9141225

TX 01023

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION	SITE NUMBER (to be assigned by Hq)
VI	TXO 1023

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (*Section II*). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION TXD 008017261

A. SITE NAME	B. STREET (or other identifier)		
AMERICAN CYANAMID	600 N. Jones		
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
Fort Worth	TX	76106	Tarrant

G. SITE OPERATOR INFORMATION

1. NAME	2. TELEPHONE NUMBER		
American Cyanamid (Albert W. Hoff, Plant Manager)	(817)332-2127		
3. STREET	**4. CITY**	**5. STATE**	**6. ZIP CODE**
600 N. Jones	Fort Worth	TX	76106

H. REALTY OWNER INFORMATION (*if different from operator of site*)

1. NAME	2. TELEPHONE NUMBER		
American Cyanamid	(201)831-2000		
3. CITY	**4. STATE**	**5. ZIP CODE**	
Wayne X-Ref SA Vol #1	NJ	07470	

I. SITE DESCRIPTION

34 acres including plant north of downtown Fort Worth, immediately west of levee of Trinity River.

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

SUPERFUND FILE

II. TENTATIVE DISPOSITION (*complete this section last*)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (*mo., day, & yr.*)

B. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4. NONE

JUL 30 1992

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
David R. Anderson	(214)742-6601	7/30/80

REORGANIZED

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	
Bob Hiller	Civil Engineer	
3. ORGANIZATION	**4. TELEPHONE NO.** (*area code & no.*)	
EPA, Region VI, Dallas Office	(214)767-2724	

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Bob Hiller	EPA Region VI, Dallas, TX	(214) 767-2724
David Anderson	Ecology & Environment, Inc., Dallas, TX	(214) 742-6601

C. SITE REPRESENTATIVES INTERVIEWED (*corporate officials, workers, residents*)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
Albert W. Hoff	Plant Manager (817) 332-2127	American Cyanamid, 600 N. Jones Fort Worth, TX
Gilbert Loudermilk	Safety Engineer (817) 332-2727	American Cyanamid, 600 N. Jones Fort Worth, TX
Richard B. Tabakin	Coordinator, Environmental Science (201) 831-3996	American Cyanamid Industrial Chemical Division, Wayne, NJ
George Carlton	Attorney (214) 742-4422	Maxwell, BEnnett, Thomas & Maxwell Dallas, Texas

REVIEWED BY (6ASASC): Karen Solomon 8-6-80

Continued From Front

III. INSPECTION INFORMATION *(continued)*

D. GENERATOR INFORMATION *(sources of waste)*

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Self Generated			

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Sonics International	(214)631-4411	Ranger, Texas (Main Office, Dallas, TX)	
Crow & Son	(817)237-4178	Farm Road 1886, Fort Worth, TX	

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
Sonics International	(214)631-4411	Ranger, Texas (Main Office, Dallas, TX)
Crow & Son	(817)237-4178	Farm Road 1886, Fort Worth, TX

G. DATE OF INSPECTION *(mo., day, & yr.)*	H. TIME OF INSPECTION	I. ACCESS GAINED BY: *(credentials must be shown in all cases)*
7/30/80	1050-1530	XX 1. PERMISSION ☐ 2. WARRANT

J. WEATHER *(describe)*

Clear and Hot

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN *(mark 'X')*	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER (waste pond)	X	EPA Lab Houston	
c. WASTE	X	EPA Lab Houston	
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL	X	EPA Lab Houston	
h. VEGETATION			
i. OTHER *(specify)*			

B. FIELD MEASUREMENTS TAKEN *(e.g., radioactivity, explosivity, PH, etc.)*

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
None		

Continued From Page 2

IV. SAMPLING INFORMATION *(continued)*

C. PHOTOS

1. TYPE OF PHOTOS
   - [XX] a. GROUND
   - [ ] b. AERIAL
2. PHOTOS IN CUSTODY OF: Bob Hiller, Dallas EPA

D. SITE MAPPED?

[XX] YES. SPECIFY LOCATION OF MAPS: Bob Hiller, Dallas EPA

E. COORDINATES

1. LATITUDE *(deg.-min.-sec.)*: 32° 46' 10"
2. LONGITUDE *(deg.-min.-sec.)*: 97°20'05"

V. SITE INFORMATION

A. SITE STATUS

- [XX] 1. ACTIVE *(Those inductrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)*
- [ ] 2. INACTIVE *(Those sites which no longer receive wastes.)*
- [ ] 3. OTHER *(specify)*: _____ *(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)*

B. IS GENERATOR ON SITE?

- [ ] 1. NO
- [XX] 2. YES *(specify generator's four-digit SIC Code)*: 28 19

C. AREA OF SITE *(in acres)*: 34 acres

D. ARE THERE BUILDINGS ON THE SITE?

- [ ] 1. NO
- [XX] 2. YES *(specify)*: 14 Buildings located in plant proper and to provide support.

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity*(ies)* and details relating to each activity by marking 'X' in the appropriate boxes.

'X'	A. TRANSPORTER	'X'	B. STORER	'X'	C. TREATER	'X'	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP	X	2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER *(specify)*: None	X	6. OTHER *(specify)*: There are also 3 storage pits which have not been used for approx. 15 years. They are currently covered w/dirt & grass.		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER *(specify)*: See Section IIIF.
				X	9. OTHER *(specify)*: Neutralize and settle.		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

- [ ] 1. STORAGE
- [ ] 2. INCINERATION
- [ ] 3. LANDFILL
- [X] 4. SURFACE IMPOUNDMENT
- [ ] 5. DEEP WELL
- [ ] 6. CHEM/BIO/PHYS TREATMENT
- [ ] 7. LANDFARM
- [ ] 8. OPEN DUMP
- [ ] 9. TRANSPORTER
- [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

- [X] 1. LIQUID
- [X] 2. SOLID
- [ ] 3. SLUDGE
- [ ] 4. GAS

B. WASTE CHARACTERISTICS

- [ ] 1. CORROSIVE
- [ ] 2. IGNITABLE
- [ ] 3. RADIOACTIVE
- [ ] 4. HIGHLY VOLATILE
- [ ] 5. TOXIC
- [ ] 6. REACTIVE
- [X] 7. INERT
- [ ] 8. FLAMMABLE
- [ ] 9. OTHER *(specify)*:

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below. Manifests of materials picked up by Sonics and Crow & Son available on Texas Waste Shipment Summary Reports.

Continue On Reverse

Continued From Front

V. WASTE RELATED INFORMATION *(continued)*

2. Estimate the amount *(specify unit of measure)* of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT None	AMOUNT None	AMOUNT None	AMOUNT Unknown	AMOUNT Unknown	AMOUNT Unknown
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
X (1) PAINT, PIGMENTS	X (1) OILY WASTES	X (1) HALOGENATED SOLVENTS	X (1) ACIDS	X (1) FLYASH	X (1) LABORATORY, PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER *(specify)*:	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER *(specify)*:	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
(5) OTHER *(specify)*:			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	X (5) OTHER *(specify)*: Copper-Ammonia Solution
			(6) CYANIDE	X (6) OTHER *(specify)*: Sodium Sulfate Alumina Silica	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER *(specify)*:		

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE *(place in descending order of hazard)*

1. SUBSTANCE	2. FORM *(mark 'X')*			3. TOXICITY *(mark 'X')*				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Sodium Sulfate	X					X		007757826		
Copper Ammonia Solutions		X				X		007440508Cu 001336216NH_3		
Alumina	X					X		001344281		
Silica	X					X		007631869		

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☐ A. HUMAN HEALTH HAZARDS

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VIII. HAZARD DESCRIPTION *(continued)*

☐ B. NON-WORKER INJURY/EXPOSURE

☐ C. WORKER INJURY/EXPOSURE

☐ D. CONTAMINATION OF WATER SUPPLY

☐ E. CONTAMINATION OF FOOD CHAIN

☐ F. CONTAMINATION OF GROUND WATER

☐ G. CONTAMINATION OF SURFACE WATER

 Continue On Reverse

Continued From Front

VIII. HAZARD DESCRIPTION *(continued)*

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☐ K. NOTICEABLE ODORS

☐ L. CONTAMINATION OF SOIL

☐ M. PROPERTY DAMAGE

Continue On Page 7

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VIII. HAZARD DESCRIPTION *(continued)*

☐ N. FIRE OR EXPLOSION

☒ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

Open ditches to transport waste effluent to neutralization pit. Plant originally constructed in this manner.

☒ P. SEWER, STORM DRAIN PROBLEMS

Plant site collects large amounts of run off from surrounding area. Normal run off is treated as effluent and enters Fort Worth sewage system. Large rain run off that is affecting plant is pumped into Trinity River to prevent plant flooding.

☐ Q. EROSION PROBLEMS

☐ R. INADEQUATE SECURITY

☐ S. INCOMPATIBLE WASTES

 Continue On Reverse

VIII. HAZARD DESCRIPTION *(continued)*

☐ T. MIDNIGHT DUMPING

☐ U. OTHER *(specify)*:

IX. POPULATION DIRECTLY AFFECTED BY SITE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA 1 mile	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE *(specify units)*
1. IN RESIDENTIAL AREAS	Some residential use across river and NW of plant.			
2. IN COMMERCIAL OR INDUSTRIAL AREAS	Moderately heavy commercial and industrial area.			
3. IN PUBLICLY TRAVELLED AREAS	North Main St. approx. 300 yards west.			
4. PUBLIC USE AREAS *(parks, schools, etc.)*	Downtown Fort Worth approx. 1 mile south.			

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER *(specify unit)*	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
Greater than 25 ft.	Unknown	None
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY** *(specify unit of measure)*	**F. DIRECTION TO DRINKING WATER SUPPLY**
Unknown	Approx. 6 miles	West

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS

☒ 2. COMMUNITY *(specify town)*: > 15 CONNECTIONS Fort Worth

☒ 3. SURFACE WATER

☐ 4. WELL

Continue On Page 9

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X. WATER AND HYDROLOGICAL DATA *(continued)*

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH *(specify unit)*	3. LOCATION *(proximity to population/buildings)*	4. NON-COMMUNITY *(mark 'X')*	5. COMMUNITY *(mark 'X')*
NONE				

I. RECEIVING WATER

1. NAME

[XX] 2. SEWERS [XX] 3. STREAMS/RIVERS

[ ] 4. LAKES/RESERVOIRS [ ] 5. OTHER *(specify)*:

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Fort Worth Sewer System receives treated effluent water.
Trinity River receives rain run off

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

[ ] A. KNOWN FAULT ZONE [ ] B. KARST ZONE [ ] C. 100 YEAR FLOOD PLAIN [ ] D. WETLAND

[ ] E. A REGULATED FLOODWAY [ ] F. CRITICAL HABITAT [ ] G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK *(specify below)*	'X'	C. OTHER *(specify below)*
X	1. SAND	X	Limestone		
X	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

[ ] A. UNKNOWN [ ] B. VERY HIGH *(100,000 to 1000 cm/sec.)* [ ] C. HIGH *(1000 to 10 cm/sec.)*

[ ] D. MODERATE *(10 to .1 cm/sec.)* [ ] E. LOW *(.1 to .001 cm/sec.)* [X] F. VERY LOW *(.001 to .00001 cm/sec.)* approx. 10^{-9}

G. RECHARGE AREA

[ ] 1. YES [X] 2. NO 3. COMMENTS:

H. DISCHARGE AREA

[ ] 1. YES [X] 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE: 0%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: N/A

J. OTHER GEOLOGICAL DATA

 Continue On Reverse

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X') 1. YES	2. NO	3. UNKNOWN
Waste Water Discharge	City of Ft.Worth	69	10/18/79		X		
Solid waste storage, Processing Disposal	EPA Facility	TXD008017261	In process	of applying	& issuance.		
Solid Waste	Texas Water Quality	20335	10/17/73				
Ammended of Above	"	30023	10/11/78				
Plant Equipment	Texas Air Quality	C56 3660	6/7/78 10/14/76				
Permits	"	R1457 R393	5/14/74 4/12/73				

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

[XX] NONE [ ] YES *(summarize in this space)*

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

SURFACE IMPOUNDMENTS SITE INSPECTION REPORT
(Supplemental Report)

INSTRUCTION
Answer and Explain as Necessary.

1. TYPE OF IMPOUNDMENT
Earth Dike

2. STABILITY/CONDITION OF EMBANKMENTS
Good

3. EVIDENCE OF SITE INSTABILITY *(Erosion, Settling, Sink Holes, etc.)*
☐ YES ☒ NO

4. EVIDENCE OF DISPOSAL OF IGNITABLE OR REACTIVE WASTE
☐ YES ☒ NO

5. ONLY COMPATIBLE WASTES ARE STORED OR DISPOSED OF IN THE IMPOUNDMENT
☒ YES ☐ NO

6. RECORDS CHECKED FOR CONTENTS AND LOCATION OF EACH SURFACE IMPOUNDMENT
☒ YES ☐ NO

7. IMPOUNDMENT HAS LINER SYSTEM
☒ YES ☐ NO Clay Lined

7a. INTEGRITY OF LINER SYSTEM CHECKED
☐ YES ☒ NO

7b. FINDINGS

8. SOIL STRUCTURE AND SUBSTRUCTURE
Clay-sand topsoil, limestone bedrock

9. MONITORING WELLS
☒ YES ☐ NO 2 on property

10. LENGTH, WIDTH, AND DEPTH
LENGTH 75ft. WIDTH 50ft DEPTH Approx. 10 ft. (2 on site)

11. CALCULATED VOLUMETRIC CAPACITY
280,000 gal.

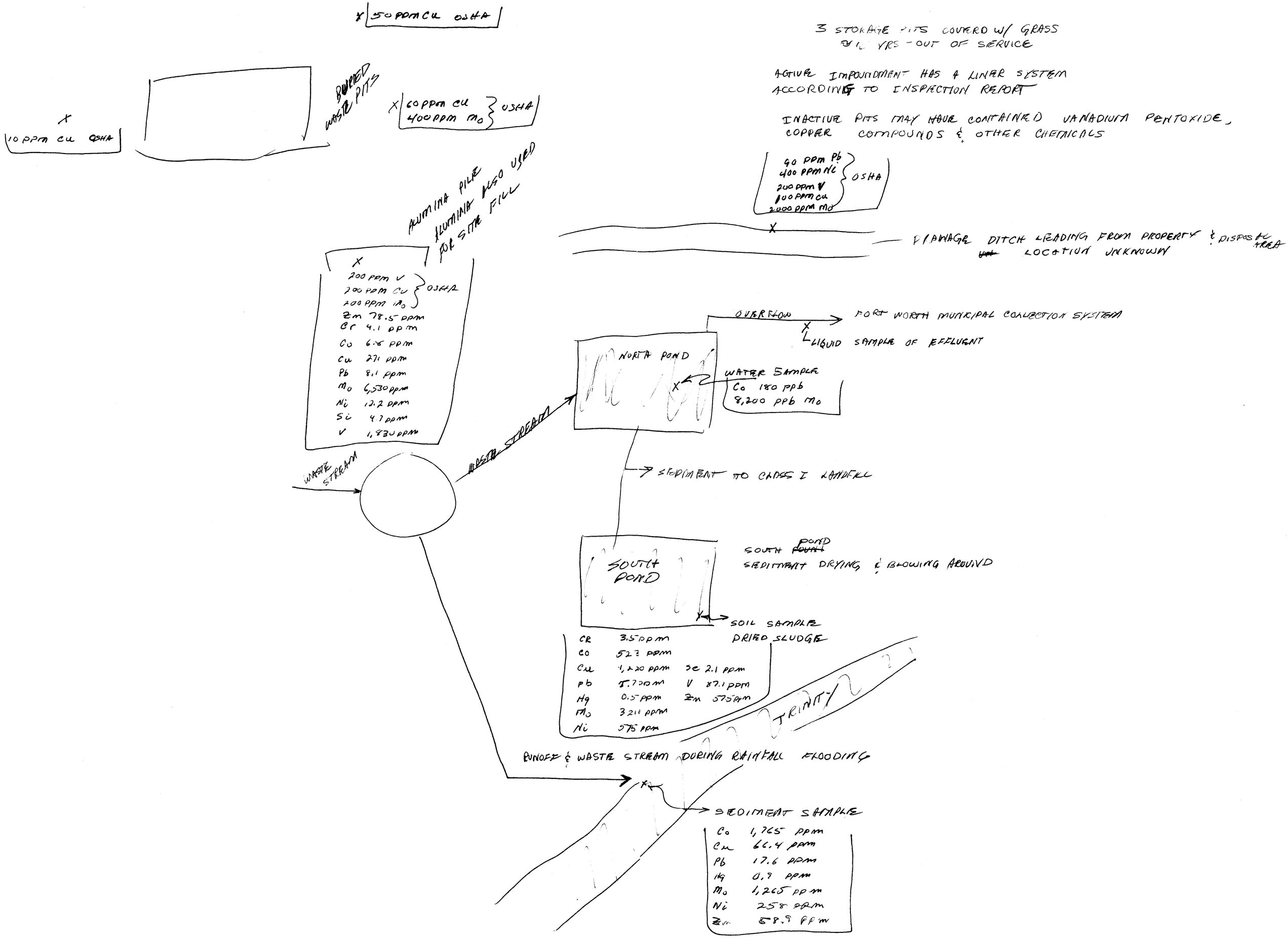
12. PERCENT OF CAPACITY REMAINING
Greater than 50%

13. ESTIMATE FREEBOARD
5 ft.

14. SOLIDS DEPOSITION
XX YES ☐ NO

15. DREDGING DISPOSAL METHOD
Front end loader & then transported from site by truck.

16. OTHER EQUIPMENT


X 50 ppm Cu OSHA
3 STORAGE PITS COVERED W/ GRASS
≈ 10 YRS - OUT OF SERVICE
ACTIVE IMPOUNDMENT HAS A LINER SYSTEM
ACCORDING TO INSPECTION REPORT
INACTIVE PITS MAY HAVE CONTAINED VANADIUM PENTOXIDE, COPPER COMPOUNDS & OTHER CHEMICALS
BURIED WASTE PITS
X
10 ppm Cu OSHA
X
60 ppm Cu
400 ppm Mo
OSHA
60 ppm Pb
400 ppm Ni
200 ppm V
100 ppm Cu
2000 ppm Mo
OSHA
DRAINAGE DITCH LEADING FROM PROPERTY & DISPOSAL AREA
LOCATION UNKNOWN
ALUMINA PILE
ALUMINA USED FOR SITE FILL
X
200 ppm V
200 ppm Cu
200 ppm Mo
OSHA
Zn 78.5 ppm
Cr 4.1 ppm
Co 6.5 ppm
Cu 27.1 ppm
Pb 8.1 ppm
Mo 6,530 ppm
Ni 12.2 ppm
Si 4.7 ppm
V 1,830 ppm
OVERFLOW
FORT WORTH MUNICIPAL COLLECTION SYSTEM
X
LIQUID SAMPLE OF EFFLUENT
NORTH POND
X
WATER SAMPLE
Co 180 ppb
8,200 ppb Mo
WASTE STREAM
WASTE STREAM
SEDIMENT TO CLASS I LANDFILL
SOUTH POND
SOUTH POND
SEDIMENT DRYING & BLOWING AROUND
X
SOIL SAMPLE
DRIED SLUDGE
Cr 3.5 ppm
Co 523 ppm
Cu 1,220 ppm
Se 2.1 ppm
Pb 1,700 ppm
V 87.1 ppm
Hg 0.5 ppm
Zn 575 ppm
Mo 3,211 ppm
Ni 575 ppm
TRINITY
RUNOFF & WASTE STREAM DURING RAINFALL FLOODING
X
SEDIMENT SAMPLE
Co 1,765 ppm
Cu 66.4 ppm
Pb 17.6 ppm
Hg 0.9 ppm
Mo 1,265 ppm
Ni 258 ppm
Zn 58.9 ppm