Final -- June 29, 1987

Preliminary Assessment Redwood Road Dump Salt Lake City, Utah UTD980961502

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Prepared For Utah State Department of Health Bureau of Solid and Hazardous Waste

by Michael C. Long

SCANNED

DERR - 1987-005202

Final -- June 29, 1987

EXECUTIVE SUMMARY

Preliminary Assessment Redwood Road Dump Salt Lake City, Utah UTD980961502

Setting

The Redwood Road Dump (RRD), located at 2000 West Indiana Avenue in Salt Lake City, Utah (see Figure 1), is the site of an old Salt Lake City landfill which operated between the years 1923 and 1962. It was the primary landfill for Salt Lake City (SLC) from the time it opened until the mid-50's when the North Temple Landfill (UTD000463489) was started. It is likely that the volume of incoming refuse at the Redwood Road Dump began to decrease at that time, and continued to do so until its termination as a dump in 1962.

While in operation as a landfill, open dumping was practiced. No manifest system is known to have been in use. Incoming refuse was dumped in piles and periodically covered with fill dirt. Open burning of refuse was also a common practice at this site.

The 70-acre site is entirely owned by SLC Corporation. From 1962 to the present, SLC has been using the property to dispose of debris (leaves, grass trimmings, tree and bush trimmings, storm drain sludge, etc.) collected by the local street maintenance crews. The site is currently closed to the public, and the access road has a locked gate (see Figure 2). It is poorly fenced, however, and could potentially be the site of illegal/unauthorized dumping.

Potential Source of Contamination

Information about waste disposal practices at the site is not available. However, there is some tangible evidence that materials other than household refuse and inert debris were disposed of there. A report prepared for the Utah Department of Transporation (UDOT) by David Eckhoff (an independant Engineering Consultant at that time) entitled <u>Preliminary Investigations</u> <u>Disposition of Garbage Materials in Abandoned Landfill</u>, July 1977, states that 21 soil borings were performed 12 of which contained a "petroleum product" at or near the water table. In one drilling log, the driller states that chemical waste was encountered. No chemical analyses were performed on these soil borings because the study was done to assess the site's viability as the location for a portion of Interstate Highway 215, not its potential as a hazardous waste site. The study concluded that the site was safe enough for the proposed use of the property; i.e., the potential hazards from explosive gases generated by decomposing organic materials were minimal and the soil was sufficiently stable to support the proposed construction.

ML/psw 4209U Draft-- April 15, 1987

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Preliminary Assessment Redwood Road Dump Salt Lake City, Utah UTD980961502

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During the site's use as a primary landfill for SLC, no regulations were in effect for controlling disposal of hazardous materials such as pesticides, solvents, acids, bases, or oil sludges. Since no known manifest system was in use during the operating period, precisely what has been disposed of at the site and in what quantities and concentrations is unknown.

Pathways and Receptors

A. Ground Water

Ground water is the principle potential pathway associated with this site. The depth to the aquifer of concern varies seasonally, but is generally between 0 and 15 feet. This aquifer consists of a deep, semi-confined artesian aquifer which is considered hydraulically connected to an upper, unconfined aquifer. The water quality of this aquifer decreases rapidly near the surface, and is generally quite saline. In the deeper regions, however, water quality is very good.

A recent well survey conducted by Dames & Moore as part of the Remedial Investigation activities currently underway at a neighboring NPL site, the Portland Cement Company, Site # 3 (this NPL site is located directly south of RRD, on the opposite side of Indiana Avenue) indicates that a total of 67 drinking water wells are located within three miles of the site. Of these, six are municipal, five are high yield non-municipal, and 56 are private wells. These wells all draw water from the deeper regions of the aquifer where the water quality is quite good. Screening depths vary between < 100 feet and > 600 feet (refer to item II-G, Part 3 of the Preliminary Assessment form).

The native soil consists mainly of lake sediments existing as unconsolidated deposits, and an interlayered suite of clays, clayey silts and thin sand stringers varying in thickness from less than 1/10 in to several feet. This thin interlayering of low permeability clays and silts with higher permeability sandy layers creates a strong anisotropic ground water flow condition; i.e., ground water can flow more readily in a horizontal direction than in a vertical direction. Hence, there is a potential for ground water contamination by migration of hazardous materials possibly present at the site.

B. Surface Water

Surface water is not a major concern here because the only surface water in the area that is not confined to the site is the City Drain which borders the site on the west (refer to Figure 1). This water has no known domestic uses and does not flow directly into any major water bodies like the Great Salt Lake or the Jordan River. Local fauna use the water for drinking, and are therefore the only known potential receptors of hazardous materials migrating from the site via the City Drain.

In addition to City Drain, a ditch runs north and south across the center of the site (no outlets), and a small pond (possibly recharged by ground water) is located in the north end of the site (see Figure 3 - Site Sketch). Again, there are no known domestic uses of this water, but local fauna use it for drinking.

C. Air

The potential for air contamination by volatile organics exists; however the probability of a substantial air release is quite low. The quantity of methane and other explosive gases generated by landfilled waste was measured in 1977 in the previously mentioned UDOT study and was not considered to be sufficient for concern.

Conclusions and Recommendations

The potential for ground water contamination by hazardous materials possibly present at the site does exist. Since the deeper portion of the aquifer serves as a valuable drinking water supply, and since it is hydraulically connected to the upper portion, the potential for such contamination is of concern.

In order to evaluate this potential threat, I recommend that a site inspection be performed with medium priority.

EPA POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICATION PRELIMINARY ASSESSMENT 01 STATE 02 SITE NO. PART 1 - SITE INFORMATION AND ASSESSMENT UTD980961502 II. SITE NAME AND LOCATION Ol SITE NAME (Logo, common or descriptive name of site) Redwood Road Dump 02 STREET. ROUTE NO. OR SPECIFICATION LOCATION IDENTIFIER 03 CITY 2000 West Indiana Avenue Salt Lake City 06 COUNTY **07 COUNTY CODE** 04 STATE **05 ZIP CODE 08 CONG DIST.** Utah 84044 Salt Lake UT-02 004 **09 COORDINATES** LATITUDE LONGITUDE 45 45'30.0" 111 56'30.0" 10 DIRECTIONS TO SITE (Starting from nearest public road) Proceed south on Redwood Road to Indiana Avenue (800 South). Turn west on Indiana Avenue and drive for approximately 2 blocks. Site gate is on the north side of Indiana Avenue. **III. RESPONSIBLE PARTIES** 02 STREET (Business, mailing, residential) 01 OWNER (if known) 72 East 400 South Salt Lake City Corporation (Public Works) 05 ZIP CODE 06 TELEPHONE NUMBER 03 CITY 04 STATE 801-535-6131 · Farx Slt Lake City Utah 84111 07 OPERATOR (if known and different from owner) 11 - 6231 (Same as owner) 08 STREET (Business, mailing, residential) 09 CITY 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER 13 TYPE OF OWNERSHIP (Check one) C. STATE A. PRIVATE B. FEDERAL: D. COUNTY E. MUNICIPAL F. OTHER: G. UNKNOWN (Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) A. RCRA 3001 DATE RECEIVED A. RCRA 3001 DATE RECEIVED ___/_/ B. UNCONTROLLED WASTE SITE (CERCLA 103c) DATE RECEIVED ___/__/ C. NONE CHARACTERIZATION OF POTENTIAL HAZARD I۷ 01 ON SITE INSPECTION BY (Check all that apply) YES DATE 04/03/87 **B. EPA CONTRACTOR** Х A. EPA (Windshield Survey) NO X C. STATE D. OTHER CONTRACTOR E. LOCAL HEALTH OFFICIAL F. OTHER: (Specify) CONTRACTOR NAME(S): 02 SITE STATUS (check one) C. UNKNOWN X A. ACTIVE **B. INACTIVE 03 YEARS OF OPERATION** 1923 Present UNKNOWN **BEGINNING YEAR** ENDING YEAR **O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED** During a 1977 UDOT investigation, 12 out of 21 soil borings indicated that a petroleum like material was encountered. One also reported encountering chemical wastes of unknown character.

O5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION The site was used as Salt Lake City's primary landfill from 1923 until the mid-50's. No liner was emplaced before the site was used as a dump. No regulations were in effect during the site's use as a dump and dumping of hazardous materials on-site is likely. The petroleum-like materials encountered in the above mentioned study were found at the level of the water table. Ground water and surface water contamination are potential hazards (see drinking water contamination).

V PRIORITY ASSESSMENT	
01 PRIORITY FOR INSPECTIO	N (Check one, if high or medium is checked, complete Part 2
Waste Information and Par	t 3 - Description of Hazardous Conditions and Incidents)
A. HIGH	<u>X</u> B. MEDIUM
(inspection required prom	ptly) (inspection required)
C. LOW	D. NONE
(inspect on time available	e basis) (No further action needed, complete current
	disposition form)
VI INFORMATION AVAILABLE	FROM
01 CONTACT	02 OF (Agency, Organization) 03 TELEPHONE NUMBER
Michael C. Long	UBSHW Utah Dept. of Health 801-538-6170
04 PERSON RESPONSIBLE FOR	ASSESSMENT O5 AGENCY O6 ORGANIZATION O7 TELEPHONE NO.
Micahel C. Long	UBSHW Utah Dept. of Health 801-538-6170
08 DATE	
April 15, 1987	
EPA FORM 2070-12(7-81)	

POTENTIAL HAZAR	DOUS WASTE SITE	I. IDENTIFICATION
PRELIMINARY PART 2 - WASTE	ASSESSMENT INFORMATION	01 STATE 02 SITE NO. UTD980961502
IL. WASTE STATES, QUANTITIES, AND	CHARACTERISTICS	
O1 PHYSICAL STATES (Check all tha	t apply) 02 WASTE OUA	NTITY AT SITE
X A. SOLID E. SLURRY	(Measures	of waste quantities
B. POWDER, FINES X F. LIQUID	mus	t be independent)
C. SLUDGE <u>X</u> G. GAS	TON	IS
D. OTHER	CUBIC YARD	S <u>unknown</u>
(Specify)	NO. OF DRUM	IS
03 WASTE CHARACTERISTICS (Check a	11 that apply)	
X A. TOXIC E. SOLUBLE	I. HIGHLY VOLATILE	
B. CORROSIVE F. INFECTIOUS	J. EXPLOSIVE	
C. RADIOACTIVE G. FLAMMABLE	K. REACTIVE	
D. PERSISTENT <u>X</u> H. IGNITABLE	L. INCOMPATIBLE	
	M. NOT APPLICABLE	
III. WASTE TYPE		
CATEGORY SUBSTANCE NAME	01 GROSS AMOUNT 02 UNIT 0	F MEASURE 03 COMMENTS
SLU SLUDGE	<u>Unknown guantities of was</u>	te have been disposed of at
XOLW OILY WASTE	<u>this site. An investigat</u>	ion of the site was performed
SOL SOLVENTS	<u>by UDOT in July 1977 for</u>	construction of I-215. Their
PSD PESTICIDES	<u>drilling logs report land</u>	fill refuse encountered at
XOCC OTHER ORGANIC CHEMICALS	varying depths: 1 foot	to 28.8 feet. Of a total of
X10C INORGANIC CHEMICALS	21 soil borings, 12 repo	rted to contain a "petroleum
ALD ALIUS	<u>like product and I cont</u>	ained "chemical wastes".
DAS DASES	NO CHEMITCAT ANALYSES WER	e performed on these wastes.
TV HAZARDOUS SUBSTANCES (See Ann	endix formost frequently	cited CAS Numbers)
02 SUBSTANCE 03 CAS	04 STORAGE/ 05 CONCENTR	ATION 06 MEASURE OF
O1 CATEGORY NAME NUMBE	R DISPOSAL	CONCENTRATION
	METHOD	
Son above and Executive Summary	No records and available	on what was delivered to the
site and in what quantities.	No records are available	on what was derivered to the
·····		
	······································	
V. FEEDSTOCKS (See Appendix for C	AS Numbers)	
CATEGORY 01 FEEDSTOCK 02 CAS	CATEGORY	01 FEEDSTOCK 02 CAS
NAME NUMBE	<u>R</u>	NAME NUMBER
FDS	FDS	
	FDS	
TUS	<u>FUS</u>	state files comple
analysis reports) $-\mathcal{X}$	specific references, e.g.	, state (files, Sample
Bureau solid waste file: CFRCLA s	ite file: UDOT report of	July 1977: Preliminary
Investigations Disposition of Gar	bage Materials In Abandon	led Landfill.
EDA EODM 2070 12/7 01		
LTA FURM 20/0-12(1-01)		
UIU8Z		

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EPA POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICATION PRELIMINARY ASSESSMENT 01 STATE 02 SITE NO. PART 3 - SITE INFORMATION AND ASSESSMENT UTD980961502 **II. HAZARDOUS CONDITIONS AND INCIDENTS** O2 OBSERVED (DATE:) X POTENTIAL **O1 A. GROUNDWATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: 80,000** ALLEGED **O4 NARRATIVE DESCRIPTION** Hazardous materials possibly present on-site could leach into ground water. No liner was emplaced prior to opening the site as a city dump. The aquifer of concern is less than 15 feet below the surface. Drilling logs indicate that petroleum like wastes were encountered at the level of the water table.)X POTENTIAL 01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: O3 POPULATION POTENTIALLY AFFECTED: 0 ALLEGED **O4 NARRATIVE DESCRIPTION** On-site surface water could become contaminated by hazardous materials which may have been disposed of at the site during its use as a city dump. The City Drain bounds the site on the west (see Figure 1). No domestic uses of this water are known. Local fauna use it for drinking. 02 OBSERVED (DATE: **X POTENTIAL** ALLEGED **O1 C. CONTAMINATION OF AIR**) 03 POPULATION POTENTIALLY AFFECTED: <u>54</u> ω, ρημιαή, 04, NARRATIVE DESCRIPTION The potential for air contamination by volatile organics exists. This pathway is considered minor, however based on the UDOT study previously mentioned.) X POTENTIAL **01 D. FIRE/EXPLOSIVE CONDITIONS** 02 OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 5600 (population within 1 mile radius) ALLEGED Gas monitoring in the 1977 UDOT sutdy confirmed low level **O4 NARRATIVE DESCRIPTION** decomposition/fermentation activity in the on-site refuse deposits. Seven out of 43 gas probe locations consistently showed explosive gas concentrations greater than the Lower Explosive Limit. The potential hazards from explosive gas are minimal. Low levels of anaerobic biological activity indicate that very small quantities of explosive gas is being generated in the refuse deposits. **O1 E. DIRECT CONTACT** 02 OBSERVED (DATE: POTENTIAL ALLEGED **04 NARRATIVE DESCRIPTION** O3 POPULATION POTENTIALLY AFFECTED: 0 No potential for direct contact exists. O2 OBSERVED (DATE: POTENTIAL ALLEGED **O1 F. CONTAMINATION OF SOIL** 03 AREA POTENTIALLY AFFECTED: 70 acres **04 NARRATIVE DESCRIPTION** Disposal of hazardous materials could contaminate the soil. Whether or not such disposal has occurred is unknown, however, drilling logs indicate that petroleum and chemical wastes were encountered. The area effected is the surface area of the site. 01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE:_) X POTENTIAL O3 POPULATION POTENTIALLY AFFECTED: <u>80,000</u> (see item III.IV) ALLEGED There are a total of 67 drinking water wells within three **O4 NARRATIVE DESCRIPTION** miles of the site. Of these, six are municipal, five are high yield non-municipal, and 56 are private wells. The municipal wells and non-municipal wells are screened at varying depths - 149 feet - 600 feet. Private wells are screened from less than 100 feet up to more than 150 feet. **02 OBSERVED (DATE: O1 H. WORKER EXPOSURE/INJURY**)X POTENTIAL ALLEGED **04 NARRATIVE DESCRIPTION** O3 WORKERS POTENTIALLY AFFECTED: 3 Caving in of surface materials on-site where the ground has settled could be a problem. The number of workers affected is the number of city employees present on any given day at any given time. 01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE:) POTENTIAL ALLEGED **04 NARRATIVE DESCRIPTION** O3 POPULATION POTENTIALLY AFFECTED: 0 There is no record of exposure to hazardous materials or injury from hazardous materials.

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NO. UTD980961502

II HAZADDOUS CONDITIONS AND INCIDENTS (Continued)
11. HAZARDOUS CONDITIONS AND INCLUENTS (CONTINUED)
OF J. DAMAGE TO FLORA UZ UDSERVED (Date:) A PUTENTIAL ALLEGED
U4 WARRAILVE DESCRIPTION Hazardous materials possibly present at the site could
migrate via ground water. The water table is generally duite high in the area (0" -
30") fluctuating seasonally. Salt deposits on-site and in neighboring regions
indicates that surficial discharge of ground water has occurred in the past and is
therefore possible in the future. Migration of contaminants in the fashion described
could therefore damage native flora.
01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE:) X POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION Several on-site surface water sources could potentially be
contaminated with toxic/hazardous substances. Local fauna drinking from that water
could ingest of toxic/hazardous substances. The City Drain bounds the site on the west
and could carry contamination off-site thereby potentially endangering fauna off-site
as well.
01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE:) X POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION The seven municipal wells and the six non-municipal wells
are used to irrigate crops at several local farms in addition to their use as drinking
water wells
01 M UNSTABLE CONTAINMENT OF WASTES OF ORSERVED (Date:)X POTENTIAL
(Soils/numoff/standing liquids/looking drums)
(30115/101011/5) ALLEUED AL
US PUPULATION PUTENTIALLY AFFECTED: 00,000 04 WARRATIVE DESCRIPTION
the site was used as a city dump between 1923 and 1962. No liner was emplaced prior to
the property's use as a landfill. All wastes disposed of at the site were
uncontained. Burning of waste was common practice; nowever, any remaining, unburned
waste exists in an uncontained, unstable state. Some liquids were encountered in the
1977 study previously mentioned. Runoff does not appear to be a problem.
01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE:) PUTENTIAL ALLEGED
<u>04 NARRATIVE DESCRIPTION</u> No potential for damage to off-site property exists.
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE:)
04 NARRATIVE DESCRIPTION X POTENTIAL ALLEGED
There is a sewer line which crosses the site in a north-south direction. Leachate from
hazardous materials possibly present on-site could seep through cracks in that
pipe-line, thereby contaminating it, and the WWTP receiving the wastes carried by that
pipe-line.
01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE:) X POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION No unauthorized dumping is known of; however, the site
is not adequately fenced to prevent unauthorized dumping. There is a locked gate
across the access road, but the north end of the site is not fenced and potential
illegal/unauthorized dumping could occur.
OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS
In 1975, a UBSHW employee was inspecting the site. While walking on-site, the ground
gave way under has feet and he sunk 5 feet into the ground Caving in of surface
material in areas where settling has occurred could be a problem
TIT TOTAL DODINATION DOTENTIALLY AFFECTED. 80 0001
TV COMMENTS
This number is the nonulation cerved by the Granger-Hunter District nublic water supply
custer. Two of their wells are located within three miles of the site. These wells
are connected to the main system which serves 80 000
V SOUDCES OF INFORMATION (fits specific references a d state files
v. SUURUES OF INFORMATION (Gree specific references, e.g., state fries,
Sample analysis, repulsi Durany calid wasta fila, CEDCLA site file, MDAT report of July 1077, Draliminary
Dureau soriu waste rife, curcum site rife, obor report of July 1377. Freimindry
Investigations Disposition of Garbage Materials In Abandoned Landfill.
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Figure 3 - Site Sketch (Not to scale)

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EPA	POTENTIAL HAZARDOUS WAST	E SITE	I. IDENTIFICATION
	PRELIMINARY ASSESSMEN	T .	01 STATE 02 SITE NO.
	PART 1 - SITE INFORMATION AND	ASSESSMENT	UTD980961502
II. SITE NAME	AND LOCATION		· · · · · · · · · · · · · · · · · · ·
UT SILE NAME	(Logo, common or descriptive i	lame of site)	
02 STREET PO	DUTE NO OP SPECIEICATION LOCA	FION IDENTIFIED OR CITY	
2000 West Inc	tiana Avenue	Sal	t lake City
04 STATE	05 ZIP CODE 06 COUNTY	07 COUNTY CODE	08 CONG DIST.
Utah	84044 Salt Lake	004	UT-02
09 COORDINATE	S LATITUDE LONGITUDE		
	45 45'30.0" 111 56'30.	.0	
		·····	
10 DIRECTIONS	<pre>> TO SITE (Starting from neares</pre>	t public road)	
Proceed south	on Redwood Road to Indiana Av	enue (800 South). Turn	west on Indiana
Avenue and dr	ive for approximately 2 blocks	. Site gate is on the r	north side of Indiana
Avenue.			
TTT RESPONST	RIF PARTIES		
01 OWNER (if	known)	02 STREET (Business ma	iling residential)
Salt Lake Cit	v Corporation (Public Works)	72 East 400 South	
03 CITY	04 STATE	05 ZIP CODE 06 TELEPH	IONE NUMBER
<u>Slt Lake City</u>	Utah	84111 801-	-535-6131
07 OPERATOR (if known and different from ow	ner)	
······			
08 STREET (Bu	siness, mailing, residential)	09 CITY 10 STATE	. ·
11 7TD CODE 14			
IT ZIP COUE IA	2 IELEPHUNE NUMBER		
13 TYPE OF OW	NERSHIP (Check one)		
A. PRIVATE	E B. FEDERAL:	C. STATE	
D. COUNTY	X E. MUNICIPAL F. OTHER	or on the	G. UNKNOWN
		(Specify)	
14 OWNER/OPERA	ATOR NOTIFICATION ON FILE (Cher	k all that apply)	
A. RCRA 30)01 DATE RECEIVED//		
B. UNCONTR	OLLED WASTE SITE (CERCLA 103c)	DATE RECEIVED/	_/
<u>C. NONE</u>			
IV CHARACTERI	ZATION OF POTENTIAL HAZARD		
UI UN SILE INS	PELIIUN BY (UNECK all that app	HY) A EDA D EDA CONTRA	STOP.
A TES DATE		A. LPA B. LPA LUNIKA	
NU (Life	Δ	E LOCAL HEALTH OFFICE	NIKALIUR · ·
(W100	ushield survey/	E OTHER	
		(Specify)	
	CONTRACTOR NAME(S):	
02 SITE STATUS	(check one)		
<u> </u>	ACTIVE B. INACTIVE	C. UNKNOWN	
03 YEARS OF OP	ERATION 1923	<u>Present</u>	
	BEGINNING YEAR E	NDING YEAR UNKNOWN	
U4 DESCRIPTION	UF SUBSTANCES POSSIBLY PRESEN	I KNOWN OR ALLEGED	· · ·
Jiko matamial :	UUUI Investigation, 12 out of	21 SOTI DORINGS INdicate	d that a petroleum
Inknown charact	nas encouncereu. One diso rep ter	Silea encountering chemi	Cal Wastes OF
GINNIUMII CHAI du	VVI 1		