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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Clinton-Bailey

Site No. 915126

City of Buffalo

Erie County

Date: January 1986



Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste Norman H. Nosenchuck, P.E., Director

By:

ENGINEERING-SCIENCE In Association With

DAMES & MOORE

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

CLINTON-BAILEY

NYS SITE NUMBER 915126

CITY OF BUFFALO

ERIE COUNTY

NEW YORK STATE

Prepared For

DIVISION OF SOLID AND HAZARDOUS WASTE
NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD

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DATE OF SUBMITTAL: OCTOBER, 1985

CLINTON-BAILEY

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SECTION I

EXECUTIVE SUMMARY CLINTON-BAILEY

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the preliminary results of the Phase I investigation for the Clinton-Bailey site (NYS Number 915126, no EPA number given) located in the City of Buffalo, Erie County, New York State (see Figure I-1).

SITE BACKGROUND

The Clinton-Bailey site is an open, 11-acre lot, southwest of the intersection of Clinton Street and Bailey Avenue. The site is divided by ownership into 2 parcels; Sen-wel Industries owns the western parcel and Norfolk Southern Corporation owns the eastern parcel (see Figure I-2).

The site has been used as a repository for a large quantity of fill material and 25 to 30 drums, 10 of which contain scrap metal and the rest are empty. The site has been plagued by scavenger dumping in the past. Wastes disposed on-site include miscellaneous refuse and wastes from steel fabricating processes (i.e., slag and foundary sands). Soil and groundwater analyses indicated the presence of arsenic, iron, lead, and mercury in the two media. HNu measurements indicate the levels of volatile organics at the site to be below 1 ppm.

ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking Scoring system (HRS) was applied as currently being used by the New York State DEC to evaluate abandoned hazardous waste sites in New York State. This system takes into account the types of wastes at the site, receptors, and transport routes to apply a numerical ranking of the site. As stated in 40 CFR Subpart H Section 300.81, the HRS scoring system was developed to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

Under the HRS, three numerical scores are computed for each site, to express the relative risk or danger from the site, taking into account the population at risk, the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

- o S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_n = air route score).
- $S_{ extbf{FE}}$ reflects the potential for harm from substances that can explode or cause fires.
- o S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

$$S_{M} = 3.23$$
 $S_{A} = 0$
 $S_{GW} = 4.18$ $S_{FE} = 0$
 $S_{SW} = 3.72$ $S_{DC} = 62.5$

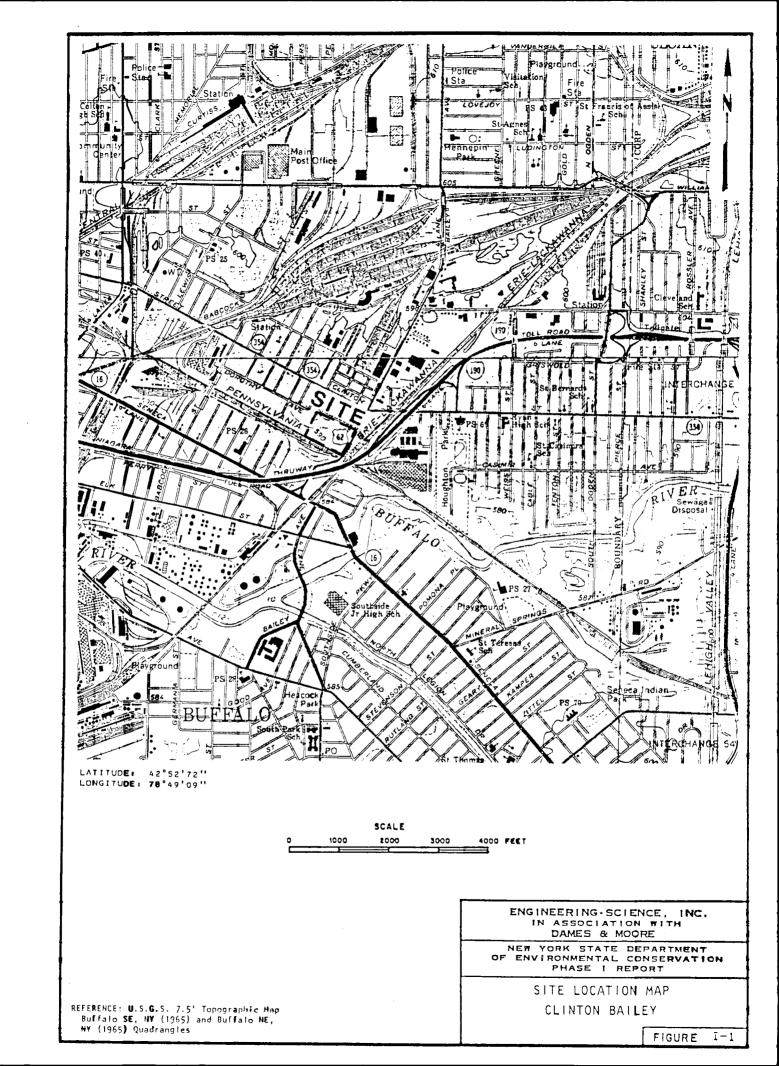
The groundwater score reflects the shallow water table in the sandy site soil. The waste types are highly toxic and persistent. The direct contact score indicates unrestricted access of the public to the waste materials.

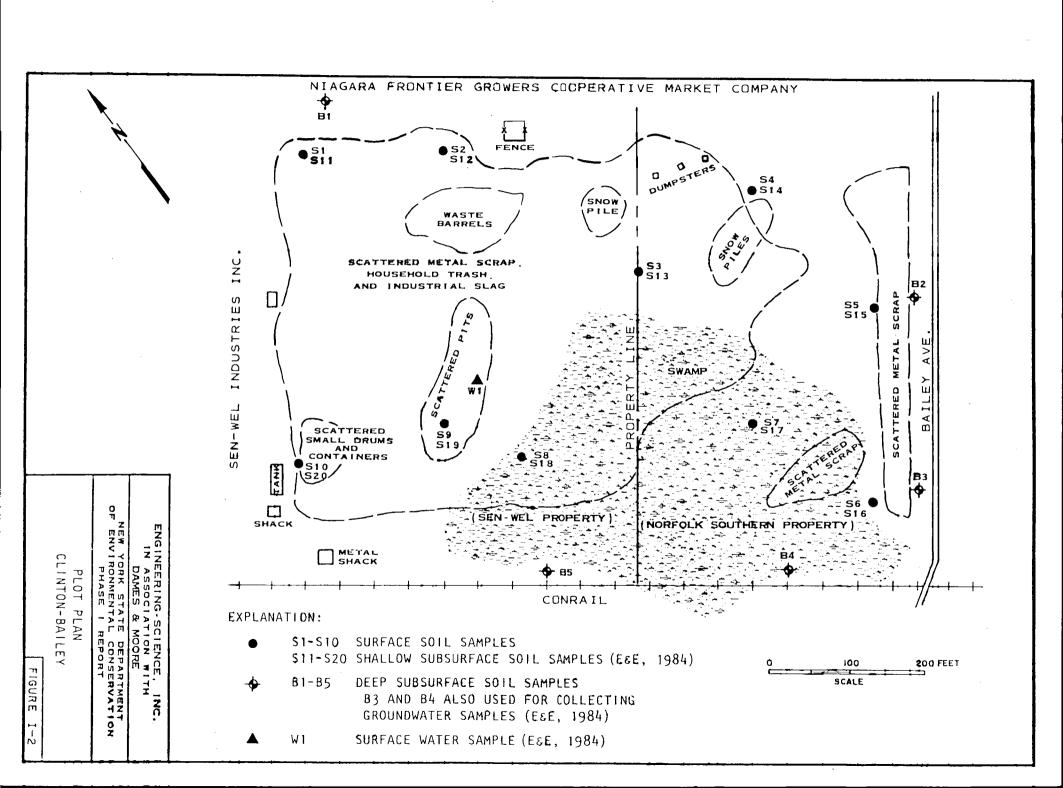
RECOMMENDATIONS

The following recommendations are made for the completion of Phase II:

- o Geophysical study consisting of electrical resistivity and magnetic surveys.
- o A groundwater monitoring system consisting of two upgradient and four downgradient monitoring wells.
- o A surface water and sediment monitoring system consisting of three monitoring stations.
- o Sample analyses to include priority pollutants.

The estimated man-hour requirement to complete Phase II 917, while the estimated cost is \$66,187.





DE C - 847-4585

DEC Repr**es**entative

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SECTION II

PURPOSE

The purpose of the Phase I investigation at the Clinton-Bailey site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, all available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on the presence of 25 to 30 drums and large amounts of fill material (foundry sands and construction debris) at the site. Based on this initial evaluation of the Clinton-Bailey site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.

SECTION III

SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review all available information necessary for the documentation and preparation of a Hazard Ranking System score and a Phase II work plan and cost estimate if required. The work activities performed included data collection and review, a site inspection, and interviews with knowledgeable individuals of past and present disposal activities at the site.

The sources contacted during this Phase I investigation included government agencies (federal, state and local), present site owners and operators, and any other individuals that may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of the list is to identify all persons, departments, and/or agencies contacted during the third round of the Phase I investigations even though useful information may not have been collected from each source contacted.

SECTION IV

SITE ASSESSMENT

SITE HISTORY

From the late 1800's to the 1920's the Clinton-Bailey site was used as a clay quarry and brickyard, and coal-fired kilns were present on-site. Filling activities are known to have taken place in 1927 (E&E, 1984). According to local hearsay, the site was used as a dump by the City of Buffalo during this time (Hayhurst, 1985). Between 1927 and 1956, scavenger dumping occurred on-site including the disposal of wastes from steel fabricating processes (i.e., slag, foundary sands) (E&E, 1984).

In 1956, the property was purchased by Erie Land and Improvement Company and in 1980, the property was divided between Sen-Wel Industries (western 5.5 acres) and the Norfolk Southern Corporation (eastern 5.5 acres). In 1983, the Niagara Frontier Transportation Authority (NFTA) retained a consultant to assess the environmental impact of past waste disposal practices at the site, since the site was under consideration for the construction of an NFTA bus garage (EGE, 1984). Based on the results of this study, NFTA decided not to obtain the property. The site is currently a vacant lot.

SITE TOPOGRAPHY

The Clinton-Bailey site is located in the southern part of the City of Buffalo, Erie County, New York State (see Figure IV-1). The ground surface is irregular due to past dumping practices, but originally was a low-lying swampy area.

The northern portion of this rectangular 11 acre site contains assorted types of hard fill as well as a small amount of decaying materials and occasional barrels above ground. The southern part of the site is largely swamp area, draining to the south and flowing into the Buffalo River, 0.2 miles south of the site.

To the north of the site is the Niagara Frontier Growers Cooperative Market Company, which provides open booths for farm produce marketing. To the east of the site is Bailey Avenue. To the south of the site is property owned by Sen-Wel Industries.

Local Sensitive Environments

There are no nearby freshwater wetlands designated as such by New York State or critical habitats for endangered species.

SITE HYDROLOGY

This summary of site hydrogeology is based on information from USGS topographic maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, LaSala (1968), and Ecology and Environment International (3/30/84).

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened pre-existing valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. The Erie County region is covered by lake sediments, the most recent being from Lake Warren (a larger predecessor to Lake Ontario and Lake Erie). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit ground water movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral ground water movement through otherwise low permeability materials.

Site Hydrogeology

Bedrock is expected to be Onondaga Limestone and to occur at depths varying from 20' to 30'. Several industrial wells of the Donna Hanna Coke Company withdrew groundwater from this unit, typically at a rate of 35,000 gpd until the firm ceased operations in 1983. The water was high in H₂S and other chemicals as follows:

Parameter	Quantity
Sulfate	104 ppm
Chloride	334 ppm
Ca/Mg Hardness	338 ppm
Specific Conductance	1,750 umhos
рН	7.2

Soil stratigraphy, as indicated on the E&E boring logs (1984) and on boring logs from other nearby Phase I sites is as follows:

<u>Unit</u>	Depth Range (ft)
Fill and/or sandy soil	0 - 10
Very soft red and grey silty clay	10 - 30
Top of bedrock	30

A perched aquifer is located within the fill/sandy soil unit, on top of the clay. Water table measurements show a level varying from 4.5' to 10' below ground surface. Flow direction is unknown. For HRS scoring, the permeability of the sandy soil has been assumed to be 10^{-3} cm/sec to 10^{-1} cm/sec.

SITE CONTAMINATION

Because dumping and fill operations occurred prior to accurate recordkeeping, the amount of material disposed at the site can not accurately be determined. A site investigation conducted by Ecology and Environment International (E&E) (3/30/84) indicated the presence of scattered drums and small containers, metal scrap, household trash, and industrial slag. Samples taken by E&E showed the presence of iron, lead, mercury, and arsenic in ground water and soil; and arsenic, iron, and lead in standing surface water. Figure IV-2 shows the location of ground water and soil samples. Table IV-1 presents analytical results for groundwater and surface water and Tables IV-2 and IV-3 present the results for surface and subsurface (2-foot depth) soil, respectively.

Soil samples were taken both at the surface and at a depth of 2 feet.

In addition to conducting environmental sampling, E&E also took samples from selected drums at the site. Only four samples (three composites and one grab) were taken and the results showed the presence of toluene, trichloroethane and/or cyanide in drum contents (E&E, 1985). These drums had been removed prior to the ES and D&M site inspection in March, 1985.

HNu meter readings were taken during the site inspection conducted by ES and D&M on March 18, 1985. All measurements were below 1 ppm.

TABLE IV-1

ANALYTICAL RESULTS FOR WATER SAMPLES AT CLINTON-BAILEY SITE

(All results in parts per billion)

	Sample Number				
P ar ameter	B-4	B-3	W1 (Surface Water)		
Total Halogenated Organics (as L in dane)	0.10	0.14	0.039		
Arsen ic	715	111	21.8		
Iron	41.3	168	887		
Lead	51.5	91.9	63.2		
Mercu ry	2.48	3.00	< 0.40		

SOURCE: Ecology and Environment, 1984.

< = None detected at the standard detection limits.</pre>

TABLE IV-2

RESULTS OF SURFACE SOIL SAMPLING AT CLINTON-BAILEY SITE

Sampl e Numbe r	Total Halogenated Organics (as Lin dane) (mg/k g)	Arsenic (mg/kg)	<pre>Iron (mg/kg)</pre>	Le ad (mg/kg)	Mercury (mg/kg)
S-1	0.31	7.21	10,300	495	0.568
S-2	1.04	9.32	28,600	495	0.338
S-3	0.19	0.89	9,120	427	0.435
S-4	0 .2 5	12.0	11,400	904	0.964
s-5	0.48	13.4	15,500	14,800	1.37
s-6	0.04	16.2	9,250	5 29	0.179
S-7	1.94	14.3	15,800	16,400	0.890
S-8	0.49	6.45	28,500	1,250	0.431
S-9	0 .36	9.64	26,300	11,700	2.58
S-10	0.07	7.21	40,400	11,900	0.120

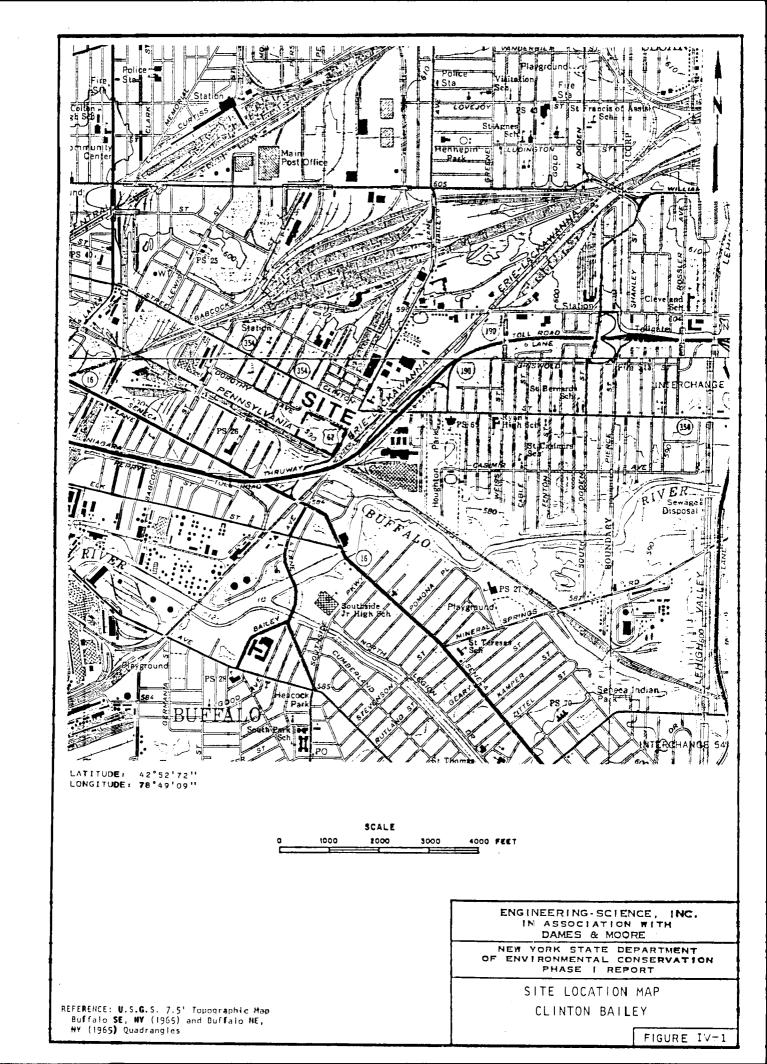
SOURCE: Ecology and Environment, 1984

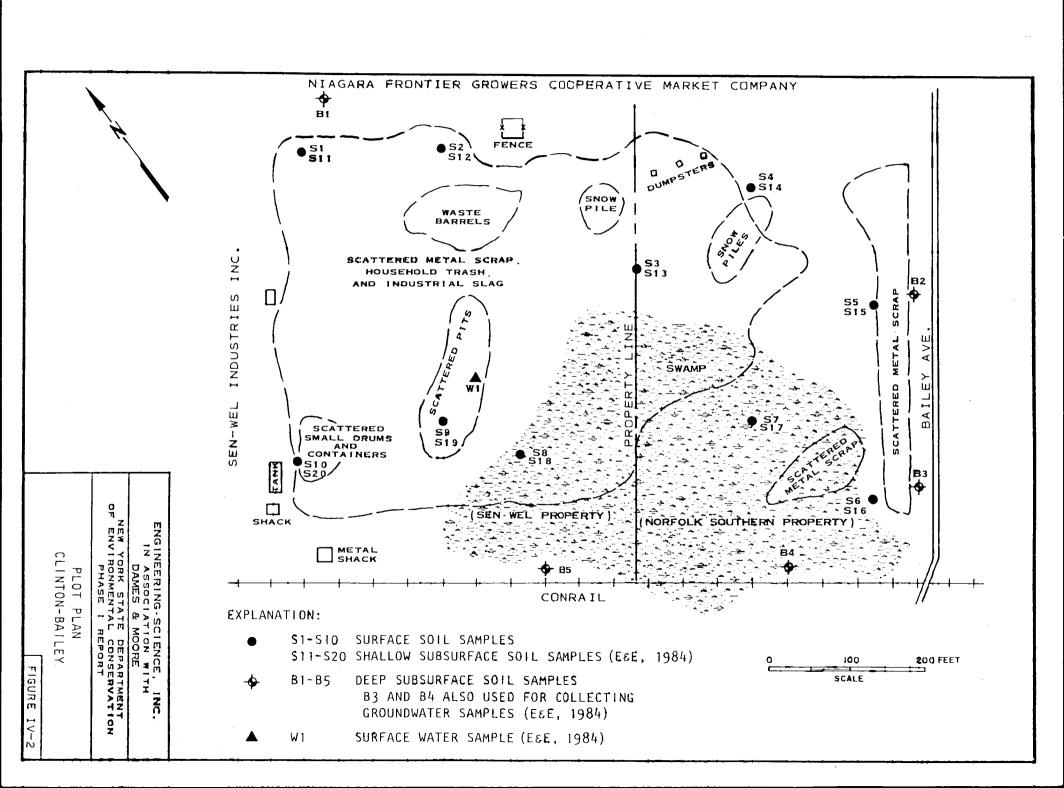
TABLE IV-3

RESULTS OF SUBSURFACE SOIL SAMPLING AT CLINTON-BAILEY SITE

Sampl e Numbe r	Total Halogenated Organics (as Lin dane) (mg/k g)	Arsenic (mg/kg)	<pre>Iron (mg/kg)</pre>	Lead (mg/kg)	Mercury
S-11	0.36	11.1	15,500	541	0.661
S-12	0.32	11.3	7,600	1,550	1.02
S-13	0.94	11.9	38,600	23,500	1.30
S-14	0.49	19.5	16,300	1,220	0.787
S-15	0.16	15.3	13,800	81 3	2.25
S-16	0.71	14.6	13,000	0.72	0.816
S-17	2.24	14.2	12,700	8.81	0.917
S-18	0.21	13.4	24,700	11.3	1.06
S-19	0.75	8.72	41,300	13.1	1.07
S-20	0.36	1.96	72,800	24.9	0.315
B-4-A	0.16	14.3	20,600	15 .1	<0.080
B-2	0.19	7.84	9,910	4.80	<0.080
B-5A	0.06	7.70	15,800	10.4	<0.080
B-3-A	0.26	15.4	19,400	136	<0.080
B-1	0.18	7.10	17,200	10.3	<0.080

SOURCE: Ecology and Environment, 1984





PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM

NARRATIVE SUMMARY

The 11-acre Clinton-Bailey site is located in Buffalo, Erie County, New York. The site is split into an eastern and western parcel, owned by Sen-Wel Industries and the Norfolk Southern Corporation, respectively. The site has been used as a clay quarry and brickyard, and filling activities (foundry sands, construction debris, etc.) are known to have taken place in 1927 (E&E, 1984). The site is currently a vacant lot.

Soil (surface and subsurface) and ground water samples taken in 1983 indicate the presence of arsenic, iron, lead, and mercury in those two media (E&E, 3/30/84). These sampling locations are shown in Figure I-2. HNu meter readings taken at the site were all less than 1 ppm. The sampling locations on-site are depicted in Figure V-2.

Standing water was observed on the site, which is located in a historically swampy area. A perched aquifer is located within the fill material and sandy soil, and water table measurements show levels ranging from 4.5' to 10' below ground surface. There are no nearby wetlands or critical habitats for endangered species.

To date, there are no known health problems associated with the site. No cleanup action has been taken, other than the removal of drums following E&E's 1984 report.



Facility Name: Clinton-Bailey

Location: Clinton St. and Bailey Ave, Buffalo, NY

EPA Region: II

Person(s) in charge of the facility:

Name of Reviewer: S. J. Tiffany Date: 4/10/85

General Description of the facility:

This 11-acre site was used as a dumping ground for rubble, slag, and cinder-like material. Additionally, 25 to 30 drums were disposed on-site. A 1984 study determined presence of heavy metals in the ground-water and soil.

Scores:
$$S_{M} = 3.23$$
 ($S_{gw} = 4.18$ $S_{sw} = 3.72$ $S_{a} = 0$)
 $S_{RE} = 0$

$$S_{DC} = 62.5$$

Facility Name: Clinton	- Baile	y	Date:_	4/10/	185		
Ground Water Route Work Sheet							
Rating Fact or	Assigne (Circl		Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0	45	1	0	45	3.1	
If obser ve d release is If obser ve d release is							
2 Route Characteristics						3.2	
Depth t o A q uifer of Concer n	0 1	2 ③	2	6	6		
Net Pre c ipitation Permeab i li t y of the	0 1 (2 3	1 1	2 3	3		
Unsatu r ated Zone Physical State	0 1	2 ③	1	3	3		
T o tal Route	Character	istics Sco	ore	14	15		
3 Containment	0 1	2 ③	1	3	3	3.3	
Waste Characteristics						3.4	
Toxicit y /Persistence Hazardo u s Waste Quanti t y	0 3 6 0 回 2	9 12 15 (1 3 4 5 6 7	3) 1 8 1	18	18		
Total Waste C	haracteri	stics Sco	re	19	26		
5 Targets						3.5	
Ground Water Use Distance to Nearest Well/Population Served	0 (1) 0 4 12 16 24 30	2 3 6 8 10 18 20 32 35 40	3	3	9 40	_	
Total Ta	rgets Sco	ore		3	49		
6 If line 1 is 45, mu 1f line 1 is 0, mult			5 4 × 5	2394	57,330		
7 Divide line 6 by 57	,330 and r	multiply b	y 100	S _{gw} =	4.18		

GROUND WATER ROUTE WORK SHEET

Facility Name: CLINTON-BAILEY	Date:	4/10/85
-------------------------------	-------	---------

Surface Water Route Work Sheet								
Rating Fa c tor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observ e d Release	0 45	1	0	45	4.1			
	If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.							
2 Route Characteristics					4.2			
Facility Slope and	0 1 2 3	1	3	3				
Intervening Terrain 1-yr. 24-hr. Rainfal Distance to Nearest	0 1 2 3	1 2	2	3 6				
Surf a ce Water Physi c al State	0 1 2 3	1	3	3				
T otal Route	Characteristics Sco	re	14	15				
3 Containment	0 r 2 ③	1	.3	3	4.3			
4 Waste Characteristics					4.4			
Toxicity/Persistence	0 3 6 9 12 15 (3 1	18	18				
Hazar d ous Waste Quan t ity	0 1 2 3 4 5 6 7	8 1	1	8				
T otal Waste	Characteristics Sco	re	19	26				
5 Targe ts					4.5			
Surf ac e Water Use Dist an ce to a Sensit	0 (1) 2 3 i ve (0) 1 2 3	3 2	3	9 6				
Environment Population Served/ Distance to Water Intake Downstream	① 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	_			
Total	Targets \$core		.3	55				
6 If line 1 is 45, mu			3394	64,350				
7 Divide line 6 by 64	4,350 and multiply	by 100	S = .	3.72				

Facility Name: CLINTON-BAILEY Date: 4/10/85 Air Route Work Sheet Assigned Value Multi-Max. Ref. Score Rating Factor (Circle One) plier Score (Section) 1 Observed Release 45 5.1 Date and Location: 3/18/85, upwind and downwind moter readings Sampling Protocol: HAV meter survey If line 1 is 0, the $S_a = 0$. Enter on line 5. If line $\begin{bmatrix} 1 \end{bmatrix}$ is 45, then proceed to line $\begin{bmatrix} 2 \end{bmatrix}$. 2 Waste Characteristics 5.2 0 1 2 3 3 Reacti**v**ity and Incom**p**at**i**bility Toxicity 0 1 2 3 0 1 2 3 4 5 6 7 8 Hazard**o**us Waste Total Waste Characteristics Score 20 3 Targets 5.3 Popula**t**ion Within 4-Mil**e** Radius 0 9 12 15 18 1 30 21 24 27 30 Distance to Sensitive 0 1 2 3 Envir**o**nment 0 1 2 3 1 3 Land Use Total Targets Score 39

AIR ROUTE WORK SHEET

35,100

s_a = 0

4 Multiply $1 \times 2 \times 3$

5 Divide line 4 by 35,100 and multiply by 100

Facility Name: Clinton - Builey Date: 4/10/85

Worksheet for Computing S_H

	S	s ²
Groundwater Route Score (S _{gw})	4.18	17.47
Surface Water Route Score (S _{sw})	3,72	13.84
Air Route Sc o re (S _a)	0.0 .	
$S_{gw}^{2} + S_{sw}^{2} + S_{a}^{2}$		31, 31
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		5.60
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		3.23

WORK SHEET FOR COMPUTING SM

Facility Name: CLINTON - BAILEY Date: 4/10/85

Fire and Explosion Work Sheet								
Rating Fac t or		ssign (Circ			Multi- plier	Score	Max. Score	Ref. (Section)
Containment	1		3	• "	1	0	3	7.1
2 Waste Characteristics		-						7.2
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 0 0 0	1 2 1 2 1 2 3	2 3	6 7	1 1 1 1 8 1		3 3 3 8	
Total Wast	e Cha	aract	eris	tics	Score		20	
3 Targets								7.3
Distan c e to Nearest	٥	1 2	2 . 3	4	5 1		5	
Popul a tion Distan c e t o Nearest	0	1 2	2 3		1		3	
Building Distance to Sensitive Environment	0	1 2	2 3		1		3	
Land U s e Popula t ion Within	0	1 2	2 3	4	1 5 1		3 5	
2-Mil e Ra dius Buildi n gs Within 2-Mil e Radius	0	1 2	2 3	4	5 1		5	
Total Targets Score 24								
4 Multiply 1 x 2 x 3 1,440								
Divide line 4 by 1,440 and multiply by 100 $S_{FE} = 60$								

FIRE AND EXPLOSION WORK SHEET

Facility Name: Clinton - Bailey	Date: 4/10/85
---------------------------------	---------------

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observ ed Incident	0 45	1	0	45	8.1
If line 1 is 45, pro If line 1 is 0, proc					
2 Accessi b ility	0 1 2 3	1	3	3	8.2
3 Containment	0 🕦	1	15		8.3
Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4
5 Targets					8.5
Population Within 1-Mile Radius	0 1 2 3 4 (5) 4	20	20	
Distance to a Critical Habitat	O 1 2 3	4	0	12	
Total Ta	rgets Score		20	32	
6 If line 1 is 45, multiply 1 x 4 x 5 3500 21,600					
7 Divide line 6 by 21,	S _{DC} =	62.5			

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY NAME: Clinton-Bailey

LOCATION: Corner of Clinton St. and Bailey Ave., Buffalo, Erie County,

New York

GROUNDWATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Mercury, lead, iron, arsenic, THO as lindane. Due to the groundwater monitoring methods used to collect this information and the absence of an upgradient well, the data will not be used in this HRS score.

(Ecology & Environment International Draft Report, 3/30/84)

Rationale for attributing the contaminants to the facility:

Analyses collected from on-site monitoring wells (E&E Draft Report, 3/30/84). However, there are no upgradient wells and therefore, an observed release can not be scored.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

- 1. Shallow aquifer, probably perched.
- 2. Bedrock aquifer in limestone.

(E&E boring logs, 4/84)

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

< 4.5' (E&E boring logs, 4/84).

Depth from the ground surface to the lowest point of waste disposal/storage:

Unknown.

Net Precipitation

U.S. Dept. of Commerce, National Climatic Center, 1979, (Climatic Atlas of the United States)

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual precipitation is 36".

Mean annual lake or seasonal evaporation (list months for seasonal):

Mean annual lake evaporation is 26-28"

Net precipitation (subtract the above figures):

$$8-10$$
" (36" - 28" = 8"; 36" - 26" = 10").

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Fill and/or sandy soil (E&E Boring Logs, 4/84).

Permeability associated with soil type

 10^{-3} to 10^{-1} cm/sec (Freeze, R.A., and J.A. Cherry, Groundwater, 1979).

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Metal scrap, household trash and industrial slag + solid.

Leaking drums containing toluene and trichloroethane - liquid.

(Ecology and Environment International, 3/30/84).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

No liner and no run-on control.

Method with highest socre:

Unlined landfill - 3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Toluene
1,1,1-trichloroethane
Cyanide
Lead
Arsenic
Mercury
THO as Lindane
(E&E Report, 3/30/84)

Compound with highest score:

Lead (toxicity 3, persistence 3) - 18 (Sax, N.J., 1979 5th Edition).

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown, large amount of fill spread over site (NYSDEC Registry Sheet, 12/83).

Basis of estimating and/or computing waste quantity:

Hazardous constituents are present in the soil and groundwater at the site; however, the quantity of waste disposed on-site is unknown (NYSDEC Registry /sheet, 12/83 and E&E Report, 1984). Therefore, for purposes of rating the site, 1 to 10 cubic yards of hazardous waste are assumed to be disposed on-site.

5. TARGETS

Ground Water Use

Uses(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Public water supply in use within 3 mile radius of site; no private drinking water wells (Violanti, 1985).

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Not applicable.

Distance to above well or building:

Not applicable.

Population Serviced by Groundwater Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

None within 3 miles (Violanti, 1985).

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

None (Violanti, 1985).

Total population served by ground water within a 3-mile radius:

None (Violanti, 1985).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Arsenic, lead, iron, mercury, THO (as lindane) were detected during the E&E Study (1984), however, no upgradient surface water station was sampled on-site to establish background concentrations of contaminants.

Rationale for attributing the contaminants to the facility:

The analysis was performed on a composite surface water sample collected from the standing water in the scattered pits on the site (E&E Report, 1984).

2. ROUTE CHARACTERISTICS

(USGS Topographic Map: Buffalo SE, NY Quadrangle, 1965)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0.0%

Name/description of nearest downslope surface water:

Buffalo River.

Average slope of terrain between facility and above-cited surface water body in percent:

0.0%

Is the facility located either totally or partially in surface water?

Yes, the southern portion of the site is a low lying marshy area with standing water observed in March of 1985.

Is the facility completely surrounded by areas of higher elevation?

1-Year 24-Hour Rainfall in Inches

2.1" (U.S. Department of Commerce National Climatic Center, 1979, Climatic Atlas of the United States).

Distance to Nearest Downslope Surface Water

Marsh adjacent to site leads to Buffalo River $0.2\ \mathrm{miles}$ downstream of site.

Physical State of Waste

Metal scrap, household trash, and industrial slag - solid. Liquid drums containing toluene and trichloroethane - liquid. (Ecology and Environment International, 3/30/84).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill not covered and no diversion system.

Method with highest score:

Landfill not covered and no diversion system.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Toluene
1,1,1-trichloroethane
Cyanide
Lead
Arsenic
Mercury
THO as Lindane
(E&E Report, 3/30/84)

Compound with highest score:

Lead (toxicity = 3, persistence = 3) -18 (Sax, N.I., 1979, 5th Edition)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown, large amount of fill spread over site (NYSDEC Registry Sheet, 12/83).

Basis of estimating and/or computing waste quantity:

Hazardous constituents are present in the soil and groundwater at the site; however, the quantity of waste disposed on-site is unknown (NYSDEC Registry Sheet, 12/83 and E&E Report, 1984). Therefore, for purposes of rating the site, 1 to 10 cubic yards of hazardous waste are assumed to be disposed on-site.

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Industrial and commercial shipping (Violanti, 1985).

Is there tidal influence?

No.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None within 2 miles (western NYS not a coastal area).

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None within 1 mile (Sneider and Wilkinson, 1985).

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None within 1 mile (Sneider and Wilkinson, 1985).

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

None within 3 miles (NYS Atlas of Community Water System Sources, 1982).

Computation of land area by above-cited intake(s) and conversion to population (1.5 people per acre):

Not applicable.

Total population served:

Not applicable.

Name/description of nearest of above water bodies:

Not applicable.

Distance to above-cited intakes, measured in stream miles:

Not applicable.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

None.

Date and location of detection of contaminants:

E**S**/D&M site visit 3/18/85.

Methods used to detect the contaminants:

HNU meter readings were taken and all readings were less than 1 ppm, indicating no air releases

Rationale for attributing the contaminants to the site:

Not applicable.

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No reactive compounds are known to be disposed on-site.

Most incompatible pair of compounds:

No incompatible compounds are known to be disposed on-site.

Toxicity

Most toxic compound:

Drums containing toluene and trichloroethane were previously found on-site. Total halogenated organics were detected in low concentrations in soil and water samples collected on-site. HNU meter readings did not detect volatile organics on-site (ES and D&M Site Inspection, 3/18/85). Therefore, no toxic compounds are documented to be on-site that could impact the air pathway.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Unknown. Hazardous constituents have been detected in the soil and groundwater at the site. The quantity of hazardous waste disposed on-site is unknown (NYSDEC Registry Sheet, 12/83).

Basis of estimating and/or computing waste quantity:

The hazardous constituents detected on-site in soil and water samples were not found to impact the air pathway as indicated by the HNU meter survey. Therefore, no hazardous wastes can be attributed to the site for the air pathway.

* * *

3. TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

(0 to 4 mi) 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

262,399 people (Compiled from 1980 US Census Data)

Distance to a Sensitive Environment

(USGS Topographic Map: Buffalo, NY-NE, Buffalo, NY-SE Quadrangles, 1965)

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None within 2 miles (western NYS not a coastal area).

Distance to 5-acre (minimum) fresh-water wetland, if ! mile or less:

None within 1 mile (Sneider and Wilkinson, 1985).

Distance to critical habitat of an endangered species, if 1 mile or less:

None within 1 mile (Sneider and Wilkinson, 1985).

Land Use

Distance to commerical/industrial area, if 1 mile or less:

Approximately 0.1 mile (ES and D&M Site Inspection, 3/18/85).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

None within 2 miles (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

Distance to residential area, if 2 miles or less:

Approximately 0.05 miles north of Clinton Street (ES and D&M Site Inspection, 3/18/85).

Distance to agricultural land in production within past 5 years, if 1 mile or less:

None within 1 mile (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

None within 2 miles (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within view of the site?

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No information was discovered during the Phase I study which indicates that a fire and explosion situation existed or presently exists at the site.

Type of containment, if applicable:

Not applicable, see above comment.

. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken on-site.

Ignitability

Compound used:

No ignitable compounds are known to exist on-site.

Reacti**vi**ty

Most reactive compound:

No reactive compounds are known to exist on-site.

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Hazardous waste constituents are present in the soil and groundwater at the site; however, the quantity of waste disposed on-site is unknown (NYSDEC Registry Sheet, 12/83 and E&E Report, 1984).

Basis of estimating and/or computing waste quantity:

Drums were sampled on-site by E&E during the 1984 study. Toluene and trichloroethane were found on-site. It is suspected that these drums were leaking as indicated by the results. However, the drums have been removed and there is no documentation which indicates that a potential threat of a fire and explosion hazard exists on-site.

* * *

3. TARGETS

Distance to Nearest Population

0.1 mile. Site is located in a commercial/industrial area (ES and D&M Site Inspection, 3/18/85).

Distance to Nearest Building

Approximately 200 feet from site (ES and D&M Site Inspection, 3/18/85).

Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile of the site (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

Distance to critical habitat:

None within 1 mile (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Approximately 0.1 mile (ES and D&M Site Inspection, 3/18/85).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

More than 2 miles (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

Distance to residential area, if 2 miles or less:

Approximately 0.05 mile north of Clinton Street (ES and D&M Site Inspection, 3/18/85).

Distance to agricultural and in production within past 5 years, if 1 mile or less:

More than 1 mile (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

More than 2 miles (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

No.

Population with 2-Mile Radius

69,083 people (US Census Data, 1980).

Buildings Within 2-Mile Radius

18,180 buildings (USGS Topographic Map: Buffalo NE and Buffalo SE Quadrangles, 1965).

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

There is no confirmed instance in which contact with hazardous substances at this site has caused injury, illness or death to humans or domestic or wild animals.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the facility (ES and D&M Site Inspection, 3/18/85).

* * *

3. CONTAINMENT

Type of containment, if applicable:

There is no cover system on-site to prevent the contaminanted soil from being accessible to direct contact (ES and D&M Site Inspection, 3/18./85).

* * *

4. WASTE CHARACTERISTICS

Toxicity

 ${\tt Compou$ **nds** $} \ {\tt evaluated:}$

Toluene, cyanide, arsenic, 1,1,1-trichloroethane, lead, and mercury.

Compound with highest score:

Heavy metals (toxicity = 3).

5. TARGETS

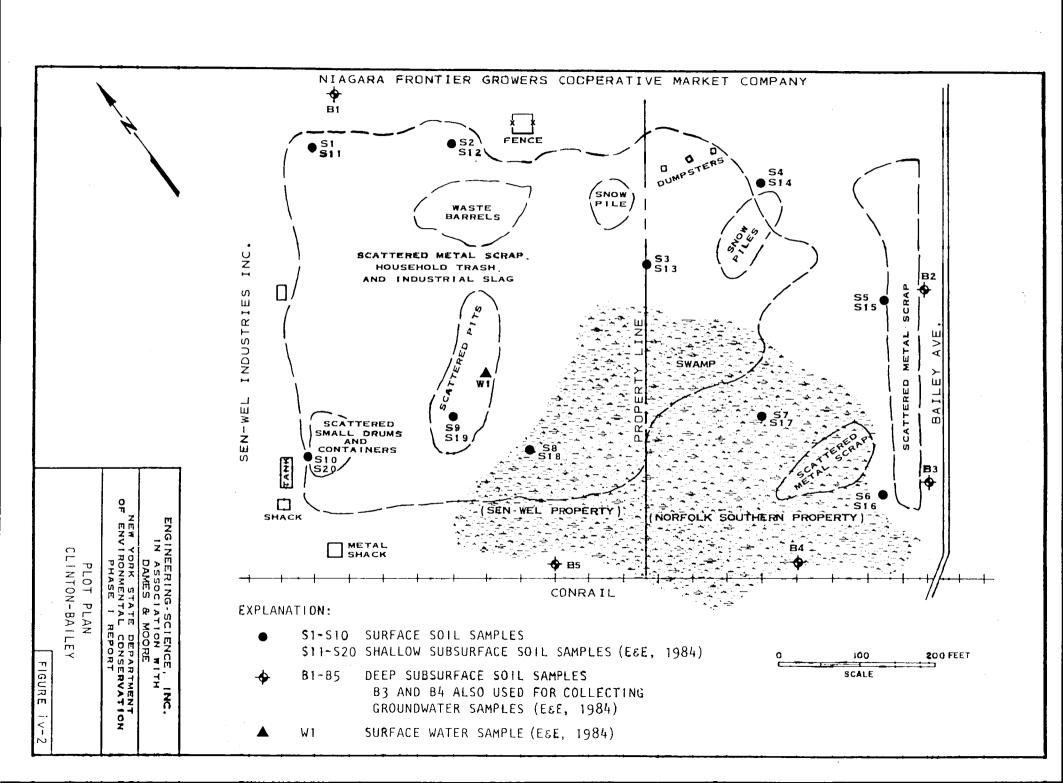
Population within one-mile radius

12,868 people (US Census Data, 1980).

Distance to critical habitat (of endangered species)

None within 1 mile (NYSDEC Region 9, Division of Fish and Wildlife, 1985).

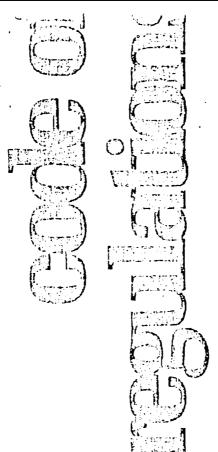


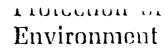


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REF-1



PARTS 190 to 399
Revised as of July 1, 1983

CONTAINING
A CODIFICATION OF DOCUMENTS
OF GENERAL APPLICABILITY
AND FUTURE EFFECT

AS OF JULY 1, 1983

With Ancillaries

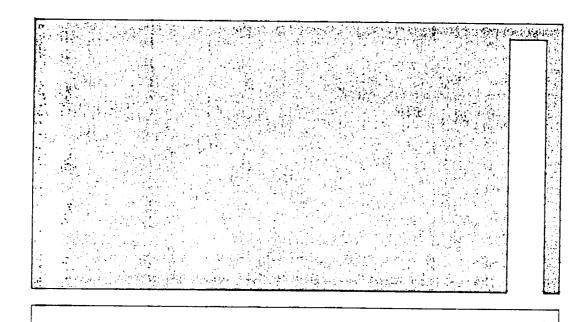
Published by the Office of the Federal Register National Archives and Records Service General Services Administration

as a Special Edition of the Federal Register



ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein.



R. Allan Freeze

Department of Geological Sciences University of British Columbia Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences University of Waterloo Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

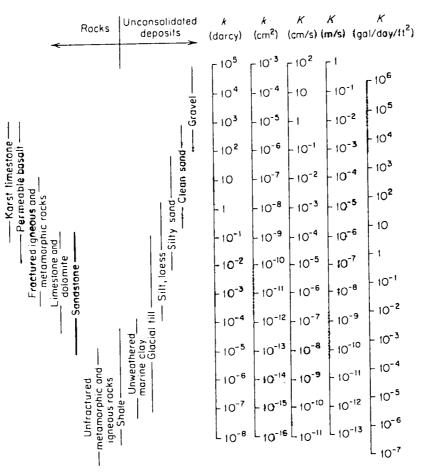


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

			,			
		Permeability, k*		Hydraulic conductivity, K		
	cm²	ft²	darcy	m/s	ft/s	gal/day/it²
cm ² ft ² darcy m/s	1 9.29 × 10 ² 9.87 × 10 ⁻⁹ 1.02 × 10 ⁻³	$ \begin{array}{c} 1.08 \times 10^{-3} \\ 1.06 \times 10^{-11} \\ 1.10 \times 10^{-6} \end{array} $	$ \begin{array}{c} 1.01 \times 10^{8} \\ 9.42 \times 10^{10} \\ \hline 1.04 \times 10^{5} \end{array} $	9.80 × 10 ² 9.11 × 10 ⁵ 9.66 × 10 ⁻⁶	3.22×10^{3} 2.99×10^{6} 3.17×10^{-5} 3.28	$ \begin{array}{c} 1.85 \times 10^9 \\ 1.71 \times 10^{12} \\ 1.82 \times 10^1 \\ 2.12 \times 10^6 \end{array} $
fi/s fi/s gal/day/ft ²	$3.11 \times 10^{-4} \\ 5.42 \times 10^{-10}$	3.35×10^{-7} 5.83×10^{-13}	3.15×10^4 5.49×10^{-2}	3.05×10^{-1} 4.72×10^{-7}	1 1.74 × 10 ⁻⁶	5.74 × 10 ⁵

^{*}To obtain k in ft², multiply k in cm² by 1.08 \times 10⁻³.

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GROUND-WATER RESOURCES OF THE ERIE-NIAGARA BASIN, NEW YORK



Prepared for the Erie-Niagara Basin Regional Water Resources
Planning Board

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

STATE OF NEW YORK
CONSERVATION DEPARTMENT
WATER RESOURCES COMMISSION

Basin Planning Report ENB-3
1968

Yields of wells

The Camillus Shale is by far the most productive bedrock aquifer in the area. Except in the vicinity of Buffalo and Tonawanda, where industrial wells produce from 300 to 1,200 gpm, no attempt has been made to obtain large supplies from the formation. However, the inflow of water to gypsum mines near Clarence Center and Akron indicate that large supplies are not necessarily restricted to the Buffalo and the Tonawanda area. Two examples of large flows of water encountered in gypsum mining have already been mentioned. Pumpage from gypsum mines near Clarence Center (including the mine mentioned previously) is substantial. The water pumped is discharged to Got Creek. On July 2, 1963, the creek had a flow of 2.1 mgd (million galions per day) about half a mile downstream from the mines, that was due almost entirely to the pumpage. Water for industrial use is pumped from a flooded, abandoned gypsum mine at Akron. This pumpage, at a rate of 500 to 700 gpm, has had no appreciable effect on the water level in the mine.

Probably the larger solution openings are most common in discharge areas near Tonawanda Creek and its tributaries and near the Niagara River; the flow of ground water becomes concentrated as it approaches the streams to which it discharges. Other discharge areas, such as low-lying swampy areas and headwaters of small streams that have perennial flow, are likely places to drill wells.

LIMESTONE UNIT

Bedding and lithology

The term "limestone unit" in this report is applied to a sequence of —limestone and dolomite overlying the Camillus Shale. The limestone unit includes the Bertie Limestone at the base, the Akron Dolomite, and the Onondaga Limestone at the top. The lithology and thickness of these units are shown in figure 7. The Bertie Limestone and the Akron Dolomite are Silurian in age and are separated from the overlying Onondaga Limestone of Devonian age by an unconformity or erosional contact.

The Bertie Limestone is mainly dolomite and dolomitic limestone but contains interbedded shale particularly in the thin-bedded lower part of the formation. The middle part is brown, massive dolomite, and the upper part is gray dolomite and shale whose beds are of variable thickness. The total thickness of the formation is about 55 feet (Buehler and Tesmer, 1963, p. 30-31).

The Akron Dolomite is composed of greenish-gray and buff dolomite beds varying from a few inches to about a foot in thickness. The upper contact of the Akron is erosional and is often marked by remnants of shallow stream channels. Thin lenses of sandy sediments lie in the bottoms of some channels. The thickness of the formation is generally between 7 and 9 feet (Buehler and Tesmer, 1963, p. 33-34).

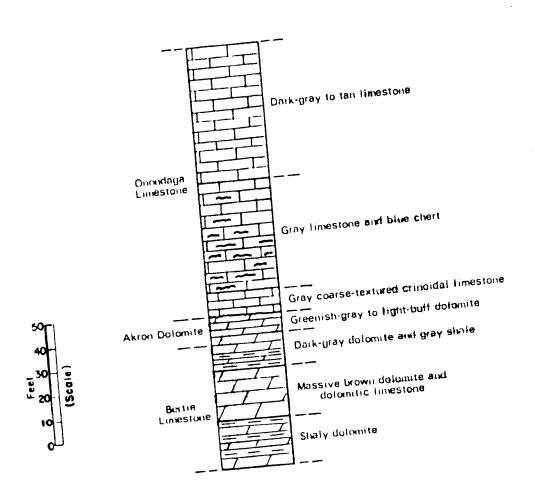


Figure 7.--Lithology of the limestone unit.

The Onondaga Limestone, about 110 feet thick, makes up the greatest thickness of the limestone unit. The formation consists of three members. The lowest member is a gray coarse-grained limestone, generally only a few feet thick. At places this member grades laterally into reef deposits which increases its thickness (Buehler and Tesmer, 1963, p. 35-36).

The middle member of the Onondaga is a cherty limestone. In some zones the chert exceeds the amount of limestone. The unit is probably

The upper unit is a dark-gray to tan limestone of varying texture 40-45 feet thick. and is probably about 50-60 feet thick.

Water-bearing openings

The limestone unit contains water-bearing openings that are similar to those of the Lockport Dolomite. Because the limestone unit is more soluble, however, solution widening of the openings appears to be more

bunced. The types of water-bearing joints in the limestone can be at the falls of Murder Creek at Akron. Not all of the flow of the Creek plunges over the falls. A considerable part of the flow plates into the limestone unit upstream from the falls and discharges medding joints both at the face and along the sides of the falls. principal zones of discharge are at the base of the Bertie, and at a act of a shaly zone and overlying thick-bedded dolomite 20 feet above base.

The falls at Akron also illustrate in an exaggerated way the role of cal joints. Water from Murder Creek percolates into the rock through ion-widened vertical joints before reaching the bedding-plane joints. Intinuous and concentrated flow of water in the creek has widened irtical joints to an unusual degree. Vertical joints are ordinarily arrow. They probably are most effective in aiding the movement of to the bedding joints where the bedding joints are close to the inface.

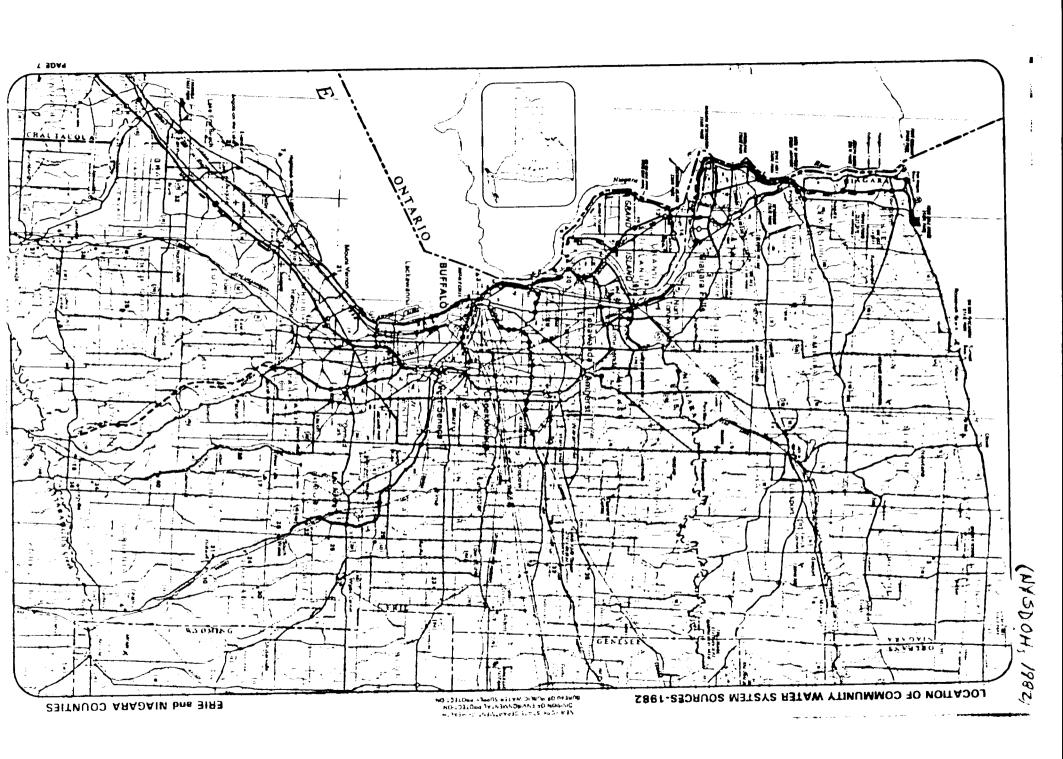
cally, solution along bedding joints in the limestone unit has been nough to cause the rock overlying the solution opening to settle. 3 of this type probably accounts for at least some of the small ons in the outcrop belt of the Onondaga Limestone. A collapsed zone in the Onondaga Limestone discharges a large volume of water warry (257-840-A) near Harris Hill. About 3,000 gpm is pumped quarry, and most of the water is reported to come from the zone.

limestone unit is cut by a fault on the east side of Batavia. Iting limestone are likely to cause shattering along the fault create a permeable water-bearing zone.

and hydraulic characteristics

mestone unit is similar to the Lockport Dolomite in structure. s hydrology is different. The limestone unit is cut transfonawanda Creek and its major tributaries. Small tributaries it in northerly and westerly directions. The limestone unit er in the interstream areas by percolation into joints. The tharged laterally to the streams and at places along the scarp or enters the Camillus Shale at depth.

ficient of transmissibility of the limestone unit probably bout 300 to 25,000 gpd per foot. Specific capacity data are 3. Drillers' reports indicate high transmissibilities for unit in Williamsville which probably arise from relatively ation of ground water near Ellicott Creek. The coefficients lility given in table 3 were computed from specific capacity thod described by Walton (1962, p. 12-13).



ERIE COUNTY

•	COMMUNITY WATER SYSTEM	POPULATION	EBURCE
M	wal Community		
	Airon Village (See No 1 Myon	ing Co,	
	Pege 10)		
1	Alden Village	3460	. Melia
2	Ango:a V:11498		. Lake Erie
3	Buffalo City Division of Met	er. 357870	Lake Erie
	Laffee Water Company	210	MO ITS
•	Cottins Water District #3		, ,Wells
6	Collins Water Districts #1		, ,Wells
7	frie County Water Authority		
	[Sturgeon Point Intake], .	175000	, ,Lake Erio
8	Erie County Water Authority		
	(van Dewater Intake),	NA	, Niagare River - East Branch , Niagara River
9	Grand Island Water District	#2 9390	, "Niegara River
10	MOI ENG WELET DIELFIEL	1670	, , MAGE 1 (1)S
- 1	LAWLOOS MALEY COMPANY	138	, Net 11 &
	The second secon		Misosca River - Est Brenco
11			
	Banara Intia Esty (Buscara	Co)	, Niegara River - West Branch
15	boren foiling Village	1500.	100 1 115
·é	some Incompanie Lity (Mines)	m (a)	Biggers River - West Branch
٠,	tirchard Park Village	1671	Pipe Creek Reservoir
16	for any other Village	9714	. Up I (1
16	Tage and City	18518	Niegare River - East Brench
	Ionewands Weter District #1.	01260	BIRGATA RIVOT
20	wanses water Company	10750	take tris
<i>/</i> '	by martin company:		
Ree (Sumpel Community		
22	Aurora Mobile Park,	125.	, Marii E
23	Built Cardens Mobile Home Pal	rk	, , WG 1 B
26	Circle & Tracier Court		, Wells
25	Circle Court Mobile Park	125.	, , MO 118
26	Creeksing Mobile Moon Park.	120.	, , We I I &
27	Tourne Liv's Mahile Home Court	t	, .WP116
20	(divance State Mospital	NA.	. Ciesr Lake
25	militardo istatos	160	. Wells
30	Managers Creek Mobile Nome P	ark, 150.	, walla
31	Acco. Accessors	NA.	
32	Manie Crove Trailer Court.	12.	Wells
13	M. Horove Mobile Park	, , , , 100.	100 15
14	ferning trailer Park		, .Me118
35	Querry Hill (states	400	, ,¥e114
36	Springville Robile Perk.	116	, Wella
30	Springwood Mobile Villege.	132	, . Wells
	laylors Grove Trailer Park.	39.	, pelis
	Valley View Mobile Court	42	. Me 114
	Williams Apartments	NA.	. Wells

NIAGARA COUNTY

٠	NO COMMUNITY WATER SYSTEM	PEPULATION	SHOWER
	lucisipal Community		
1	Lockport City (See No 12, I Middleport Village, , , Niagara County Water Distr		_Wells (Springs)
2	(See No 13, Erie Co) ! Miegere fells City (See et Erie Co)	so No 14	,Niegare River - East Branct
	Borth Tonswands City (See Erie Co)	No 16	
	on Municipal Community		
3	Country Estates Mobile Vil	tage28	, We I I's

(47-15-11 (10/93)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REX-6

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2A	SITE CODE:	NEW SITE	= 915126
NAME OF SITE: CLINITY - BITIE.	Ē y	REGION:	67
STREET ADDRESS: CLINTON 57 NOD	BAILEY ALE	-	
TOWN/CITY: BUIFFILO	COUNTY: EALE	:	
NAME OF CURRENT OWNER OF SITE:	MELL INDUSTRIC	ES AND NOTED	LK +SOUPHE
ADDRESS OF CURRENT OWNER OF SITE: 1396	CUNTON ST	TtillE	MAR BOX 6119
TYPE OF SITE: OPEN DUMP	STRUCTURE TREATMENT	LAGOON _	
ESTIMATED SIZE: /// ACRES		• - •	
SITE DESCRIPTION: A VACANT LOT FRONTING GA FRONTIER GROWERS CONFERMING PLONERTY ON THE SOUTH. DISTOSAL OF OPLIANS CONTAIN NOTED IN MARCH 1989. PRELIMINARY INVESTIGATION OF THE SITE. INVESTIGATION OF LEAD AND MERCHINY IN FROM TEST WELLS ON SITE COLLETS LEAD ABOUTE STATE GROWNER	E ON THE NO -ING UNICOS. ON PEVENCES - THE SOILS O COTAINED LE	BY POTENTIAL OF ARE	PIPET EVELS WINDMAPEK MEXICLE
HAZARDOUS WASTE DISPOSED: CONFIRMED TYPE AND QUANTITY OF HAZARDOUS WASTES D TYPE FILL MARRIAGE CON SOITE COMMINGS HEALT METRICS	DISPOSED:	PECTED POUNDS, DIANTITY TONS, GAI	RUMS LLONS)
		PAGE 349	

(NYSDEC, 1983)

IME PERIOU SITE WAS USED FOR HAZARD	TO without, 19
	nenous
ITE OPERATOR DURING PERIOD OF USE:	unichouse
DDRESS OF SITE OPERATOR:	
· · · · · · · · · · · · · · · · · · ·	SURFACE WATER GROUNDWATER SEDIMENT NONE MONE
	DRINKING WATER AIR AIR
OIL TYPE:	
EGAL ACTION: TYPE: Nove	
•	UNDER DESIGN
CHEDIAL ACTION. FROFOSED 1 1	
IN PROGRESS	COMPLETED
IN PROGRESS NATURE OF ACTION: NOWE NOWE NOWE NOW E N	S: ON SITE CONTAMINATED WITH HE
IN PROGRESS IN NATURE OF ACTION: NOW ENVIRONMENTAL PROBLEMS SOILS AND GROWN WATER METALS. FURTHER INVESTI FULL EXTENT OF CONTINUES.	S:
IN PROGRESS IN NATURE OF ACTION: NOWE ASSESSMENT OF ENVIRONMENTAL PROBLEMS SOILS AND GRUNDWATER METALS. FURTHER INVESTOR FULL EXTENT OF CONTINUES OFF SITE,	S: ON SITE CONTAMINATED WITH HER CONTON REQUIRED TO DETERMINE
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IN PROGRESS NATURE OF ACTION: NOWE SSESSMENT OF ENVIRONMENTAL PROBLEMS SOILS AND GROWNINGTER METTALS. FIRTHER INVESTOR FRICE EXTENT OF CONTINUES. SSESSMENT OF HEALTH PROBLEMS: PERSON(S) COMPLETING THIS FORM:	ON SITE CONTAMINATED WITH HER CATION REQUIRED TO DETERMINE YTON ON SITE AS WELL AS MICHAI
IN PROGRESS NATURE OF ACTION: NATURE OF ACTION: SSESSMENT OF ENVIRONMENTAL PROBLEMS SOICS AND GRANDWARE METTLS. FURTHER INVESTI FULL EXTENT OF CONTINUES. SSESSMENT OF HEALTH PROBLEMS: PERSON(S) COMPLETING THIS FORM: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	S: ON SITE CONTINUATED WITH HER POSITION REQUIRED TO DETERMINE YOUND ON SITE AS MECK AS MICHAEL INSUFFICIENT INFORMATION NEW YORK STATE DEPARTMENT OF HEALTH
IN PROGRESS NATURE OF ACTION: NATURE OF ACTION: SSESSMENT OF ENVIRONMENTAL PROBLEMS SOICS AND GROWNINGTER METTALS. FURTHER INVEST FILL ENTENT OF CONTINUES. SSESSMENT OF HEALTH PROBLEMS: PERSON(S) COMPLETING THIS FORM: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NAME JOHN W. HUGGO	S: ON SITE CONTAMINATED WITH HER PENTURU REQUIRED TO DETERMINE YOUND ON SITE AS MELL ITS MICHAN INSUFFICIENT INFORMATION NEW YORK STATE DEPARTMENT OF HEALTH NAME
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IN PROGRESS NATURE OF ACTION: NOWE ASSESSMENT OF ENVIRONMENTAL PROBLEMS SOILS AND GROWNINGTER METTALS. FIRTHER INVESTA FRICE EXTENT OF CONTINUES OFF SITE, ASSESSMENT OF HEALTH PROBLEMS:	S: ON SITE CONTINUATED WITH HER POSITION REQUIRED TO DETERMINE YOUND ON SITE AS WELL AS MICHAEL INSUFFICIENT INFORMATION NEW YORK STATE DEPARTMENT OF HEALTH NAME TITLE

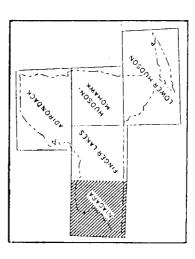
GEOLOGIC MAP OF NEW YORK

1970

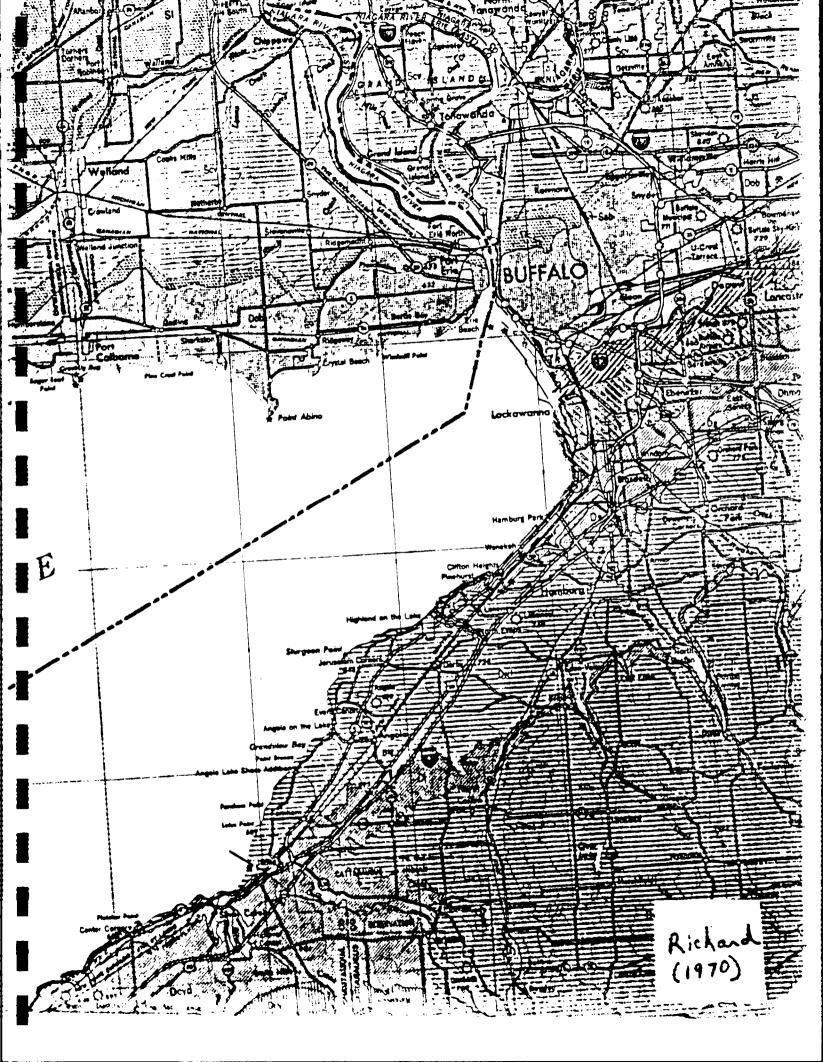
Niagara Sheet

	15 Statute Miles 20	25 Kilometers 30
		20
Scale 1:250,000	10	15
Scale 1:	5	10
		5
	0	0
	5	5

CONTOUR INTERVAL 100 FEET



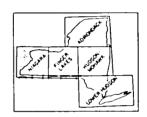
COMPILED AND EDITED BY Lawrence V. Rickard Donald W. Fisher March, 1970



QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET

by Ernest H. Muller

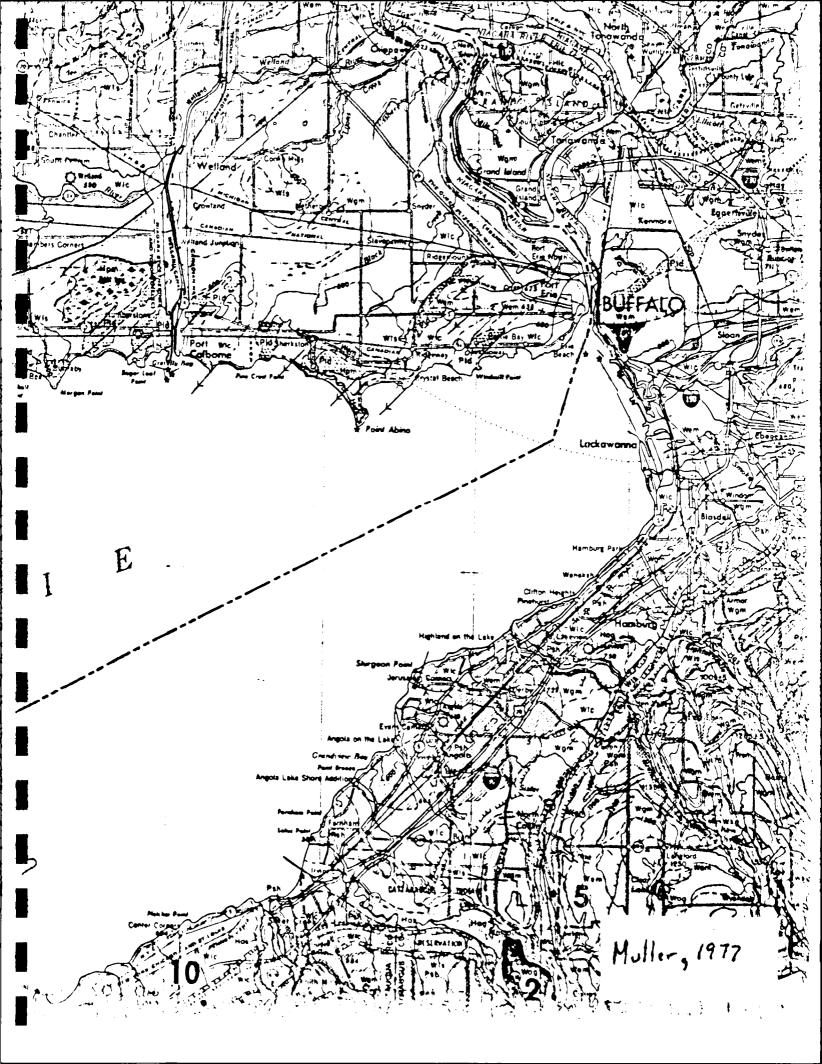
Muller, Ernest H. (1977)
New York State Museum and Science Service
Map and Chart Series Number 28



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Dangerous Properties of noustrial Waterials

Fifth Edition

N. IRVING SAX

Assisted by:

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Edward G. Fitzgerald/Joseph J. Fitzgerald/Barbara J. Goldsmith/John H. Harley/
Robert Herrick/Richard J. Lewis/James R. Mahoney/John F. Schmutz/
E. June Thompson/Elizabeth K. Weisburger/David Gordon Wilson

Lead (con't)

,	
TOXICITY DATA: 3	CODEN:
	AEHLAU 23,102,71
ori-rat TDLo: 1140 mg/kg (14D pre-	PHMCAA 20.201.78
art-mi 1020 it to the may be to the	20,20,710
21D post) of-mus TDLo:1120 mg/kg (MGN)	AEHLAU 23,102,71
of thus IDEO. 120 mg as (11011)	
ort-mus TDLo:6300 mg/kg (1-21D	EXPEAM 31,1312,75
preg/ ml-mus TDLo: 12600 mg/kg (1-21D	EXPEAM 31,1312,75
orl-mus TDLo:4800 mg/kg {1-16D	BECTA6 18,271,77
	220110 10,211,1
preg) ivo-ham TDLo:50 mg/kg/(8D)	EXPEAM 25.56.69
ive-ham TDLO-30 mg/ kg/(ab	EAFEAM 23,30,09
preg):TER	****
orldom TDLo:662 mg/kg (1-21W	TXAPA9 25,466,73
preg)	
me-ham TDLo:50 mg/kg/(8D	EXPEAM 25,56,69
preg):TER	
ori-wmn TDLo:450 mg/kg/6Y:CNS	JAMAAP 237,2627,77
int-rat LDLo: 1000 mg/kg	EQSSDX 1,1,75
DE-INI LIDEO 1990 IND AN	• • •
orl-pgn LDLo: 160 mg/kg	HBAMAK 4,1289,35

Carcinogenic Determination: Indefinite IARC 23, 325,80.

TLV: AIR: 0.15 mg/m3 DTLVS* 4,243,80; Toxicology Review: TRBMAV 33(1),85,75; **PGMJAO** 51(601),783,75; JDSCAE 58(12),1767,75; IRXPAT 12,1,73; CTPHBG 55,147,71; CTOXAO 6(3),377,73; QURBAW 7(1),75,74; RREVAH 54,55,75; JAVMA4 164(3),277**,7**4; **AEMB**AP 40,239,73; CTOXAO 5(2),151,7**2**; FOREAE 7,313,42; KOTTAM 11(11),1300,75; GEIGAI 20(3),291,73; STEVA8 2(4),341,74; CLCHAU 19,361,73; AJMEAZ 38,409,65; 85DHAX PB,254,72; PDTNBH 6,204,77; AMTODM 3,209,77. OSHA Standard: Air: TWA 200 ug/m3 (SCP-O) FEREAC 39,23540,74. Occupational Exposure to Inorganic Lead recm std: Air: TWA 0.10 mg(Pb)/m3 NTIS**. "NIOSH Manual of Analytical Methods" VOL 1 102,191,195,200,208,214,262, VOL 3 S341. Reported in EPA TSCA Inventory, 1980.

THR: See lead compounds. A hmn CNS. HIGH orl; MOD irr. A common air contaminant. It is a ± CAR of the lungs and kidney and an exper TER.

Fire Hazard: Mod, in the form of dust when exposed to heat or flame. See also powdered metals.

Explosion Hazard: Mod, in the form of dust when exposed to heat or flame.

Incomp: NH₄NO₃, CIF₃, H₂O₃, NaN₅, Na₂C₂, Zr. disodium acetylide; oxidants.

Disaster Hazard: Dangerous; when heated, emits highly tox fumes; can react vigorously with oxidizing materials.

For further information see Vol. 1, No. 1 of DPIM Report.

LEAD ACETATE

CAS RN: 301042 NIOSH #: A1 5250000 mf: C₄H₆O₄·Pb; mw: 325.29

Trihydrate, colorless crystals or white granules or powder. Slightly acetic odor; slowly effloresces; d: 2.55; mp: 75° when rapidly heated. Decomp above 200°; very sol in glycerol. Keep well closed.

SYNS:

ACETIC ACID LEAD (2+) SALT	LEAD DIBASIC ACETATE
ACETATE DE PLOMB (FRENCH)	NORMAL LEAD ACETATE
BLEIACETAT (GERMAN)	PLUMBOUS ACETATE
LEAD (2+) ACETATE	SALT OF SATURN
LEAD(II) ACETATE	SUGAR OF LEAD
LEAD DIACETATE	

TOXICITY DATA: 3	CODEN:
dns-rat-ipr 50 ug/kg	PSEBAA 143,446,73
spm-mus-par 1 gm/kg	ARTODN 46,159,80
orl-nat TDLo: 7854 mg/kg (6-16D	FCTXAV 13,629,75
preg)	
orl-rat TDLo: 1800 mg/kg (1-22D	TOLED5 7,373,80
preg/14D post)	,
orl-rat TDLo: 113 gm/kg (70D pre-	PBBHAU 8,347,78
21D post)	·
orl-mus TDLo:3150 mg/kg (1-21D	CRSBAW 170,1319,76
preg)	-
orl-mus TDLo: 4800 mg/kg (1-8D	CRSBAW 172,1037,78
preg)	
orl-mus TDLo:9 gm/kg (7-21D preg)	CRSBAW 170,1319,76
ipr-mus TDLo: 35 mg/kg (8D preg)	BIMDB3 30,223,79
ivn-ham TDLo:50 mg/kg/(8D	EXMPA6 7,208,67
preg):TER	
ivn-ham TDLo:50 mg/kg (8D preg)	EXPEAM 25,56,69
ipr-pgn LDLo:150 mg/kg	ARTODN 46,265,80
cyt-hmn:lym 1 mmol/L/24H	TXCYAC 10,67,78
cyt-mus-orl 16800 mg/kg/4W	JTEHD6 2,619,77
cyt-mky-orl 5760 mg/kg/64W	MUREAV 45,77,77
ipr-mus TDLo: 15 mg/kg/(8D	BIMDB3 30,223,79
preg):TER	
ivn-ham TDLo:50 mg/kg/(8D	EXMPA6 7,208,67
preg) TER	
orl-rat TDLo:250 gm/kg/47W-	BJCAAI 16,283,62
CETA	TREE 1 D 10 4 4 4 4 5
ipr-rat LDLo:204 mg/kg	JPETAB 38,161,30
ipr-mus LD50:120 mg/kg	COREAF 256,1043,63
orl-dog LDLo: 300 mg/kg	HBAMAK 4,1289,35
scu-dog LDLo: 80 mg/kg	HBAMAK 4,1289,35
ivn-dog LDLo: 300 mg/kg	EQSSDX 1,1,75
scu-cat LDLo: 100 mg/kg	HBAMAK 4,1289,35
scu-rbi LDLo:300 mg/kg	HBAMAK 4,1289,35
ivn-rbt LDLo: 50 mg/kg	EQSSDX 1,1,75
scu-frg LDLo: 1600 mg/kg	HBAMAK 4,1289,35

Carcinogenic Determination: Animal Positive IARt 23,325,80; Human Suspected IARC** 23,325,80. The cology Review: ADTEAS 5,51,72; ENVRAL 13,36. 85DHAX Pb,256,72. OSHA Standard: Air: TWA: ug(Pb)/m3 (SCP-O) FEREAC 29,23540,74. Occupational Exposure to Inorganic Lead recm std: Air: TWA: 0.10 mg(Pb)/m3 NTIS**. Reported in EPA TSCA Inventory, 1980.

THR: MUT data. An exper + CARC, TER, ETA. A susp hmn CARC; HIGH ipr, orl, scu, ivn. See also lead compounds. A poison. An insecticide.

Disaster Hazard: When heated to decomp it emits tox fumes of Pb.

Incomp: KBrO₃; acids, sol sulfates, citrates, tartrates, chlorides, carbonates, alkalies, tannin phosphates, resorcinol, salicylic acid, phenol, chloral hydrate, sulfites, vegetable infusions, tinctures.

For further information see Vol. 1, No. 4 of DPIM Report.

LEAD ACETATE, BASIC

CAS RN: 1335326 NIOSH #: OF 8750000 mf: C₄H₁₀O₅Pb₃; mw: 807.71

US CENSUS DATA, 1980

US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase I site being investigated. Because of the voluminous amount of data used, the data is not provided in this Appendix.

INTERVIEW FORM

INTERVIEWEE/CODE Jun Sneeder Mike Wilkenson!
TITLE - POSITION NYSAGE Div of Fish + Weldlife
ADDRESS Delaware Ave.
CITY Muffalo STATE NY ZIP
PHONE () RESIDENCE PERIOD TO
DATE (TIME 1/2/25)
DATE/TIME 1/10/857 1/11/851
SUBJECT: Phase T. seite information
· ·
REMARKS: The above-hamed intervieweex provided
our Phase T site. (see attached list)
our Phase T site. (see attached live)
1) Wetlande in Viagara Co. & proximity to sites
2) 1 (1285 of Yexk+ weldtide in The Wiapana area
3) Use by Jank wildlife of Wagara Aver
4) Seasitive enveronments & proposed
West and in the me Masara, aren
wetlands or critical habitats within one mile.
wetlands or critical habitats within one mile.
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE: James R. Prides - In Wildlife Biologist (No Biologist)
COMMENTS: 910- discussion of everlands / wildlife regarding
rangell sav - referred to Olden Office

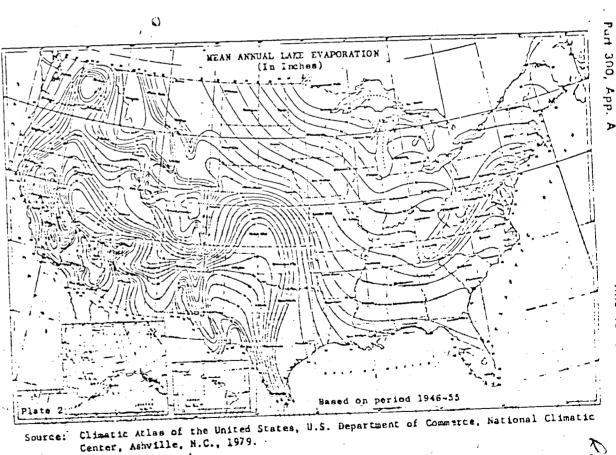
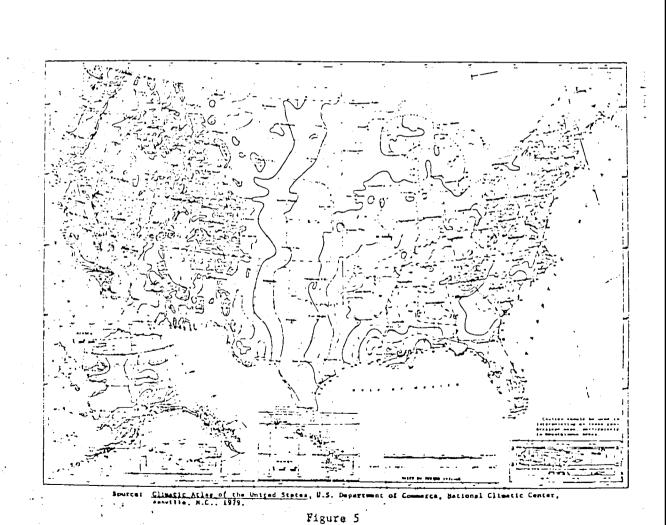


Figure 4

Hean Annual Lake Evaporation (In Inches)



Normal Annual Total Precipitation (inches)

United States", 1979.

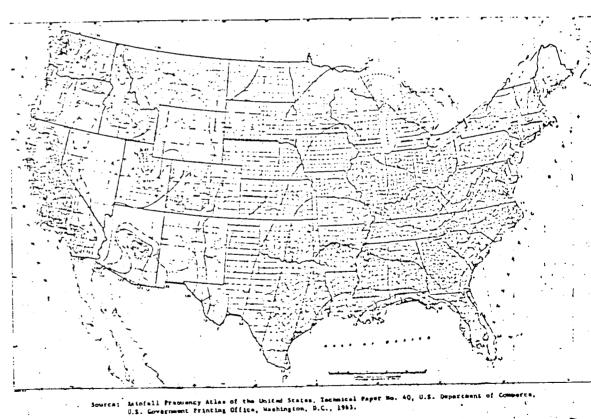


Figure B
1-Year 24-Hour Rainfall (Inches)

Apen #40, 1963





ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

> SITE LOCATION MAP CLINTON BAILEY

REFFRENCE: U.S.G. S. 7-51 Topographic Map Buffailer St. NY (1991) and Buffaile No. No. 1996 Control and C.

INTERVIEW FORM

TITLE - POCHE-	
TITLE - POSITION NIVE CORONITE	
ADDRESS Dellowing Que	d of Health
CITY Buffalo	· ·
PHONE (711) EAT - 45 D.	STATE DU ZIP
LOCATION (CLASSIC)	<u> </u>
DATE/TIME 16/8/85 @ 12:15 pm	INTERVIEWER Ang Q. Ruge
SUBJECT: Chatco-Barbara	
SUBJECT: Country-Production Surface	e 1 Broundwoles Upo
REMARKS: There are privile	drive him
within a show the phuride	trinting world wells
10 min Marka	of the Bile according
for cooling etc.	a may draw water
,,,	
Similar de andustrial de	himstrom of site is
dimeters to including and con	marcia chipping.
I AGREE WITH THE ABOVE SUMMARY OF THE INT	ERVIEW:
SIGNATURE	
COMMENTS:	

100 EPA 100.

SEPA

EPA FORM 2070-12 (7-81)

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

O1 5 1 2 G

PART 1 - SITE INFO	DRMATION AND ASSESSMENT
II. SITE NAME AND LOCATI ON	102 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
01 SITE NAME (Legas, common, or descriptive name of site)	Clinton 5 + Bailey Ave
may III	04 STATE 05 ZIP CODE 06 COUNTY 07COUNTY 08 CONG CODE DIST
Buttoo	104 14240 2012 1029 37
09 COORDINATES LATITUDE LONGITUDE 1078 49 09.	
10 DIRECTIONS TO SITE (Starting from meanist public road)	
III. RESPONSIBLE PARTIES	
OT OWNER (# Enough	wey 1396 Chinten St & N. Jefferson ST
Son-wel insuries Norfolk & Western Rail Bullab Rosmote	104 STATE 05 ZIP CODE OB TELEPHONE NUMBER 7/16 822 -00/3
Rulah Rosnote	NY NA 14240 1716 1812 -0013 1716 1812 - 5407
O7 OPERATOR (# known and different from owner)	08 STREET (Business, meeing, residence)
C9 CITY	10 STATE 11 ZP CODE 12 TELEPHONE NUMBER
	()
13 TYPE OF OWNERSHIP (Check one)	☐ C. STATE ☐D.COUNTY ☐ E. MUNICIPAL
F. OTHER: (Specify)	G. UNKNOWN
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check at their apply)	5.0.1015
MONTH DAY YEAR	ONTROLLED WASTE SITE CERCLA 1034 DATE RECEIVED:
IV. CHARACTERIZATION OF POTENTIAL HAZARD OLD MISTE INSPECTION BY (Check all first apply)	
MYES DATE 12 , 193 DA EPA	☐ B. EPA CONTRACTOR ☐ C. STATE X D. OTHER CONTRACTOR
☐ NO MONTH DAY YEAR CONTRACTOR NA	MEIST: Ecology & Environment Intendicted
02 SITE STATUS (Check one) 03 YEARS	19203 1953 II UNKNOWN
A. ACTIVE S. INACTIVE C. UNKNOWN	REGINNING YEAR ENDING YEAR
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGES	contain nutel 5/29,
Ill materials sixuad a choss	contain matel steg site-foundry send a construction
acous	
05 DESCRIPTION OF POTENTIAL MAZARD TO ENVIRONMENT ANDIOR POPULA	TION
assence from 1220 7112	is the measured in soil 4
gounducter at the s	X
V. PRIORITY ASSESSMENT	Waster and Day 1. Description of Masaginus Concurrent and Incidents
O1 PRIORITY FOR INSPECTION (Check one, it right or medium at checked, comprete Part 2 A. HIGH Inspection required promotion (Inspection required)	mi m. s. dated
(Inspection required promote) (Inspection required) (Inspection required)	
<u> </u>	ency-Organization) 03 TELEPHONE NUMBER
62 Stall T CAC	EV TOB ORGANIZATION TOT TELEPHONE NUMBER TOB DATE
C. A. T. C.	E = (705"/-7075 4/0,50

\$EPA

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

LIDENTIFICATION				
OI STATE	92 SITE NUMBER			
NY	915125			

II. WASTES	TATES, QUANTITIES, AN	D CHARACTER	STICS				
01 PHYSICAL S A. SOUD B. POWDE C. SLUDGE	TATES (Check after apply) DE. SLURRY R, FINES DF. UQUID	02 WASTE QUANTI (Measures o must be TONS _	TY AT SITE I waste quantities independentj	O3 WASTE CHARACT	CTIVE G. FLAM	BLE II 1. HIGHLY TIOUS II J. EXPLO MABLE II K. REACT	SIVE IVE Patible
III. WASTE T	YPE						····
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
(SLV)	SLUDGE)		
(OTM)	OILY WASTE	-			contain	od in unk	MULM
(\$0\bar{a})	SOLVENTS				humb	~ \ ·	(10 cotcai)
PSD	PESTICIDES	· · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,			5-30 drum	
,500,	OTHER ORGANIC CH	IEMICALS			3,70	15 of which	
iOC	INORGANIC CHEMIC				3 3 7	13 0/ 0010	<u>« wa.</u>
ACD	ACIDS		-		emoun		
BAS	BASES		 	-			
MES	HEAVY METALS		10 drums		metal stra	(welding or	1 Ann der a
	OUS SUBSTANCES (See AD	ander to make from the		<u> </u>	mack sica	$\frac{(\omega \cup (\cup (\vee) \circ \circ \circ \circ)}{(1 -)}$	OI CHIVNO
O1 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	OB MEASURE OF CONCENTRATION
	- 2 neutlet		108-88-3	,		54.00:37.0X)	10
	1.1.1 - trichly		71-55-6	truck truck		,	mall
	(112/1/20)	+		drums		19.4	1 1111
	1079		7431-92-1	(wtow	ad 1.117		marks.
		. 	 	11 WI 1010	*	LIDO CMX	1/
	weswic		7440-38-2	11	*	12.2 (2/2)	11
	morrison	· · · · · · · · · · · · · · · · · · ·	7439-97-6			1.02 (2)/3	-
	motel steal		-	auni	<u> </u>		
				···			
					· · · · · · · · · · · · · · · · · · ·	 	
							
	···						ļ
							
* drumb	containing to	se mole	17 lb have b	an Como	uld since	FEF COLOR	
* ()10	shore unba		1			1 '	
V FEEDSTA	CKS (See Appendix for CAS Number		PIT COTION			are evenages	
-	Y					rivis Rrszin.	
CATEGORY	01 FEEDSTOCE	K NAME	02 CAS NUMBER	CATEGORY	OI PEEDSTO	OCK NAME	02 CAS NUMBER
FDS		 	ļ	FDS			
FDS				FDS			
FDS				FDS			
FDS			<u> </u>	FDS			
	S OF INFORMATION (CH.						
- Ecolo	inspection	fut the	ernstund, F	have 2 Full	Inversity 2	thou legant	313/124
-51te	inspection	Condict	as by es	E 08 m	0~ 3/18/	85	

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION				
OSTATE	02 SITE NUMBER			

	INART ASSESSMENT AZARDOUS CONDITIONS AND IN	ICIDENTS	115126
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) X POTENTIAL	☐ ALLEGED
Contomination of up	ser aguilar po	sylledue	to
to estate beneficial	facility !		·
01 8. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE:	POTENTIAL	☐ ALLEGED
Due to uncentem	ed dumping		
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE: Q4 NARRATIVE DESCRIPTION) C POTENTIAL	□ ALLEGED
100			
01 C D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 CJ OBSERVED (DATE:) □ POTENTIAL	☐ ALLEGED
1 >			
01 C E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 GBSERVED (DATE:) © POTENTIAL	C ALLEGED
No			
01 X.F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	POTENTIAL	☐ ALLEGED
Due to uncontaine	d dumping		
91 C. G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) © POTENTIAL	☐ ALLEGED
Wo			
91 G H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) I POTENTIAL	I ALLEGED
No			
01 및 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) G POTENTIAL	I ALLEGED
No			

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION								
01	STATE	02 SITE NUMBER						

HAZARDOUS CONDITIONS AND INCIDENTS (COMPAN	rd)		
1 C J. DAMAGE TO FLORA 4 NARRATIVÉ DESCRIPTI O N	02 🗆 OBSERVED (DATE:) El POTENTIAL	□ ALLEGED
unknown		-	
1 II K. DAMAGE TO FAUNA 4 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:) [] POTENTIAL	ALLEGED
untnoun			
C L CONTAMINATION OF FOOD CHAIN NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:) ☐ POTENTIAL	□ ALLEGED
unthoun	1		
M. UNSTABLE CONTAINMENT OF WASTES (Southyrunof/standing illguds/leating drums) POPULATION POTENTIALLY AFFECTED:	02 COBSERVED (DATE: 3/35) © POTENTIAL	C ALLEGED
Uncontrolled + un		and	
N. DAMAGE TO OFFSITE PROPERTY	02 D OBSERVED (DATE:) - ☐ POTENTIAL	C ALLEGED
/Ja			
E O. CONTAMINATION OF SEWERS, STORM DRAINS, INARRATIVE DESCRIPTION	WWTPs 02 [] OBSERVED (DATE:	G POTENTIAL	□ ALLEGED
No			
☐ P. ILLEGAL/UNAUTHORIZED DUMPING I NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:] ☐ POTENTIAL	☐ ALLEGED
JJ0			
DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, O	R ALLEGED HAZARDS		
とい			
TOTAL POPULATION POTENTIALLY AFFECTED:			
COMMENTS			
	<u>.</u>		
SOURCES OF INFORMATION (Cite superim references, e.g.,			
ESIDÉM SHE UISH 3/	1961		

NO EPA NO

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

1. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. SITE NAME AND LOCA					. <u> </u>	
01 SITE NAME (Logal, common, or				nton Star	DEILLY AV	2
Euffelo			E .	14240	ECIE	07COUNTY 08 CONG 029 37
47 52 12.	014 24 59.	A. PRIVATE F. OTHER	IP (Check o	DERAL	C. STATE D. COUNTY	□ E. MUNICIPAL N
III. INSPECTION INFORM	IATION					· · · · · · · · · · · · · · · · · · ·
01 DATE OF INSPECTION 3 /2 85 MONTH DAY YEAR	02 SITE STATUS □ ACTIVE × INACTIVE			S 1956	NKNOWN	
04 AGENCY PERFORMING INSI	ONTRACTOR <u>Engineer</u> CONTRACTOR <u>Danies</u> (No. 1986)	ns-Suence	- □ C. M □ G. C	IUNICIPAL 🗆 D. MUN		(Name of firm)
05 CHIEF INSPECTOR		I 06 TITLE			(Specify) 07 ORGANIZATION	08 TELEPHONE NO.
	ACCIC T		E.	TAC Semilist		(702) 571-7575
S. Rosent S	18ECE A	10 mrs	MRX.	THE STALKE	11 ORGANIZATION	12 TELEPHONE NO.
		1/20 min	,		13000 3 -017303	
Edica Carr	· · · · · · · · · · · · · · · · · · ·	11 21 2	· ^ /=		13000 2000	13/2/3/2-23/2
	·					()
	-					()
						()
						()
13 SITE REPRESENTATIVES IN		14 TITLE		15ADDRESS	on strect	16 TELEPHONE NO
Michael R.	Hay40-5+	Preside	ا بر رم	1395 CINTO	14 14200	(7/3) 2:2-2012
						()
						()
				· · · · · · · · · · · · · · · · · · ·		()
						()
						()
					-	
17 ACCESS GAINED BY (Check one) 22 PERMISSION WARRANT	18 TIME OF INSPECTION 30 PM	Gea-,		(Murr. 2)	or) Junes	
IV. INFORMATION AVAILABLE FROM						
S. Rosent	STEELE, I	Englist		ig - Ecreme	. 1	03 TELEPHONE NO. (703 19 アルファップ
04 PERSON RESPONSIBLE FO	A SITE INSPECTION FORM	05 AGENCY			<u> </u>	08 DATE
S. 42 Cont :	STERVE		4	=5	703)571-7575	3 18 95 MONTH DAY YEAR
EPA FORM 2070-13 (7-81)						

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

LIDENT	TEICATION	
01 STATE	02 SITE NUMBER	Ξ,
NY	91513	~

IL WASTE STATES, QUANTITIES, AND CHARACTERISTICS							
01 PHYSICAL S	TATES (Check all that epply)	02 WASTE QUANTI		03 WASTE CHARACTE	RISTICS (Check all that t	copy)	
X A. SOLID	C) E. SLURRY		waste quantities ndependant)	A. TOXIC E. SOLUBLE 1. HIGHLY VOLATILE			
YX B. POWDE	R FINES D.F. LIQUID	TONS -	· · · · · · · · · · · · · · · · · · ·	☐ 8. CORROSIVE ☐ F. INFECTIOUS ☐ J. EXPLOSIVE ☐ C. RADIOACTIVE ☐ G. FLAMMABLE ☐ K. REACTIVE			
C. SLUDGE	E D.G. GÝS	CUBIC YARDS	inknown	☐ D. PERSIST			ATIBLE DUCABLE
Ø D. OTHER	Secry	NO. OF DRUMS	25-30			□ M. NCT AP	PUCABLE
III. WASTE T	YPE	<u> </u>					
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
(SLU)	SLUDGE			·			
(OLW)	OILY WASTE				Contain	ed in unt	noun.
SO	SOLVENTS					en a) drums	
PSD	PESTICIDES		1			5-20 drum	
,600	OTHER ORGANIC CH	EMICALS) site	15 of which	
ioc	INORGANIC CHEMIC				3.00	13 01 20,23	× 333
ACD	ACIOS				empa		
BAS	BASES	*-					
MES	HEAVY METALS		10 40 41		metal sta	1. 212 :4	1
	<u> </u>		10 drums		HULTER ZIEB	<u>luelding sia</u>	VC: IMA
	OUS SUBSTANCES (See A		,	I		T	I OR MEASURE OF
01 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS		05 CONCENTRATION	OB MEASURE OF CONCENTRATION
	->luenz		108-88-3	Samo		54,00;37,000	mal
	1,1,1 - +r chie		71-55-6	4 vrrwy		30.1000	Malx
	Crown go	*	1 2 2 2	<u>Anums</u>		187	Marka
	1059		7439-92-1	1 wtown		7400 CM2	, , .
	meenic		7440-38-2	'\	(-)	12,2 (3/15)	1/
	MALLINE		7439 -97-6	11		1 22 21	17
	motel steal			drume	<u> </u>		
	0						
					•		
		<u></u>		-			
		 					
		-		<u> </u>		 	-
F 15	contenume to		A 1	10 as C0 00 acc	30 5 1 110	Bis and	
* (1)	1					1	
- tom	hdry sends	of CON:	struction	1960212-0	incentration	sostaus are an	1 St S. Gray
V. FEEDSTO	OCKS (See Appendituter CAS Mumo	ers)			excluding	vermekrus	om olen
CATEGORY	01 FEEDSTOO	X NAME	02 CAS NUMBER	CATEGORY	01 FEEDS	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS	- 		
FDS			-	FDS		· -	
FDS	-			FDS			
	S OF INFORMATION (Cite			<u> </u>			
			·				
- E co/c	ocy w tenvirons	tut then	ernstund, i	wase I red	d Investig	一ついか!	3131(34)
-51te	inspection	Conduci	ted by Es	E DIM	5~ 3/12/	7	ļ
	· •				/ - /		Ì
l							

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION O1 STATE 02 SITE NUMBER NY 915126

HAZARDOUS CONDITIONS AND INCIDENTS			
A. GROUNDWATER CONTAMINATION DE POPULATION POTENTIALLY AFFECTED:	02 C) OBSERVED (DATE:	_1 POTENTIAL	
Contemenation in upper noture of faculities	raguler possible	due te un u	ned
DUE TO WATER CONTAMINATION DISPOPULATION POTENTIALLY AFFECTED: DUE TO WATER CONTAMINATION DUE TO WATER CONTAMINATION DISPOPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:	_1 S POTENTIAL	. 🗆 ALLEGED
D1 C. CONTAMINATION OF AIR D3 POPULATION POTENTIALLY AFFECTED:	02 (7) OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
D. FIRE/EXPLOSIVE CONDITIONS 3 POPULATION POTENTIALLY AFFECTED:	02 II OBSERVED (DATE:) D POTENTIAL	□ ALLEGED
POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) DPOTENTIAL	□ ALLEGED
A F. CONTAMINATION OF SOIL 3 AREA POTENTIALLY AFFECTED: [Acres]	02 (1 OBSERVED (DATE:		□ ALLEGED
1 G. DRINKING WATER CONTAMINATION 3 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION) EJ POTENTIAL	ALLEGED
11 TH. WORKER EXPOSURE/INJURY 33 WORKERS POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) D POTENTIAL	□ ALLEGED
POPULATION EXPOSURE/INJURY BY POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	} D POTENTIAL.	□ ALLEGED

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

	SPECTION REPORT AZARDOUS CONDITIONS AND INCIDENTS	OJ STATE 02	SITE NUMBER
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLÈGED
unknown			
01 CL K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(a) of species)	02 OBSERVED (DATE:)	O POTENTIAL	☐ ALLEGED
untnown			
61 € L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C) OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
unknown			
01 XM. UNSTABLE CONTAINMENT OF WASTES	02 OBSERVED IDATE: 4/85	EJ POTENTIAL	☐ ALLEGED
(Spirit/Runoff/Slanding Reuts, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
Uncontrolled + um	constained dumps	المراجع والمعاصف الما	
01 □ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C) OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WATPS 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	E) POTENTIAL	☐ ALLEGED
$\mathcal{O}_{\mathcal{O}}$			
01 D P. ILLEGAL/UNAUT HO RIZED DUMPING 04 NARRATIVE DESCRIPTI O N	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
\mathcal{V}_{o}			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZARDS		
No			
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS		 	
V SOURCES OF INFORMATION			
V. SOURCES OF INFORMATION (Can apacific references, e. g., state files,			
ESDEM Site visit 3/184	žiš		
4			

•	

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION						
01 STATE	02 SITE NUMBER					
المحمد	915120					

SEPA		- · · · - · · · · ·	PECTION SCRIP <mark>TIVE INFORMAT</mark>	†	STATE OF SITE NUMBER
IL PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED (Check at thet apply)	02 PERMIT NUMBER	03 DATE IS	SSUED 04 EXPIRATION DATE	05 COMMENTS	·
A. NPDES		<u> </u>			
□ B. UIC					
C. AIR					
D. RCRA					
☐ E. RCRA INTERIM STATUS		•			
F. SPCCPLAN					
☐ G. STATE (Soecdy)					
☐ H. LOCAL (Specify)					
☐ I. OTHER (Specify)					
☐ J. NONE		1			
III. SITE DESCRIPTION					
01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT 03 UNIT OF	MEASURE	DA TREATMENT (Check all that a	D(SIV)	06 OTHER
D. TANK, ABOVE GROUND	25-30 Acu	ma	☐ A. INCENERATION ☐ B. UNDERGROUND INJI ☐ C. CHEMICAL/PHYSICA ☐ D. BIOLOGICAL		☐ A. BUILDINGS ON SITE
☐ E. TANK, BELOW GROUND _			E. WASTE OIL PROCES		08 AREA OF SITE
☐ F. LANDFILL ☐ G. LANDFARM			 □ F. SOLVENT RECOVER □ G. OTHER RECYCLING 		/2
THE COCK DUMP			☐ H. OTHER	RECOVERY	
1. OTHER AN Weterial scrain	> not known		(Spe	icity)	
07 COMMENTS					
Empty drums (10 Literal Sile and	-15) were a	مرم <i>م</i> ي ٿ	1 ans-site a	- Correspond	El and
01 CONTAINMENT OF WASTES (Check one)					
☐ A. ADEQUATE, SECURE	☐ B. MODERATE	C. IN	ADEQUATE, POOR	D. INSECUE	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, 8 A LINE SCETTERED - 52 - LUNGEN L	-some de				
V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: 12 YES					
02 COMMENTS O2 COMMENTS O2 CLINTON -	Causey Sike		enot have	ra's fric	him to refer
VI. SOURCES OF INFORMATION (Cate see			eta)		
-E4E (2)01+, 3/30/84			· ···		
- letter 4/21/84 ExE					
- Site Inspection by	/ Es and	OEm	on 3/18/8	5	•

POTENTIAL HAZARDOUS WASTE SITE

	I. IDENTIFICATION							
	OI STATE 02 SITE NUMBER							
1	I NY I	1915126						

SEPA	PART 5 - WATER	SITE INSPECT DEMOGRAPHI		ONMENTAL DATA	NV.	19/5/2C
IL DRINKING WATER SUPPLY						
01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS			03.0	DISTANCE TO SITE
SURFACE	WELL	ENDANGERE	D AFFECTED			
COMMUNITY AX	B. C	A. 🗆	8. 🗆	C. 🗅		(mi)
NON-COMMUNITY C. 🗆	0. 🖸	0.0	€. 🖸	F. D	8	(mi)
III. GROUNDWATER						
01 GROUNDWATER USE IN VICINITY (Check	onel					· ·
a. Only source for drinking	D. B. DRINKING. (Other sources availate COMMERCIAL, IN (No other water source)	IOUSTRIAL, IRRIGATIO	/ (Limited o	RCIAL, INDUSTRIAL, IRR	igati on E) D. NOT USED, UNUSEABLE
02 POPULATION SERVE D B Y GRO UND WA	TER MEDICAL NO.	ne within 3 miles	03 DISTANCE TO	NEAREST DRINKING WAT	ER WELL	(ml)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	OUNDWATER FLOW	OF CONCERN	FER GT POTENTIAL		08 SOLE SOURCE AQUIFER
~ 4,5 _ m	unkno	-647	~30	in ann		YES DONO
					(800)	
09 DESCRIPTION OF WELLS (Including useage		1	^		A	melacie
5 rear 6	i unoli	صاماعدم	المدورية الم	4	_	
limes 400, on	· ~ 4-	Donne	· Spran	man in he	د الله الله الله الله الله الله الله الل	
10 RECHARGE AREA			11 DISCHARGE A	REA		
T YES COMMENTS	14 B 1 4 b			MMENTS	حد د.	
ONO CONT			ם אס			
IV. SURFACE WATER						
01 SURFACE WATER USE(Check and)						
1) A. RESERVOIR, RECREATION DRINKING WATER SOURCE		ON, ECONOMICALL' NT RESOURCES	у (с. сом	MERCIAL, INDUSTRIA	L 🗆	D, NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED B	ODIES OF WATER		· · · · · · · · · · · · · · · · · · ·			
NAME:				AFFEC	TED	DISTANCE TO SITE
Buffalo Prix	,	•		_		Λ Λ
BUTTOLLING		 				
			 			(mi)
						,,,,,
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION					
01 TOTAL POPULATION WITHIN		•		02 DISTANCE TO N	EAREST POPU	JLATION
ONE (1) MILE OF SITE TO	B. OF PERSONS	THREE C. 2	3) MILES OF SITE 62, 396 NO. OF PERSONS	-	0.1	(mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2	2) MILES OF SITE		04 DISTANCE TO	NEAREST OFF-SITE BUT	LDING	
_/8,/	<u> 30</u>		<u> </u>	_0		(mi)
Site is lecated in people of the control of the con						

1	I. IDENT	IFICATION
	OI STATE	91512/

SEPA	SITE INSPECTION REPORT PARTS-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA O1 STATE O2 SITE NUMBER NY 95126
VI. ENVIRONMENTAL INFORMA	
01 PERMEABILITY OF UNSATURATED Z	
□ A. 10 ⁻⁴ – 10 ⁻	8 cm/sec 28 B, 10-4 - 10-4 cm/sec 2 C, 10-4 - 10-3 cm/sec 2 D, GREATER THAN 10-3 cm/sec
02 PERMEABILITY OF BEDROCK (Check of	na -
☐ A. IMPERN (Less then	MEABLE S.B. RELATIVELY IMPERMEABLE C.C. RELATIVELY PERMEABLE C.D. VERY PERMEABLE (10-4-10-6 cm/sec) (10-2-10-6 cm/sec) (G/suer than 10-2 cm/sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE DS SOIL AM
32.5-34.5 m	unknown (M) unknown
08 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL GB SLOPE SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE
8-10 (n)	2.1 (in) 0.0 × N/A 0.0 ×
09 FLOOD POTENTIAL	10
SITE IS IN 2/00 YEAR FLO	ODPLAIN SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS 19 ACT MAN	12 DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARI NE	OTHER Colcien Each
A(mi)	B (mi) ENDANGERED SPECIES: Fair
13 LAND USE IN VICINITY	
DISTANCE TO:	
COMMERCIALINDUSTR	RESIDENTIAL AREAS! NATIONAL/STATE PARKS, AGRICULTURAL LANDS MAL PORESTS, OR WILDLIFE RESERVES PRIME AG LAND AG LAND
A <u>≤ 0 · 1</u> (mi)	8. 0.05 (mi) c. 210 (mi) p. > 10 (mi)
14 DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOGRAPHY
A vacan	t lot fronting Barrey Avenue between
-	
	entier Growers d'acceptative on the North aud
Conrail pr	operty on the worth. The site and surround
area is f	lat and marshy.
	'
WIL COMPOSE OF INCOME.	
VIL SOUNCES OF INFORMATIO	N (Cito apocitic references, e.g., state Nes, semple enerysta, reporte)
site viset uses togo	cheets
1 USUS TUGO	
i	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION							
01 STATE	02 SITE NUMBER						
NT	1 5126						

IL SAMPLES TAKEN			
	01 NUMBER OF	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
SAMPLE TYPE	SAMPLES TAKEN		RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			
IIL FIELD MEASUREMENTS TA	KEN		
O1 TYPE	02 COMMENTS	(54	(الم <u>ن</u> ارة القام ع
HNu -	hold over t	sormas (40 feet deeps - no readurage above	Ekord
		Č ,	<u> </u>
14 NU 3/18/85	hortons in	e area of small diam, and from	inv
		معروب المعروب	
IV. PHOTOGRAPHS AND MAP	S		
01 TYPE DEROUND AERIAL		92 IN CUSTODY OF THE MAN OF THE OF ORGANIZATION OF INTERMEDIAL INT	
G3 MAPS 04 LOCATION ☐ YES ☐ NO	OF MAPS		
V. OTHER FIELD DATA COLLE	CTED (Provide name)ve de	secretion)	
Site mar	ostained	from Mr. mychael Harbert as	
		es, the pronts Es and DEm and	-2
posspection.		,	
777, 320,000			
VI. SOURCES OF INFORMATIO	N (Cite apecific references).	e.g., state fries, sample analysis, reports:	
828 3 300 gA			
	site in	spection , 3/18/85	
		, , ,	

		OTENTIAL HAZ	ARDOUS WASTE SITE		I. IDENTIFICATION		
SEPA	·	SITE INSP	SITE INSPECTION REPORT PART 7 - OWNER INFORMATION		2 SITE NUMBER 9/5/2		
IL CURRENT OWNER(S)			PARENT COMPANY (If applicable)				
HAME WESTER NOTE OF	5,42)	02 O+8 NUMBER	C8 NAME		09 D+8 NUMBER		
Sen-Wel Indus	tres						
33 STREET ADDRESS (P. O. BOX, AFO P. MO.)	< p	04 SIC CODE	10 STREET ADDRESS (P O. Sox. RFD F. etc.)		11 SIC CODE		
os city		07 ZIP CODE / 4240	12 CITY	13 STATE	14 ZIP CODE		
DI NAME ! [ECOSEMAN half	ગુજાર)	02 D+8 NUMBER	08 NAME	<u> </u>	09 0+8 NUMBER		
Nortalk 4 Wosten k	Ellway		Nortolle Southern	(0)			
B North Ootherson	n St	04 SIC CODE	8 North Gellers	in St	11 SIC CODE		
05 CITY		07 ZIP CODE	12 (174	13 STATE	14 ZIP CODE		
Kocnote_	VA	24042	Koznake	AV	24042		
O1 NAME		02 D+8 NUMBER	08 NAME		09 D+B NUMBER		
03 STREET ADDRESS (P.O. Bos, AFO F. HC.)		04 SIC CODE	10 STREET ADDRESS (P. O. Bas. RFD P. etc.))	11 SIC CODE		
05 CITY	O6 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE		
01 NAME	 	02 D+8 NUMBER	OB NAME		09 0 + 8 NUMBER		
03 STREET ADDRESS (P.O. Box, RFD P. etc.)		04 SIG CODE	10 STREET ADDRESS (P. O. das. RFD P. etc.)	11 SIC CODE			
05 CITY	106 STATE	07 ZIP CODE	12 017	13 STATE	14 ZIP CODE		
III. PREVIOUS OWNER(S):(List most rec	ent first)	<u></u>	IV. REALTY OWNER(S) (If applicable)	ist most recent first)	1		
OI NAME	,	02 0+8 NUMBER	01 NAME		02 D+B NUMBER		
Q3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P. O. dos, RFG #, etc.	ı	04 SIC CODE		
05 CITY	OBSTATE	07 ZIP GODE	05 CITY	OB STATE	07 ZIP CODE		
O1 NAME	 	02 D+8 NUMBER	01 NAME		02 D+8 NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P. O. Box, RFO #. erc.)	04 SIC CODE		
05 CITY	OB STATE	07 ZIP CODE	05 CITY	OB STATE	07 ZIP CODE		
01 NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #. erc.)	-	04 SIC CODE	03 STREET ADDRESS (P.O. Son, AFD F. etc.)		04 SIC CODE		
05CITY	MACTATE	07 ZIP CODE	OB CYTY	IOR STATE	07 ZIP CODE		
93011	OBSTATE	07 AF COUE	os cary	DOSTATE	O, EF CODE		

Ecology & Environment, 3/30/84 Letter from K. Fenten Gensel: Norfelk Southern, to Chas Goddand, NYSDEC 11 March 1985

V. SOURCES OF INFORMATION (Can apocific references, e.g., state (ibm, sample anterpas, reporter

SEPA		OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION		L IDENTIFICATION OF STATE OF S	
IL CURRENT OPERATOR (Provide	If different from owner)		OPERATOR'S PARENT COMPAN	Y (# applicable)	
Site asan	doned	02 D+8 NUMBER	10 NAME	11 D+8 NUMBER	
DS STREET ADDRESS (P.O. Sox, RFD P. etc.)	, ,	04 SIC CODE	12 STREET ADDRESS (P. O. BOX, APD #, etc.)		13 SIC CODE
5 СПУ	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
S YEARS OF OPERATION 09 NAME O	OF OWNER				
IIL PREVIOUS OPERATOR(S) (List)	most recent first; provide only	/ If different from owner).	PREVIOUS OPERATORS' PAREN	T COMPANIES #	Ropilcat/e/
01 NAME		02 D+8 NUMBER	10 NAME		11 D+B NUMBER
N3 STREET ADDRESS (F.Q. Box, RFD #, erc.)	,	04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD #, etc.)	13 SIC CODE	
D5 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	18 ZIP CODE
08 YEARS OF OPERATION 09 NAME O	F OWNER OURING THIS	PERIOD			
O1 NAME		02 D+8 NUMBER	10 NAME		11 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD P. etc.)	<u>l</u>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, AFD #, etc.)		13 SIC CODE
os arr	06 STATE	07 ZIP CODE	14 CITY	15 STATE	18 ZIP CODE
8 YEARS OF OPERATION 09 NAME O	OF OWNER OURING THIS	PERIOD			
OI NAME		02 D+8 NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P. Q. Sox, RFO F. etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD P. etc.)		13 SIC CODE
os arry	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, escrible analysis, reported

09 NAME OF OWNER OURING THIS PERIOD

Site inspection by Es and 08m, 3/18/25

08 YEARS OF OPERATION

	OT	ENTIAL HAZ	ARDOUS WASTE SITE	L	I. IDENTIFICATION		
PA			ECTION REPORT	01	STATE 02	SITE	NUMBER
PART	9 - G	ENERATOR/T	RANSPORTER INFORMATION	L			····
.						_	
	02 0	+B NUMBER	T				
	[
	<u> </u>	04 SIC CODE	-	-			
IOS STATE	107 2	IP CODE					
					<u> </u>		
	02 [+8 NUMBER	O1 NAME			02 D	+B NUMBER
	,						
	١	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD P. etc.)	· · · · · · · · · · · · · · · · · · ·		1	04 SIC CODE
06 STATE	07 2	I IP CODE	05 CITY		08 STATE	07 Z	P CODE
					<u>'</u>		
	02 [+8 NUMBER	01 NAME			02 0	+8 NUMBER
						1	
	٠	04 SIC CODE	03 STREET ADDRESS IP. O. Box. RFD #, etc.)		·····	1	04 SIC CODE
						ĺ	
OB STATE	07	I ZIP CODE	05 CITY	 ,	OB STATE	07 Z	P CODE
1	1		-			1	
	02	+8 NUMBER	01 NAME	-		02 D	+8 NUMBER
	<u> </u>	04 SIC CODE	03 STREET ADDRESS (P.Q. Box. RFD #. etc.)			1	04 SIC CODE
OB STATE	07	I ZIP CODE	05 CITY		OB STATE	07 Z	P CODE
						1	
	102	O+B NUMBER	01 NAME			02 D	+B NUMBER
	1						
	<u> </u>	104 SIC CODE	03 STREET ADDRESS (P. O. Baz, RFD P. MC.)	·			04 SIC CODE
IOS STATE	107	ZIP CODE	05 CRY		OB STATE	07 Z	IP CODE
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	_			_		<u> </u>	
	OB STATE	06 STATE 07 2 08 STATE 07 2 08 STATE 07 2 08 STATE 07 2	02 D+8 NUMBER 04 SIC CODE 08 STATE 07 ZIP CODE 08 STATE 07 ZIP CODE 02 D+8 NUMBER 04 SIC CODE 05 STATE 07 ZIP CODE	02 D+8 NUMBER	02 D+8 NUMBER	02 D+8 NUMBER	02 D+8 NUMBER

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

I. IDENTIFICATION							
OI STATE OZ SITE NUMBER							

PARI 1U-PAS	ST RESPONSE ACTIVITIES		
IL PAST RESPONSE ACTIVITIES			
01 C. A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION			
	02 DATE		
01 0 0, 12/1/ 0/1/1/	02 DATE	03 AGENCY	
04 DESCRIPTION			
	02 DATE	05 40EVOV	
01 D. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION 1	02 DATE	03 AGENCT	
$\mu_{\mathcal{O}}$			
	02 DATE	03 AGENCY	
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	UZ DATE	OU MODING!	
$\mathcal{V}_{\mathcal{O}}$			
* 01 C E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION ,)			
$\mathcal{N}_{\mathcal{O}}$			
01 F. WASTE REPACKAGED	02 DATE	03 AGENCY	
04 DESCRIPTION			
No			
01 [] G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY	
I DA DESCRIPTION			
$\mathcal{V}_{\mathcal{O}}$			
01 D H. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION			
790			
01 CI I, IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION			
$\mathcal{V}_{\mathcal{O}}$	02 OATE		
01 🖸 J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 OATE	03 AGENCY	
UN DESCRIPTION			
	02 DATE	02 40500	·
01 (1) K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	UZ DATE	US ABERO	
No			
01 0 L ENCAPSULATION	02 DATE	03 AGENC	1
04 DESCRIPTION			
\sim			
01 @ M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENC	·
04 DESCRIPTION			
No.			
01 O N. CUTOFF WALLS	02 DATE	03 AGENC	Y
01 D N. CUTOFF WALLS 04 DESCRIPTION			
01 0. EMERGENCY DIKING/SURFACE WATER DIVERSION	02 DATE	03 AGENC	Υ
04 DESCRIPTION			
~			<u></u>
01 D P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENC	Υ
04 DESCRIPTION			
01 Q Q SUBSURFACE CUTOFF WALL	02 DATE	03 AGENO	Υ
04 DESCRIPTION			

&EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	LIDENTIFICATION OF STATE OF SITE NUMBER 915/26
PAST RESPONSE ACTIVITIES (Continued)		
01 D. R. BARRIER WALLS CONSTRUCTE 04 DESCRIPTION	ED 02 DATE	03 AGENCY
01 (2) S. CAPPING/COVERING 04 DESCRIPTION		03 AGENCY
01 (1) T. BULK TANKAGE REPAIRED 04 DESCRIPTION		03 AGENCY
01 D U. GROUT CURTAIN CONSTRUCT 04 DESCRIPTION	02 DATE	03 AGENCY
01 C V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D.X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D.Y. LEACHATE TREATMENT 04 DESCRIPTION		03 AGENCY
01 IZ AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 (2) 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION C'	02 DATE	03 AGENCY
01 (3.2. POPULATION RELOCATED 04 DESCRIPTION	No 02 DATE	03 AGENCY
	g tolvine, 1,1,1 - truckoro	osagency
	entel were removed. In a Report, 1584)	

ITL SOURCES OF INFORMATION rese south references, e.g. store these sentite energetic report.

Site uiset by ES/OHM 3/18/85



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

I. IDENTIFICATION		
01 STATE	02 SITE NUMBER	

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION (I YES) NO

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

III. SOURCES OF INFORMATION (Cite apacific references, e.g., state flex, sample analysis, reconst

NYS OFC ENVIRONMENTAL Enforcement DIVISION

NYS Attorney General's OFFICE

EPA FORM 2070-13 (7-81)

SECTION VI

ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Based on this assessment, the following Phase II work plan and cost estimate has been prepared.

PHASE II WORK PLAN

Objectives

The objectives of the proposed Phase II activities are:

- o To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- o To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- To prepare a site investigation report including final HRS score.

The additional field data required to complete this investigation are described as follows:

- Geophysical Survey A geophysical study consisting of an electrical resistivity survey is recommended. The electrical resistivity survey will be performed at various locations within and beyond the perimeter of the site to investigate site stratigraphy, delineate significant discontinuities and assess the presence and location of contaminant plumes. A magnetic survey will be conducted as necessary on a grid system to aid in locating buried drums and in delineating the limits of the contaminated area.
- Groundwater A groundwater monitoring system consisting of 6 wells with proposed locations shown in Figure VI-1 is recommended. Borings will be drilled to a maximum depth of 30 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for priority pollutants. In addition, sieve and hydrometer analyses will be performed on representative samples of the subsurface soils. Finally, an in-situ permeability test will be performed on each well.
- Surface Water and Sediment A surface water and sediment monitoring system consisting of 3 monitoring stations in downgradient
 swamp areas as shown in Figure VI-1 are recommended. The
 surface water and sediment samples will be analyzed for
 priority pollutants.
- Air An air monitoring survey with an HNU meter is recommended to test the air quality during site activities.
- Surface Soil Samples Eight surface soil samples will be taken at the scattered areas where drums have been dumped.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2 as required under the site specific health and safety plan and quality assurance plan which must be submitted prior to initiation of field activities.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs by tasks are presented in Table VI-4. The estimated total cost for this project is \$66,187.

TABLE VI-1 ASSESSMENT OF ADEQUACY OF DATA

HRS Da ta Re quirement	Comments on Data
Observ ed Release	
G ro u nd water	Insufficient data to score release due to lack of upgradient monitoring wells
S ur face Water	Insufficient data to score an observed release
Air	Adequate
Route Characteristics	
G round water	Adequate data to score
Surface Water	Adequate data to score
Air	Adequate data to score
Contai nment	Adequate data to score
Waste Characteristics	<pre>Inadequate data to score, no waste quantity information</pre>
Target s	Adequate data to score
Observ ed Incident	Adequate data to score
Access ib ility	Adequate data to score

TABLE VI-2

PHASE II WORK PLAN - TASK DESCRIPTION

	Tasks	Description of Task
II-A	Up d ate Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	Conduct resistivity and magnetometry surveys.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 5 down- gradient wells. The borings will be drilled to a depth of approximately 30 feet. Wells will be constructed of 2" PVC pipe.
II-D	Construct Test Pits/Auger Holes	No further construction of test pits/auger holes necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	Soil samples collected at 5 ft. intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
	Soil samples from surface soils	A total of eight surface soil samples will be collected at the former scavanger drum dumping areas.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from surface water	3 sediment samples are to be collected and analyzed for priority pollutants.
	Groundwater samples	6 groundwater samples are to be collected and analyzed for priority pollutants.
	Surface water samples	3 surface water samples are to be collected and analyzed for priority pollutants.

TABLE VI-3

PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: CLINTUN EATLEY)

TASK DESCRIPTION

TEAM MEMBERS, MANHOURS

THEN DESCRIPTION	IEMA PERENO, MINITURO													
	. PIC	TRB	PN	DPM	PEX	DOW	hsm	FIL	FI	RAAL	RAAT	SS	TOTAL HOURS	
11-A UPD ate Kor k Plan	i	1	B	4		4	4	16		8		88	74	1144.1
11-8 CONDUCT GEOPHYSICAL STUDIES			4	1			4	16	280			40	265	2667.79
II-C CONDUCT BORING/INSTALL MONITORING WELLS			8	16		4	4	24	80			24	169	2175.56
II-D CONSTRUCT TEST PITS/AUSER HOLES											·		9	0
11-E PERFORM SANDLING AND ANALYSIS														
SOIL SAMPLES FROM BORINGS			4	4		5	2	8	16			8	44	636.42
SOIL SAMPLES FROM SURFACE SOILS			5	5		1	1	•	8			4	22	318.21
SOIL SAMPLES FROM TEST PITS AND RUGER HOLES													0	9
SEDIMENT SAMPLES FROM SURFACE MATER		1	5	5		1	1	4	16			4	39	392.61
GROUND-WATER SAMPLES			4	2	•	1	1	8	35			8	56	700.57
SURFACE WATER SAMPLES			2	5		1	1	4	16			4	30	392.61
AIR SAMPLES			1	1			ı	s	4				9	146.32
Waste Samples													0	0
II-F CALCULATE FINAL HRS			4	4				4	4	5		4	22	394.56
11-6 CONDUCT \$1TE ASSESSMENT	5	5	a	2				24	32	15	40	50	172	2217.02
II-H PROJECT MANAGEMENT	2		6	2	3	4	4					12	33	529.88
TOTALS	5	3	53	42	3	18	23	114	488	22	48	186	917 1	1716.05

TRBLE VI-4

COST ESTIMATE BREAKDOWN BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: CLINION BAILEY)

TRSK: DESCRIPTION

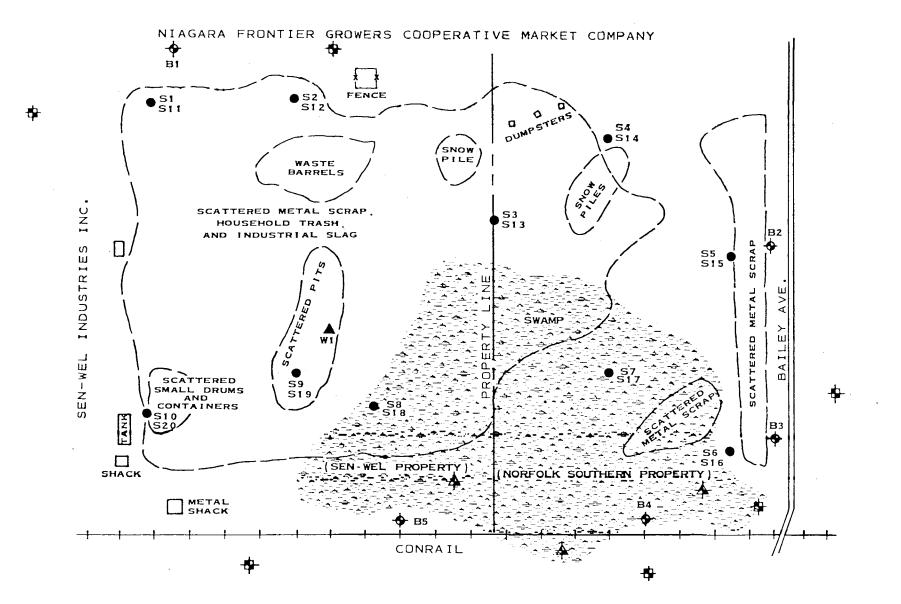
DINER DIRECT COSTS (ODC), 1

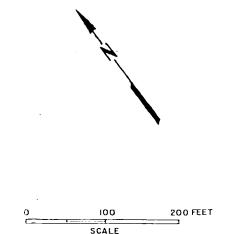
\$16,739,52 \$62,461,57 \$3,725,31 \$66,186,88

OVERHEAD= Subtotal= Fee=

TOTAL PROJECT COST=

	DIR	ect labor s cost	LAB ANALYSIS	TRAVEL AND		EQUIP. CHARGES	SUBCON- TRACTORS	M1SC.	SUBTOTAL	Total (\$)
II-A UPDATE WORK PLAN	74	\$1, 144, 19		\$200.00	\$50.00	\$50.00		\$50.00	\$350.00	\$1,454.10
11-8 COMBUCT GEOFHYSICAL STUDIES	265	\$2,667.79		\$2,000.00	150.00	\$600.00		\$25. 8 8	\$2,675.00	15, 342. 79
II-C CONDUCT BORING/INSTALL MONITORING MELLS	168	6 2, 175. 9 6		\$700.00	\$250.00	\$9 00 .00	\$8,500.00	\$250.00	\$10,680,60	112,775.96
11-D CONSTRUCT TEST PITS/AUGER HOLES	8	\$9.00							60.00	50.00
II-E PERFORM SAMPLING AND ANALYSIS		1								
SOIL SAMPLES FROM BORINGS	44	\$636.42			\$100.00	1150.00		650. D0	\$388.00	1936.42
SOIL SAMPLES FROM SURFACE SOILS	55	\$318.21		885. 00	120.00	975. 00		150.00	\$238.00	\$548.21
SOIL SAMPLES FROM TEST PITS AND RUSER HOLES	•	\$8.88							\$0.00	\$8.00
SEDIMENT SAMPLES FROM SURFACE WATER	39	\$392.61	\$4,880.80	\$85.00	\$20.00	\$75. 88		\$50. 8∂	\$5, 838. 88	\$5, \$22.61
GROUND-MATER SAMPLES	56	\$788.57	\$7,200.00	\$250.00	940.00	\$150.00		450. 8 0	67, 690. 80	48, 390. 57
SURFACE WATER SAMPLES	38	\$392.6 1	\$3,680.90	\$85.00	\$20.60	\$75.00		\$50.00	\$3,838.00	\$4,222.61
AIR SAMPLES	9	9146.32				160.00		\$19.00	170.00	\$216.32
WASTE SAMPLES	•	10.00							\$0. 00	10.60
11-F CALCULATE FINAL HAS	22	\$394.56			\$150.00	\$150.00		\$20.00	\$329.00	\$714.56
11-6 CONDUCT SITE ASSESSMENT	172	\$2,217.82			\$750.00	1380.00		\$75.00	\$1, 125. 00	\$3, 342.02
11-H PROJECT MANAGEMENT	33	\$529.88	11, 245. 00	6300.00	\$150.00	\$50. 80		\$50.00	\$1,795.00	\$2,324.88
TOTALS	917	\$11,716.05	\$16, 845.89	\$3,705.00	\$1,690.88	42,635. 00	\$8,580.00	\$750.00	934, 915, 98	\$45.731.05





EXPLANATION:

• S1-S10 SURFACE SOIL SAMPLES S11-S20 SHALLOW SUBSURFACE SOIL SAMPLES (ΕΕΕ, 1984)

B1-B5 DEEP SUBSURFACE SOIL SAMPLES
B3 AND B4 ALSO USED FOR COLLECTING
GROUNDWATER SAMPLES (E&E, 1984)

SURFACE WATER SAMPLE (E&E, 1984)

PROPOSED SURFACE WATER SAMPLE
PROPOSED BORING

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

PROPOSED SAMPLING LOCATIONS
CLINTON-BAILEY

APPENDIX A

REFERENCES

Sources Contacted

Documentation

SOURCES CONTACTED FOR CLINTON-BAILEY INVESTIGATION

					•
CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
USEPA Headquarters, Superfund Office	4/2/85	Hamid Saebfed	(202) 382-4839	401 M Street, NW Washington, D.C. 20460	Reviewed list of sites to determine if additional information was available.
USEPA - Region II, OERR	3/22/85	Mel Haup tman	(212) 264-7681	Room 402 26 Federal Plaza New York, NY 10278	General information from site files.
NYSDEC - Division of Solid and Hazardous	12/19/84	Marsden Chen	(51 8) 457 -0639	50 Wolf Road Albany, NY 12233	General information from site files.
NYSDEC - Division of Water	12/19/84	Sal Pagano	(518) 457-6675	50 Wolf Road Albany, NY 12233	Mr. Pagano set up meet- ings with three bureaus within Division of Water.
NYSDEC - Division of Water	12/20/84	Bob Hannaford	(518) 457-6716	50 Wolf Road Albany, NY 12233	Reviewed SPDES Files for permit numbers and conditions.
NYSDEC - Division of Water	12/21/84	George Hansen	(518) 457-2010	50 Wolf Road Albany, NY 12233	Reviewed DMR files for discharge violations.
NYSDEC - Division of Air Toxics	12/21/84	Art Fossa	(518) 457-74 54	50 Wolf Road Albany, NY 12233	Reviewed site list to identify sites with potential air emissions.

SOURCES CONTACTED FOR CLINTON-BAILEY INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Division of Monitoring and Assessment	12/21/84	Bill Berner Frank Estabrook Fred Van Alstyne	(518) 457-7363 (518) 457-7363 (518) 457-7363	50 Wolf Road Albany, NY 12233	Reviewed geology and monitoring information for specific sites.
NYSDEC - Division of Environmental Enforcement	12/20/84	Kevin Walters	(518) 457~4346	50 Wolf Road Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS - Dept. of Law Attorney General's Office	1/7/85	Val Washington	(518) 473-3105	Empire State Plaza Justice Building Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS - Dept of Law Attorney General's Office	1/3/85	Albert Bronson	(716) 847-7196	Buffalo State Office Bldg. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYSDEC - Region 9 Division of Solid and Hazardous Waste	1/7/85	Peter Buechi Ahmad Tayyebi Jack Tygert Larry Clare	(716) 847-4585	600 Delaware Ave. Buffalo, NY 14202	Collected general information from site files.

SOURCES CONTACTED FOR CLINTON-BAILEY INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Region 9 Division of Air	1/8/85	Henry Sandonato Robert Armbrust	(716) 847-4565 (716) 847-4565	600 Delaware Ave. Buffalo, NY 14202	Collected information concerning previous air emissions from inactive disposal sites.
NYSDEC - Regional Attorney	1/10/85	Peter J. Burke	(716) 847-4551	600 Delaware Ave. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS Dept. of Health, Buffalo Region Public Health Engineering	1/8/85	Lou Violanti	(716) 847-4500	584 Delaware Ave. Buffalo, NY 14202	Collected information from site files.
NYSDEC - Region 9 Division of Fish and Wildlife	1/10/85 & 1/11/85	Mike Wilkinson Jim Sneider	(716) 847-4600 (716) 847-4600	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files
Erie County, Division of Environmental Control, Dept. of Environment & Planning	1/10/85	Don Campbell Ron Koczaja	(716) 846-6271 (716) 846-6370	95 Franklin Street Buffalo, NY 14202	Collected information from Erie County site files. Obtained additional information through interview.
Erie County, Division of Economic Development and Planning	4/2/85	Mike Alspaugh	(716) 846-6013	95 Franklin Street Buffalo, NY 14202	Obtained 1980 U.S. Census Data.
Sen-Wel Industries	3/7/85 3/18/85	Michael Hayhurst	(716) 822-0013	1395 Clinton St. P.O. Box 928 Buffalo, NY 14240	Conducted site inspection and reviewed site history.

REFERENCES

- 16. Ecology & Environment International, Phase II Investigation Draft Report, 1984.
- 17. Hayhurst, Michael, Sen-Wel Industries, Personal Communication, 3/7/85.

Clinton-Bailer

NT-210- 5706

(E & E , 1984) REF-16

PHASE 2 FIELD INVESTIGATION REPORT FOR THE PROPOSED NETA BUS GARAGE, CLINTON AND BAILEY STREETS, BUFFALO, NEW YORK

March 30, 1984

Prepared for:

NIAGARA FRONTIER TRANSPORTATION AUTHORITY 191 Ellicott Street

Buffalo, New York 14205

ecology and environment international

CAYMAN INTERNATIONAL TRUST BUILDING, P.O. BOX 500, GEORGETOWN, GRAND CAYMAN,

International Specialists in the Environmental Sciences

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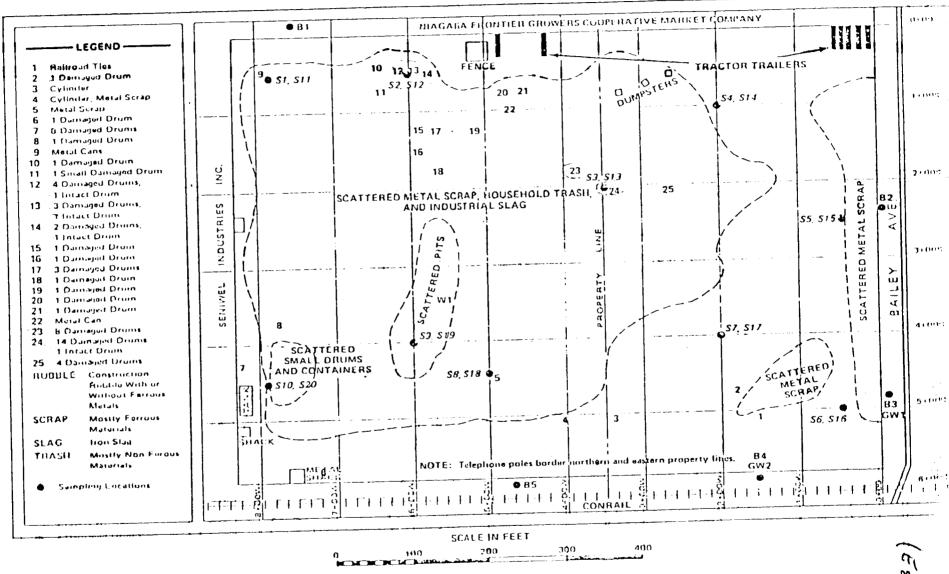


Figure 2-1 SITE PLAN FOR PROPOSED NETA BUS GARAGE SITE (Clinton and Bailey Streets)

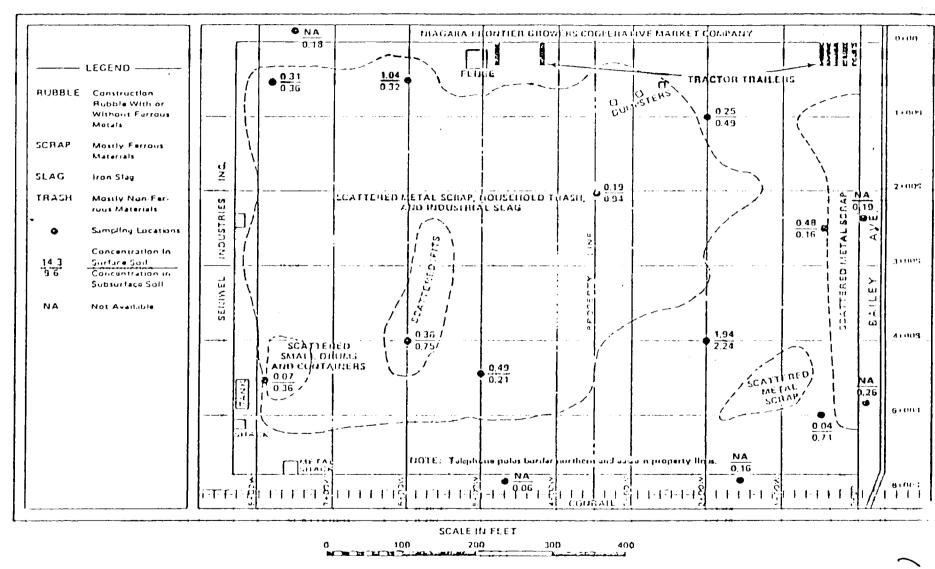


Figure 3-1 TOTAL HALOGENATED ORGANICS AS LINDANE CONCENTRATIONS (ppm) IN SOIL -- PROPOSED NETA BUS GARAGE SITE

ONA

-7:10

MAGARA FILONTIER GHOWERS COOPERATIVE MARKET COMPANY

ARSENIC CONCENTRATIONS (ppm) IN SOIL - PROPOSED NETA BUS GARAGE SITE Figure 3+2

NIAGARA FIONTIER GROWING COOPERA RIVE MARKET COMPANY

DULL STERS

9120

TRACTOR TRAILERS

15500 13800

11400

16300

O NA -17200·

INDUSTRIES

28600

7680

SCATTERED LETAL SCHAP (IOUSEHOLD TRASH

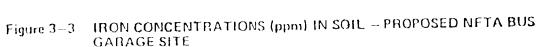
AND INDUSTRIAL SLAG

0.1.0

1+000

2 + 0+13

31003



LEG**END**

Rubble With or

Withour Ferrous Metals

Mostly Ferrous

Mostly Hon-Fer-

Sampling Locations

Concuntration in Surface Sull

Concentration In

Subsurface Soil Not Available

rous Materials

Materials

Iron Slag

RUBBLE Construction

SCRAP

SLAG

THASH

14.3 9.6

NA

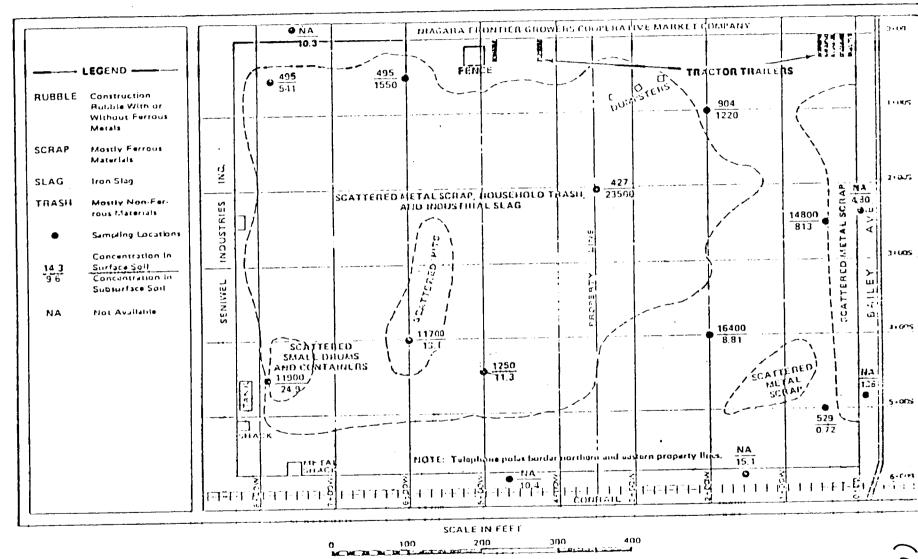


Figure 3-4 LEAD CONCENTRATIONS (ppm) IN SOIL - PROPOSED NFTA BUS GARAGE SITE

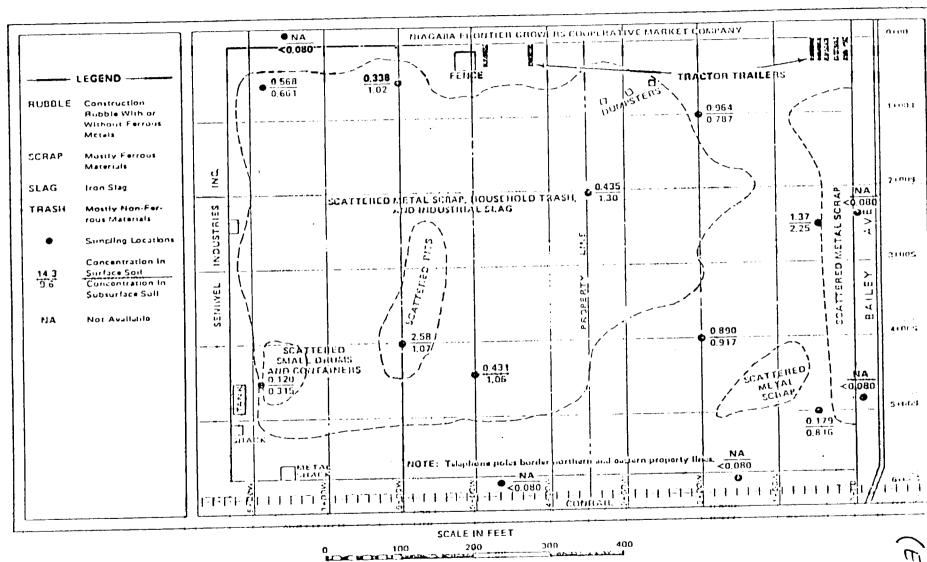


Figure 3+5 MERCURY CONCENTRATIONS (ppm) IN SOIL - PROPOSED NFTA BUS GARAGE SITE

Table 3-1

ANALYTICAL RESULTS FOR WATER SAIPLES

(All results in ppb)

E & E Lab Number 84-	199	235	563
Sample Identity	8–4	8-3	W1 (Surface water)
	0.10	0.14	0.039
	715	111	21.9
	41.3	168	887
	51.5	91.9	63.2
	2.48	3.00	<0.40
		Sample Identity 8-4 0.10 715 41.3 51.5	Sample Identity 8-4 8-3 0.10 715 111 41.3 168 51.5 91.9

< = None detected at the standard detection limits.

Table 4-1
HEAVY METAL CONCENTRATIONS IN SOIL SAPPLES

Compound	Highest Concentration (ppm)	Lowest Concentration (ppm)	Average Concentration (ppm)
Total halogenated organics as lindane	2.24	0.04	0.50
Arsenic	19.5	1.96	11.2
Iron	72,800	7,680	21,400
Lead .	23,500	0.72	3,470
Mercury	2.58	<0.08	0.739

INTERVIEW FORM

ADDRESS PO BOX 928 CITY Prulpic STATE UY ZIP 14240 PHONE 1967 927-0013 RESIDENCE PERIOD TO LOCATION to lo phone INTERVIEWER SO THOMY DATE/TIMES/1765 / 3140 pm SUBJECT: Clinton-Beiley Phase T Site Investigation FEMARKS: Mr. Hayburst furnished the following information: -Son-Wel brught the western half of the Clinton- Beiley site from Eno-lack warmer Rawload (and than five years ago. Thus pancel is adjacent to Son-Wel's current operations; however, it has formand vaiznt, curred wifield grasses & sorub must -According to love bassey the entire area was a large clay guarry, probably used by Buffalo China The City Philiple way have used the site as a dump approximately 20-75 years ago the NFTA investigated the site for construction of a bus Station - they had the right of amineral	INTERVIEWEE/CODE Michael Hayhurst
PHONE (716) 827-0013 RESIDENCE PERIOD TO LOCATION TO LO PHONE INTERVIEWER SO THEORY DATE/TIMES/195 / 3:40 PM SUBJECT: Clinten-Bally Phase T Site Truncistigation PEMARKS: Mr. Haylunst furnished the Idlawing information: - Som-Wel brught the western half of the Clinten- Bally site from Ene-Lackawamme Raulroad (ex) Man five years ago. Thus pancel is adjacent to Sem-Wel's current inperations; however, it has Compared varant, rivered wifield passes & scrub must - According to local hoursey the entire area was a Large Clay guarry, probably used by Bullalo Chuna The City of Bullalo may have used the site as a dump approximately 50-75 years ago - the NFTA investigated the site for construction of a bus station—they had the right of ominant	TITLE - POSITION Prosident Sen-Wel Industries
PHONE 1867 827-0013 RESIDENCE PERIOD TO LOCATION- to be showed INTERVIEWER SO TIFTEMY DATE/TIMES/19/5 / 3:40 PM SUBJECT: Clinton-Beiley Phase T Site Travestigation REMARKS: Mr. Haylunst furnished the lalowing information: - Sen-Web brucht the western half of the Clinton- Bailey site from Ene-Lackawanna Raulroad land than five years ago. This parcel is adjacent to Sen-Web's current apprations; however, it has remained vaiznt, covered while grasses & sorub brush - According to local hoursey" the entire area was a large clay granny probably used by Buffelo China The City of Ruffelo may have used the site as a dump approximately 50-75 years ago - the NFTA investigated the site for construction of a bus Station - they had the right of anniment	ADDRESS PO BUX 928
INTERVIENER SO TIFTEMY DATE/TIMES/1/2/5 /3:40 PM SUBJECT: Clinten-Beiley Phase T Site Investigation REMARKS: Mr. Haylunst furnished the following information: -Son-Wel bright the western half of the Clinten- Beiley site from Eno-lackswamma Railroad land than five years ago. This pancel is adjacent to Sen-Wel's current aperations; however, it has remained vaient, covered wifield gasses & serub brush -According to local boarsay "the entire area was a large clay guarry, probably used by Buffelo China The City of Mulfalo may have used the site as a dump approximately 50-75 years ago -the NFTA investigated the site for construction of a bus station—they had the right of aminent	CITY Rulato STATE UY ZIP 14240
DATE/TIMES/1/2,5 SUBJECT: Clinton-Beiley Phase T Site Investigation PEMARKS: Mr. Haylunst furnished the following information: -Son-Wel brught the western half of the Clinton- Bailey site from Ene-lackawanne Raulroad land than five years ago. Thus parcel is adjacent to Sen-Wel's current characters; however, it has remained varant, owered wifield grasses & serub must -According to local hoursey" the entire area was a large clay guarry, probably used by duffalo China The City of Buffalo may have used the sixt as a dump approximately 50-75 years ago -the NFTA investigated the site for construction of a bus station—they had the right of anniment	The Automotive Control of the Contro
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FEMARKS: Mr. Hayhunst furnished the following information: -Son-Wel brucht the western half of the Clinter- Bailey site from Ene-lackawanna Raulrad land than five years ago. Then parcel is adjacent to Sen-Wel's current operations; however, it has remained vaiznt, covered wifield grasses & serub mush -According to "local hoursey" the entire area was a large clay guarry, probably used by Buffalo China The City of Buffalo may have used the site as a dump approximately 50-75 years ago the NFTA investigated the site for construction of a but Station - they had the right of arminent	SUBJECT: Clinton-Bailey Phase T Site Investigation
Common title taget of the service of	FEMARKS: Mr. Hayhunst furnished the Julianing information: - Son-Wel brught the western half of the Clinter- Bailey site from Ene-Lackrumme Raulroad land - Than five years ago. Thus parcel is adjacent to Sen-Wel's current operations: however, it has remained vaiznet, covered wifield grasses a serub brugh - According to local boarsay." The entire area was a large clay guarry, probably used by Buffalo China The City of Buffalo may have used the site as a dump approximately 50-75 years ago - the NFTA investigated the site for construction of a
	I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:	SIGNATURE:
	COMMENTS:
SIGNATUR E :	
SIGNATUR E :	

APPENDIX B
PROPOSED UPDATED NYS REGISTRY SHEET

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE. INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 915126

NAME OF SITE : Clinton-Bailey

STREET ADDRESS: Clinton St. and Balley Ave.

TOWN/CITY:

COUNTY:

Erie

ZIP:

Buffalo

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-ESTIMATED SIZE: 11.7 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....! Senwell Industrial & Norfolk So. Cor

CURRENT OWNER ADDRESS. 1 1396 Clington St. Buffalo. NY 14240

OWNER(S) DURING USE ...: unknown OPERATOR DURING USE ...: unknown

OPERATOR ADDRESS.....

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From unknown

To unknown

SITE DESCRIPTION:

A vacant Lot fronting Bailey Avenue between Niagara Frontier growers cooperative onthe north and Corrail property on the south. Disposal of drums containing unknown material first noted in March 1984. Preliminary investigation conducted by potential purchaser of the site. Investigation reveated elevated tevets of lead & mercury in the soils on site. Groundwater from test wells on site contained levels of arsenic, mercury and lead above state groundwater standards.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected

IYPE

GUANTITY (units)

fill material onsite contains heavy metals unknown

SITE CODE: 915126

ANALYTICAL DATA AVAILABLE:

Air- Surface Water-X Groundwater-X Soil-X Sediment- None-

CONTRAVENTION OF STANDARDS:

Groundwater-X Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: none X State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed -- Under Design- In Progress- Completed-

NATURE OF ACTION: none

GEOTECHNICAL INFORMATION:

SOIL TYPE: Sandy loam

GROUNDWATER DEPTH: Unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Soils and groundwater on site contaminated with heavy metals. Further investigation required to determine full extent of contamination on site

as well as migration off site.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF NEW YORK STATE DEPARTMENT

ENVIRONMENTAL CONSERVATION OF HEALTH

NAME.: John W. Hyden NAME.: R. Tramontano

TITLE: Sr. Sanitary Engineer TITLE: Bur. Tox. Subst. Assess.

NAME.: Peter Buechi
TITLE: Assoc. Sanitary Engineer
TITLE:

DATE:: 01/25/85 DATE:: 01/25/85