ATTACHMENT C

VISUAL SITE INSPECTION FIELD NOTES

33

7/15/91 -

Site Inspection Ferro Chemical
7050 Krick Rd. Bedford Ohio

9:20 - Onsite + Meet with
Ferro Personnel
Ed. Sussenguth + S. [illegible]
representing PRC-EMI
Ferro Personnel during
Inspection:
Leonard S. [illegible]
Steve [illegible]
[illegible]

9:20 Meeting: Items discussed
- Purpose of inspection

30) 81 5 19

- Site Map available
- Polymer additatives plant

Employees - 150 people
Research, analytical +
Technical service work.

Site within Kirk Rd Industrial
Park - Industrial Area

Site - 15 Planes - site
[illegible] w/ 24 hour security
+ [illegible] fencing

Tenant in operation since
purchase [illegible] Chas. Lyon
(paint dryer market

81 5 19

Also manuf. stabilizers for
PVC. Ferro continued this
stabilizer manuf. [illegible]
acquired property in
1940's out of drying
operation in early 60's to
70's.

- Sensitive facility
built in 1972 - 1973.

[illegible] of property [illegible]
[illegible] property [illegible] the
[illegible] (near main [illegible])

Ecology Manuf 7-79

Poly laminal - area of buried drums - 1990-91 - not yet in operation (S. West side of plant)

Borders to Site:

South = Lorandex - subsidiary of [illegible] Bldg. Products Corp (Wilson)

North - Hobel [illegible] Corp - Solvent reclaiming Corp

Remainder of Park is lt. industry (roofing, constr.

East

Evergreen (formerly Eriewaly) - waste Manager (Contractor)

Toppolls - Batch plant for Cement

Closest residential - is approx 1/2 - 1 mi from facility.

+ 24 hour security on operational property

+ 3 shifts per day shifts + 7 days per wk - shutdown to 5 days per wk.

* Outfall to Tinkers Creek on West side of ~~[illegible]~~ property

* Storm water runoff presently goes to buffered interceptor prior to discharge to Mill Run - Tinkers Creek Tributary

Tank Farm

* Diked areas Stormwater goes to waste treatment & discharged to Sanitary Sewer

Farm

* Process water goes to Sanitary Sewer

- Regional Storm water goes to Southerly WWT plant

Prior to 6-7 years ago it went to Walton Hills WWT - Now Closed

Pretreatment Process

1) Epoxy Wave Treatment

Wave water - Ocean - neutralized w/ lime + then discharged to sewer - Some oil/water separation w/ buffer tank.

(41)

- Soybean oil + ~~H_2SO_4~~ H_2SO_4

2) Liquids Waste Treatment

Collect wastewater - removes oil + organics (skimming or API separator) raise pH w/ sulphur (IV) then precipitate out heavy metal → filter metals - discharge to sewer

Sludge - is drummed + disposed of through a waste disposal handler

2 - types of waste generated

Epoxy waste (skimmed oil) - goes to northeast chemical - considered non-haz

+ ~~Heavy metal~~ sludge

- average generation is 200 g/month

Heavy Metals Sludge

- Michigan Disposal Inc.

- 15 cu yds every 2 months are generated

Zinc, Barium, Cadmium, Bicarb

3. Patch Pre-treatment:

- Oxidation of [illegible] done in Epoxy area

Waste water goes to Metal area.

3. Fine Organics:

Organic based plastic stabilizers - phenolics (phenolic substitute)
(ie) UV stabilizers, (Anti-microbial product/not presently being manufactured)

Waste + Management:

- Turbine residue from internal solvent reclaiming residue.
- Solvents
- filters used + remove to crystallization removal.
drums

+ disposed of to Northeast Chemical.

Considered hazardous w/ residue of flammable solvents w/ gives it its BTU [illegible]

+ Hexane, Naphthalene are solvents used

Poly Neck
- Trade name for stabilizer.
- Powder + liquid plastic stabilizer [illegible]

(45)

Powder Dept
- Makes solid form of heavy metal soaps (used for thermal abilities in plastics).
= Metalic stabilizers

Liquid Dept
Makes liquid stabilizers = Metalic stabilizers.

R+D Labs
- Development of new products. GC/MS capacitors

(46)

Technical Services + Pilot Plant
do some testing of plastics + polymers

Polyamine Dept.
- Not yet in service. Will manuf. products for oil well drilling - corrosion inhibitor.
- Area where drums were buried - formerly wooded.

Accumulation Area
- Approx 6 Satellite area (accum.)

Areas of Closed Tanks
- Closure by Concrete in place

Details of Spills:
Epoxy Area:
March 29, 1979 - over pressurization of stm of a reactor. Area was just put into service

1981 Oil Spill no info
1982 - Phenol Sp. - No info.

Air Permits:
- registration status

* 20-25 Process air permits for facility

- 15 S onsite

- One (1) outfall onsite to Mill Run

Drum Area (Drum [illegible])
Under CERCLA not [illegible] due to age of drum.

#5 [illegible]

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21-5-91

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PVC - Ferro continued this
stabilizer Manuf. - Ferro
required property in
1940's. Out of drying
operation in early 60's to
70's.

- Tin Organics facility
built in 1975 - 1978.

[illegible] property [illegible]
[illegible] the [illegible]
property and only the
[illegible] main [illegible])

Ex. Ry. Manuf. 7-79

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* Storm water runoff presently goes to baffled interceptor prior to discharge to Mill Run - Tinkers Creek Tributary

Sink Farm

* Dried areas Stormwater goes to waste treatment & discharged to Sanitary Sewers

* Process, storm water goes to Sanitary Sewer

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- Soybean Oil + ~~H_2SO_4~~ H_2SO_4

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- Michigan disposal inc.

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Zinc, Barium, Cadmium, Bronze

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Drum Area (Drum Area)
Under CERCLA not RCRA due to age of drum.

#5 [illegible]

[illegible]

Liquid + Nickels - Satellite area

(A) Filter Cake - DC06

Process filtration of final product
accumulation only
55g drum of cake
photo = 1

- Drums are properly
labeled - [illegible]
[illegible]
only [illegible] at [illegible]
[illegible]

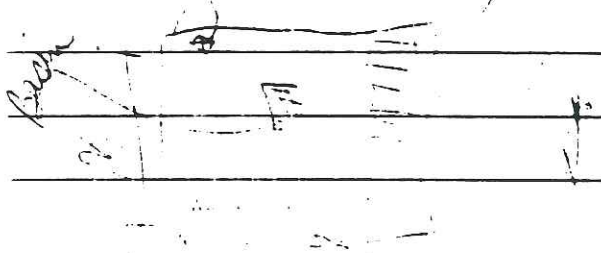
trench adj. to drum
drain to W.W.T.

B. Sat. Area Cadmium,
Barrium + Lead - 55g
drum - floor sweep [illegible]
Liquid - [illegible] area of plant
1-55g drum labeled as
Haz. Waste - SOLIDS

C. Drum Storage Area
former area of LISTS
concrete filled in place.
Concrete floor [illegible]
industrial [illegible]
[illegible] area [illegible]
drainage [illegible] the [illegible]
[illegible] - slight [illegible]
[illegible] [illegible] [illegible]

basin. Drains into an industrial sanitary sewer. See photos.

Area size ≈ 40' x 80'
area secured between 3 bldg walls on E, [illegible] & a fence on the north.
Area unlocked when we were onsite. Gauges signs posted. - Would [illegible] some [illegible] on [illegible] - [illegible]
Drainage [illegible] - [illegible]



D. Tank Car Unloading Area - dock (Bentonite [illegible]) flow goes into a WWT.

E. Waste Water Pretreatment
Concrete Surround (Containment) size 60' x 40' (EW)
Concrete floor. Some staining - See photo
Epoxy waste drum [illegible] - Epoxy waste [illegible]

F. [illegible]
[illegible]
[illegible]
[illegible]

G Outfall to Mill Run
(Timber Creek)
- Oily-like sheen in
interceptors (2). Also
presence of [illegible] organic
material (grass, leaves)
A oil boom was in
place in the interceptor
High discharge
Discharge on average -

[illegible] gallon
oil [illegible] out [illegible]
air [illegible] by [illegible]
2 stacks
[illegible] substance [illegible]
[illegible]
[illegible]

[illegible] also notes
it is stormwater runoff
(facility spill [illegible])
[illegible] of [illegible]
[illegible] - No Flow

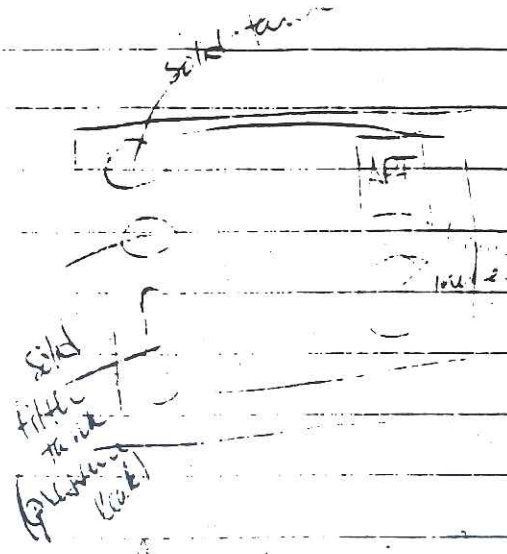
(H) Dust Collection Unit
from polyshock area
[illegible] - See [illegible]
- Unit used from 197[illegible]
unknown
Solid Waste - [illegible]
Barium ([illegible])
generated.
Unit generated - [illegible]
[illegible]

E Waste Oil Drum Area

Present 4-55g drums from Machines.

Managed in drums & faced off ~~[illegible]~~ site for recycling.

Generate 6-55g months



J Waste Water Treatment

Solid [illegible]

AC [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Concrete [illegible]

drainage [illegible]

[illegible]

[illegible]

Temporary [illegible]

[illegible]

[illegible]

[illegible]

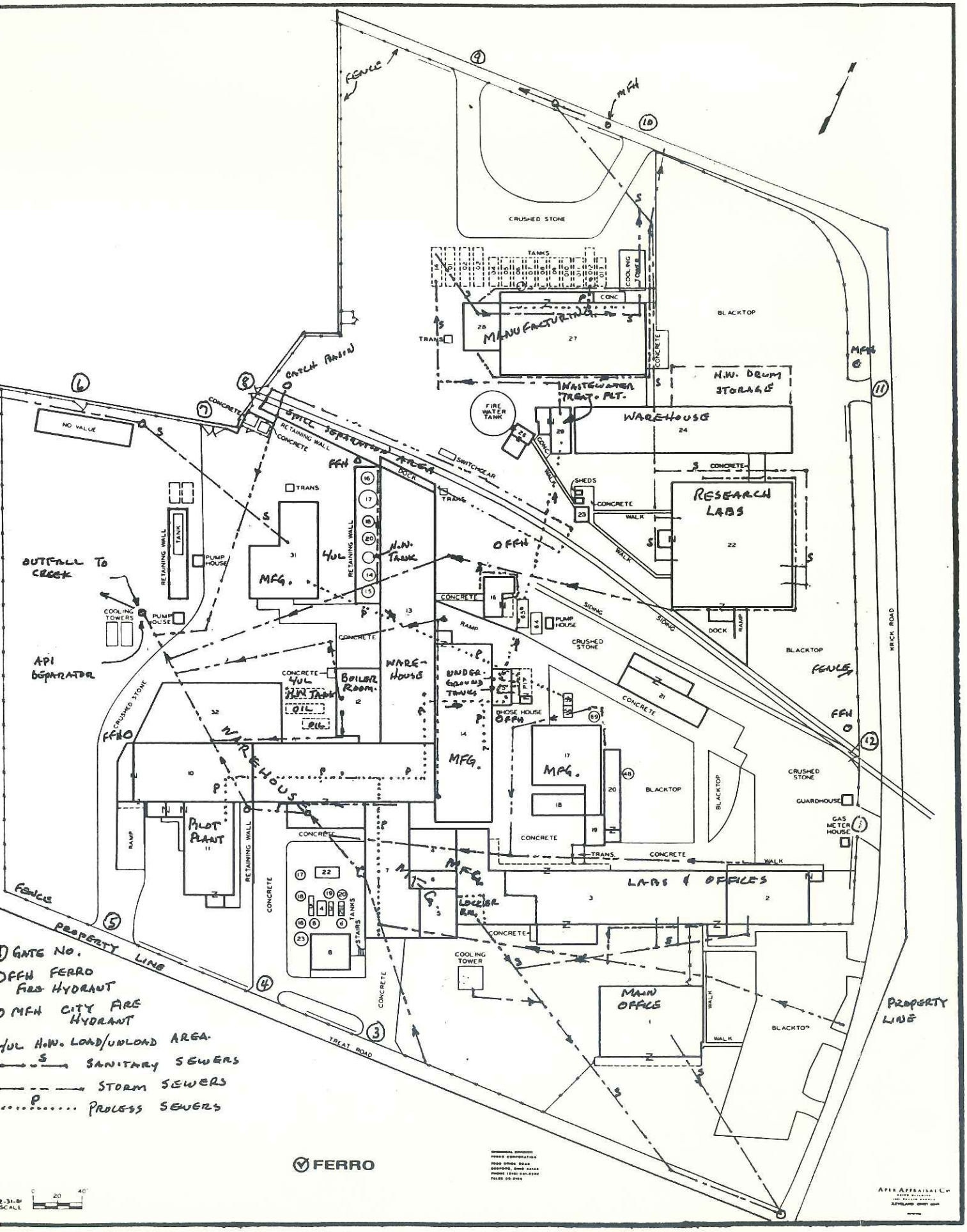


Figure 5. Plant Map 100 ft/inch (APEX)

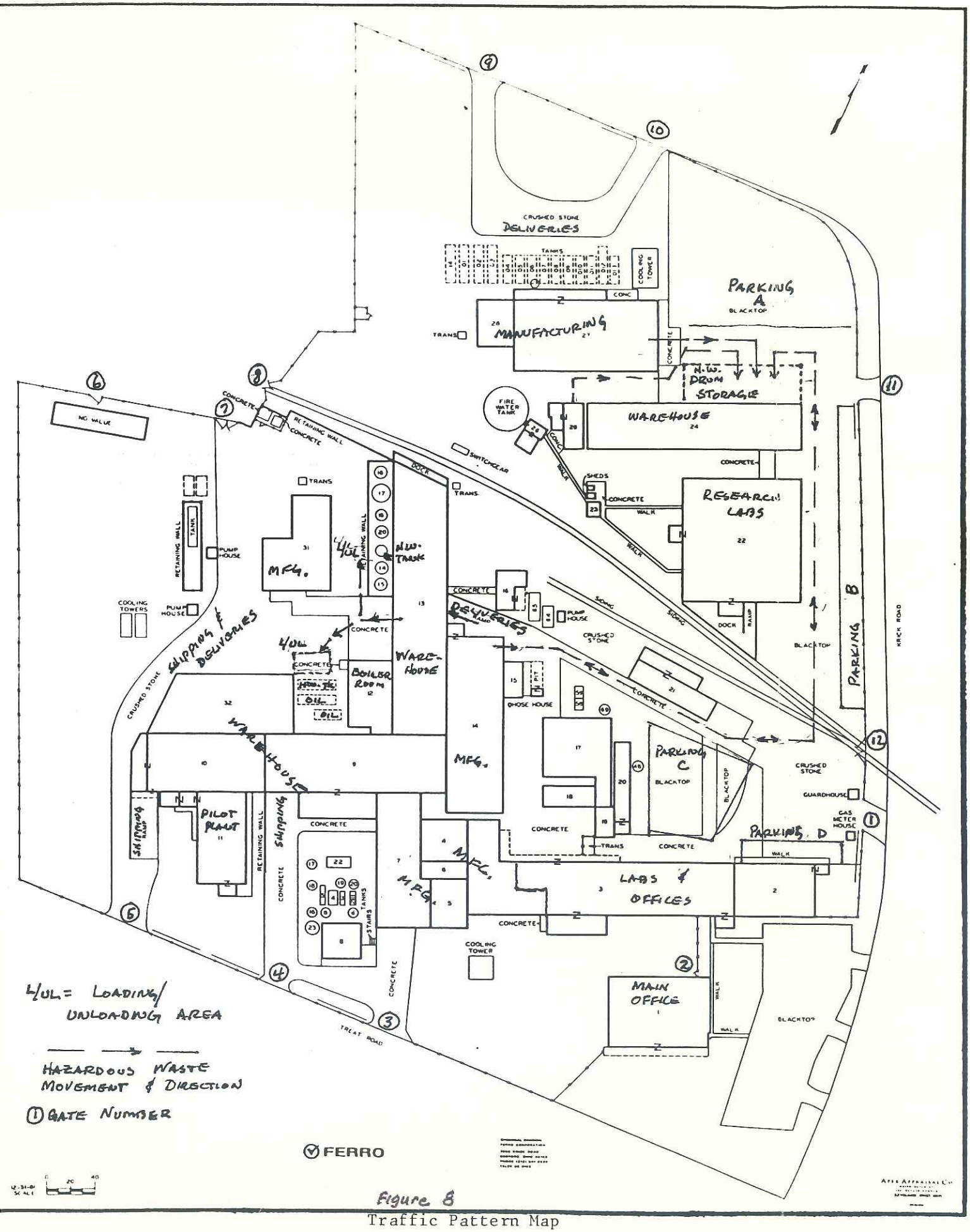


Figure 8

Traffic Pattern Map

Photograph No. 8
Orientation: Northwest
Description: Two holding tanks and neutralization tank shown.

Location: SWMU 7
Date: August 14, 1991