011905 farmerment	IOI EPONED	NOT REPORTED	MIT REPORTED	HOT REPORTED
2,4,0 (BM) 2,4,5 IP (B11)0e)	IDI ENGILE	NOT REPORTED	HOT REPORTED	NOT REPORTED
S'd'2 in militari	MOT REPORTED	NOT REPORTED	IGT REPURTED	HOT REPORTED
Carbon, ordinité Solids, distolènd at 1880	IOI EPONED	1590000	INT REPORTED	1470000
Solids, Solphilled	IOT REPORTED	270000	HOT REPORTED	4610000
Secrific Condictance, 23C	IDT REPORTED	NOT REPORTED	HOT REPORTED	HOT REPORTED
SMILL COMMERCENCE CO.				
•		•		

STREATE ANIEN CONTINA UNITALIDE RESITIE

Sample Location	L-4	L-4	l-S	L-5
Sample Code	LW 104	FIN 504	LW 165	U# 265
				100 462
Inorganic Sample 0	10 0022	180 443 50 37	10 0024 0 2250	100 TO 100
Organic Sample 0	9 2260	BA 236 12/10/84	10 /27/84	12/19/94
Date Sampled	96/29/ 9 4 96/39/84	12/11/84	96/39/84	12/11/04
Bate Shipped	95/85/8A	12/11/04	93/95/8A	1011111
Bate Shipped	344618.883559	344018, 003530	344577.141294	34577,141294
North Grid East Grid	1850465, 687858	1050405. 687850	1050703.776625	1850783.776625
East 9-10	PG3P 1031 001 003	••••		
CHRONICS			•	
M-0-419-	· FINEL	PREL INTOFATY	FINEL.	PRES. SHI MARY
Volatile	wg/l	ug/1	• 49/1	49/1
			•••	
chlorohoneene •		IOT REPORTED	194 15	NOT REPORTED
chlerofere	UNETECTED	NOT REPORTED	DOETECTED	NOT REPORTED
1,1-dichleresthers	MOETECTED	NOT REPORTED NOT REPORTED	UMETECTED	NOT REPORTED
1,1,2-trichleresthere	UCCTECTED	NOT REPORTED	5	NOT REPORTED
1, 1-dichlersethers	MAETECTED REJECTED	NOT REPORTED	(EJECTE)	IOI REPORTED
arthylene chloride	NE JECTED	HOT REPORTED	232	NOT REPORTED
acetore	MOETECTED	NOT REPORTED	5	IOT REPORTED
trans-1,2-dichleresthere	POETECTED	HOT REPORTED	REJECTED	NOT REPORTED
1,2-dichleresthere	UMETECTED	NOT REPORTED	UNE TELTED	NOT REPORTED
1,2-dichlorograpuse · 1,1,1-trichloroethose	OCCITECTED	HOT REPORTED	UNITE RECTED	HOT REPORTED
1, 1, 2, 2-tetachleroethare	UMETECTED	HOT REPORTED	UNETECTED	NOT REPORTED
chlorethere	POETECTED	NOT REPORTED	UNIX TECTED	INT REPORTED
trichleresthere	UMETECTED	NOT REPORTED	MOETECTED	NOT REPORTED
vinyl chloride	WOETECTED	HOT REPORTED	UNE TECTED	INT REPORTED
benzene	. WHETEUTED	HOT REPORTED	49	NOT REPORTED
4-setty1-2-pentanene	MOETECTED	HOT REPORTED	CETESTED .	IST IETUTED
fluoratrichlarauethana	UGETELTED	IQT REPORTED	UNETECTED LINEETECTED	MIT REPORTED
tetracklorosthene	DOCTECTED	HOT REPORTED	45	INT REPORTED
toluene	74	HOT REPORTED	ñ	NOT REPORTED
2-but anone	UNGETECTED	HOT REPORTED	WOETECTED	IOI TEPUTED
2-heuanone	WHETELIED	HOT REPORTED	K	NOT REPORTED
ethylbenzene	LOGIETECTED	NOT REPORTED	8	NOT REPORTED
Total Tylenes	(July 100 100 100 100 100 100 100 100 100 10			
Segivolatile	FIRE	PRES, INCOME	FINAL	MET INDIANA
	wg/l	49/1	49/1	ug/l
		NOT REPURTED	E.ECTE)	HOT REPORTED
2,4-disathy1phenol	NEJECTED REJECTED	MOT MEPORTED	EECIED	ICT REPORTED
Phenol	E ECIED	NOT REPUBLED	ME ACTED	NOT REPORTED
bis 12-chloraethy 11 other	E ECITS	NOT REPORTED	TE JECTED	MOT REPORTED
1,4-4)cnlerounzere Benzyl Ricchel	REJECTED	NOT REPORTED	GITH. I	IGT REPORTED
1,2-Dichlorobanzane	REACTED	NOT REPORTED	EXCIED	NUT REPORTED
4-fighty ighered	REJECTED	NOT REPORTED	E ECIED	
isopherete	TELECTED.		E RCTED	
2-methy Iphenol	REJECTED		R ACTED	
Benzoic Acid	NE JECTED		EXCIED.	
Di-a-Butylphthelate	ME JECTED		医果门的	
bis 12-Ethylhesyll Mithalate			WE ECTED	
B12 (5-6 (MA (1652)) santum occ.	W.HCTT0	****	. # 2010	
DI-A-Octyl Mibelate	REJECTED	NOT REPORTED	を 単元(7日) 第 第 年 (7日)	
01512-Ethylmer) (milliolee 01-a-Octyl Milholate naphthaleme diethyl phthalate		NOT REPORTED NOT REPORTED	REJECTED	IOI EPORTEI

SINAE WIER GALITY WALVICAL RESULT

£ : 1				
Samie Location	l-4 _{.26}	1-4	L-5	L-S
Sample Codd	LW I	LW 2 9 0	LW 185	t# 265
Inorganic Shiply 0	10 002	NSA 483	IO 6024	16A 482
Organic Suiple 9	1 23	80 2%	9 2250	M 530
Bate Samulad	00/23/ 0 0	12/10/04	90/23/94	12/19/04
Rate Shippel	00/39/04	12/11/04	60/30/04	12/11/04
Note Shipped	97/6/IA		97/95/BA	
North Grad	JAMES BERNE	344610, 803550	344577.141294	MS77. 141294
East Grad	1859465. 687858	1650465. 687658	1050703, 176625	1850703.776625
Postacide	FTIGAL	PREL INTHARY	FINAL	PREL SHIMMAY
******	wg/l	49/1	49/1	49/1
Deta-DC	. Chia	MAETECTES	0.613	
Endosul/an S	pal titita	4.320	M. Jecita	0.590
Endosulfan Bulfate	LOUI TECTED	2.44	R.Eciti	UMETECTED
hestachier	ude terien	UNETECTED	E Acito	1,540
Alpha-MC	unt itchen	6.230	0.021	0.430
Game-BC (Lindhe)	vattecien	UNETECTED	ME MECTED	UNCETECTED
PCD-1254	į, 0, j 10	UGETECTED	1.200	WEETECTED
Selta-BC	DOLITICIES	UNITE TECTED	E ECTEN	6.640
Aldria	ud techen	9.250	NE JECIEN	I. 150
Heptachlor Englishe	untiteien	0.470	NE JECTEN	8.030
Bieldrin	und techen	UME TECTED	ME MECTEN	1.170
4, 4" -BBE	und let le 0	UNITE RECITED	ME ACTEN	ENCETECTED
Endrin	nak iirijen	UNGE TECTED	#E.JECTE#	UNCE TECTED
Endosulfan 🗓	UNETECTED	UNGE TECTED	NE JECTEN	UNCETECTED
4,41-000	und techen	LAGETECTED	RE JECTED	LAGE LECTED
4,41-801	DOETECTED	LIMIE TECTED	ME JECTEN)	0.170
Alpha Endodilian	unde fécted	UNITE TECTED	ME JECTES	UNC ETECTED
TENTATIVELY INDITIFIED CONTINUES	FINA.	POEL INIMPRY	FINAL	PRET INIMUNA
	ug/1	ug/1	ug/1	ug/l
Ethane, 1, 2-01s (2-Chlaraethary) -	waittectes	HOT REPORTED	J 56	NOT REPORTED
Welchest	J 24		. ; ;	NOT REPORTED
Unknown	j Si		ં કો	NOT REPORTED
Uhkeana	j 21	NOT REPORTED	i ii	NOT REPORTED
Unknown	J 57		ાં સ્ત્રે	NOT REPORTED
Unknown	1 17	HOT REPORTED	J 31	NOT REPORTED
Unimous	3 20	NOT REPORTED	J 51	NOT REPORTED
Unknown	J 14	HOT REPORTED	J 29	NOT REPORTED
Unknown	• 3 7	NOT REPORTED	J 10	NOT REPORTED
Unknown	J 51	NOT REPORTED	J 🎼	NOT REPORTED
Unincum	J 19	NOT REPORTED	M c e lecten	NOT REPORTED
University	J 6	NOT REPORTED	ENCE TECTEN	NOT REPORTED
Unknown	J 29		UNCETECTED	NOT REPORTED
2(3H)-Benzeithi fizolone	j eg	NOT REPORTED	tı ı	NOT REPORTED
Benzenenetlijkoli, Alpha-Alpha-				
Dowellyl	J 55		J 19	NOT REPORTED
Heranoicacid, 3,5,5-Trauethyl-	J 18	NOT REPORTED	unce tected	NOT REPORTED
2-Properol, 1-17-12-Methoxy-1-			•	
Nethyl etikas)-1-	J 10	NOT REPORTED	UNCE TECTET	NOT REPORTED
Hethylethios/1-	J 10		UNCE (ECTED	NOI REPUBLED
Denzenesul fonallide, N-Dutyl -	,	MIN MENUNICA	UPUL ICUICO	MI WATER

HELEN KINNER LARFILL SUMFACE HATER QUALITY ANALYTICAL RESILTS

Sample Location	L-4	L-4	L-5	L-S
Sample Code	LH 194	FA 504	LW 185	LH 265
Inorquete Sample 8	IB 8822	100 483	10 00 21	100 462
Organic Sample 6	9 2260	M 236	0 2250	96S MB
Bate Sampled	99/29/94	12/19/84	98/25/84	12/10/04
Bate Shigged	00/35/04	12/11/84	99/39/94	12/11/84
Sate Shipped	85/65/8A		09/85/84	
Harth Grid	344610, 803550	344618.003550	344577, 141294	344577.141294
East Brid	1050405.687058	1659465. 607650	1050703, 776625	1050703, 776625
TEMPLIANT INTERPRETATION	FINAL NA/I	PREL THEORY	F110L 49/[POEL INITIARY ug/1
	- 		-	
Phonol, 4, 4" (1-Hrthylothylidene)				
Dis-	J 41	HOT REPORTED	WETELTED	HOT REPORTED
Phonol., 2-(1-(4-Mironyphony))-1-				
Methylethyl]-	J 143	HOT REPORTED	MAETECTED	HOT REPORTED
Henaredioicacid, Disl2-	4 40			
Ethylhesyl)ester	J 15	HOT REPORTED	MOETECTED	NOT REPORTED
Bonzene, 1,2-Diasthyl-	POETECTED	NOT REPORTED	1 2	IOT REPUBLE
Denseno, 1, 2-Diasthy1-	UME TECTED	NOT REPORTED	j 15	NOT REPORTED
Benzene, 1-Ethyl-2-Helhyl	MAETECIEN	HOT REPORTED	J &	HOT REPORTED
Dicyclo[2.2.1)Maplan 2 ons, 1,7,7				
-Trianthyl-	POETECTED	NOT REPURTED	J 19	INT REPUNED
Universe Substituted Descensul-				
femenite	POETECTED	ICT (EFORTE)	1 8	NOT REPUBLIES
Henaradioicacid, Mactylester	UNETECTED	IOT REPORTED		NOT REPORTED
Fichlard Just authors	COCETECTED	HOT REPORTED		IOT REPORTED
Tetrahydrofuran	UNETECTED	NOT REPORTED	9	NOT REPORTED
Triswthylsilanol	MOETECIED	NOT REPORTED	· ·	NOT REPORTED
1-Methylethycyclepropuse	WEETECTED	HOT REPORTED	•	NOT REPORTED
Midney (S albere	MOETEETED	HOT REPORTED	. 13	HOT REPORTED
Underson C7 allhane	MOETECTED	NOT REPORTED	1	NOT REPORTED

NELEN KINNEN LANGFELL SUFFACE MATER GUALITY ANDLYTICAL RESULTS

Sample Location Sample Code	9-1 In 181	9-1 90 201	4	84 545 84 545	9-3 SN 163	5-3 SN 283	9-4 20 (6)	5-4 SH 204
Increasic Sample 0	10 0673	16h 200	no (tri)	198 ABI	10 0025	100 213	10 fact	10A 212
Organic Sample 0	9 2249	M 252	D: EESE	M 233	D 2257	BA 245) (:)	M 244
Bute Sampled	06/31/00	12/13/04		12/13/04	06/30/04	12/11/04		12/11/04
Bate Migged	60/31/64 -	12/13/04		12/13/04	90/35/04	12/12/04		12/12/04
Brte Dipped	65/85/W &	1	01/15/64		99/65/84 §		67/E3/E4	
Harth Grid	34531.2521 <u> </u>	3M590. 252810	34571 BEETEN	346916. 022784	34601. Bi 7309	346401.017309	345734 141191	345734.143194
Lest field	HORATO, HAND	1880710. 122458	10000 Ta. 120019	1000575. 100019	1890581 . 4276 / 6	100001.427646	1006573.277212	163639.277212
SIG PROJETER	FINAL	FINE	FIRE	FINEL	FROL	FINAL	F İ M,	FIME
	ug/l	wy/1	Ŵ۱	w/l	m/1	49/1 ,	₩[ug/l ∉
Distin	200	437000	WHE TECHED	11000	أوكر الم	1170000	1 013000	11300
Ini (ale		117900	12300	27000	120	8,3000	235.00	250
Mitrate		1 50	£1 % 50	8 200	line	8 57300	5100	R SH
Cartenate		MIT EFORTED	A ROUGE	MOT REPORTED	NOT REPORTED	ICH CEPONTED	IN EPONTED	HOT REPORTED
Dicarbooke	un Erdite	AMM REPORTED	MI EPORTED	HOT REPORTED	ier reiditel	NOT REPORTED	INT EPHIED	NOT REPORT(
716	IOT REPORTED	NOT REPORTED	INT REPORTED	NOT REPORTED	3. Acet	HOT REPORTED	3 174 000	HOT REPORTED
100	22,300	463900	3000	REJECTED	4754	412000	25000	5150
ACD .	ERRI	RECTED	RECIED	EECTED	RUCKE	EECIED	RECTED	EECH
CER	3	1570000	23000 23000	49000	13899	1055000	2 OMOSO	0650
Alkalinity, pht		INT REPORTED	MIT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPUBLIED	IN GROWIED	HOT REPORTE
Alhalinty (CaCEI)	IN IEIGIE	NOT REPORTED	in Gertaten	NOT REPORTED	iai Euflie	NOT REPORTED	iği Eronien	HOT REPORTED
Albalinity, bydronidi	iai erijiti	HOT REPORTED	i je romed	HOT REPORTED	IOI EMPIE	NOT REPORTED	INT GIORIED	IOI REPORTE
Prospherus, Total	ICI ELIME	WORTELTED	in Elanes	REJECTED	101 स्थिति	WETECIED	IN RICHTED	OCETECIÈ
Amonia	194	7500	MARTERIED	180	HOT REPORTED	25300	<u>₹</u> } 1440	250000 NOT REPORTED
Selfide		IDI REPORTED	ON GENUNIED	NOT REPORTED		NOT REPORTED		NUT REPORTE
Floorido L. &	and and and	HOT REPORTED	AN REPORTED	HOT REPORTED	NOT REPORTED	IOT REPORTED	1640	COME LEGIS
Petroleus Hydrocaffeill	OREIECIE	UNE TECTED	WE TECTED	MOETECTED	149	MOT REPUBLIES	\$1000	יים אונטים ומנו מומות או ומנו
195	AND REPORTED	NOT REPORTED	NO REPORTED	HOT REPORTED	I Delivery	IOI REPORTED		NOT REPORTED
lotal P	DEFECTE	NOT REPORTED	70	IQT (EPORTE)	in count	AUT REPORTED	an Ermin	NOT REPORTE
Helagun(FBE)	IOT CENTRE	NOT REPORTED	(D) GEFORTED	NOT REPORTED NOT REPORTED	IOI CHINE	MOT REPORTED	di Exunto	NOT REPORTE
91	IOI EMINE	HEI SERVICE	OUT REPORTED	ADI REPORTED	IOI REPORTED	MOT REPORTED	OT EFFICE	unt ne pomíti
Sulfate, turbidisikrik 2.4.0 (900		MOI REPORTED	THE REPORTED	NOT REPORTED	NO REMINES	NOT REPORTED	di Erones	NOT REPORTED
2,4,5 TP (Silver)	OI CHIE	HET REPORTED	AND REPORTED	ACT REPORTED	OI CONTE	NOT REPORTED	di Erones	NOT REPORTED
Carton erassic		ADT REPORTED	POR PERCEIES	NOT REPORTED	IOI CENTRE	NOT REPORTED	INT REPORTED	NOT RECONTE
Solids dissolved at MCC		1529000	NOT REPORTED	145000	ACT CEPTIE	2850000	DI TEPROTED	327000
Solids, Sessended		5400	tot terorren	UME TECTED	NOT REPURIED	452000	ON REPORTED	55600
Specific Conductance, ESC	IOT CEARTE	HOT REPORTED	MAT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	in teranter	NOT REPORTED

HELEN KINNEN LINGFILLN SUFFICE MITER BUILTY AND VICEN ENLYS

					INC. SERVIS		
Saple Lection	9-5	S-5	9-6	S-6	9-6	9-7	9-7
Sample Caple	.94 165	SM 205	91 166	9H 286	W 255, BUP.	2 107	911 287
Inorganic Sample 8	10 0010	100 ZII	10 10 11 ·	100 200			100 mg
Organic Sample 0	9 20	m 243	0 22	DO 240	•	10 0012	180 E15
Bate Samuel	6V25/64					1 273	M 246
		12/11/04	A6/25/80	12/11/94		40/25/00	12/11/04
Note Shipped	60/23/6A	12/12/04	46/25/20	12/11 /6 4		00/23/04	12/12/04
Bate Shipped	. 09/05/04	******	63/65/64	*****		05/05/64	
North Grid	345514.662286	345514.662246	345.357, 1004.95	J45357.100495	345357.100495	30002.53A185	345002.534105
East Grid	1839539, 359465	1050650.560405	1858665, 002497	1830665, 002497	1838665, 882497	1839462.514695	1839462.514695 .
ONDIVICES							
*********	·						
Volatile	FINE.	PRED, THE HURRY	FINAL	PREL INDONY	FINAL	FIRE	PREALINEIMAY
	44/ 1	wp/1	. wg/l	49/1	ug/l	ug/1	ug/l
chlorobenesse	(30	• USE PETED	61	NOT REPORTED	NOT REPORTED	K	UNETECTED
chlerefere	WOETECTED	MORTECTED	UNETECTED	HOT REPURTED	INT IERUNIED	2000	E VJ
1, I-dichloresthere	DOCTECTED	WHE TECTED	(E.ECTE)	NOT REPORTED	NOT REPORTED	450	MOETECRED
1,1,2-trichloresthane	MORTECTED	WOETECTED	UNETECTED	HOT REPORTED	HOT REPORTED	200	WORE TELLTED
1, 1-dichleresthese	WOETELTED	UNITE TELTED	RE-ECTED	HAT REPORTED	HOT REPORTED	*	MORENECTED
withylone chloride		(2)	2300	HOT REPURITED	HOT SEPARTED	. 790	6513
acetone	1400	2190	27000	INT REPORTED	NOT REPORTED	21000	417
trans-1,2-dichloresthese	199	MORETECTED	100	NOT GERORES	NAT REPORTED	4500	. 6221
1. 2-dichlerenthese		UNE PETED	E ECTED	HOT REPORTED	MILE REPORTED	7300	MERCIED
1,2-dichleregrepare	MORETECTED	• WOETECTED	WHETECTED	NUT REPORTED	MIN SERVICED	METECTED	USE TECTED
1, 1, 1-trichleresthese	WETECTED	UNETECTED	MOETECTED	HOT REPORTED	HAT REPORTED	630	J 1930
1, 1, 2, 2-tetachlereethere	WINE TECTED	WOETECTED	P.	HOT REPORTED	IOI EPONE)	METECTED	MOETELED
chlorosthase	(EJECK)	UNETECTED	MOETECTED	MIN REPORTED	NOT REPORTED	EERD	OGETECTED
trichloresthese	WOETELTED	WESTELTED	UGETELTED	NOT REPORTED	HAT REPORTED	4300	806
vinyl chloride	EEEE	UNIETECTED	ELECTED	IOT REPORTED	NOT REPORTED	DOETECTED	MOETELTED
benzene		D 1620	710	INT REPORTED	NOT REPORTED	1700	0 1341
t-arthyl-2-sentanere		MERCIED	27000	HOT REPORTED	NOT REPORTED	MATERIES	579A
fluoretrichlerenthese	MARKETER	MODETECTED	MODETECTED	INT REPORTED	MATERIAL DEPOSITES	17000	METECTED
tetrachleresthese	MOETELED	LOGIE TEETED	UNEVELTED	HOT REPORTED	ADT REPORTED	140	CONFIECTED
tolum	1200	9 6150	3400	HOT REPORTED	MALE REPORTED	13000	20152
2-bitanne	1200	UNE RECTED	22900	NOT REPORTED		9400	MAETELIED
2-heranene	1000	CONTINUED	120	IOT REPORTED	INT SETUDIED	MARTECTED	OCE TECTED
ethylbacene	910	1500	2300	HOT REPORTED		ICOO	3251
Total Tylones	**	1730	. 300	NOT REPORTED	HET REPORTED	3390	14000
Sanivolat i le	FINAL	PRES. THE SURREY	FINE	PRES. DICTIONS	FINAL	FIIOL	PUEL INCOMEY
2004 April 154	w/1		ug/1	wg/1	ug/1	ug/1	eg/1
	₩.	ug/1	4 /-1		Ψ.	₩.	<u>-</u>
2,4-dissthylphonol	EJETE	' 55	430	NOT REPORTED	HOT REPORTED	EJECTED 2000	WAETECTED WAETECTED
Proposition	LAGRETECTED	(25	15000	NEST REPORTED		1000	DOETECTED
bis(2-chloreethy) letter	1400	UNETECTED	14000	NOT REPORTED	NOT REPORTED	********	
I, 4-dichlerstoneans .	LOUETECKED	. DOE TECTED	LAGETECTED	INT REPORTED	NOT REPORTED	MOE MELLED.	MARKACAED MARKACAED
Pentyl Moshel	MOETEURI	UNITED THE TELL	UNETECTED	NOT REPORTED	HOT REPORTED		WIRE RECTED UNDE TECTED
1, 2-Dichlorohonesno	LOGETECTED	UGE TECTED	UNE TECTED	NOT REPORTED	NOT REPORTED	GOETELTED	
4-firthy i phonoi	MOETECTED	LOGIC TECTED	2700	HOT REPORTED	NOT REPORTED	3700	(5)
1sopharene :	LAMETECTED	MOE LECTED	WESTECKED	NOT REPORTED	NOT REPORTED	WESTER	UNE FECTED
2-mthylphonol	MOETECTED	UNETECTED	LAGE TECTED	HOT REPORTED	HOT REPORTED	R ECTED	UNE RECTED
Brazoic Acid	EXCED	1415	NOT REPORTED	NOT REPORTED	NOT REPORTED	LOGIC PECTED	LINGE TECTED
Di -a Du tylphthalat a	WOETECTED	UNITE TECTED	METECIED	HOT REPORTED	NOT REPORTED	MAETECTES	WETECTED
bis (2-Ethylhesyl) Mithalate	UNITE TECTED	UNETECTED	METECIED	NOT REPORTED	HOT REPORTED	UDETECTED	UNIE TECTED
Di-n-Octyl Pothelate	UNETECTED	DOE RECIED	UMETECTED	INT REPORTED	NOT REPORTED	CONTECTED	UNE TECTED
naghthalene	LOGIE TECTED	UNETECTED	LOCKE TECTED	NUT REPUBLIED	NOT REPORTED	LOGETECTED	MOETECTED
diethyl phthalate	MAETECIED	UNITE TECTED	LIGHT TECTED	NOT REPORTED	MUT REPURTED	LAME LECTED	THE LECLED
							=

STREAMS WHEN STAFF HE WAS ALLES

•		, š					
Basple Location	9-5	, 9-8	5-6	9-6	84)-1 ,	\$ -7
Sample Code	90 tH5	ten des	an 100	SM 586	ON SEC BUT.	Š i 16 7	St 207
	10 (11)	in in	10 00 11	100 200		4	
Inorganic Sarple 0						में कीर	18h 215
Brganic Samle 0	9 277	M 643	9 277	BN 246 .		1 2/13	90 246
Poto Sompled	99/25/94	12/11/04	40/25/20	12/11/0}		Grafion Grafion	12/11/04
Bate thispad	10/23/0 4	12/12/04	40/20/00	12/11/04			12/12/04
Date Shipped	05/65/04		99/65/64			evel-o	**************************************
North Grid	362514.662286	31514, 162296	345357. 199495	345357, 199735	345,357, 1664,95	3430E, \$34185	34542,534185
East Brid	1830650. 360465	HERESE SLOVES	1830565, 002497	183666.00247	1030606.002497	1859442.514695	163942.514695
Pesticido	FINAL	PÁL JÁJIMAN	FIML	MAT INTIMAN	FIME	f page	PRES, PRESIDEN
	wy/l	۱پ	49/1	₩ /I	wg/l	۱ 💞	• 4/1 ∵
	SELECTED .	in techn	E.HITED	une lected	HALL DE PORTED	THE TELLED	uacrette)
Deta-DC		GAR HECTED	E ECID		EDT EPROTES	74	OUE TEETED
Endoulian 1	MLIECTED .			1.\$20		MOETECTED	
Entosal for Salfato	ME LECTED	0.600	REACHED .	1, 50 0	IGT REPORTED	METECTES	UNETECTED
heptachter	E.ECRD	0.200	(BIJKE		HOT REPORTED	MULTER TEA	Ą ŚĘ
Alpha-BC	RE RECTED	0.900	RE SECTED	ool stills	NOT REPORTED	GOETECTED	
Same-DC S. Indexed	REJECTED	1.400	REACTED	UNITED	(IOT REPORTE)	QUE TECTED	MOETEETEN
PCD-1251	RECTED	DOETECTED	EEEE	UNE TEE ED	HOT REPORTED	GOETECHED	UNETETE
helte-DC	REJECTED	ENETECTED	ME JECTED	uni terico	NOT REPORTED	PARTECIEN	MAETELTED
Aldrin	EXCIEN	0.300	REJECTED	2,310	NOT REPORTED	DOEIEETED	MERETER
Neptachilar Enposida	REJECTED	0.600	Œ ÆCIED	CONTIECTED	HOT REPORTED	POETECTED	6,976
Dieldrin	RE JECTED	METECTED	E.ECR)	PORTESTED	INT REPORTED	POEIECIED	MERCE
4,4'- IEE	E JECTED	(DOE TECTED	EXCID	CONFIECTED	NOT REPORTED	PREFECTED	MACHETER
Endrin	ELECTED	, 4.00	RE-RECTED	1.160	HOT REPURTED	POETECTED	4,70
Endouglifan II	REJECTED	DOSE RECTED	EFCTED	unttetjen	IOI REPUITED	POETECTED	ee.s Entere
4,41-000	REJECTED	INDETECTED	REJECTED	7.120	NOT REPORTED	POETECIED	
4,41-001	REJECTED	LOGIC TECTED	ME LECTED	i, (j.too	NOT REPURTED	POETEER	METECTE
Alpho Endountran	RECRED	MOETECTED	E.JECKD	MAETERTED	HOT REPORTED	DEFECTED	WHE TECTED
TEMMINELY ISSNIFTED CONSUME	FINAL	FEEL BUTTONEY	FTMAL	POEL DATABAT	FINE	FÂN	PAREL EMELOGY
TOWNS VIEW CONTROL	w/)	(a/)	ug/1	4/1	w/I		wg/1
•	•	4	•••	2 4		1	
Foran, Totroshydro-	77	LOGE RECTED	WERECHED	INT CHANCE	IET REPORTED	DOETECHED	not deut
Eyclohonam, (2-Mathylarlipyl)-	170	UNCETECTED	UNCETECTED	NO PROGIED	IOT REPORTED	PORTECTED	DOETER
Benzone, Nethyl -	2564	LANCE LECTED	MAETECTED	ini Çiğiti	ICT REPORTS	PRETECTED	MOETECIE
Denzenoacet icacid	MOETELTED	LOGIE TECTED	DOCTECTED	IN CONTINUED	NOT REPORTED	. 64	ume Açte)
benzene, ethyl-	%	5.15	7181	in Gingies	NOT REPORTED	15/5	MOETETE
Urbassa	(44)	UNDETECTED	2285	HOT EDÜĞTED	NOT REPUBLIED	430	uneifend
Unincent .	2720	UNITE RECTED	734	HOT ENGITED	· NOT REPORTED	225	UNE TET TE
(Administration)	120	UME TECTED	3754	eri ferifites	NOT REPORTED	,73 1	UNETECTED
Urhoom	397	LIMITE TECTED	916	NOT REPUTED	NOT REPORTED	: 1449	uae it cit)
Midmonth .	UNETECTED	MAETECTED	645	NOT PERMITED	NOT REPORTED	METERED	um nent
thinnen.	MOETECTED	LAGE LECTED	ice	INT REPUTED	NOT REPORTED	WORLECTED	DOE REAL
Ethans, 1,1-orybis(2-cijlarii)	470	LIMETECTED	64	NOT REPUBLED	NOT REPORTED	MERCIED	UMERCIED
Unbrown Carbonylic Acid	WOLTECTED	UNETECTED	319	not fermited	NOT REPORTED	1300	uaritith
Uninous Cortonylic Acid	MOETECTED	UNDE FECTED	1071	ADT ÜEFANTED	NOT REPORTED	1545	ONE REIED
Uninous Carborylic Reid	MOETECTED	LINE RECIED	LANGE RECIED	NOT REPUTED	NOT REPORTED	3700	wasticith
Unhouse chlorinated organië	15759	LIME TECTED	LOGETECTED	INT REPUBLED	NOT REPORTED	MOESECIED	uneffeith
Phenol, 4, 41 -Hethylenebis-	UNETECTED	UMETECTED	LAGE FECTÉD	NOT REPORTED	NOT REPORTED	665	um fecilib
Silicone	240	LOUNE TECTED	LAME TECTED	INT REPUBLIED	NOT REPORTED	DOETECTED	um fecto
Silicore	1440	OSE JECTED	1142	HET REPUBLIED	NOT REPORTED	463	vae lécien

HELDI WINER LABFILLA SURVICE MITER BURLITY HORIVITORI MESILIS

O — to t most in	\$-5	9-5	5-4	8-6	S-6	5- 7	8-7
Sample Lecation Sample Code	91 165	9u 285	SH 166	SN 546	SH SHE RUP.	91 107	9d 207
Stable cons	<u></u>						
Intriguic Sample 0	10 COLS	105 601	10 0011	18A 206		10 0012	18 S13
Branic Sample 9	D 3277	DA 243	9 2 72	BU 540		1 271	PR 246
Bate Sampled	06/23/04	12/11/84	00/28/0A `	12/11/84		60/SD/64	12/11/84
Bate Shipped	68/23/84	12/12/04	68/58/84	12/11/04		99/29/94	12/12/04
Note Shipped	03/65/84	-	09/05/04			03/05/04	
	30514,662286	345514.462266	345,357, 100495	315357.199495	345357.190495	343002, 534185	345002.534105
North Brid East Brid	METHODS, 35A465	1858550.560465	1850605, 002457	180646.002497	1858666.002497	185042.514695	1859462, 514695
CSM m.ia							ENTER SEC
2-Neusrant	880	WETECTED	UNDETECTED	NOT REPORTED	HUT REPORTED HUT REPORTED	WAETECTED WAETECTED	DOCTECTED
1,4 Butrion	1200	LOGIE RECTED	UNETECTED	HOT REPORTED	NOT REPORTED	MOETECTED	METECTED
Urbeaus Retore	4000	UNETECTED	2446	NOT REPORTED	ICH REPORTES	METECTED	UNETECTED
Denroic acid, 4-11-Hathyathy1)	• 465	170	MOETECTED	NOT REPORTED	IN INTERIOR	GGC ICE ICE	
Ethanol, 2-12-12-Chloresthery)	•				NOT REPORTED	WOLTELLED	MORENECTED
Ethony)	465	UNITE PECTED	UNETECTED	HOT REPORTED	MI EPRIED	WETELED	UME TECTED
Isograpyi Alcohol	WORTELTED	LOGETECTED	390	NOT REPORTED	MOT REPORTED	UGENETED	LOGETECTED
2 Butenel, 3-Hathyl	MOETECTED	UNDE TECTED	***	HOT REPORTED	IGI EPRITED	UGETETED	MONETECTED
Butenel	MOETECTED	ORE TELTED	3500	NOT REPORTED	NOT REPORTED	DOETECTED	WERCTED
Alcohol	PRETECTED	DOE TECTED	1100	INT REPORTED	NOT REPORTED	. 2%	MONETECTED
Videnam Hydrocarbon	648	MOETECTED	1100	NOT REPORTED	ADI GENERES	1000	MAETECTED
Uninem Nydrocarton	DEFECTED	LIME TECTED	9967	HOT REPURIED	NOT REPORTED	METETED	MODE TECTED
Undergrane	UNETECTED	MOETECTED	2000	HOT REPORTED	NOT REPORTED	MAETEETED	MOETECTED
Hethyl Senzone	WOETECTED	UNIONE TECTED	15/63	HOT REPORTED	MENT METANTED	UNETECTED	MOETECTED
2-Nethyl-Herannic Acid	MOETECTED	WOE TECTED	1307	NOT REPORTED	NOT REPORTED	MERETED	MAETECTED
4-Methyl-2 Nept anne	MOETECTED	LINGE TECTED	5712	NOT REPORTED	NOT REPORTED	30	UNIE TECTED
Urbnum alcohol	UNETECTED	WOETECTED	1958	IOT REPORTED	NOT REPORTED	2213	WEE TECTED
Uninam alcohol	MORETECTED	UNITE TECTED	UNETECTED	HOT REPORTED	HAT REPORTED	BA .	WOETECTED
Manage alcohol	UNE TECTED	MAETECTED	UNIE TECTED	IDI REPORTED	IDI KEPANEN	METETE	MONETECTED
1,1,5-friently/ Cyclebenel	WETELTED	UNETECTED	2265	IGI REPORTED	MIN REPORTED	310	WOETECTED
2-Postanol	UNETECTED	WOETECTED	WETECTED	NOT REPORTED		(3)	WORE RECTED
2-Pentanol, -4 firthyl	MOETECTED	LANCE VECTED	UNETECTED	HAT REPORTED		5727	CONTECTED
Onirano, 2, 3-Diethyl	WESTELTED	LAGE LECTED	8074	IOT REPORTED	NOT REPORTED	737	MORETECTED
Proposic Acid	POETECTED	LOGIE TECTED	UNETECTED	HAT REPORTED			
3-Outen-2-ero, 4-(4 Mretylesy)-							
2,2,6-Trienthyl-7-Beali					ICT SERVICE	1514	DOE RECTED
cycle(6, 3.9)	METECTED	UNE RECTED	WORTECTED	HOT REPORTED	MAIN MERCHANICA	****	
Ethanol, 2-12-Chloroethory)					. MET REPORTED	350	MOETECTED
[thery]	WESTECTED	DOMETECTED	UNETECTED	HUT REPORTED HOT GEFORTED			METECTED
2-Inidatel idirathiese	WETECTED	MOETECTED	LAGE TECTED	MA MERCHICA	IGI ICIANICA		
Phonol, 2-1(4-Hydrony Henyl)		•		and property	IDI REPUITED	725	OBETELTED
Mythy13	DOETECTED	UNE VECTED	MOETECTED	INT REPORTED HOT REPORTED	NOT REPORTED		WHETECTED
Minom Cartneylie Reid Ester	MOETECTED	UNDETECTED	USETECTED				UMETECTED
Dansene, 1-Ethyl-3-Hethyl	UNETECTED	MAETECTED	UNIETECTED				MOETECTED
Benzeneprerancie Reid	MAETECTEN	UNETECTED	UNETECTED			3000	1985
nylone	1500	280					UNDETECTED
nylone	1920	WETELTED	4162				UNETECTED
sylene	MOETECTED						6488
N, N-dissthylacet mide	DOETECIEN						
4,4°-arthylene bis phenol	MOETECIED	LOGETECTED					/
henauthyleye letrisi lesens	METECIEN						
3-arthylphenni	METECTER						44.55
2-arthyl hesancic acid	MAR LECTER	UNE TECTED					***
Benepie acid	MOETECTES	LAGE TECTEN					
	WESTECTER						

HELEN MOVER LINGSTELL SUFFRE WITER GIRLITY ROSEVITORS RESILTS

SUFFICE WHER SULLITY AND VICOL RESILIS									
Sample Location	5-6	8-0	8-9	1-1	8-10	5-10	5-]]	5-11	9-12
Sample Code	\$1 100	200	91 161	9M 209	Su 110	2H 510	m jii	SN 511	36 112 309.
Inercanic Sancte 0	10 MM	ID 209	10 a	MM 206	100 0076	MA 207		1804 202	10 021
Organic Sample 0	0 274	80 AE	1 23	M 237	0 2252	M 239	72	88 254	1 223
Date Sampled	80/20/80	12/11/04	0/3/01	12/11/04	90/30/04	12/11/04	0.4	12/13/84	60/23/04
Bate Digued	04/23/0A	12/11/94	60/ B/G	12/11/04	66/31/64	12/12/04	9/3/9	12/13/04	00/30/04
Date Drigged	63/65/6A	100,111,00	es/Eug	GEN 111/84	95/65/8A	10 10 41	97/8/94	16/13/01	63/65/64
Harth Grid	344991, 986184	244993, SBELOV	MANEL TREAK	34441_9X576	34A37K, 100231;	314375, 100231	AJEOL OF THE	343001.001300	
East Brid	1650412. 60105	1650412.501054	1000703.014043	ISSURED PAGENT	1650672.273332	1050072, 279332	160601.20	163651.865138	
capt arte		(Carle man		160702 01013	1000015.513035	INDIANCE CLANIC		(CONSTRUCTOR)	
SIG PRINCIPE	FINE	FINAL	FIÑL	FINAL	FINAL	FIME	FINE,	FINAL	FINE
******	ug/1	₩/1 .	₩ L-	49/1	44/ 1	• 9/1	4	• 9/ 1	44/i
District	133	21000	le con	73000	93.00	-		· 1400	12000
Belfate	1300	22000	21000	2300		7000	CHE ECIED	METELTE	MARTECTED
Hitrate		1 200	2 15 150			1 2000	SEE CED	9 320	200
Cartenate	IN COURS	INT CHANTE	IN INTERIOR	HET REPORTED	IOT CERCE	MET MERCHEN		MI CHANG	INT REPORTED
Dicarbonate	es crafts	ADI REPORTED	CHAPTED	MOI MENGRIED		NOT REPORTED		un Exulti	NOT REPORTED
116	310000	NOT REPORTED	IV94000	HOT REPORTED	ACT REPORTED	HOT REPORTED	7000	MAT REPORTED	112000
160	51000		•			23 MAIN (C. NO. 10.10)		CLECTED .	
	3000	200000	1999	(5000		EJELE)	CIETO	E ECTE	4000 E.RECTED
	ERRIE	E ECTED		REJECTED	R.FECRE	713000		14400	27000
010		DOETECTED	735000	35900	(55)		2700		
Athaliaity, sht	NOT REPUBLED NOT REPUBLED	NOT REPORTED	III E IIII	NOT REPORTED	NST REPUBLED NST REPUBLED	INT EPRITED	CHARLES AND	INT REPORTED	IN SERVICE
Albelinty CaCED		NOT REPORTED	CHANGE OF THE	NOT REPORTED			444	AND REPORTED	
Alhalinity, hydronidi	IOI REPORTED	NOT REPORTED	IN STREET	NOT REPORTED	IOI REPUBLI	IOT SEPTITED			NOT REPORTED
Phosphorus, Total	IN REPORTED	METECKED	IN INCHES	WETECTED	INT REPORTED	WESTELTED		R.HETE	IN TERMIED
Reserve		35700	<i>y</i> 8400	14200	-46	130000			210
Bulfide	ini terife)	IN TERMITED	IN INCIDED	INT REPORTED	an arabit	IOI TEPHNED		IN RIGHE	INT REPORTED
Fluorido	IOI EPONE)	NOT REPORTED	CONTROL PER	HOT REPORTED	ADT REPORTED	IOT REPORTED	ing Wants	NOT REPORTES	NOT REPORTED
Petroleus Hydrocardisti		MOETECTED	DOCTECTED	COMETECTED	UNE TELLED	WESTELLED	DOCIECIED		UNITE PECTED
196	talled.	HAT REPUBLIED	221000	HOT REPORTED	246000	NOT REPORTED	62000	MAI REPORTED	48000
lotal P		NOT REPORTED	1000	NOT REPORTED	170	NOT REPORTED	<u> </u>	HOT REPORTED	
Helogen (102)	. भग धार्माहो	NOT REPORTED	MA MACHIED	HAT REPORTED	HOT REPORTED	NOT REPORTED	MANUEL MA	INT REPORTED	NOT REPORTED
M	IN EIGHE	NOT REPORTED	MI (EPUNTED	HOT REPORTED	HOT REPORTED	IOT REPORTED	ing ing miles	IN EXAME	INT REPORTED
Bullate, turbidiastrië	ioi realici	NOT REPORTED	म्ब्री म्हेलवादा	NOT REPURTED	not resolved	NOT REPORTED		INT REPORTED	INT REPORTED
2,4,0 (BM)	भाग परम्युगरी	NOT REPORTED	HÀI IÈRURTED	NOT REPORTED	HOT REPORTED	HOT REPURTED		IN CHANG	IN REPORTED
2,4,5 IP (Silver)	not neroliti	HOT REPORTED	HÀ HÈPORTES	NOT REPORTED	HOT HEPOTTED	NOT REPORTED	IN STANIED	HOT REPORTED	NUT REPORTED
Carton, organic	भाग महत्रपुरिह्ये	NOT REPORTED	HE REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	HE HE WILL	IOT REPORTED	HOT REPORTED
Bolida, dissolved of Mic	not remitel	2180000	HÀT LÉPONTED	1470000	HOT REPORTED	2340000	जी हीजार	3700)	MOT REPORTED
Bolids, Sesponded	not nevilles	210000	adir reported	370000	HAT REPORTED	114000	HALL REPORTED	74200)	HOT REPORTED
Secrific Conductance Cal	NOT REPORTED	HOT REPORTED	MAT AFRONIED	HET REPORTED	ADT REPORTED	NOT REPORTED	not retories	HAT REPORTED	NOT REPORTED

SUFFICE UNION RULLITY MORE VIOLEN RESILTS

Samele Location	5-4	9-6	S-9	8-9	S-10	S-10	9-11	9-11	S-12 _
Sample Code	SN 108	94 200	94 109	SH 509 ,	SM 110	24 510	90 111	SH 511	90 112 BUP.
	. Jaco en	10 209	10 COLA	100 206	10 0070	100 207	10 0020	19A 222	10 0023
Inorganic Sample 1		M 240	0 2233	m 237	2252	M 239	D 3200	MA 25A	9 2259
Organic Sample #	124		00/30/04	12/11/84	00/30/8A	12/11/04	99/25/94	12/13/04	99/25/94
Bate Sampled	98/28/98	12/11/04	66/38/64	12/11/84	00/31/04	12/12/04	00/23/04	12/13/04	99/39/94
Bate Bripped	00/29/04	12/11/04	67/65/6A	16/11/01	09/05/0A		85/85/84		09/05/04
Bate Shipped	99/65/94		34441.9%5%	344433, 576576	34376. 100231	34437K. 100231	343001,001300	343001.001300	
North Grid	34773, 988184	344979, 988184	1850983.046043	1656363 046643	1858672.279332	1850072, 273332	1636591.265138	1858691, 285138	
East Brid	1830412.681964	1839412, 681664	(ESSECTION)	1679-1077 (199-13	1834DIELEV ASK	100072101701		•	
FIELD PRINCETERS		•						•	•
		·		_				10-20	ust restrict)
Flow (qua)	3-5	3-9	•	•	· 2-5	1	.15	10-20	MIT HEADLES
Tons. (Celsius)	IN IEMPE	12.0	. a	12.0	39	14.8	17.5		
	IOI IERUIED	6.65	3.69	6.16	6.5	. 6.03	r.w	1.U 72	INT PERSONAL
Specific Conductivity (usha/ca)	HOT HEARUPED	1629	2733	800	4350	2780	. **	12	
				****	Final	FINAL	FINAL	FINAL	FINAL
HORDINICS	FINAL	FIME	FINAL	FINAL		-/1	my/i	99/ 1	wa/1
	wg/l	wg/l	eg/1	wg/L	ug/1	Ψ.	Ψ.		
Aturima	3700	WHETELTED	6100	2500	1730	1000	734	7500	145 28
fish ionsy	CONTRACTED	UNETECTED	MOETECTED	MOETECTES	UNCETECTED	UNETECTED	MOETECTED	WHETECTED	
Granic	144	8.5 60	59	1 34	35	1 4	WOETECTED	WOE TECTED	UMETECTEI UMETECTEI
terio	359	MAETECTED	110	MOETECTED	0.36	WAETECTED	MAETECTED	MOETECTED	UNIC TECTE
	MOETELIED	METERED	UNIETECTED	UNCETECTED	POETECIED	MAETECTED	UNETECTED	ENDETECTED	
Boryllius Cadaign	MOETECTED	WHETELTED	MATERIAL	UNETECTED	WETECTED	MOETECTED	METECIED	WETECTED	UNDE TECTES
	IDI EPORTE)	52000	HOT REPORTED	11000	NOT REPORTED	200	INT REPORTED	7000	NOT REPORTED
Calcius	35	METECTED	ä	UNETECTED	61	40	WOETECTED	59	11
Director	ສ	MERCIED	WESTELLED	LIGHT TECTED	97	METERED	WETELTED	UNETECTED	UNDETECTED
Cobelt	IMPETECTED	MAN TECTED	WEE TECTED	WESTECTED	UNETECTED	WOETECTED	MOETELTED	CHICARON	UNIE TECTES
Copper	397300	EECTED	118460	135000	147400	6500	3010	18000	EJECIEI
Iren	116	GOETECTED	47	UNCETECTED	. 41	8 K		\$ 58 50	UME TECTEL
Lead	MOETECIED	LAME RECTED	MANE TECTED	1 30	MOETECIED	es e	WEETECHED		DOETECTE
Cyanide	NOT REPORTED	2000	MOT REPORTED	16000	NOT REPORTED	730000	INT REPORTED	OGETECTED	NOT REPORTED
Hognesian	4890	EERD	1165	3550	49.35	2310	. 39		
Nangarese	MAETECIED	MOETECTED	MARTECTED	WETECIED	WETECTED	METECIEN	WORTECTED	METECTED	METECTE
Recery	MAE TECTED	MAETELIED	DOE TECTED	UMETECIEN	DOETECIED	(30)	WESTECTED	UNETECTED	UGETECTE
Nichel	MOT REPORTED	22000	NOT MERCUTED	5000	NOT REPORTED	. 300000	IN IEPOITED	[4000]	NOT REPORTE
Potassian		METECIED	EDENE TECTED	LAMBE TECTED	MOETECTED	MOETECTED	SOUT LECTED	MOETECTED	UNETECTE
Selenius	MAELECLES	UNETECTED	LAMETECTED	UME TECTED	UNIE TECTED	UNE TECTED	WOE PECTED	METECTED	UNDE TECTE
Silver	LOGE TECTED	ARCONG TETTIER	MI MERCATED	470000	MIT REPORTED	739000	INT REPORTED	DOEFECTED	NOT REPORTED
Sedien	NOT REPORTED		MOE TECTED	METECIED	MOETECTED	DETECTED	WOE TECTED	MOETECTED	UGE TECTE
Thellium	WOETECTED	WETECTED	UNIX TECTED	UNIE TECTED	WOETECTED	DOETECTED	UNETECTED	MOETECIED	UNETECTE
Tin	DOETECTED	ONE TEETED	UNITE TECTED	UNIE TECTED	UME TECTED	UNETECTED	UNETECTED	MOETECTED	UNETECTE
Vanadism ·	LOGE TECTED	OCCIECTED		530	E JECTED	4	E ECIED	120	ME JECTE
line	. 17489	250		C.SU Not reported	MET REPORTED	NOT REPORTED		INT REPORTED	INT REPORTE
Percent Solids	HEN REPORTED	IOT EPHRTES							

MELEN MOVER LANGFILL SUMFACE WHEN SUMLITY AND VICOL MESSA 10

Sample Location	5-8	5-6	9-9	S-9 .	5-10	S- 10	S-1	9 -11	. 5-12
Sample Code	SN 100	200 (100	SH 100	50 209	50 110	81 S10	🕶 છીં	30 211	M 112 MP.
Inorganic Sample 0	10 00%	10 20)	m dià	100 205	10 0070	100 207		100 222	10 0023
Organic Sample 8	1 EN	DD 240	10 d (4) 9 d (3)	M 237	0 2252	III 239		M ZA	1 227
Sate Septed	10/20/0	12/11/04	40.4	12/11/04	00/30/0A	12/11/84	87549) 8 350	12/13/04	91/23/9 4
Bate Shipped	86/23/86	12/11/04		12/11/84	89/3)/84	12/12/14	10 /2 0	12/13/04	00/30/04
Sate Shipped	93/65/94	6011110V	09/0\$/04 <u>.</u>	16/11/04	93/95/94	10.1007	escales.	10/13/01	93/65/84
terth Grid	3147973, 506104	314999, 988184	34441.376376	34441.576376	JAJ76, 100231	3A376, 100231	34300.00130	343001.004300	47/43/44
East Grid	HE30415. COLOCA	1830412.601064	185990.1 0460A3	1850983.046043	1000072.279332	1839072.273332	1830691.800130	1050691.205138	
									•
emantics		•	•4,						
M-9-2-19-	FINE	POER, MICHIGAY	FINAL	PREL THINGS	FINAL	FINAL	FINE	POET ENGINEEY	FINEL
What ile	49/1 ∌	w/1		ug/i	49/1	wg/1		9/1	- - - - - - - - - -
A1			•	HET REPORTED	ERI ()	HAT EXCENSED	4.40	ANT REPRESED	MARTEL: 1
chlorehoneuro	**	IST ETUTED	27 DEEELED	HOT REPORTED	EECT)	IGH REPORTED	7.7.10	NOT REPORTED	MORETECT:
chlarolaro		IN SERVICE	A RECED	*	EEE E		OF FEREN		MORE LECTED
1, 1-dichlereethan		IOT REPORTED	RALIES	HET REPORTED	REALES	HOT REPORTED	TE BLILL	INT REPORTED	
1,1,2-trichlererthalb		INT REPORTED	COLUMN	NOT REPORTED		ICH REPORTED	A ETER	NOT REPORTED	UNTETECTED
1,1-dichleresthere	EEE	INT REPORTED	SE FELED	HAT REPORTED	EJER	NOT REPORTED	ME ECIED	OUT REPORTED	WOETECTED
methylone chloride	110	IN COURT	EFERE	HOT REPORTED	REJECTED.	NOT REPORTED	AND SCIED	INT REPORTED	NE JECTED
acelone	6.00 1.00	HOT REPORTED	CONTRACTED	HAT REPORTED	EEE	HOT REPORTED	A CIE	HOT REPORTED	EJETE)
tres-1,2-dichloresthem	1100	INT REPORTED	MAR PELIES	ICT REPORTED	E.ECE)	ICH REPORTED	CHESCIES	IDI RIGITED	MORTECTED
1,2-dichloroethane	AA UGETELIES	HOT REPORTED	DATE SECTED	NOT REPORTED	W.HC(E)	INTERPORTED	de Beien	INT RIGHTED	WHETECTED
1,2-dichloropropossi	WAETELIES	IDI EPURE)	ENERGIED	NOT REPORTED	EEE	NOT REPORTED	de REE	INT REPORTED	OGETECTED
1, 1, 1-trichleresthajis 😹	MAE JEE JEE	HOT REPORTED	POL ECTED	HOT REPORTED	ERCE	HOT REPORTED	de item	NOT REPORTED	METECTED
1, 1,2,2-totachlorestheil	METERIE	HUM REPORTED	EEE	HAT REPURTED	E EE E	HOT REPUBLIED	MERCHE	IN CHARTEN	LAGE LECTED
chloreethane	METECIEN	INT REPORTED	Series.	HOT REPORTED	E SECȚEI	HOT REPORTED	E AL RETED	IN REPORTED	DOCTECTED
trichloresthese	i	· IN EPHIED	Bot lected	HOT REPORTED	RJECK!	MUT REPORTED	SOUTH THE P	HOT REPORTED	LOGIC TECTED
visul chloride	MOETEŽĖ	HOT REPUBLIED	DOE RECTED	HOT REPORTED	REJECȚEI	NOT REPORTED	E ECTED	IOT REPORTER	WHETECTED
bonzene		HOT REPORTED	DAK TECTED	NOT REPORTED	e ecti	NOT REPORTED	REEED.	INT REPORTED	UNIX TEETED
4-arthyl-2-partered	2ria 3	INT REPORTED	SOUTH CITY	HOT REPORTED	CH.	NOT REPORTED	(fot letter	HOT REPORTED	MORTECTED
fluoretrichlereustillen	UNIX TEXTED	MATERIAL DEPOSITED	CONTRECTED	NOT REPORTED	RÆÇĒ	NOT REPORTED	GOLDECHED	IN KIMEL	UNETECTED
tetrachierestiese	OGETELSEN	INT CENTRE	Det lecres	HOT REPORTED	OE JECTED	INT EXPRES	dai kered	IOI RIGHTED	MOETECTED
telume		MIN MERCHIES	METECTED	NOT REPORTED	ME JECTED	NOT REPORTED	(MEREN)	HOT REPORTED	LIMBE TECTED
2-butaness	100	HOT REPORTED	M.ÆCTED	HAT REPORTED	E JECKE	INT REPORTED	OUE TECTED	HAT REPORTED	REJECTED.
2-housess	METECIE		DETECTED	INTERPORTED	TE JESTED		TOT ELLED	HAN REPORTED	WOETECTES
ethy i benevne		INTERPORTED	DOE RECTED	HOT REPORTED	R JECKS	IOT REPORTED	DOE FECTED	HOT REPORTED	MOETECTER
Total Hylones	23)	· IN REPORTED	MARTECTES	HOT REPORTED	RECED	NOT REPORTED	GOLVECTER	NOT REPORTED	LOGIC TELETER
Sanivolat i le	FINE	PER INTERNAL	FÄNL	PRES. SHANNEY	FINA	FIIFL	FINA	PREZ IMENARY	FIMIL
	49/1	eg/i	4/1	vg/1	eg/l	49/1	4/1	49/1 .	ug/1
0.4.41_44.4.4		-	• 4		(artesa	HOT REPORTED	Carren	un cenne	REJECTED
2,4-dianthylphonol	entel	IGI (EFORTE)	, CECIED	HOT REPORTED			Detierne	HAT REPURTED	NE JECTED
Recei	1,200	NOT REPORTED	E JECTED	NOT REPORTED	ERCRE	HOT REPORTED	THE RECTED	HOT REPORTED	R ACTED
bis (2-chloresthy) jthis	DOETE	HOT REPORTED	E ECTED	NOT REPORTED	, K 10	NOT NEPORTED	the Harrison	and the same of	NE JECTE)
1,4-dichlorubenzorij	PORTETE	HER REPORTED	. TECTED	NOT REPORTED	R 10		POR PECIES	NOT REPORTED	REACTED
Beneyl Meshol	POETELLE	HOT REPORTED	M ECTED	INT REPORTED	METERE	NOT REPORTED	RLIE		NE JECTED
1,2-Dichlerubenzerij	MOETELTES	MIN REPORTED	(EJECTED	NOT REPORTED	MAETECTED	NOT REPORTED	PORTECTED	HOT REPORTED	
4-Methylphenol		HOT REPORTED	G ACIED	NOT REPORTED	(E)E(TE)	HOT REPORTED	DOE RECTED	IOT REPORTED	REJECTED TO THE TOTAL
isopherere	36	INST REPORTED	E HCLED	NOT REPORTED	UNIE TEĘTEJ	NOT REPORTED	MORIECKE	NOT REPORTED	発表に作り
2-arthylphone)	8.0	HOT REPORTED	. Excied	NOT REPORTED	(EJEŽTE)	NOT REPORTED	PORTECTED	HOT REPORTED	RE RECIEN
Sonroie Acid	RETRI	NOT REPORTED	# AFCED	NOT REPORTED	NE JEKEN	NOT REPORTED	BJECTED	NOT REPORTED	ME ACTES
Di-n-Dutylphtholoff	MOETELTE	NOT REPORTED	E ÆCIED	NOT REPORTED	UNE TEÉTES	NOT REPORTED	todi tected	NOT REPORTED	EACIED
bis (2-Ethy theory)) (hthá late	UGE TEÉTE	NOT REPORTED	RE JECTED	HOT REPORTED	K , 10	NOT REPORTED :	(EJECTE)	HOT REPORTED	NE JECTED
Di-m-Origi Mithalike	WOE TECTE	HET REPORTED	E ACIED	NOT REPORTED	WOETELTED	NOT REPORTED	WORK TECTED	HOT HE PORTED	M.HCIED
nashthalone	UCE TECTED	NOT REPORTED	W.ACTED	HUT REPORTED	H 10	NOT REPORTED	DOM TECTED	NOT REPORTED	NE AECTED
			Œ ÆCIED	NOT REPORTED	WOETECTED	HOT REPORTER	LANGE TECTED	NOT REPORTED	ME MECTED
diethyl phthalate	DO ETECTED	NOT REPORTED	元人に代す	MUI REPURILE	Det itrite	MI STUDIES		,	

MELEN KANER LINGFILL SUMFACE MATER GURLITY RIPLYTICAL RESILTS

	• •								
Sample Location	\$-6 20.000	\$-6	5-9	5-9	5-10	S-10	5-1 1	8 -11	S-12
Sample Code	SH 100	, SN 206	SH 109	SN 509	50 110	SN 510	94 111	20 511	90 112 NO.
Inorganic Sample 1	10 6016	10 207	10 004	10A 205	10 0070	180 287	10 0020	MM 222	10 0023
Organic Samely 8	D 2274	BA 246	8 2253	III 237	0 2252	M 237	1 200	M 25A	0 2239
Date Sampled	99/25/99	12/11/04	69/39/0 4	12/11/04	99/39/9A	12/11/04	66/23/84	12/13/04	98/23/9A
Date Shipped	99/27/94	12/11/0A	99/39/84	12/11/04	66/31/94	12/12/04	88/23/84	12/13/04	00/35/DA
Date Shipped	93/65/8A	SE/11/64	63/65/94	10/11/64	01/65/8A	BE/ 1C/ 04		15/13/04	
- · · · · · · · · · · · · · · · · · · ·	314773, 700104	314575, 506104		34441, 976576	34437L (0023)	244224 (00004)	99/65/84	***	03/05/8A
North Grid		1850A12, 60106A	34443.976576	1856381 046843		344376. 100231	343001.001300	343001.001330	
East Grid	A20183.5140281	HENNIS COLORA	1859303.046043	INDAMES CANADA	1850072.279332	1830672.279332	1050691.205136	1859691.285138	•
Pesticide	FINEL	PREA ENGINEERY	FINAL	PRED_INCHMIN	FINAL	PRES, ENTIRONEY	FINAL	PREL INCHANT	FINEL
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Beta-BC	REJECTED.	METECTED	GELECTED	WOETELTED	NEJECKE)	2.490	OFFICE	WETETED	2.00
Endoselfan 1	ELECTED	UNETECTED	E ACIED	995.5	REJECTED	0.50	WOETELIED	UGETECTED	· MEJECIEI
Endoseifan Sulfako	EEEE	. 5.170	EXCITED	6.430	REJECTED	4.00	DOCTRETED	DOETECTED	UNE FECTE
hestachier	EEE	1.200	R.ACIED	0.740	EJERD	0.64	WEREIED	ME RETED	
						*			MARTECTE
Alpha-BC	RJETE)	0.66	(EJECTE)	METECTED	TEJECTED	0.976	MOETECTED	MOETECTED	UMETECTE
Same-IIC Q indens!	REJECTED.	0.30	RESCIED	UNITE TECTED	R JECTED	0.650	DOETECTED	MOETECTED	MMETECTE
POI-1851	EECED	METELTED	GENECIED	WETECTED	WE JECTED	MAKETECTED	WETECTED	USE TELTED	UGETECTE
Selta-SC	EJECTE)	METECTED	EJECTED	UNITE TECTED	ELECTED	2.470	DOE LECTED	UNETECTED	MMETECTE
Aldrin	REJECTED	0.710	(EJECTE)	0.640	EXERT	0.910	DUETECTED	DOETECTED	UGETECTE
Heptachlor Esponido	REJECTED	COMETECTED	REACTED	UNTETECTED	REJECTED	POETECTED	MOETECTED	WHETECTER	LOGE TECTE
Dieldrin	RECEI	MAETECTED	REJECTED	1.310	EJECTED	UNETECTED	MORTECTED	MOETECTED	: UNE TECTE
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4,4'-000	(E.ECTE)	1.110	(EJECTE)	2.470	(EJECTE)	METECIED	COCETECTED	LOGE TELTED	WETECTE
4.4-401	EEE	MOETECTED	REJECTED.	UNETECTED	REJECTED	0.220	WERETED	UGETECTED	MOETECTE
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Bate Shamed	00/23/04	18/11/94	66/3/6	12/11/04	00/31/04	12/12/04	00/21/09	12/13/04	06/30/6A
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nylene		NOT REPORTED	WHE TECTED	HOT REPORTED	WOE TECTED	HOT REPURTED	DOE TECTED	HOT REPORTED	UME TECTED
1,2-Bis (2-Chilarasthau) Ethana	POETEK	INT EFRIED	OCE TECTED	HOT REPORTED	J Å	HOT REPORTED	DATE TECTED	HOT REPORTED	WOETECTED
diartheryarthere	DOCTELLE	HOT REPORTED	WINE TECTED	HOT REPORTED	` j Š	NOT REPORTED	POL TECTED	HOT REPURITED	UNCE TECTED
M-Butylbenzene sulfenshide	WETELTE	HOT REPORTED	VALUE TECTED	HOT REPORTED	J J	J 39	POLITECTED	IN TEPONTER	WEETECTED
athroup CS Albert	DOE TELTED	NOT REPURIED	J 10	NOT REPORTED	LINGE TECTED	HOT REPORTED	WORTECTED	HOT REPORTED	UPGE TECTED
4(1, 1-Biasthylethy Billiosic Acid	WOETELTED	NOT REPORTED	1 17	HOT REPORTED	WAE TECTED	NOT REPURTED	bat lected	NOT REPORTED	UNITE TECTED
. Migha. , . Migha British Honsone Methanol	GRETE	NOT REPURTED	WALTECTED	NOT REPORTED	j a ž	NOT REPORTED	SOL TELTED	CETROPES TON	MACTECTED
1, 7, 7, -Iriarthylbicyclot2.2.11	DOCTER	MAT GEFORTED	tour TECTED	INT REPORTED	j iš		POE RECTED	NOT REPORTED	WESTECTED
hepten-2-one	UNE TEL TEL	NOT REPORTED	MANE JECTED	NOT REPORTED		NOT REPORTED	PORTECTED	HOT REPORTED	UNCETECTED
4-Proposyphenol	OCE TEL TEL	MOT REPORTED	J 13	NOT REPORTED	ألا دُ	NOT REPORTED	DELTECTED	HOT REPORTED	UNGE TECTED
3,5,5-Trimthylhermoth acid	UNE TELEVI	NOT REPORTED	J . 17	NOT REPORTED	, j 🕉	I X	DE TECTED	NOT REPORTED	UNCE FECTED
2130 -Benzethiazefind	WOETECTED	MOT REPORTED	WOETECTED	NOT REPORTED	1 34	NOT REPORTED	DOETECTED	NOT REPORTED	USE TECTED
4-41, 1-Dianthy lethy lithogoacac rd	SECULIE	PUT REPURIES	Sec icrica	MAI MEMINICA	, ,	IN INCOMICE			5-04-160-120
•			•		•	•			

SIMPLE WHEN OUR HE COUNTY FOR RESETS

	·.				
Sample Location	C-12	C-12	Field Black	Fibld black	Trip Blank
Sample Code	CD 115	CU 112 00P.	CH SI SIM	di alam	CN 51410
,		C 111 00 1		- (15 (4	CM CITIE
Ingresoic Sample É	10 00 13	10 6871	815 MBI	lan izo	
Organic Sample 0	7 J 200	0 851	M 230	75	100 217 200 210
Date Secoled	99/27/94	60 /31/64		12/13/04	90 249
			12/12/84	7- 1	12/12/04
Bate Shipped	99/29/94	99/31/94	12/12/04	12/13/M	15/15/84
Bate Shipped	89/85/8 4	0 9/ 0 5/ 0 4			
North Grid			`		
East Orid					
				٠.	
(MANUES				•	
******	•				

Volatile	FINAL	FINAL	PRES. SHITHWAY	MET SELECTA	LUES INCOMA
	wg/L	ug/1	wg/l	ĕ∯ /L	49/1
	<u> </u>			212	
chlorobeneme	- DEFECTED	MANETECTED	CONTRECTED	MALE SERVICES	MOETECTES
chlarefere	MATERIEF	DOCTECTED	LIMETECTED	MIT REPURIED	UNETECTED
l, 1-dichteresthan	MAETECTER	METECIES	UPBE TECTED	IN TEMPLES	POETECIET
1,1,2-trichlorestifica	. COMETECTED	DOCTECTED	COMETECTED	IN TERUNIEN	UNE IECTED
1, 1-dichloroethen	MAETELTED	MORTECTED	UNITE TECTED	ME PONTED	METECIEN
asthylene chloride	METECTER	EXCIT	LOCK TECTED	MIN REPURTED	MAR LECLEN
acriene 🥳 📜	WHETELTER	DETECTED	177	AND REPORTED	155
trans-1,2-dichl urjettične	UNDETECTED	WHE TECTED	DOENECHED	TO REPURTED	PRETER
1,2-dichloroethan)	WOETECTED	UNCETECTED	MACHECIED	IN IEPHNED	POETECIEN
1,2-dichleropropolity	WAE FECTER	MELECIED	MARE LECTED	EPONED	UNIX TECTED
1, 1, 1-trichlorostilise	WOETECTE!	CONTRACTECTED	DOCTECIED	EPUNTED	POETECTEN
1, 1, 2, 2-totachlorouthum	MAETECTER	DOE TECTED	MOETECTED	A REPURIED	LOUIS TECTED
chloresthese	ERIE!	METECIED	UNETECTED	AND REPORTED	POE TECTEN
trich largethane	DERTE	MOETECTED	LOGE RECTED	IN REPURIED	DOE TECTED
viryl chloride	(E.EELIE)	DOETECTED	LAME LECTED	MIT REPUBLIED	WOETECTED
tensone	R.ALTE	PRETECTED	J,0 3	MIN REPURTED	J,0 Z
4-authyl-2-puntargin	BOETECTE	MOETECTED	UNE TECTED	AND REPORTED	POETECTED
flurstrichleraufhad	MACHETTE!	MOETECHED	MAETECTED	EPONTED	UNE TECTEN
tetrechlererthese	POETECTE	UNETECTED	DOE RETED	MA REPUBLIED	DOETECTED
tolune	UNETECTE	UNE TECTED	MOETECTED	THE PURIED	UNE TECTED
2-but anone	DOETECTE	E ACTED	MERCIED	AND REPORTED	DOEJECIEN
2-heranene	MAETECIES	DOE TECTED	UNCETECTED	EPONIED.	MOE LECTER
ethyl bensene	METECIEN	PETECIED	UNEFECTED	E FORTED	DOE IECTED
lotal lylenes	UNETECTED	POETECTED	MAR LECLED	INT REPORTED	UNE IECTED
10101 -1111-11		9-00-100-109			
Senivolatile .	FINE	FINAL	PRET INCIDENA	PART MINUTE	MET INJUNEA.
	w/l	wg/1		4 /1	ug/I
		-y .	7.		
2.4-diapthylphenol	R.FETE	WATE PECTED	WHE VECTED	CONTRACTOR OF THE PROPERTY OF	MAETECTER
Been	MOENECIED	DOCTECTED	DOE LECTED	MI REPORTED	DOE VECTER
bis (2-chloresthy) follor	OCCUENCE	DOETECTED	DOELECTED	WE REPORTED	METECIEN
A A A! AS A			MOETECTED	REPUBLEO	PAGE LECICIA
I, 1-cicnicrossicing	DETECTE	UMETECTED	UNGE TECTED	IN REPUBLIED	MOETECTED
1,2-Sichlarateresta	CORFLECTED	OGE LECTED	COMETECTES	MI REPURIED	BOE HCTEL
	MOETECIES	CONTRACTED	OME HELIED	IN REPORTED	MOETECTED
4-Mathy)phenol	ROSE LECUEN	_		INT REPORTED	MAE LECLEA
igaphorane G anti-ulaboral		MAETECIED	CONTRACTOR OF THE CONTRACTOR O	INT REPORTED	MOELECLEN
2-certify inferred	(III) III	DOETECTED	UNDE TECTED	HOT REPORTED	
Bratoic Acid	CONCLECTE	ROELECIED	UNIX TECTED	NOT REPORTED	UNE IECTED
Dj-a-Dotylphtholofé	MOETECHED	. K 10	UME TECTED	AND REPORTED	AME LECIEN
bis 12-Ethylhery i Milhelate	現長に作り	METETED	OFFICE SECTION		UNDER TECTE U
Bi-n-Octyl Phthalôte	MAETECHE	UNDE RECTED	UNITE TECTED	MI EMMILE	MOETEETEN
naphthalene	UME TECTED	AND LECUED	MAETECIED	MI SPIRITED	UNCETECTED
disthyl phthalate	MMETECIED	UNETECTED	UNIOE RECIED	NOT REPORTED	UNDE TECTED

STRUCE PRIES BIST IA WAS AIDE WEST IS

Sample Location Sample Code	Field Black CH 112	Field Dlank CO 112 RP.	Field Dlank Or 213500	Field Blank CH 21 510	Trop Blank CU 21419
Inorganic Sample 6	10 0013	ID 9871	188 218 °	180 224	10A 217
Organic Sample 0	9 3282	D 2251	M 250	M 256	M 249
Date Sampled	99/27/84	99/31/94	12/12/84	12/13/84	12/12/84
Bate Shipped	18/28/84	00/31/84	12/12/04	12/13/04	12/12/04
Date Shipped	87/85/8 4	03/05/8A			
Harth Grid					
East Grid		•			
FIELD PARRIETEIS	•				
Flow (east)		NOT VERSIMED	NOT REASONED	NOT HEADAGED	MIT HEARINES
Tom. (Celsius)	IOT IEASUED	· IOI HEAGUED	NOT HEARINGS	NOT HEASURE)	NOT HEARLIED
eff .	NOT HEARINED	NOT HEAGUED	NOT PEAGMED	NOT HEAGURED	HOT NEASLINED
Specific Conductivity (una/cs)	NOT NEARLIED	NOT HEAGURES	NOT HEAGURE	NOT HEASURED	NOT NEASURED
SIGNEDITES.	FRAL	FINAL	FINAL	FINAL	FINAL
	w/l	ug/l	ug/ 1	49/1	ug/l
Alusinus	MACTELIED	UNITE TECTED	EMBETECTED	UNGE TECTED	MOETECTED
Ret issny	UNIETECTED	LINGE TECTED	UNETECTED	UNCETECTED	UNE PECTED
Aramic	PRETECTED	MMETECTED	SOME TECTED	UNIE TECTED	DOETECTED
Barius	MAETECTED	MOETECTED	MOETECTED	WE TECTED	WETECTED
Beryllico	MOETECTED	UNETECTED	UNETECTED	UGETECTED	MOETECTED
Cadeius	UNETECTED	UNE TECTED	UNETECTED	UNE TECTED	UNE TECTED
Calcien	IOI REPORTED	HOT REPORTED	UNDETECTED	UNIE TECTED	INGETECTED
Direction	WETECTED	UNCE TECTED	UNEVECTED	UNGE TECTED	UNETECTED UNDETECTED
Cohalt	MAETECTED	UNIONE TECTED	UMETECTED	UNETECTED UNETECTED	MAE TECTED
Copper Iron	UNETECTED VOCTECTED	UNCETECTED 197	(M)	LIMETECTED	(86)
Lead	CONTECTED	MORE TECTED	LONGETECTED	COME TECTED	MANE TECTED
Cyanide	OGETECTED .	CHARLE TECTED	UNCETECTED	METECIED	MOETECTED
Regresson	NOT REPORTED	NOT REPORTED	UMETECTED	UNE TECTED	WESTECTED
Rangarese	WETECHED	MANE TECTED	UNIETECTED	UNETECTED	POETECTED
Marcury	METECIED	MAETECTED	UME TECTED	MORE LECTED	WETECTED
Hickel	UGETECTED	UNE TECTED	UNETECTED	UNE TECTED	MOETECIES
Potassium	NOT REPORTED	"NOT REPORTED	UNGE TECTED	UNGE TECTED	UNTETECTED
Selmin	MOETECIED	UNE TECTED	LIGHT TECTED	UNIX TECTED	WOETECTED
Bilver	UNE TECTED	UNGE TECTED	UNETECTED	LOCKE TECTED	MOETECIED
Sedien	HOT REPORTED.	HOT REPORTED	UME TECTED	UNDETECTED	MOETECTED
Dailius	COMETECTED	UNGE TECTES	MAETECIED	UNITED TECTED	UNETECTED
Tin	MACTECTED	UNGE TECTED	. LINGE TECTED	UNITE TECTED	0 510
Vanadius	UNE TECTED	WEETECTED	tage lected	UNIX TECTED	WESTECTED
line	· 19	LAGE TECTED	UMETECTED	UNDE TECTED	METECTED
Percent So:165	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED

MELDI MINER LINGFILL RAFACE UNIER RAFLITY MALYTICAL RESULTS

Sample Location Sample Code	L-3 LM 101	F-1	(J. 166 (-5	F-5	F-3	L-3 LH 263
Inorganic Sample 8 Organic Sample 8 Oute Samples	10 00% 3 22% 00/30/04	IBA 227 BA 239 12/12/BA	10 0027 3 2255 00/30/64	18 216 20 246 12/12/14	10 0019 0 3276 00/23/04	MBA 214 BA 247 12/11/84
Bate Shipped Bate Shipped	93/39/94 99/85/94	12/13/04	95/95/84 95/95/84	12/13/04	66/29/6A 69/65/6A	12/12/84
North Grid East Grid	346100. 046539 1858530. 498833	346100, 046539 1658530, 4900,33	345993, 461 128 1850715, 641829	345993. 401120 1850715. 641029	345302. 162750 1859630. 560405	345382. 162750 1858638. 568485
FIELD PROVETERS				•		٠
Flow (gen)		•		•	20	39-59
Toup. (Celsius)	8 4.62	3	æ.25 1 6	6.38	æ 6.30	
Specific Conductivity Insta/cm)	18	. 4.2	1759	199	3000	1400
MUNGANECS	FEMPL	FINAL	FINAL	FINAL	FINAL	FIME
***************************************	49/1	ug/1	ug/1	mg/l	ug/1	ug/1
Maximo	175300	95700	56.15	205000	450	WOETECTED
Ant iciny	METERED	METECTED	UNETECTED	MOETECTED	UGETELTED	MOETECTED
Arsenic	97	120	31 277	\$ 160	59	1 50
Barius Baryllius	MAIN SERVER	WOETELTED 16	130E VECTED	UNCETECTED 27	AAS Gelerier	COMETECTED
Cadaign	12.4	1	7.3	16	UNGETECTED	UMETECTED
Calcium	INT REPORTED	61000	HOT REPORTED	113000	NOT REPORTED	79000
Orenian	362	1520	644	1306	24	EMETECIEN
Cobalt	122	350	207	199	MACTECIED	METECTED
Copper	110	40	E .	256	UNETECTED	MOETECTED
Iren	455,00	315000	188200	447000	181200	195000
Lead	ers ers	\$ 45	83	\$ 262	39	ENTERECTED
Cyanido	MOSTECTED	20	UNETECTED	UNDETECTED	UNCETECTED	MMETECTED
Ragnesium	HOT REPORTED	29000	NOT REPORTED	45000	NOT REPORTED	50000
Hanganese	3500	2070	2500	3520	3165	3560
Recury	9.5	UNETECTED	UNTETECTED	400	UGE TECTED	COCETECIED
Richel Putansian	9435 HOT HEPTER	7300	375	3000	UGETECTED :	MAETECTED
Selenius	MOETECIED	METECIED	NOT REPORTED UNDERECTED	UNIETECTED	. NOT REPORTED	COORTS COORS
Silver	CONTRACTOR	UME TELLED	UNIX TECTED	CONTRACTED	UME IECTED	MAETECTED
Solien	NOT REPORTED	311000	NOT REPORTED	177000	NOT REPORTED	42400
Ballium	MOETECIED	METECIED	UNGETECTED	UNITE TECTED	UNDETECTED	MAETECIES
Tie	MOETECTED	UNDETECTED	DOE TECTED	UNE TECTED	WESTECTED	DOE TECTED
Vanadius	470	170	COME TECTED	259	DOE TECTED	INCE IECIED
line	2140	1200	1400	1300	ME MECTED	39
Percent Solids	NOT REPORTED	NOT REPORTED	NOT REPORTED	HOT REPORTED	NOT REPORTED	HOT REPORTED

METER MINER FIGHT OF ALICH SEATLE

A. A. A. A. A. A. A. A. A. A. A. A. A. A	L-I	t-1,	l-2	ι- ?	t-3	t-3 ₂₂
Saute Location	ù 101	· Lii abi	LH 102	CIR SAS	LM 103	m sp
		···· ***		915 01	ID 0017	m zij
Sterlanic Samle 0	10 0025	IBN 87	10 0027		1 278	m elt
Captic Sample 8	1 82%	क्ष द्व	D 2255	845 M		12/11/04
Saté Sampled	69/35/84	12/1 2/0 0	69/39/84	12/12/84	98/25/84	12/12/00
hte Dippet	63/39/84	12/1 3/0 4	88/39/84	12/13/04	00/29/04	12/12/04
Bulg Shipped	93/65/84	1 3	09/05/0A		03/65/0A	315302.1 (ETS)
Berth Grid	344 M. 04537	3618L (1853)	315993.401126 ^	343793, 401 120	345302.162750	
East Grid	1450530, 470633	1400530, 490633	1650715.64182 9	1639713.641 827	1858630.560405	16006.30. Stoll6
	V					
incidence		•				
	•					
						أستفسر حب
Volatio	FINAL	DAET THE MANAGE.	FINAL	MED INTERNAL	FIMA	MET INCOME.
t-undan-	19/1	w) i	ug/1	wg/L	wy/l	-/
	•	6:1		<u>i</u>		LABERECTED
Al Colomba	MANETECTED	MERCIE	WHETECTED	UNETECHID	120	
Aldulara	MANE NETED	UNE PECTED	14	LOCETECTED	100	CONTRACTOR OF THE PERSON NAMED IN
i. i tich greiber	90	de ttt	166	LANETEC PA	199	UNE RETE
, i, d-trick) crackers	MARKETA		100	. wetter	ė.	W 15 150
Hichierestians	DOETECTED	JE TER	4	UNIC TECTED	(MOETECIEN)	MARKETER
in this chloride	SEJECTED	MERECIED	(EJECTE)	UNDETECTED	7706	,8954
4. V	7400	UME RECTED	420	UNIETECIED	85.00	1121
Acathan	4	19746	UNETECTED	10736	1600	4577
traft-1,2-dichleresthese	DOCTECTED	6700	3400	6790	5400	MENCIED
1,2 Sichleresthan	METECTED	MERCIES	METECTED	METECIÊD	LOGETECTED	AME LECTED
1,2 dichloreprepas	MOETERE	UNETECTED	METECIED	UNETECTÉD	170	affefferen
1,1,1-trichlerorthane	MOETECTED	UNE RETEN	LOGIE TECTED	UNGETECTÉD	379	AMELICIED
1,1,2,2-tetachloresthans	MACIELED	AND RECIED	UNETECTED	COMETECTÉD	160	UNICITED
itiliteethme		727A	230	784	160	WERCIED
trithterestame	150 MAETELIED	THE REILE	010	MERCE	REJECTED	MERICIED
infl chloride		133	64	1 133	446	(3579
Lendone	S .	3077	70	311	35000	MANAGE TED
1-ghty1-2-partanene	700	3	DOCTECTED	METECED	CONTENTED	UNERCTED
offretrick areasthese	EJETE)	MACRETED	UMETECTED	UNIETECIÉS	73	MERCIE
tetrachlorosthens	110	WINE RETTED	700	1586	7000	1764
folikus	670	15876	' 4	LIMETECIES	5900	MERCE)
2-99Lanene	650	der RECTED	-	MAETECIES	LIMIETECTED	MERCIED
2-tilsanore	MAETELLED	MERECIED	UNETECTED	UNDETECTED	100	AND REAL PERSONS
othy throward	55	MERCIED	10		130	.3000
fotål Tylenes	· 129	46	. 170		-	
Tud.				PRES. 13011078Y	FIML	PRES TRIBUTAL
Surfivelatile	FINA	LAET THE MANA	FINEL		eg/1	الأنسا
	ug/l	الِيَّةِ ا	eg/l	49/1	₩.	-
				UNCTECKED	ELECTED.	METECTED
2, 4-disetly ighted	(EJETE)	· DOE ECITS	E ECTED		1999	METECTED
Retal	REACTED	OMETECTED	(E.ECTE)	METECIEN	1390	1105
bifiz-chlorestly!)ather	DOCTECTED	690	R RCTD	(10	INCETECTED	MERECIED
1, 4:dichlorobenzone	LOGETECTED	DOE TELTED	EXCIED	MAETECIED	MOETECTED	DE ECTED
Builty! Alcohol	81	(DOE JECTED	E ECIED	UME TECKE		UNEFECTED
1,2-Dichlorobanzone	UNETECTED	MOETECTED	E ECTED	UNE TECTED	UNE TECTED	SAQ.
4-Mithylphenal	REJECTED	DOETECTED	ME JE CIED	UNETECIEN	2000	678
indheren	2300	1030		ı İtai		ODE ECIED
2-dethylphenal	EXCIO	POETECTED		UMETECİEN	240	MAR PECTED
Bethoic Acid	MEJECTED	17.	WE JECTED	33 1	E ECIED	
Di-ti-Detylphthalate	MOETECTED	DOE TECTED		LOGETECTED	UNETECTED	DÜETECIED
his (2-Ethy [heav]) Phthalate	U			LOGE TECTED	LINEE TECTED	de fectes
\$1-in-Octyl Phtholate	POE TECTED	T -1.		LAME TECȚED	UNETECTED	MOETECIED
ashinalese	UMETECTED	ž			UNCE TECTED	DOE LECTED
	A TOWN THE PERSON A	UME TECTED		4	thee tected	MORTECIED
diéthyl phthalate	•					

		NELEM PROMER LANGETILL SUMFACE WATER GUALITY MARLYTICAL RESULTS							
Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Color Increase Incr	• • • • • • • • • • • • • • • • • • •			C-5	C-5	6-3	C-6	C-7 .	C-7
Organic Sample 0 9 3275 50 242 9 3271 50 246 9 3276 50 266 50 266 50 262 Bate Sampled 60/25/64 12/11/64 60/27/64 12/12/64 60/27/64 12/12/64 60/27/64 12/12/64 60/27/64 12/13/	Sample Code	OI 194	CH 204	OI 165	DI 865	CH 166	Ot 206	CN 187	CH 207
Bate Sumpled 60/25/64 12/11/64 60/27/64 12/12/64 60/27/64 12/12/64 60/27/64 12/12/64 60/27/64 12/13/64 60/27/64				10 0010		10 0057	III 229	10 467	100 E30
Oute Shipped 00/29/04 12/12/04 00/29/04 12/13/04 12/13/04 12/13/04 12/13/04							M &)	1 1266	M 262
Bate Shipped 09/05/04	-				,		15/15/04	99/ 27/ 9 4	12/12/84
Marth Grid 345301. (2006 345371. (2006 34327. 15220 34327. 15220 343127. 15220 34312. (15740 34512. (15740 34525.	• •		12/12/04		12/13/04		12/13/04		12/13/04
East 9-14 18396.38. 813866 1838638. 813866 1831247. 734224 1831247. 734224 1831942. 873682 1831942. 873682 183191. 528134 1831171. 52813									
						J			
, \cdot	East Grid	18596.30. 813006	1030630.013006	1651247, 794224	1851247. 791224	1851942. 975682	1851942. 875682	1851 191, 520154	1851171.520154
Post icide FINA. MELININAY FINAL MELININAY FINAL MELININAN FINAL MELININAN	Posticido	FINE		FIME	PRET INCOMA	FIML	PREAL INSTITUTE	FINAL	PRET INTIMARA
		wg/l	44/1	49/ 1	_ eg/1	ug/1	wg/l	•g/1	49/1
DAX &- DIC MARTECIED MARTECIED MARTECIED MARTECIED MARTECIED MARTECIED MARTECIED MARTECIED MARTECIED MARTECIED	Nto-DE	MONETECTED	METECTED	• WORTECTED	DOCTECTED	LOGETECTED	DOCTECTED	MOETECTED	MODETECTED
Endowlfon 1 WOETECTED WOETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	Endoquifan 1	MOETECTED	DEFECTED	LOGETECTED	UNETECTED	POETELTED	DOCTECTED	UNIE TECTED	MORTECTED
Endown from Dulfato WOETECTES WARTECTES WOETECTES WOETECTES WOETECTES WOETECTES WOETECTES WOETECTES	Endoselfan Belfate	MOETECTED	UNETECTED	WOETECTED	WESTECTED	UNETECTED	WOETELTED	MOETECTED	WOETECTED
hopt achies decrected decrected decrected decrected decrected decrected decrected decrected decrected decrected	heptachier	OCCTECTED	WAETELTED	MARKETECTED	UNETECTED	SOCETECTED	UNETECTED	COMETECTED	WAETECTED
Alpha-DIC UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED UNCETECTED	Alpha-OC	DRETECTED	WETER	OCCUENT	UNIETECTED	UNE TECTED	MOETECTED	MOETECHED	MAETECTED
Garno-IPC IL Indone) UNETECTED UNETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	Garan-IPC (Lindone)	MOETECTED	MERCIED	MOETECTED	UNETECTED	MAETECTED	MORETECTED	DOETECTED	MOETELTED
PCD-125A UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED UNDETECTED	PCD-125A	DOCTECTED	PORTECTED	WOETECTED .	DOE TECTED	UNETECTED	MOETECTED	MOETECTED	WOETECTED
Dolto-INC DOCTECTED ENGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED UNGETECTED	Delta-DC	DOCTECTED	MAETECTED	WORE TECTED	LOGIETECTED	WOLTECTED	MOETECTED	DOETECTED	UNCTECTED
Aldrin Undetected undetected undetected undetected undetected undetected undetected undetected undetected	Aldrin	UNETECTED	DOCTECTED	MOETECTED	MOETECTED	COMETECTED	METECTED	METECTED	MARTECTED
	Naptachler Exposide	MOETEERED	DOCTECTED	DOENECIED	UNE TECTED	MOETELTED	MOETECTED	OGE TECTED	LOGE RECTED
	Dieldrin	MORETECTED	PRETECTED	MODETECTED	MOETECTED	MOETECTED	COCCTECTED		UNETECTED
	4,4°-88E	MOETECTED	METELTED	UNDETECTED	UNE TECTED	MOETECTED	DOETECTED	CETTET SOU	DOERCIED
and the profession of the profession and the profession of the pro		UNETECTED	MORTECTED	MORTECTED	WOETECTED				MAETECTED
	Endoosifan II	DEFECTED	WHETELTED	MORTECTED	UNIETECTED	MOETELTED			WERECIED
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		49/ l	49/1	my/l	wg/l	ug/1	ug/l	4/1	up/l
things 25 threfered 31 NOT REPORTED 20 NOT REPORTED 23 NOT REPORT	Maria	.5	SOUTHERN	31	NOT REPORTED	3	NOT REPURTED	23	HOT REPORTED
MARCHEN MARTELLES MARTELLES 7.1 NO REPORTES MART REPORTES MART REPORTES MARTELLES MART REPORTES	Midwan	MORTECTED	POETECTED	7.1	NOT REPORTED	UNETECTED	WI REPURED	ÖGETELTED	HOT REPORTED
INDIANA INDICED CONTROL IS NOT REPORTED NOT REPORTED NOT REPORTED NOT REPORTED	Interes	MOETECTED	CHETELTED	15	HOT REPORTED	MOETECTED	HOT REPORTED	MORETERIED	HOT REFURIED
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1-but anal, 3-artin/1-fication 13 UNEVECTED UNEVECTED NOT REPORTED NOT REPORTED NOT REPORTED	I-butanol, 3-arthyl-fratate	13	METELTED	UNEVECTED	HOT REPORTED	MOETECTED	NOT REPORTED	MOREVECTED	NOT REPORTED
Cyclebrane, fiethy METECIED METECTED 10 NOT REPORTED 11 NOT REPORTED 9.2 NOT REPORTED			MOETELTED	10	NOT REPORTED	11	ADI REPORTED		IOT REPORTED
hanaunthy level of this loans underected 200 underected not reported underected tot reported tot reported	• • •	MOETECTED		UNIETECTED	HOT REPORTED	MOETECTED	NOT REPORTED		NOT REPORTED
9-Betadocon Undetected Undetected 29 NOT REPORTED UNDETECTED NOT REPORTED UNDETECTED NOT REPORTED		WESTELLED	DEFECTED	27	NOT REPORTED	WESTELTED	NOT REPORTED	USETECTED	NOT REPORTED

HELEN HAVER LINGFILL REPLIES

Sample Location Sample Code	C-15	C-12 Co 112 Ruy.	Field Black CD 213700	Field Dack Of 215 m	Trip Slash CN 21419
Interganic Saspin 6	10 0013	10 0071	815 ABN		MBA 217
Organic Sample 0	9 3202	D 8251	M 23)	JH (56	EVS RE
Note Sampled	80/27/84	00/31/04	12/12/04	iz/i}/ol	12/12/04
Bate Shipped	00/25/0 4	00/31/04	12/12/04	ie/is/da	12/12/04
Note Thipped	03/05/04	09/05/04			
Rorth Grid	•	•			
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DES RECOVERES	FIME	F 1100L	FTML	1	F1100.
	49/1	w/i	49/ 1	` `	19/I
		•	•		
Chloride	1000	UNETECTED	DOE RECTED	THE PECTED	WORK PECTED
Sulfate	UNTETECTED	MORETECTED	UMETECTED	MINETECTED	MARTECTED
Hitrate .	6500	1200	UNETECTED	MOETECTED	MOETECTED
Carbonate	HOT REPORTED	NOT REPORTED	NOT REPORTED	IN REPORTED	IST REPORTED
Dicartenate	HOT REPORTED	HOT REPORTED	NOT REPORTED	MEPONTED	NOT REPORTED
THE	COOO	MORTECTED	HOT REPORTED	NOT REPORTED	NOT REPORTED
NC	DOETECTED	UNETECTED	- 3000	300	2000
100	REJECTED	E JECTED	EJECTED	REJECTED	EXCIP
(3)	300	10300	UNE TECTED	MOETECTED	WHETEETED
Alkalinity, phi	HOT REPORTED .	NOT REPORTED	NOT REPORTED	(a) REPORTED	MIT REPORTED
Alkalinty (CaDID)	HEIT REPORTED	NOT REPORTED	HOT REPORTED	MI REPORTED	NOT REPORTED
Alkel inity, hydroxida	भग सम्बाह्य	NOT REPORTED	NOT REPORTED	MI MERCATED	HER REPORTED
Phosphorus, Total	NOT REPORTED	NOT REPORTED	R 200	. y 300	1 300
Amonia		MOETELTED	METECTED	BOE TECTED	1100
Salfido .	ION REVONTED	NOT REPORTED	HOT REPORTED	WIT REPORTED	HOT REPURTED
Fluorido y 3	NOT REPORTED	NOT REPORTED	ICH GEFONTED	AND REPORTED	INT REPORTED
Petroleus Hydrocoffund	OB ETECTE Ů	UNETECTED	UNEFECTED	OGE TECTED	MOETECTED
198	UGE IECTES	UGETEETED	IOT REPORTED	MIN REPORTED	HET REPORTED
Total P	POETELTE	WOETECTED	IGT REPORTED	IN REPUBLIED	HOT REPORTED
Halegen (1911)	HOT REPORTED	NOT REPORTED	HOT REPORTED	NUT REPORTED	HOT REPORTED
	HOT REPORTED	NOT REPORTED	HOT REPORTED	ANT REPORTED	NOT REPORTED
Sulfato, t urbidialiri k	HOT REPORTED	HOT REPORTED	HOT REPORTED	NOT REPORTED	HET REPORTED
2,4,0 (90)	IOT REPORTED	HOT REPORTED	HOT REPORTED	WE REPORTED	AND REPORTED
2,4,5 TP (Silver)	NOT REPORTED	NOT REPORTED	IGH REPORTED	INT REPURTED	NOT REPORTED
Carton, argenie	HOT REPORTED	HOT REPORTED	INT REPORTED	NOT REPORTED	NOT REPORTED
Solida, dissolved at 1880	NOT REPORTED	NOT REPORTED	UMETECTED	5000	UMETECTEN
Solids, Suspended	HOT REPORTED	NOT REPORTED	WETECTED	4000	WESTECTED
Specific Conductaics, ESC	NOT REPORTED	HOT REPORTED	NOT REPORTED	WIT REPORTED	HOT REPORTED