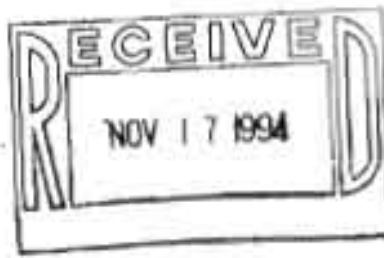


PGDP



KY/B-262
Addendum 1
Volume 1
Revision 1

PADUCAH GASEOUS DIFFUSION PLANT

MARTIN MARIETTA

PRELIMINARY ASSESSMENT

PADUCAH GASEOUS DIFFUSION PLANT
SOLID WASTE MANAGEMENT UNITS

Donald M. Ulrich

December 1991

LB-09905-0164

MANAGED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

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Addendum 1

Volume 1

Revision 1

PRELIMINARY ASSESSMENT
PADUCAH GASEOUS DIFFUSION PLANT
SOLID WASTE MANAGEMENT UNITS

Donald M. Ulrich

Environmental Restoration
Environmental, Safety and Health

Prepared by the
Paducah Gaseous Diffusion Plant
Paducah, Kentucky 42001
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U. S. DEPARTMENT OF ENERGY
Under Contract No. DE-AC05-760R00001

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* SWMU Assessment Report Revised 12/6/91

REPORT CONTENTS

This report consists of a description of each unit including its approximate location, size, status, and information concerning the types and amounts of waste (if known) associated with the unit, and a description of releases or documentation of no release, if available. Following the description is a color photograph of the unit. Each unit is numbered. The unit is identified by number on the enclosed maps.

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UNIT NUMBER SWMU 97

UNIT NAME C-601 Diesel Spill

REGULATORY STATUS: AOC (CERCLA)

LOCATION: East Side of C-600

APPROXIMATE DIMENSIONS: Unknown

FUNCTION: Diesel fuel storage tank

OPERATIONAL STATUS: Active

DATES OPERATED: 1951 - present

SITE/PROCESS DESCRIPTION: Storage tanks for storage of fuel oil

WASTE DESCRIPTION: Diesel fuel constituents were observed in soils during the Phase II investigation

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: On March 9, 1979 a spill of approximately 17,000 gal. of no. 2 fuel oil occurred at the C-601 fuel oil tank, area. Refer to the Phase II report for concentrations of contaminants in the soil.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

This unit underwent a prioritized RFI under the CERCLA ACO. It was determined that it was not a source of Off-site contamination. However, Polycyclic Aromatic hydrocarbons were detected at up to 8 parts per million from the Phase II Site Investigation under an Administrative Consent Order. PCB was detected in a sample at less than one part per million. See the Phase II Investigation Report for additional details. This unit will be further addressed with WAG 9 in accordance with the RFI schedule outlined in the HSWA Permit.



SWMU # 97 — C-601 DIESEL SPILL (previously AOC #A)

UNIT NUMBER SWMU 98

UNIT NAME C-400 Basement Sump

REGULATORY STATUS: AOC (CERCLA)

LOCATION: Basement of C-400 Column F - 3 1/2

APPROXIMATE DIMENSIONS: 2 foot diameter sump

FUNCTION: The sump was used to collect TCE spilled from the C-400 degreaser

OPERATIONAL STATUS: active

DATES OPERATED: 1952 - present

SITE/PROCESS DESCRIPTION: The sump was used to collect spent TCE from the C-400 degreaser. The TCE was then pumped to the storm sewer.

WASTE DESCRIPTION: TCE and possible Tc-99

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: TCE may have leaked from the sump area prior to being routed to the storm sewer. Refer to Phase II report for additional details.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO

This unit underwent a prioritized RFI under the CERCLA ACO. The C-400 area has been identified as a significant contributor to the offsite contamination. Releases from the area will be addressed under the ACO ROD.



STOP

10 23 '98

UNIT NUMBER SWMU 99

UNIT NAME C-745 Kellogg Building Site

REGULATORY STATUS: AOC (CERCLA)

LOCATION: East Side of Plant, C-746-D Classified Scrapyard

APPROXIMATE DIMENSIONS: approximately 320 ft wide by 480 ft long

FUNCTION: Pipe Fabrication for initial construction of plant

OPERATIONAL STATUS: inactive

DATES OPERATED: Early to mid-1950's

SITE/PROCESS DESCRIPTION: Pipe fabrication which included pipe cleaning activities

WASTE DESCRIPTION: possible TCE


WASTE QUANTITY: unknown

DESCRIPTION OF RELEASE: TCE may have been released to the ground surface near the building site. Refer to the Phase II report for additional details.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

This area underwent a prioritized RFI under the CERCLA ACO. Results of prioritized investigation did not indicate this unit to be a significant contribution to offsite contamination. This area will be addressed with WAG 5. The RFI plan for this WAG is due in June, 1992.



SWMU # 99 - C-745 KELLOGG BUILDING SITE
(previously AOC #C)

91 3 14

UNIT NUMBER SWMU 100

UNIT NAME Fire Training Area

REGULATORY STATUS: AOC (CERCLA)

LOCATION: South of C-747 Oil Land Farm and at the west side of 4th street

APPROXIMATE DIMENSIONS: 20ft x 20ft

FUNCTION: Combustible liquids may have been burned in pits for fire training exercises, the area is still utilized for fire training with the combustible liquids contained in a metal pan

OPERATIONAL STATUS: In place

DATES OPERATED: 1982 - 1987

SITE/PROCESS DESCRIPTION: Waste oils, solvents, and other combustible liquids may have been burned at this location for fire training exercises

WASTE DESCRIPTION: possible TCE or PCB-contaminated waste oils and solvents

WASTE QUANTITY: unknown

DESCRIPTION OF RELEASE: Unburned materials may have been released to the ground. Refer to the Phase II report for additional details.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

This area underwent a prioritized RFI under the CERCLA ACO. Results of prioritized investigation did not indicate this unit to be a significant contribution to offsite contamination. This area will be addressed with WAG 1. The RFI plan for this WAG will be submitted in accordance with the schedule in the HSWA permit.



SWMU # 100 - FIRE TRAINING AREA (previously ADC #D)

UNIT NUMBER SWMU 101

UNIT NAME C-340 Hydraulic System

REGULATORY STATUS: AOC

LOCATION: C-340 Building

APPROXIMATE DIMENSIONS: 50 gallons

FUNCTION: hydraulic for metals preparation

OPERATIONAL STATUS: Inactive

DATES OPERATED: 1951 - Mid 1970's, 1984 - 1987

SITE/PROCESS DESCRIPTION: The C-340 Building at Paducah is a non-operating building that contains three PCB contaminated hydraulic systems above 50 ppm PCB's which have been drained and will not be refilled. The floor drains in the C-340 Building have been plugged to prevent the migration of PCB's into the environment.

WASTE DESCRIPTION: PCB contaminated oil

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: potential spills

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO

A Federal Facilities Compliance Agreement (FFCA) between U.S. DOE and the U.S. EPA has been developed under TSCA to address the removal and clean-up of PCB contaminated material associated with the hydraulic systems.

Any past releases from the hydraulic systems that occurred prior to plugging the floor drains would discharge to the surface ditches and storm sewer system that is adjacent to the C-340 Building. Both the surface ditches and storm sewer at the C-340 Building discharges into the KPDES outfall ditch 011. PCB contamination in the surface ditches and the KPDES 011 will be addressed under the CERCLA ACO. The storm sewer system is scheduled to be addressed during RFI no. 8.



CAUTION
PCBs

9 1 3 30

UNIT NUMBER SWMU 102

UNIT NAME Plant Storm Sewer

REGULATORY STATUS: AOC

LOCATION: Paducah Gaseous Diffusion Plant

APPROXIMATE DIMENSIONS: Unknown

FUNCTION: Collect surface drainage to discharge off the plant site

OPERATIONAL STATUS: Active

DATES OPERATED: 1951 - present

SITE/PROCESS DESCRIPTION: The plant storm-sewer system consists of a network of buried piping that collects surface drainage and building roof and floor drainage. The storm sewers discharge to Little Bayou and Big Bayou Creeks and the North-South Diversion Ditch via nine separate effluent ditches.

WASTE DESCRIPTION: possible PCB and radiological contamination

WASTE QUANTITY: unknown

DESCRIPTION OF RELEASE: Sediments containing PCB's and radiological contamination may have been transported via the storm sewer system. Refer to the Phase II report for additional details.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

This unit has been included in WAG 18 and will be addressed with RFI no. 8 in accordance with the schedule outlined in the HSWA permit.

REFER TO DRAWING C5E-16924-POO

UNIT NUMBER SWMU 103

UNIT NAME Rubble Pile 1

REGULATORY STATUS: AOC

LOCATION: Entrance Highway at Dykes Road S-8200 W-4400

APPROXIMATE DIMENSIONS: Approx. 250 ft long, 12 ft deep, and 20 ft wide

FUNCTION: Used in construction of fish pond for wildlife area

OPERATIONAL STATUS: active

DATES OPERATED: from about 1978 to present

SITE/PROCESS DESCRIPTION: None

WASTE DESCRIPTION: Dirt, gravel, and concrete spoil from construction of
cylinder storage yard south of C-333

WASTE QUANTITY: Unknown, total dam volume about 2500 cu yds - concrete visible
at NW corner only

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Beta/Gamma scan found no elevated readings on
rubble. Gamma soil survey showed no above
criteria concentrations in soil around rubble.

RFI NECESSARY: YES



SWMU # 103 - CONCRETE RUBBLE PILE (1)

UNIT NUMBER SWMU 104

UNIT NAME Rubble Pile 2

REGULATORY STATUS: AOC

LOCATION: South of Dykes Road S-8200 W-4400

APPROXIMATE DIMENSIONS: About 200 ft long, 15 ft wide, and 10 ft deep

FUNCTION: Used in construction of fish pond for wildlife area

OPERATIONAL STATUS: Active

DATES OPERATED: Unknown, probably from before 1960 to present

SITE/PROCESS DESCRIPTION: None

WASTE DESCRIPTION: Some concrete spoil, source unknown

WASTE QUANTITY: none known

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Found no elevated Beta/Gama readings on rubble or soil.

RFI NECESSARY: YES



NO VEHICLES
ON POND LEVEES

SWMU # 104 — CONCRETE RUBBLE PILE (2)

UNIT NUMBER SWMU 105

UNIT NAME Rubble pile 3

REGULATORY STATUS: AOC

LOCATION: East of Dykes Road S-2800 W-4000

APPROXIMATE DIMENSIONS: Dam approx. 20 ft long and 10 ft wide - concrete in
and on dam approx. 150 sq ft of concrete visible

FUNCTION: Provides skimming and sampling of drainage

OPERATIONAL STATUS: active

DATES OPERATED: 1981 to present

SITE/PROCESS DESCRIPTION: None

WASTE DESCRIPTION: Concrete slabs from road construction spoils

WASTE QUANTITY: Volume unknown, approx. 50 cu yards of concrete, bed gravel,
and dirt

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Beta/gamma survey found no contamination on
rubble. Soil Gamma scan found no detectable soil
contamination.

RFI NECESSARY: YES



SWMU # 105 - CONCRETE RUBBLE PILE (7)

UNIT NUMBER SWMU 106

UNIT NAME Rubble pile 4

REGULATORY STATUS: AOC

LOCATION: East of Dykes Road S-2200 W-0700

APPROXIMATE DIMENSIONS: Dam approx. 25 ft long and 15 ft wide - concrete in
and on dam face

FUNCTION: Provides skimming and sampling of ditch drainage

OPERATIONAL STATUS: active

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: None

WASTE DESCRIPTION: Concrete slabs from plant road construction spoils

WASTE QUANTITY: Volume unknown, approx. 5 cu yd of concrete visible

DESCRIPTION OF RELEASE: Beta/Gamma scan found some contamination on concrete
slabs. Maximum reading was approx. 1600 cpm. Soil
Gamma investigation had no elevated findings.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 106 - CONCRETE RUBBLE PILE (4)

UNIT NUMBER SWMU 107

UNIT NAME Rubble pile 5

REGULATORY STATUS: AOC

LOCATION: East of Dykes Road S-1050 W-0700

APPROXIMATE DIMENSIONS: Dam approx. 30 ft long and 20 ft wide - concrete in
and on dam

FUNCTION: Skimming and sampling ditch drainage

OPERATIONAL STATUS: active

DATES OPERATED: 1981 to present

SITE/PROCESS DESCRIPTION: none

WASTE DESCRIPTION: Concrete slabs from plant road construction spoils

WASTE QUANTITY: Approx. 225 cu yards of dam fill and 450 sq ft of concrete
visible

DESCRIPTION OF RELEASE: Contamination found on five different slabs reading
approx. 400 cpm over background. No soil
contamination was found.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 107 - CONCRETE RUBBLE PILE (5)

UNIT NUMBER SWMU 108

UNIT NAME Rubble pile 6

REGULATORY STATUS: AOC

LOCATION: Horse trail culvert near confluence of Little Bayou and C-337 ditch
S-100 E-1500

APPROXIMATE DIMENSIONS: 20 ft long, 20 ft wide, and 10 ft deep
Culvert pipes are two 8-ft diameter steel pipes.

FUNCTION: Provide crossing of Little Bayou for hunters or field trial people
riding horses

OPERATIONAL STATUS: In place, usable

DATES OPERATED: Within last two years - dates unknown

SITE/PROCESS DESCRIPTION: Two parallel 8-ft diameter, 22-ft long pipes laid in
Bayou bed - covered with concrete slabs and packed
with bank gravel

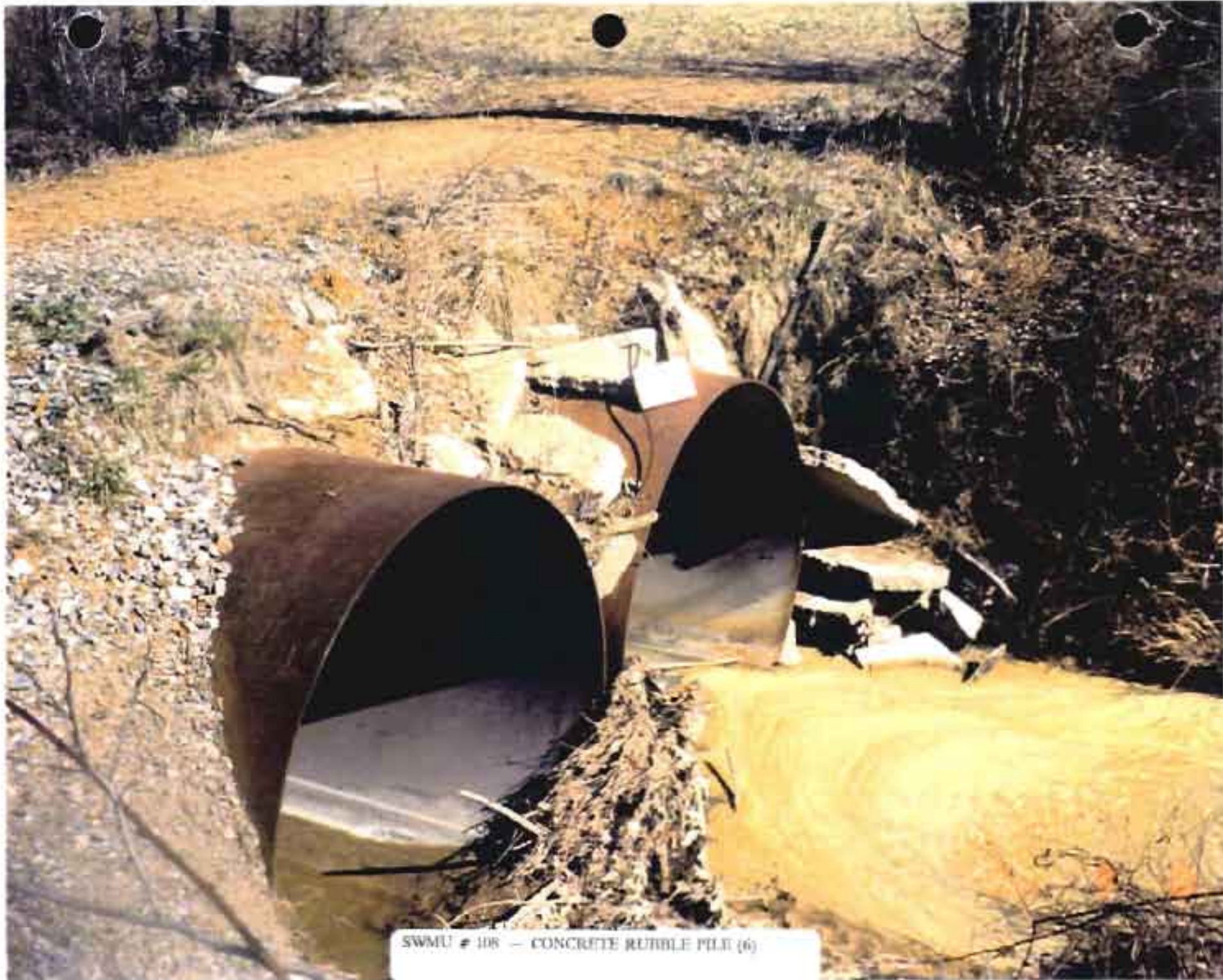
WASTE DESCRIPTION: Concrete slabs - probably from PGDP road repair program

WASTE QUANTITY: Total volume of fill about 150 cu yd. About 100 cu yd of
concrete in culvert.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 108 - CONCRETE RUBBLE PILE (6)

UNIT NUMBER SWMU 109

UNIT NAME Rubble pile 7

REGULATORY STATUS: AOC

LOCATION: Little Bayou water sampling station at Ogden Landing Road N-0700
E-2600

APPROXIMATE DIMENSIONS: Concrete slabs irregularly along about 80 ft of creek
bank

FUNCTION: Erosion control

OPERATIONAL STATUS: In place

DATES OPERATED: 1978-80 to present - additions made in 1980's

SITE/PROCESS DESCRIPTION: Concrete slabs placed along creek bank to control
bank erosion near water sampling station weir

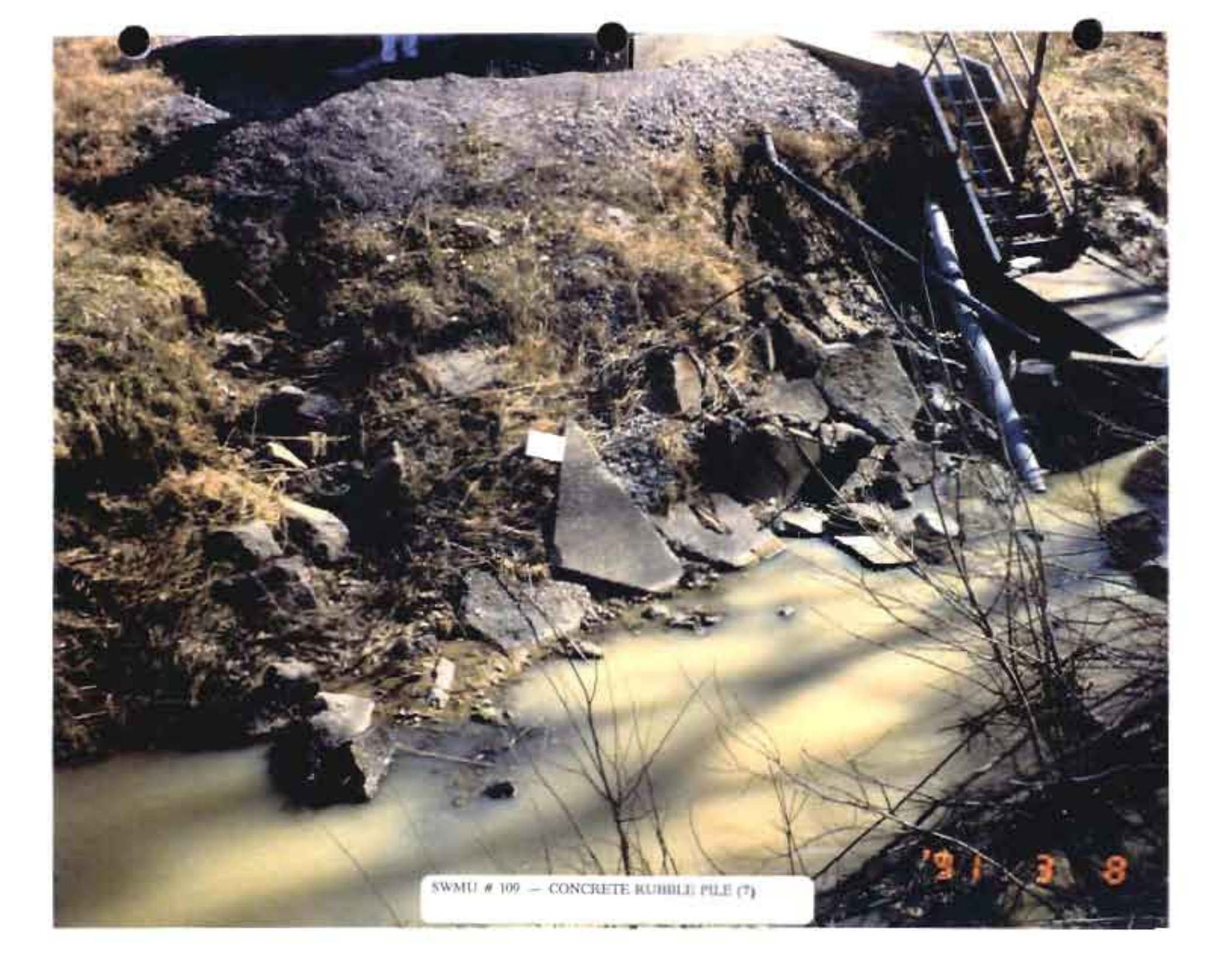
WASTE DESCRIPTION: Concrete slabs, rubble from plant street maintenance
program

WASTE QUANTITY: Approx. 500 sq ft of paving

DESCRIPTION OF RELEASE: Beta/Gamma survey found approx. five location with
readings ranging 150 to 1000 cpm. Soil investigation
found areas 30 K to 50 K CPM Gama at the three foot
area above water level

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 109 — CONCRETE RUBBLE PILE (7)

91 3 8

UNIT NUMBER SWMU 110

UNIT NAME Rubble-pile 8

REGULATORY STATUS: AOC

LOCATION: Abandoned construction road to C-337 (outside fence) N-0300 W-0900
to W-1200

APPROXIMATE DIMENSIONS: Piles of concrete rubble extend about 240 ft approx.
15 ft wide by 3 ft high

FUNCTION: Store concrete for future use

OPERATIONAL STATUS: inactive

DATES OPERATED: unknown

SITE/PROCESS DESCRIPTION: The site is an abandoned road. The concrete stored
is in piles and dumped on both sides of the roadbed.

WASTE DESCRIPTION: Concrete rubble from demolition and reconstruction of plant
roads

WASTE QUANTITY: Approx. 200 cu yds

DESCRIPTION OF RELEASE: Beta/Gamma scan found contamination primarily in
expansion joint tar that is attached to various slabs
of concrete. Approximately 150 cpm over background
was an average finding on these areas. Found no
detectable soil contamination.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 110 - CONCRETE RUBBLE PILE (B)

UNIT NUMBER SWMU 111

UNIT NAME Rubble pile 9

REGULATORY STATUS: AOC

LOCATION: Old Ogden Landing Road (abandoned) N-1700 W-3800 to N-2900 W-4900

APPROXIMATE DIMENSIONS: East section is 740 ft long, 20 ft wide, and about 3 ft high. West section is 160 ft long, 20 ft wide, and about 3 ft high. Section on old KOW road at NW corner is about 50 ft long, 20 ft wide, and 3 ft high.

FUNCTION: Holding area for concrete until PGDP or WKWMA had use for it

OPERATIONAL STATUS: In place

DATES OPERATED: unknown

SITE/PROCESS DESCRIPTION: Concrete is piled on old roadbed

WASTE DESCRIPTION: Concrete from PGDP construction projects - transmission tower bases, roadways, concrete aprons, etc.

WASTE QUANTITY: Approx. 1500 cu yds concrete

DESCRIPTION OF RELEASE: Radiation surveys found that surface contamination was present on different locations in the rubble piles. Surface soil samples did reflect measured concentrations of U-total above background readings.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 111 — CONCRETE RUBBLE PILE (9)

UNIT NUMBER SHMU 112

UNIT NAME Rubble pile 10

REGULATORY STATUS: AOC

LOCATION: Pond dam near intersection of Old Waterline Road and Jim Allen Road
N-8000 W-3300 to W-3400

APPROXIMATE DIMENSIONS: Dam extends about 100 ft on east and north sides

FUNCTION: Used in construction of fish pond for wildlife area

OPERATIONAL STATUS: In place

DATES OPERATED: Approx. 1975 to present, dam structure augmented in recent
years

SITE/PROCESS DESCRIPTION: Dam appears to have been built by earth from pond
area and gravel, with some concrete slabs used for
stability

WASTE DESCRIPTION: Some concrete in dam was from plant road upgrading projects

WASTE QUANTITY: Not determinable - probably several truck loads

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Rubble is sparse and mostly underwater.
Beta/Gamma scan found no detectable
contamination.

RFI NECESSARY: YES



SWMU # 112 - CONCRETE RUBBLE PILE (10)

UNIT NUMBER SWMU 113

UNIT NAME Rubble pile 11

REGULATORY STATUS: AOC

LOCATION: Jim Allen Road at Little Bayou N-9100 W-1700

APPROXIMATE DIMENSIONS: Concrete slabs used to stabilize bank on approx. 100 ft
of creek bank

FUNCTION: Stabilize creek bank, control erosion

OPERATIONAL STATUS: In place

DATES OPERATED: 1986 to present

SITE/PROCESS DESCRIPTION: Concrete slabs are used to cover creek bank under
new bridge and a few feet of bank upstream and
downstream of bridge

WASTE DESCRIPTION: Concrete rubble believed to be from PGDP roads

WASTE QUANTITY: Approx. ten cu yds of concrete

DESCRIPTION OF RELEASE: Rubble survey did not identify any contamination on
rubble itself. Soil investigation revealed
contamination approx. three times over background.

DOCUMENTATION OF NO RELEASE: N/A

RF1 NECESSARY: YES



SWMU # 113 -- CONCRETE RUBBLE PILE (11)

UNIT NUMBER SWMU 114

UNIT NAME Rubble pile 12

REGULATORY STATUS: AOC

LOCATION: Culvert, Area 6 Boundary Road N-12200 W-3600

APPROXIMATE DIMENSIONS: 35 ft long, 20 ft wide, and 3 to 6 ft deep

FUNCTION: Stabilize roadway

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Concrete slabs and bank gravel were used to construct road across 3-ft diameter pipe culvert and concrete rubble, and slabs were used above and below to control erosion.

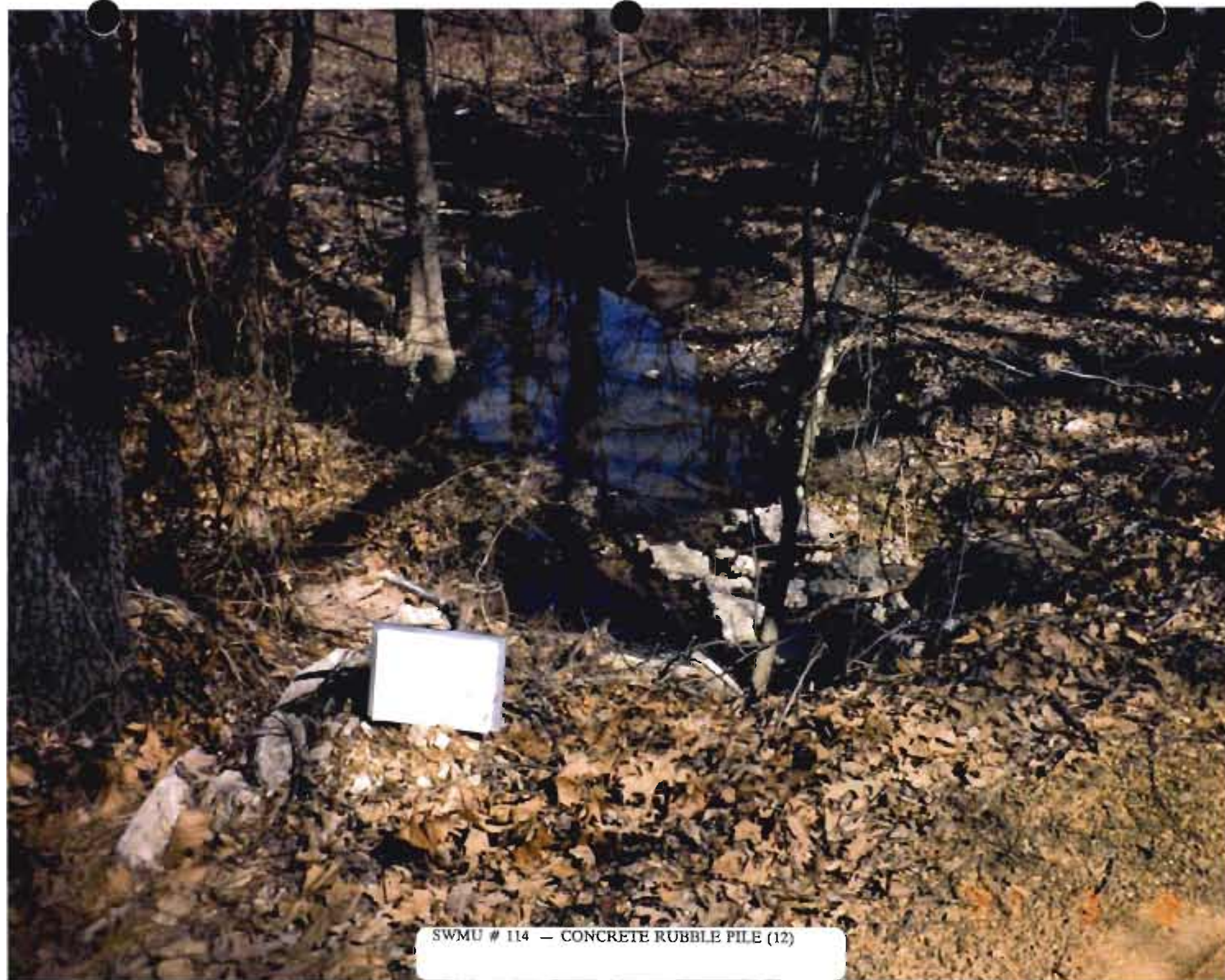
WASTE DESCRIPTION: Concrete slabs and rubble - probably from PGDP road upgrading

WASTE QUANTITY: Approx. 40 cu yds of concrete

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Beta/Gamma scan found no detectable contamination on rubble. Gamma survey found no elevated soil readings.

RFI NECESSARY: YES



SWMU # 114 — CONCRETE RUBBLE PILE (12)

UNIT NUMBER SWMU 115

UNIT NAME Rubble pile 13

REGULATORY STATUS: AOC

LOCATION: Little Bayou Bank and Slough Dam 1000 ft west of old TVA ash disposal area

APPROXIMATE DIMENSIONS: 1000 ft of creek bank and 20 ft wide

FUNCTION: Control bank erosion and stabilize slough dam

OPERATIONAL STATUS: In place

DATES OPERATED: Approx. 1960 to present

SITE/PROCESS DESCRIPTION: Concrete rubble and slabs are placed on the southwest bank where Little Bayou was channelized to transport TVA ash-transport water. The concrete pile also serves as a levee for the "wetlands" slough.

WASTE DESCRIPTION: Concrete slabs, rubble with some steel, and conduit pipes, most of which appears to come from TVA sources.

WASTE QUANTITY: Approx. 1000 cu yds of concrete

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Beta/Gamma scan and soil investigation showed no detectable contamination

RFI NECESSARY: YES



SWMU # 115 - CONCRETE RUBBLE PILE (13)

08 13 11

UNIT NUMBER SWMU 116

UNIT NAME Rubble pile 14

REGULATORY STATUS: AOC

LOCATION: North bank of Big Bayou

APPROXIMATE DIMENSIONS: Approx. 20 ft by 50 ft

FUNCTION: Halt erosion at minor tributary run-off ravine entering Big Bayou

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Concrete rubble placed in ravine going into Big Bayou

WASTE DESCRIPTION: Concrete rubble probably from PGDP road upgrading

WASTE QUANTITY: Approx. 30 cu yds

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Beta/Gamma and Soil Gamma surveys revealed no detectable contamination over background.

RFI NECESSARY: YES



SWMU # 116 - CONCRETE RUBBLE PILE (14)

9 1 3 11

UNIT NUMBER SWMU 117

UNIT NAME Rubble pile 15

REGULATORY STATUS: AOC

LOCATION: Big Bayou Ford and Levee near Ohio river N-17300 W-13700 to W-14000

APPROXIMATE DIMENSIONS: Approx. 500 sq ft, on and around ford - levees (or dams) east of the ford are about 30 ft long, 20 ft wide, and 20 ft deep.

FUNCTION: To provide passage across Big Bayou and to dam bypassed loop of the bayou.

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Large slabs (10 ft x 20 ft of concrete provide ford roadway, other slabs are placed upstream and downstream for erosion control.

WASTE DESCRIPTION: Slabs of concrete, some of which may have come from PGDP road upgrading -- large slabs may have been valve vault covers.

WASTE QUANTITY: Approx. 15 cu yds at ford -- quantity in dams not determinable but probably less than at ford.

DESCRIPTION OF RELEASE: Beta/Gamma scan found one rock approx. 90 cpm over background.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 117 -- CONCRETE RUBBLE PILE (15)

UNIT NUMBER SWMU 118

UNIT NAME Rubble pile 16

REGULATORY STATUS: AOC

LOCATION: Big Bayou Water Sampling Station- West Boone Road at Big Bayou
(collapsed bridge) N-2000 W-10200

APPROXIMATE DIMENSIONS: Concrete rubble on creek bank is about 4 ft by 120 ft
of bank (irregular)

FUNCTION: Stabilize bank at water sampling station

OPERATIONAL STATUS: In place - station active

DATES OPERATED: About 1978 to present, concrete rubble was added as needed to
correct erosion

SITE/PROCESS DESCRIPTION: Slabs on bank above and below plume

WASTE DESCRIPTION: Concrete rubble and slabs - probably from PGDP road
upgrading

WASTE QUANTITY: Approx. 20 cu yds of concrete

DESCRIPTION OF RELEASE: Performed Beta/Gamma scan on rubble and found an
average of approx. 80 cpm above background on
4 ft x 8 ft concrete slab

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 118 — CONCRETE RUBBLE PILE (16)

UNIT NUMBER SWMU 119

UNIT NAME Rubble pile 17

REGULATORY STATUS: AOC

LOCATION: Transport road bridge across Big Bayou N-0200 W-8900

APPROXIMATE DIMENSIONS: Scattered slabs of concrete cover about 200 sq ft

FUNCTION: Erosion control at bridge

OPERATIONAL STATUS: In place

DATES OPERATED: Concrete was placed in early 1970s

SITE/PROCESS DESCRIPTION: Iron bridge replaced wooden structure. Slabs of concrete were placed on creek bank - upstream, under, and downstream of the bridge.

WASTE DESCRIPTION: Appears to be demolished side walks - probably from PGDP

WASTE QUANTITY: Approx. 5 cu yds concrete

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: No radiological contamination was found on rubble or soil.

RFI NECESSARY: YES



SWMU # 119 - CONCRETE RUBBLE PILE (17)

1 3 13

UNIT NUMBER SWMU 120

UNIT NAME Rubble pile 18

REGULATORY STATUS: AOC

LOCATION: North end of No. 3 Lagoon of water treatment plant and waterline bridge

APPROXIMATE DIMENSIONS: Approx. 200 sq ft along ditch and 300 sq ft below bridge

FUNCTION: Erosion control

OPERATIONAL STATUS: In place

DATES OPERATED: Concrete placed under bridge about 1962 and on effluent ditch in 1972

SITE/PROCESS DESCRIPTION: Concrete slabs along effluent ditch, concrete slabs, rubble and very large block (approx. 4 ft long, 4 ft wide, and 4 ft high) in creek for waterline support.

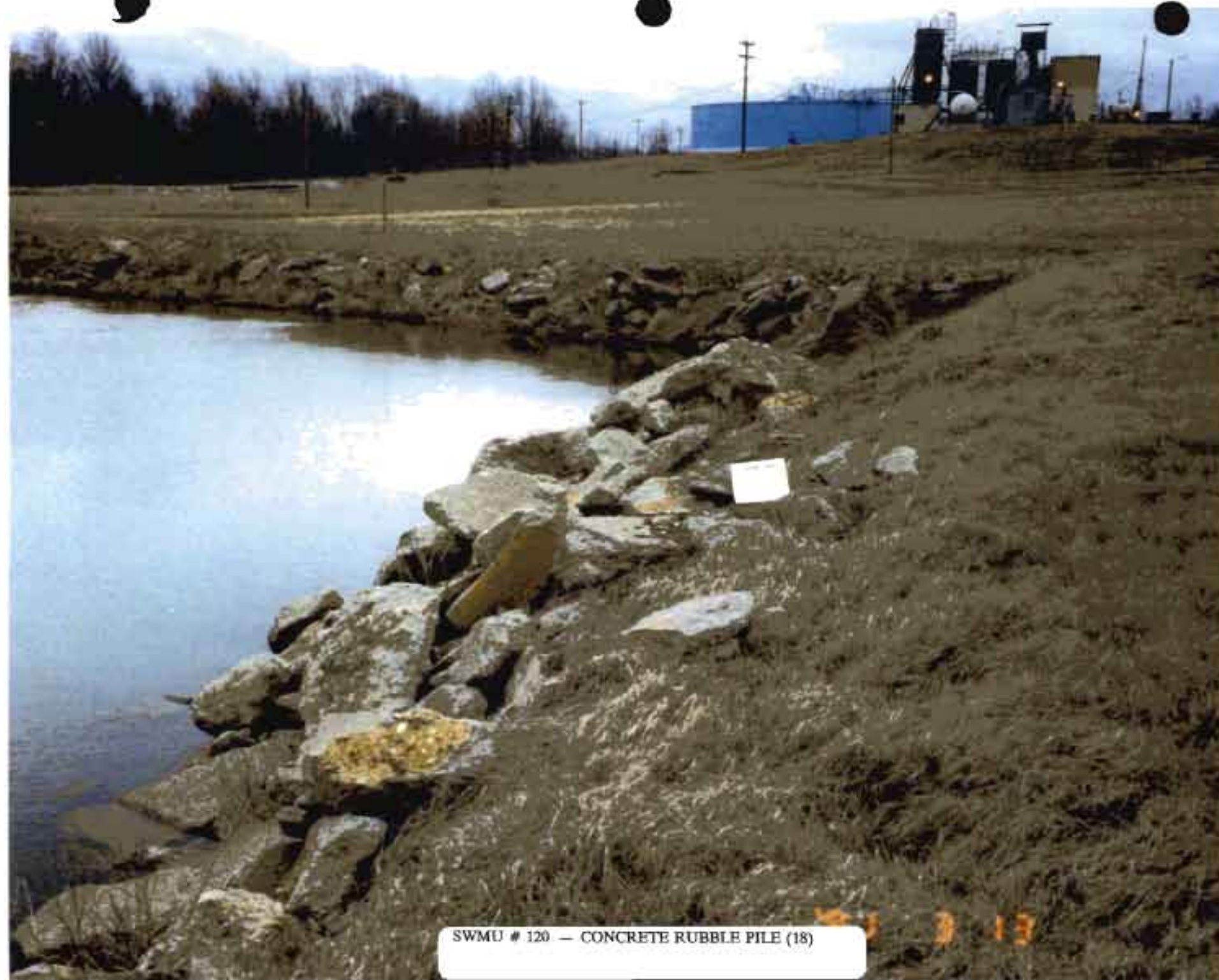
WASTE DESCRIPTION: Concrete slabs, rubble, and blocks from PGDP

WASTE QUANTITY: Approx. 10 cu yds of concrete

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 120 - CONCRETE RUBBLE PILE (18)

UNIT NUMBER SWMU 121

UNIT NAME Rubble pile 19

REGULATORY STATUS: AOC

LOCATION: Rice Springs Road Ford Across Tributary of Big Bayou

APPROXIMATE DIMENSIONS: About 70 sq ft

FUNCTION: Erosion control at ford

OPERATIONAL STATUS: In place

DATES OPERATED: About 1987 to present

SITE/PROCESS DESCRIPTION: When bridge was condemned, concrete was poured for ford. Some concrete slabs were used around ford for erosion control.

WASTE DESCRIPTION: Concrete slabs, probably from PGDP

WASTE QUANTITY: Approx. 1 cu yd

DESCRIPTION OF RELEASE: The survey found the concrete slabs used for the bridge supports were contaminated. Readings were approx. 150 to 200 cpm.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 121 - CONCRETE RUBBLE PILE (19)

UNIT NUMBER SWMU 122

UNIT NAME Rubble pile 20

REGULATORY STATUS: AOC

LOCATION: Ravine culvert (KOW) approx. at S-5400 W-11800

APPROXIMATE DIMENSIONS:

FUNCTION: Erosion control

OPERATIONAL STATUS: In place (trail presently impassable for vehicles)

DATES OPERATED: Past 10 to 15 years

SITE/PROCESS DESCRIPTION: Trail for access to hunting area crosses culvert placed in ravine. Concrete slabs used to construct "roadway" over culvert and placed on faces of roadway.

WASTE DESCRIPTION: Concrete slabs, probably from PGDP

WASTE QUANTITY: Rough estimate, 10 cu yds of concrete

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Beta/Gamma survey and soil survey found no elevated readings.

RFI NECESSARY: YES

Photograph to be supplied at a later date

UNIT NUMBER SWMU 123

UNIT NAME Rubble pile 21

REGULATORY STATUS: AOC

LOCATION: Concrete storage/transfer area near intersection of South Acid Road and Rice Springs Road S-8300 to S-8500, W-10100 to W-10500

APPROXIMATE DIMENSIONS: Approx. 250 ft by 350 ft, with depth varying from 1 to 5 ft

FUNCTION: Store concrete rubble where easily accessible for removal for other use.

OPERATIONAL STATUS: In place

DATES OPERATED: About 1960 to present

SITE/PROCESS DESCRIPTION: Large area in old KOW, partially paved where used concrete is placed. Other agencies, such as West Kentucky Wildlife Management Area, remove concrete for their use.

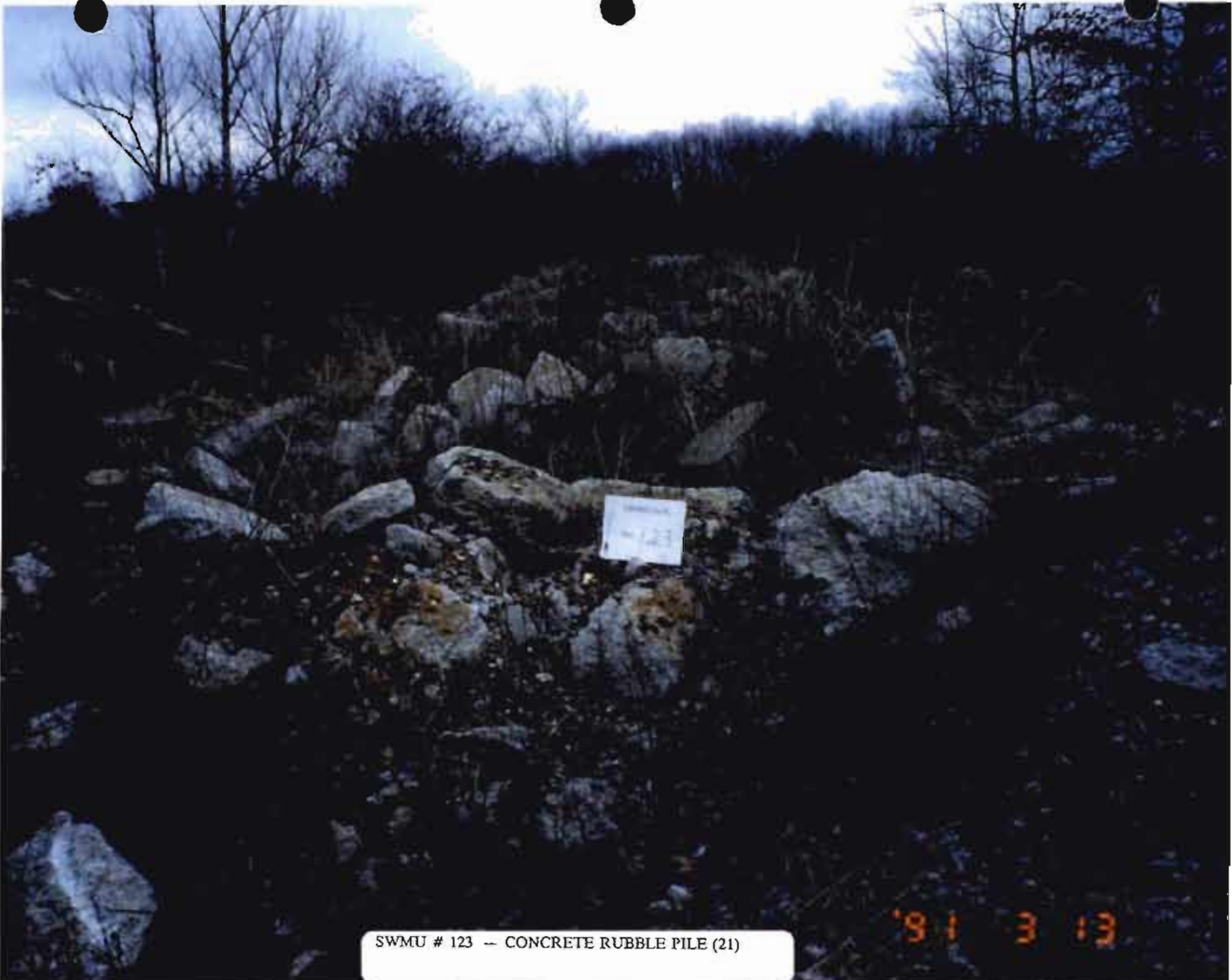
WASTE DESCRIPTION: Used concrete from all PGDP areas, large amount of cylinder saddle supports from C-745A

WASTE QUANTITY: 500 to 1000 cu yds of concrete

DESCRIPTION OF RELEASE: Surveys found elevated readings on cylinder saddle supports.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 123 -- CONCRETE RUBBLE PILE (21)

'81 3 13

UNIT NUMBER SWMU 124

UNIT NAME Rubble pile 22

REGULATORY STATUS: AOC

LOCATION: Old KOW material lot south of South Acid Road near Rice Springs Road
S-8800 to S-9000, W-10000 to W-10300

APPROXIMATE DIMENSIONS: Concrete from sidewalks and other sources scattered
over area approx. 200 ft by 300 ft

FUNCTION: Concrete storage

OPERATIONAL STATUS: Inactive

DATES OPERATED: Unknown - area used for material storage, beginning with KOW
in 1942

SITE/PROCESS DESCRIPTION: Old paved, blacktopped, and graveled lot containing
rubble

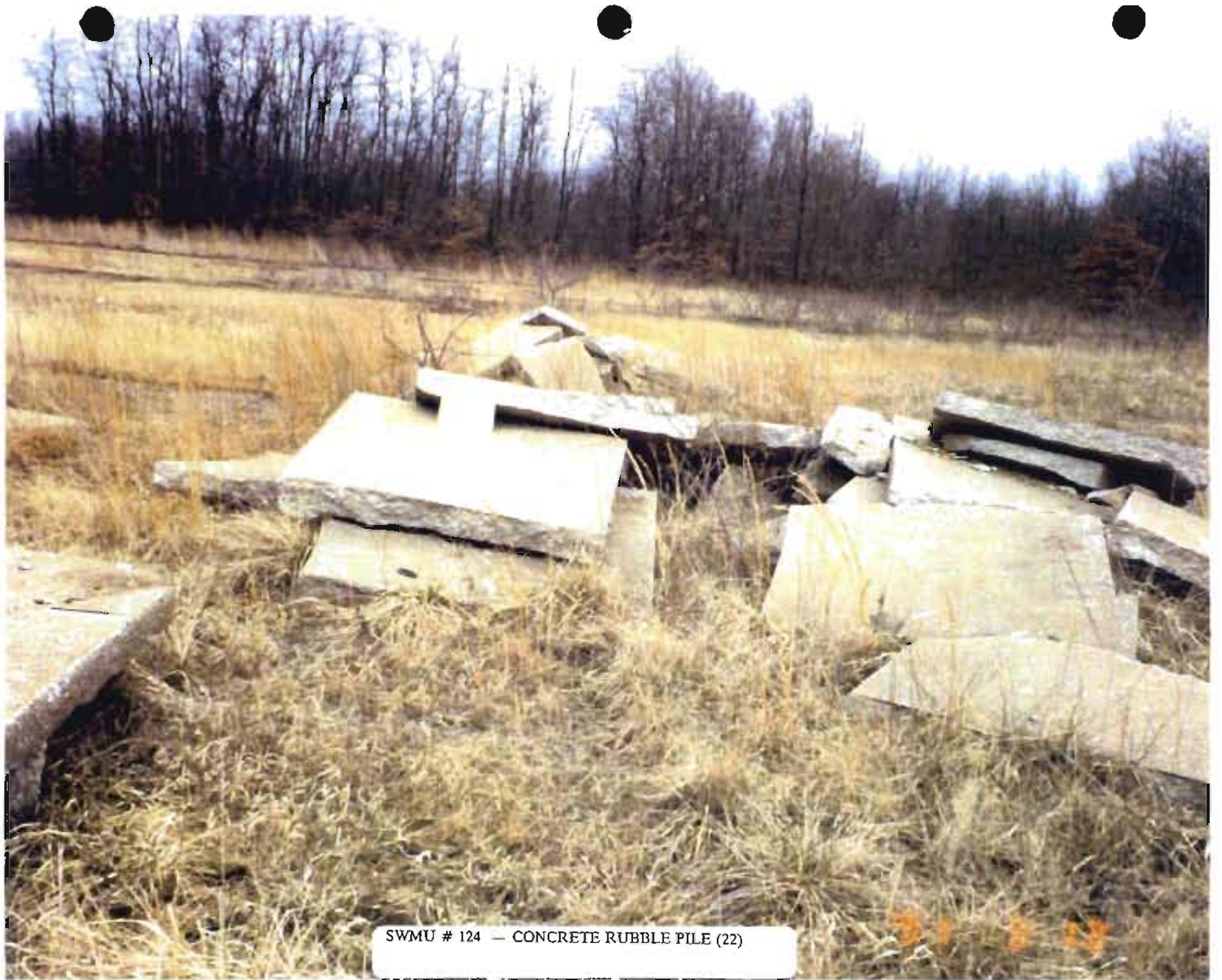
WASTE DESCRIPTION: Sidewalk slabs and other concrete rubble from KOW and PGDP

WASTE QUANTITY: Approx. 20 cu yds

DESCRIPTION OF RELEASE: Four inch sidewalk slabs surveyed no contamination
found. Concrete pipe with elevated gamma activity was
found and removed from site.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 124 — CONCRETE RUBBLE PILE (22)

UNIT NUMBER SWMU 125

UNIT NAME Rubble pile 23

REGULATORY STATUS: AOC

LOCATION: North of South Acid Road near railroad

APPROXIMATE DIMENSIONS: 200 ft by 200 ft with piles from 1 to 5 ft deep

FUNCTION: Store railroad spoils

OPERATIONAL STATUS: Inactive

DATES OPERATED: Not known, some spoils appear to be 20 to 30 years old -
concrete curbs were added in last five years

SITE/PROCESS DESCRIPTION: Railroad spoils and curbs cover area along road


WASTE DESCRIPTION: Rails, roadbed, and cross ties from KOW, and perhaps PGDP
railroads - curbs from parking areas near cascade buildings

WASTE QUANTITY: About 50 cu yds of railroad spoil and 5 cu yds of concrete
curbing

DESCRIPTION OF RELEASE: All concrete rubble scanned clean except for three
rusty spots which surveyed out at approx. 2000, 250,
and 250 cpm. no contaminated soil was found.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 125 -- CONCRETE RUBBLE PILE (23)

UNIT NUMBER SWMU 126

UNIT NAME Rubble pile 24

REGULATORY STATUS: AOC

LOCATION: Near access road to gravel pits S-11200 to S-11400, W-8300 to W-8500

APPROXIMATE DIMENSIONS: 200 ft by 200 ft area

FUNCTION: Gravel pits provide gravel for KOW, PGDP, and WKWMA - concrete may have been used to fill hazardous holes

OPERATIONAL STATUS: Inactive

DATES OPERATED: Intermittently since 1942

SITE/PROCESS DESCRIPTION: Entrance road to gravel pits

WASTE DESCRIPTION: A few slabs of concrete visible over area on both sides of entrance

WASTE QUANTITY: Not determinable, less than 1 cu yd of concrete visible

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: No detectable radiation contamination was found

RFI NECESSARY: YES



SWMU # 126 - CONCRETE RUBBLE PILE (24)

UNIT NUMBER SWMU 127

UNIT NAME Rubble pile 25

REGULATORY STATUS: AOC

LOCATION: Culvert 1/10 mile north of Heath-Woodville Road on Gravel Pit Road
S-12500, W-8300

APPROXIMATE DIMENSIONS: Roadway 20 ft wide, 25 ft long, and 2 to 16 ft deep.

FUNCTION: Ditch crossing and erosion control

OPERATIONAL STATUS: Active

DATES OPERATED: Not known, appears to have been rebuilt in past three years

SITE/PROCESS DESCRIPTION: Concrete used in fill, construction, and for erosion
control for culvert

WASTE DESCRIPTION: Concrete slabs, probably from PGDP

WASTE QUANTITY: Approx. 10 cu yds visible

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Rubble survey and soil survey found no detectable
radioactive contamination

RFI NECESSARY: YES



SWMU # 127 -- CONCRETE RUBBLE PILE (25)

'91 3 11

UNIT NUMBER SWMU 128

UNIT NAME Rubble pile 26

REGULATORY STATUS: AOC

LOCATION: Acid Road Bridge - Big Bayou Creek S-8100, W-5800 to W-6100

APPROXIMATE DIMENSIONS: 300-400 sq ft of concrete upstream, under and downstream of bridge. Levee on north side of road is about 120 ft long, 3 to 4 ft high, 6 ft wide at base.

FUNCTION: Erosion control

OPERATIONAL STATUS: In place

DATES OPERATED: About 1980 to present

SITE/PROCESS DESCRIPTION: Concrete slabs used for erosion control on creek banks near bridge. Concrete slabs with gravel and dirt form levee on north side of road, east of creek.

WASTE DESCRIPTION: Concrete, slabs, gravel and dirt. Concrete probably from PGDP

WASTE QUANTITY: Approx. 20 cu yds -- more may be in levee

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 128 - CONCRETE RUBBLE PILE (26)

UNIT NUMBER SWMU 129

UNIT NAME Rubble pile 27

REGULATORY STATUS: AOC

LOCATION: Underflow dam at oil skimmer on main sewer outfall S-1900, W-7700
(C-375 W7)

APPROXIMATE DIMENSIONS: Dam is about 20 ft by 8 ft by 10 ft deep

FUNCTION: Prevents any oil which escapes skimmer from going to creek.
Concrete provides erosion control.

OPERATIONAL STATUS: Active

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Dam design requires all water going through to be
drawn from below the water surface. Floating oil is
captured.

WASTE DESCRIPTION: Concrete slabs and rubble from PGDP

WASTE QUANTITY: Approx. 3 cu yds of concrete

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 129 - CONCRETE RUBBLE PILE (27)

UNIT NUMBER SWMU 130

UNIT NAME C-611 Underground Gasoline Tank

REGULATORY STATUS: AOC

LOCATION: Immediately west of C-611

APPROXIMATE DIMENSIONS: 550 gallons

FUNCTION: Gasoline storage

OPERATIONAL STATUS: Inactive

DATES OPERATED: Approximately 1942 to 1945

SITE/PROCESS DESCRIPTION: Underground gasoline tank

WASTE DESCRIPTION: Gasoline

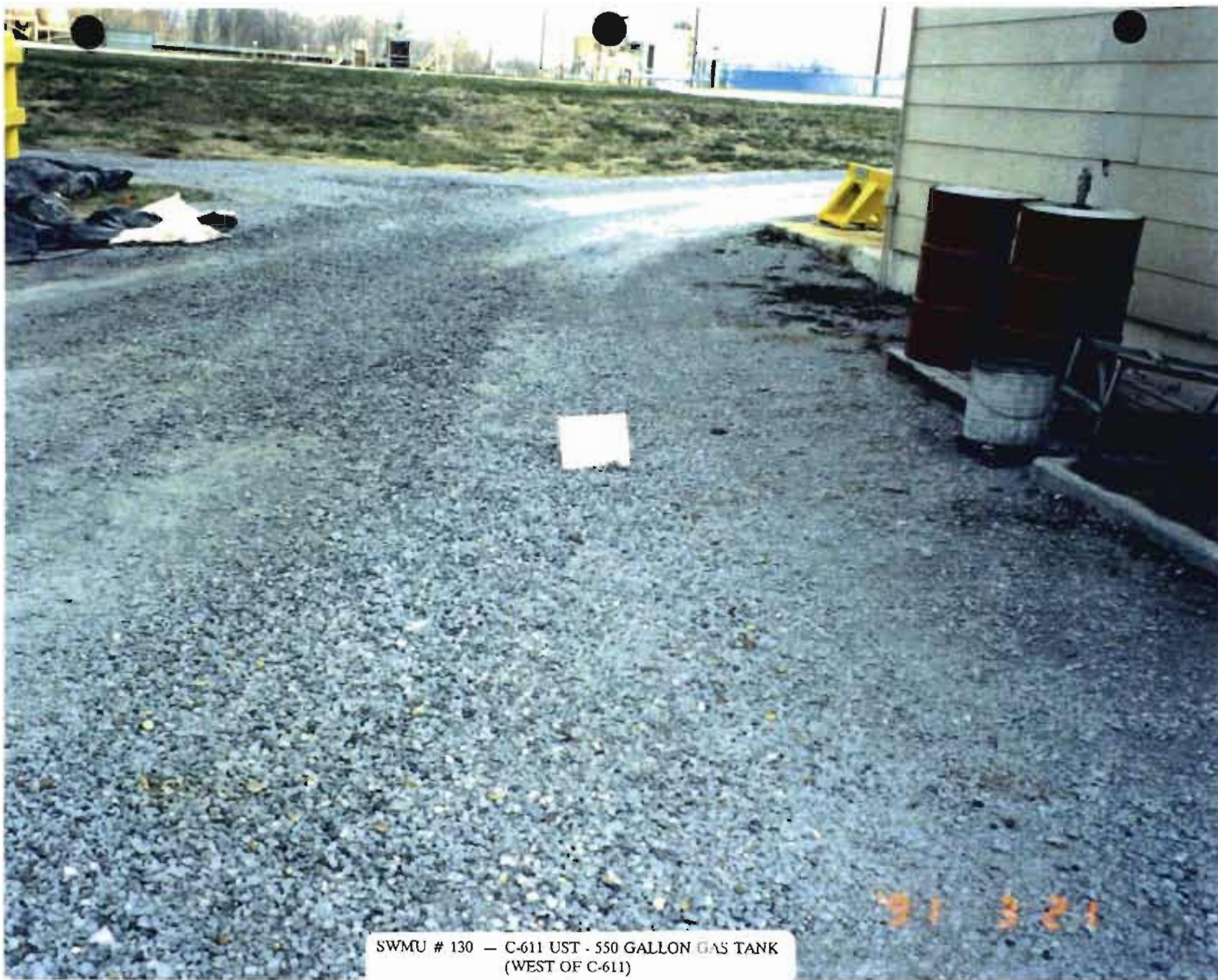
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible gasoline leakage

DOCUMENTATION OF NO RELEASE:

RFI NECESSARY: Yes

This unit has been included in WAG 7 and will receive a RFI pursuant to the schedule outlined in the HSWA permit.



SWMU # 130 — C-611 UST - 550 GALLON GAS TANK
(WEST OF C-611)

UNIT NUMBER: SWMU 131

UNIT NAME C-611 Underground Gasoline Tank

REGULATORY STATUS: AOC

LOCATION: Immediately east of C-611

APPROXIMATE DIMENSIONS: 50 gallon

FUNCTION: Gasoline storage

OPERATIONAL STATUS: Inactive

DATES OPERATED: Approximatley 1942 to 1945

SITE/PROCESS DESCRIPTION: Underground gasoline tank

WASTE DESCRIPTION: Gasoline

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible gasoline leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: Yes

This unit has been included in WAG 7 and will receive a RFI pursuant to the schedule outlined in the HSWA permit.



SWMU # 131 - C-611 UST 55 GALLON GAS TANK
(EAST OF [redacted])

'91 3 21

UNIT NUMBER SWMU 132

UNIT NAME C-611 Underground Fuel Oil Tank

REGULATORY STATUS: AOC

LOCATION: North of C-611

APPROXIMATE DIMENSIONS: 2000 gallon

FUNCTION: Fuel Oil Storage

OPERATIONAL STATUS: Inactive

DATES OPERATED: Approximately 1942 to 1955

SITE/PROCESS DESCRIPTION: Underground fuel oil tank

WASTE DESCRIPTION: Fuel Oil

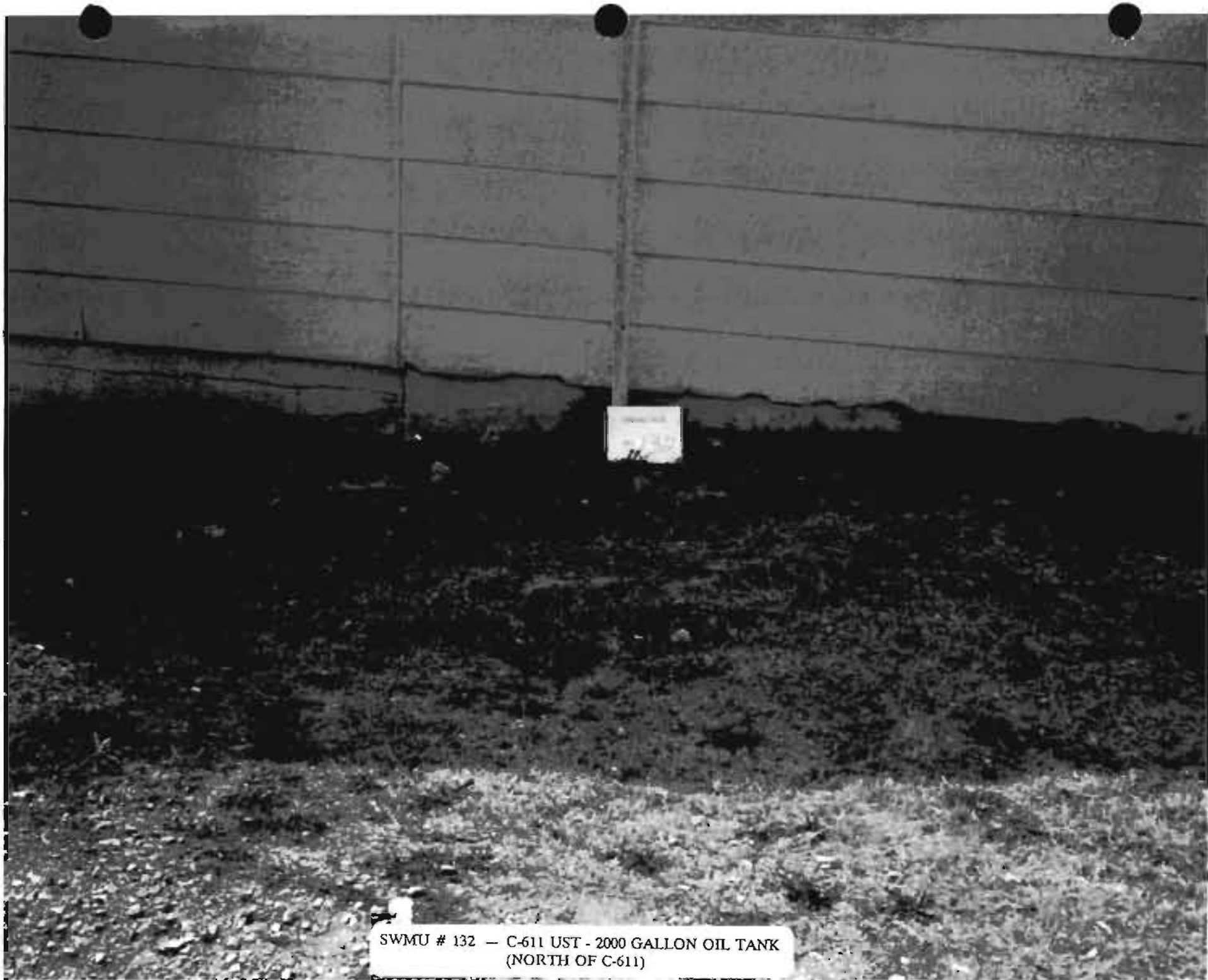
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible fuel oil leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: Yes

This unit has been included in WAG 7 and will receive a RFI pursuant to the schedule outlined in the HSWA permit.



SWMU # 132 — C-611 UST - 2000 GALLON OIL TANK
(NORTH OF C-611)

UNIT NUMBER SWMU 133

UNIT NAME C-611 Underground Storage Tank

REGULATORY STATUS: AOC

LOCATION: Immediately south of C-611

APPROXIMATE DIMENSIONS: Unknown

FUNCTION: Possible Diesel Storage

OPERATIONAL STATUS: Inactive (grouted up)

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Underground storage tank (Possibly for Diesel)

WASTE DESCRIPTION: Diesel

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible Diesel leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: Yes

This unit has been included in WAG 7 and will receive a RFI pursuant to the schedule outlined in the HSWA permit.



SWMU # 133 — C-611 UST - UNKNOWN SIZE,
GROUTED TANK (SOUTH OF C-611)

UNIT NUMBER SWMU 134

UNIT NAME C-611 Underground Diesel Tank

REGULATORY STATUS: AOC

LOCATION: Immediately southeast of C-611

APPROXIMATE DIMENSIONS: 1000 gallon

FUNCTION: Diesel storage

OPERATIONAL STATUS: Inactive

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Underground diesel tank

WASTE DESCRIPTION: Diesel

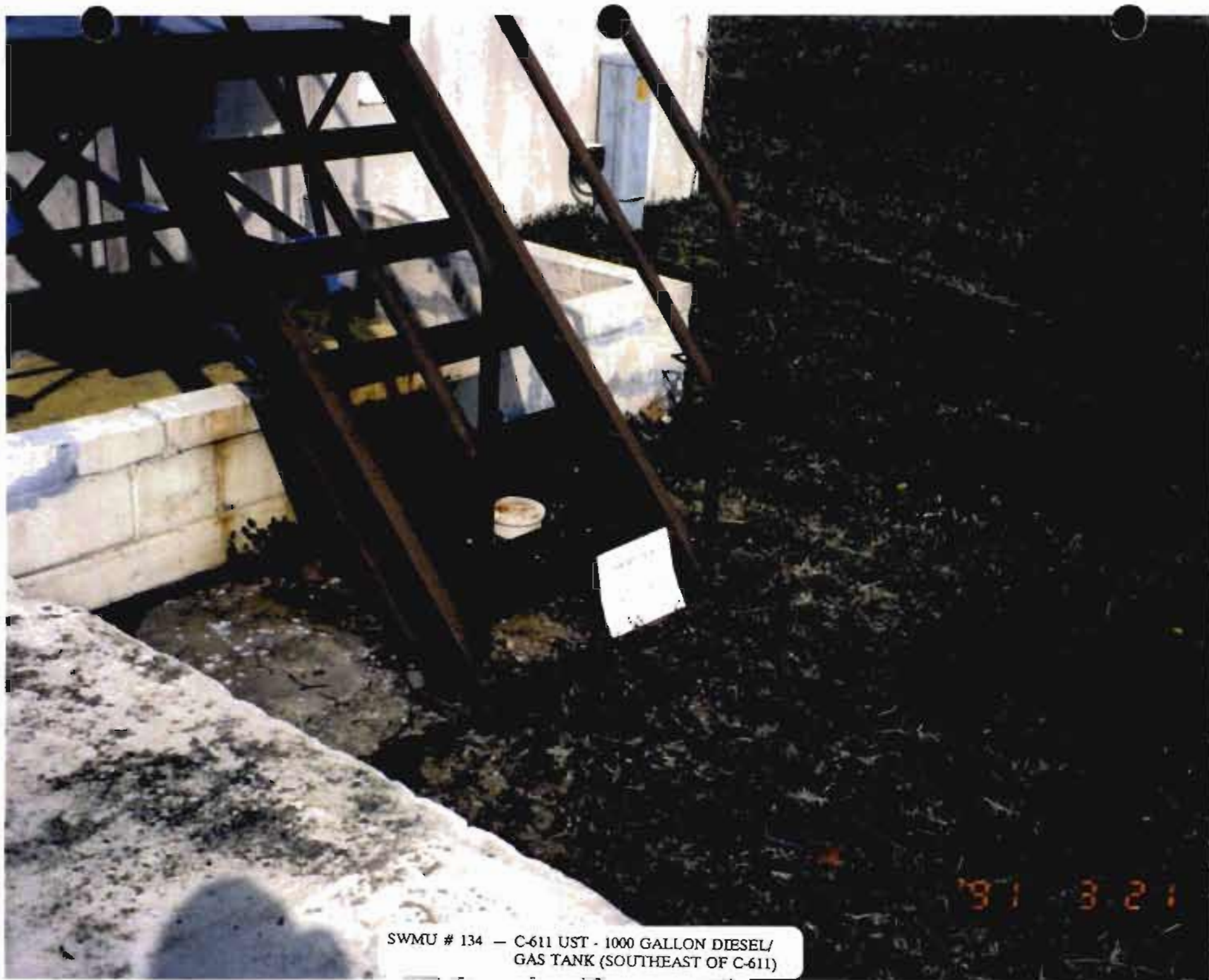
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible diesel leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: Yes

This unit has been included in WAG 7 and will receive a RFI pursuant to the schedule outlined in the HSWA permit.



SWMU # 134 — C-611 UST - 1000 GALLON DIESEL/
GAS TANK (SOUTHEAST OF C-611)

UNIT NUMBER SWMU 135

UNIT NAME C-333 North Side PCB Soil Contamination

REGULATORY STATUS: AOC

LOCATION: North side of C-333 Building

APPROXIMATE DIMENSIONS: 150 ft by 100 ft

FUNCTION: Dust Palliative area is used to reduce the amount of dust taken in by building ventilation systems

OPERATIONAL STATUS: In place

DATES OPERATED: 1952 to present

SITE/PROCESS DESCRIPTION: The area immediately adjacent to the north side of C-333 building with a chip and seal surface

WASTE DESCRIPTION: PCB

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Sample results for this area range from less than 1.0 up to 220 mg/Kg

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

This unit has been included in WAG 16 and will receive a RFI in accordance with the schedule outlined in the HSWA permit.

A photograph of an industrial site showing a large area of dark, gravelly soil. In the center, a small white marker with a black label is placed on the ground. The background features industrial buildings and structures under a cloudy sky. The image is framed by a dark border with three circular punch holes at the top.

SWMU # 135 — C-333 PCB SOIL CONTAMINATION
(NORTH SIDE OF C-333)

9 1 3 14

UNIT NUMBER SWMU 136

UNIT NAME C-740 TCE Spill Site

REGULATORY STATUS: AOC

LOCATION: Northwest corner C-740 concrete pad

APPROXIMATE DIMENSIONS: 5 ft by 5 ft (spill area)

FUNCTION: Drum storage area

OPERATIONAL STATUS: Active

DATES OPERATED: Mid 1970's to present

SITE/PROCESS DESCRIPTION: Concrete pad and gravel area

WASTE DESCRIPTION: TCE

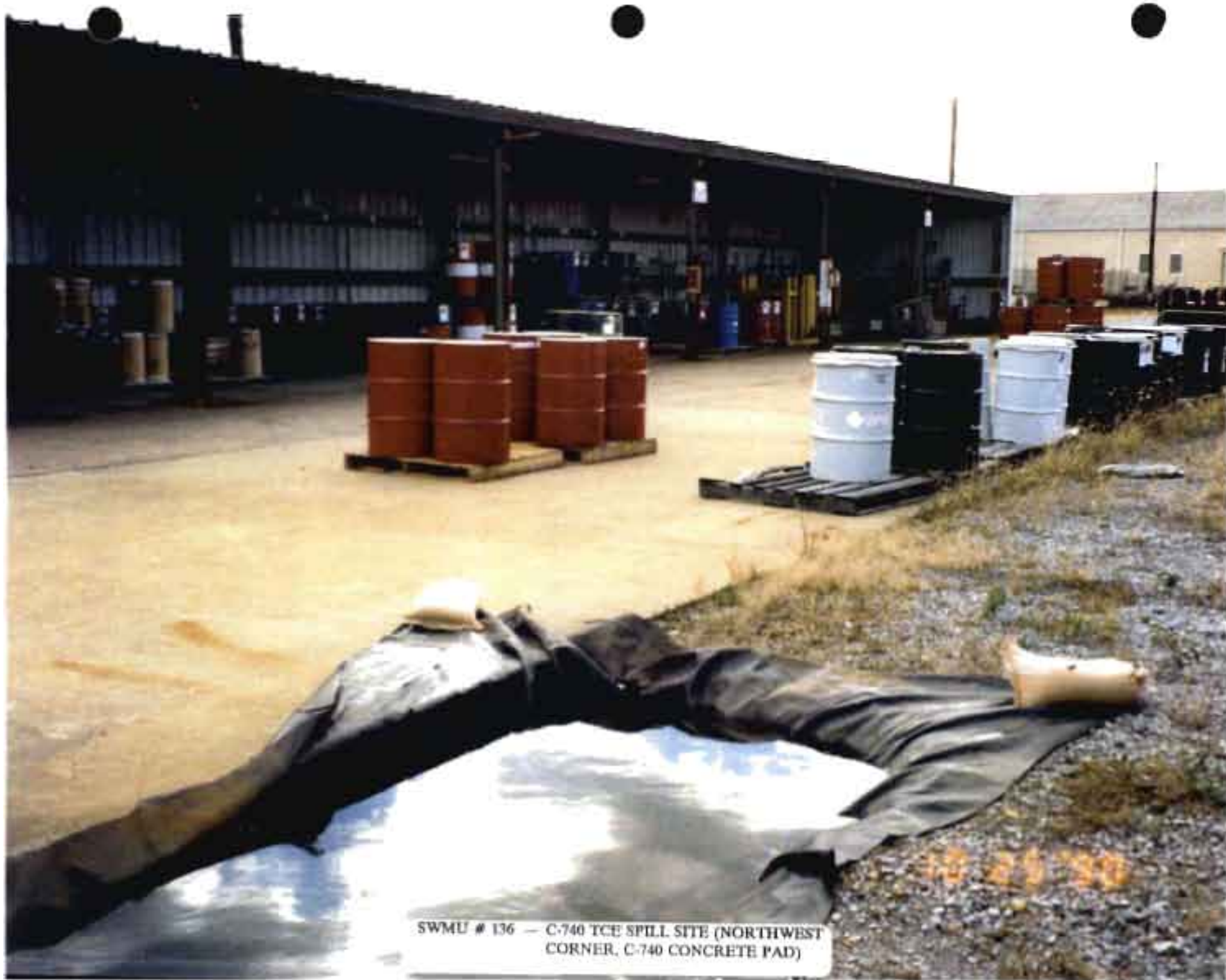
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Drum in storage on concrete pad was discovered leaking TCE. Sample results from area ranged from less than 1 to 21 ppm TCE.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

This unit is included in WAG 1 and will receive a RFI in accordance with the HSWA permit.



SWMU # 136 — C-740 TCE SPILL SITE (NORTHWEST
CORNER, C-740 CONCRETE PAD)

UNIT NUMBER SWMU 137

UNIT NAME C-746-A Inactive PCB Transformer Sump Area

REGULATORY STATUS: AOC

LOCATION: East side of C-746-A

APPROXIMATE DIMENSIONS: 12 ft long by 3 ft wide by 3 ft deep

FUNCTION: Secondary containment for transformer, which has been removed

OPERATIONAL STATUS: In place

DATES OPERATED: Mid 1970's to present, The sump valve was tagged with a caution tag on 9/14/90 to prevent any releases prior to characterization.

SITE/PROCESS DESCRIPTION: Concrete dike with sump

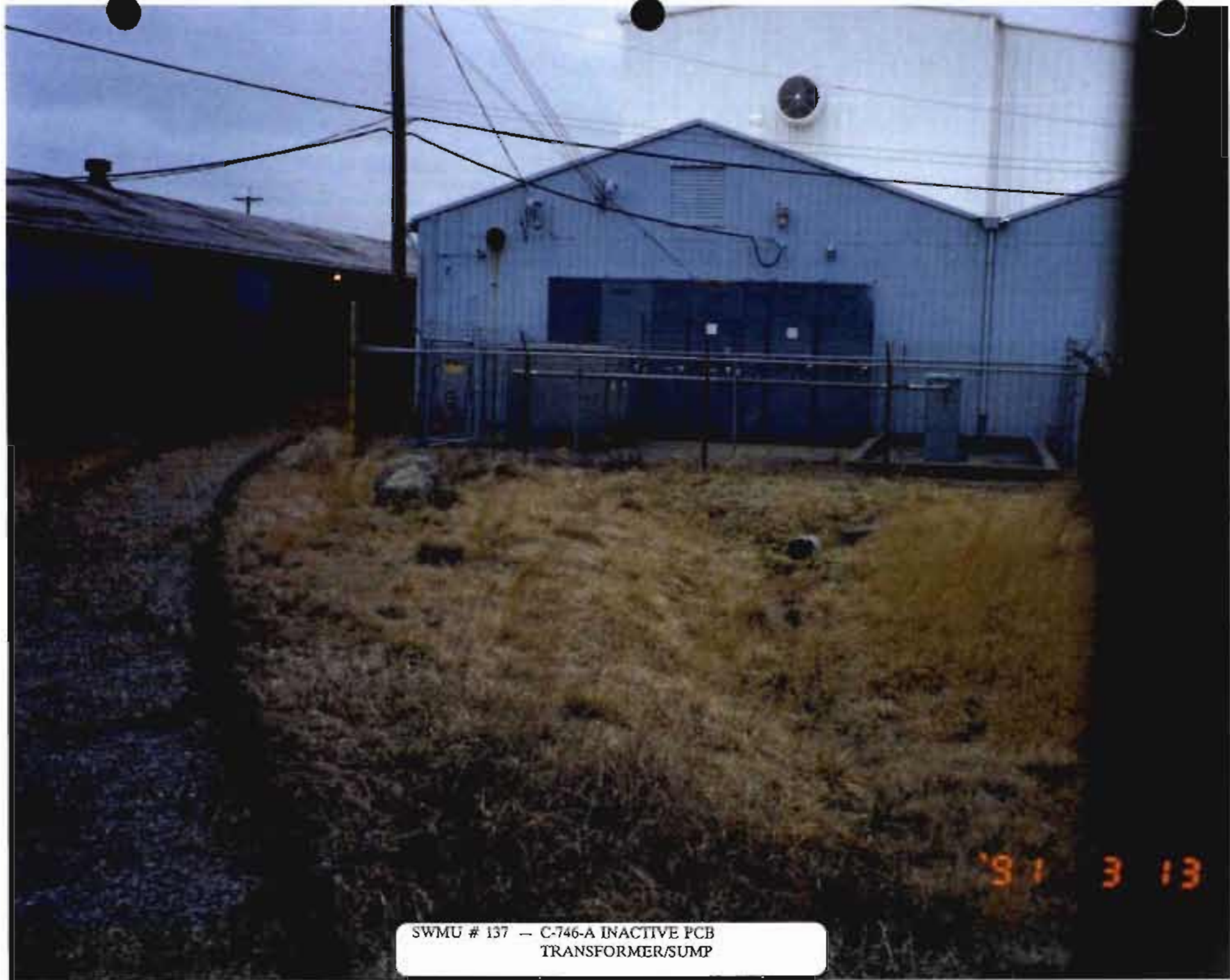
WASTE DESCRIPTION: Possible PCB contaminated water

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible migration of PCB contaminated water released to the sewer system through the sump. No releases have been recorded.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



SWMU # 137 — C-746-A INACTIVE PCB
TRANSFORMER/SUMP

UNIT NUMBER SWMU 138

UNIT NAME C-100 South Side Berms

REGULATORY STATUS: AOC

LOCATION: South Side C-100

APPROXIMATE DIMENSIONS: 2 berms approximately 200 ft long by 50 ft wide each

FUNCTION: Landscaping

OPERATIONAL STATUS: In place

DATES OPERATED: 1979 to present

SITE/PROCESS DESCRIPTION: Berms were added as part of a landscaping project

WASTE DESCRIPTION: Mercury and lead

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Sludge from the C-611 lagoon and C-615 sewage treatment plant sludge was used as fill material for a landscaping project.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: Characterization data indicates mercury (range 2.16 - 34.3 ppm) and lead (range 7.2 - 280.5 ppm) are present in the Berms.



SWMU # 138 — C-100 SOUTH SIDE BERMS
(C-611/615 SLUDGE ?)

UNIT NUMBER SWMU 139

UNIT NAME C-746-A1

REGULATORY STATUS: AOC

LOCATION: Northwest corner of C-746-A

APPROXIMATE DIMENSIONS: 4000 gallons

FUNCTION: Underground storage tanks

OPERATIONAL STATUS: Inactive

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Underground Diesel Storage Tank

WASTE DESCRIPTION: Diesel

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible Diesel leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

NOTICE
STORAGE TANK
CLOSED
DO NOT USE

UNLabeled
- C-746-A1

'9 : 3 13

SWMU # 139 - C-746-A1 (UST)

UNIT NUMBER SWMU 140

UNIT NAME C-746-A2

REGULATORY STATUS: AOC

LOCATION: Northwest corner of 746-A

APPROXIMATE DIMENSIONS: 4000 gallons

FUNCTION: Diesel storage

OPERATIONAL STATUS: Inactive

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Underground storage tank

WASTE DESCRIPTION: Diesel

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible diesel leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

NOTICE
STORAGE TANK
CLOSED
DO NOT USE

Handwritten label on a small sign above a black cap, possibly containing site identification or date information.

9 3 13

SWMU # 140 — C-746-A2 (UST)

UNIT NUMBER SWMU 141

UNIT NAME C-720 Inactive TCE Degreaser

REGULATORY STATUS: AOC

LOCATION: C-720 Building

APPROXIMATE DIMENSIONS: Approx. 10 ft by 10 ft by 20 ft deep

FUNCTION: Used for cleaning machine parts and equipment

OPERATIONAL STATUS: Inactive

DATES OPERATED: 1970's

SITE/PROCESS DESCRIPTION: The TCE degreaser pit consist of a steel tank approx. 10 ft by 10 ft by 20 ft deep. Located in a basement in C-720 it is raised above the basement floor on stanchions. TCE from the C-720 degreaser was drained via aboveground piping to the C-720 compressor pit water storage tank (swmu #31), which is located outside at the northeast corner of the C-720 Building.

WASTE DESCRIPTION: TCE

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Possible TCE leakage

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO

No releases are known to have occurred at the C-720 Degreaser or from the associated piping. The only release pathway into the environment would be leaks or spills that occurred at the point the aboveground piping associated with the degreaser discharges into the C-720 aboveground tank (swmu #31)). Contamination that was detected in the vicinity of swmu's #31 and 27 is being addressed under the CERCLA ACO.



SWMU # 141 - C-720 INACTIVE TCE DEGREASER

UNIT NUMBER SWMU 142

UNIT NAME C-750A Gasoline UST

REGULATORY STATUS: AOC

LOCATION: Southeast corner C-750

APPROXIMATE DIMENSIONS: 10,000 gallon

FUNCTION: Gasoline storage

OPERATIONAL STATUS: Removed

DATES OPERATED: 1950's to 1989

SITE/PROCESS DESCRIPTION: Underground storage tank

WASTE DESCRIPTION: Gasoline

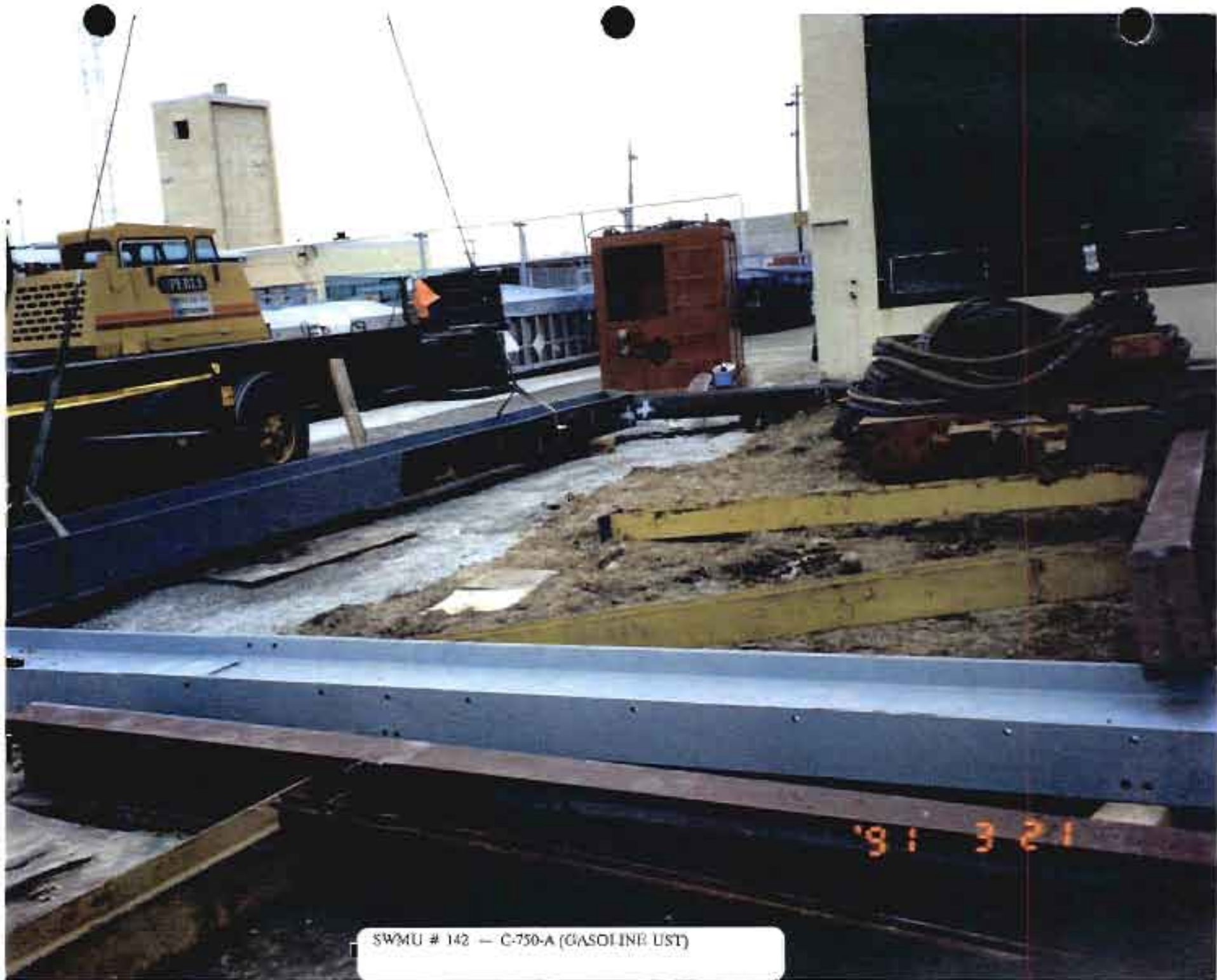
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Leakage from underground storage tank

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO

Currently being addressed under the state of Kentucky
Underground Storage Tank Program.



SWMU # 142 — C-750-A (GASOLINE UST)

UNIT NUMBER SWMU 143

UNIT NAME C-750B Diesel UST

REGULATORY STATUS: AOC

LOCATION: Southeast corner of C-750

APPROXIMATE DIMENSIONS: 10,000 gallon

FUNCTION: Diesel storage

OPERATIONAL STATUS: Removed

DATES OPERATED: 1950's to 1989

SITE/PROCESS DESCRIPTION: Underground storage tank

WASTE DESCRIPTION: Diesel

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Leakage of diesel

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO

Currently being addressed under the State of Kentucky
Underground Storage Tank Program.



SWMU # 143 — C-750-B (DIESEL UNIT)

UNIT NUMBER 144

UNIT NAME C-746-A Hazardous and Mixed Waste Storage Facility

REGULATORY STATUS: SWMU

LOCATION: C-746-A

APPROXIMATE DIMENSIONS: 44,000 sq ft, Refer to RCRA Part B Permit Application Section D-80 for additional details

FUNCTION: Storage of hazardous and mixed wastes

OPERATIONAL STATUS: Active

DATES OPERATED: October 1989 to present

SITE/PROCESS DESCRIPTION: Metal building with metal pan-type design used for secondary containment.

WASTE DESCRIPTION: Wastes stored are limited to liquids, solids, and sludges which are hazardous due to the presence of toxic metals or TCLP constituents and spent solvents. Refer to RCRA Part B Permit Application, section D table D-17 for list of waste.

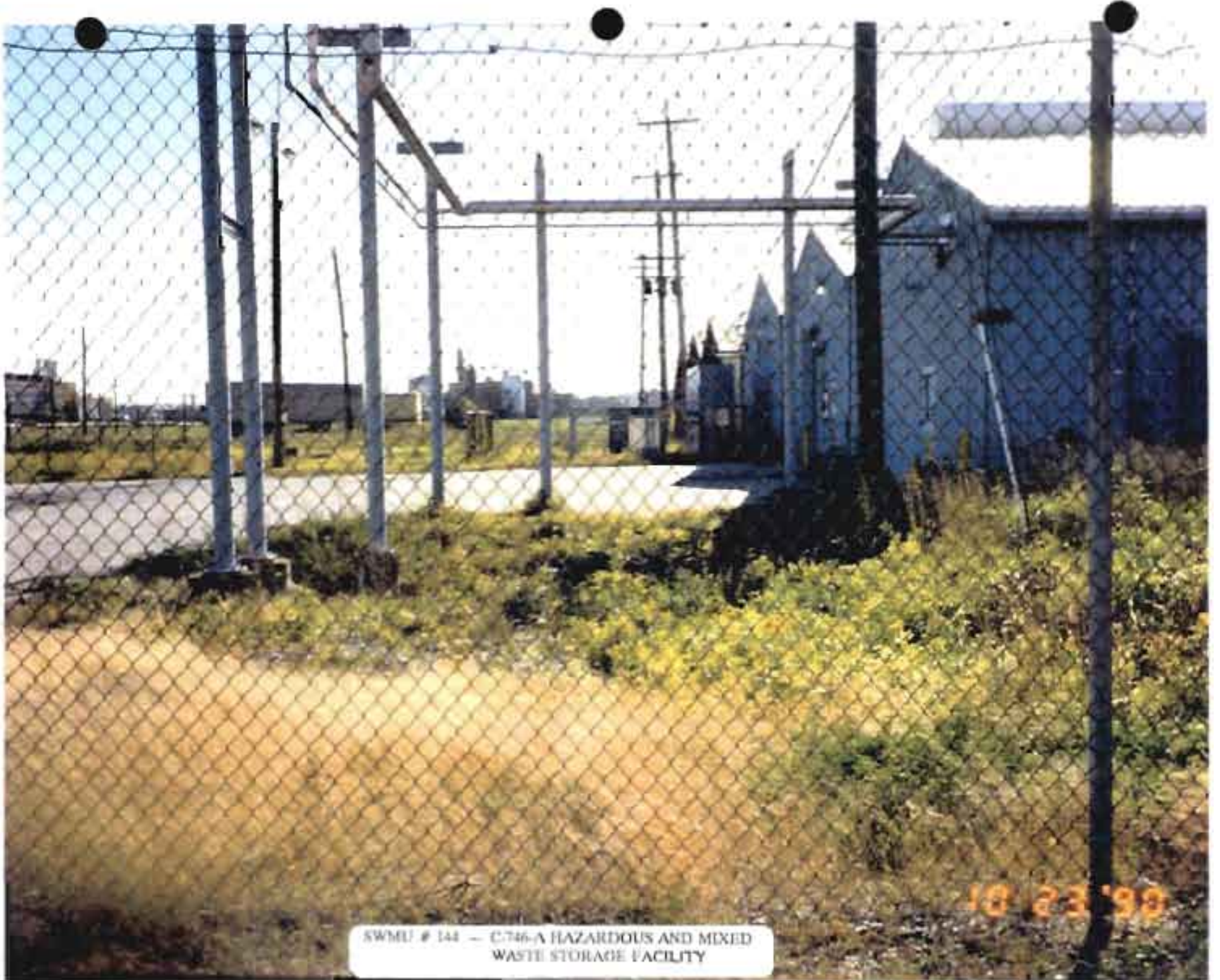
WASTE QUANTITY: Refer to RCRA Part B Permit Application section D-80 for storage capacities.

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO

This unit is a permitted RCRA unit that will undergo formal closure in accordance with RCRA regulations.



SWMU # 144 — C-746-A HAZARDOUS AND MIXED
WASTE STORAGE FACILITY

UNIT NUMBER SWMU 145

UNIT NAME Residential/Inert Landfill Borrow Area

REGULATORY STATUS: AOC

LOCATION: East side of PGDP landfill permitted boundary

APPROXIMATE DIMENSIONS: 25 ft by 25 ft (area uncovered)

FUNCTION: Spoils area during original construction (Borrow area for plant landfills)

OPERATIONAL STATUS: Inplace

DATES OPERATED: Unknown (probably used as spoils area during the early 50's)

SITE/PROCESS DESCRIPTION: Spoils landfill and borrow area

WASTE DESCRIPTION: Roof shingles containing asbestos, wire, and wood

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Area contains wire, wood, and shingles containing asbestos. A survey (spot check) of the area for bulk RCRA metals, PCB's, and radionuclides did not identify any items of concern.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

UNIT NUMBER SWMU 145

UNIT NAME Residential/Inert Landfill Borrow Area

REGULATORY STATUS: AOC

LOCATION: East side of PGDP landfill permitted boundary

APPROXIMATE DIMENSIONS: 25 ft by 25 ft (area uncovered)

FUNCTION: Spoils area during original construction (Borrow area for plant landfills)

OPERATIONAL STATUS: Inplace

DATES OPERATED: Unknown (probably used as spoils area during the early 50's)

SITE/PROCESS DESCRIPTION: Spoils landfill and borrow area

WASTE DESCRIPTION: Roof shingles containing asbestos, wire, and wood

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Area contains wire, wood, and shingles containing asbestos. A survey (spot check) of the area for bulk RCRA metals, PCB's, and radionuclides did not identify any items of concern. Update 12/6/91 - Analytical data identified PCB's in a range from less than detectable to 1.3 ppm.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES

SWMU 145 has been assigned to Waste Area Group 11 and will be investigated under RFI no. 1.



SWMU # 145 — RESIDENTIAL INERT LANDFILL
BARROW AREA

UNIT NUMBER SWMU 146

UNIT NAME Rubble pile 40

REGULATORY STATUS: AOC

LOCATION: Shelby Lake Dam, about 1000 ft west of Ballard Wildlife Management Area Headquarters

APPROXIMATE DIMENSIONS: 200 ft long, base 300 ft wide, top 20 ft wide, 10 ft deep

FUNCTION: Control Shelby Lake level and provide roadway

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes rubble for daam and road stabilization. This concrete rubble originates from many locations, one of which was PGDP.

WASTE DESCRIPTION: Concrete rubble

WASTE QUANTITY: Unknown - Possibly up to 2000 cubic yards. It is also unknown what fraction, if any, of this material came from the PGDP.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 146 — CONCRETE RUBBLE PILE (40)

'91 9 12

UNIT NUMBER SWMU 147

UNIT NAME Rubble pile 41

REGULATORY STATUS: AOC

LOCATION: Butler Lake Dam, West end of Butler Lake

APPROXIMATE DIMENSIONS: 200 ft long, base 30 ft wide, top 20 ft wide, 10 ft deep

FUNCTION: Control Butler Lake level and provide roadway

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes concrete rubble for dam and road stabilization. This concrete rubble originates from many locations, one of which was the PGDP.

WASTE DESCRIPTION: Concrete rubble

WASTE QUANTITY: Unknown possibly up to 2000 cubic yards. It is also unknown what fraction, if any, of this material came from the PGDP.

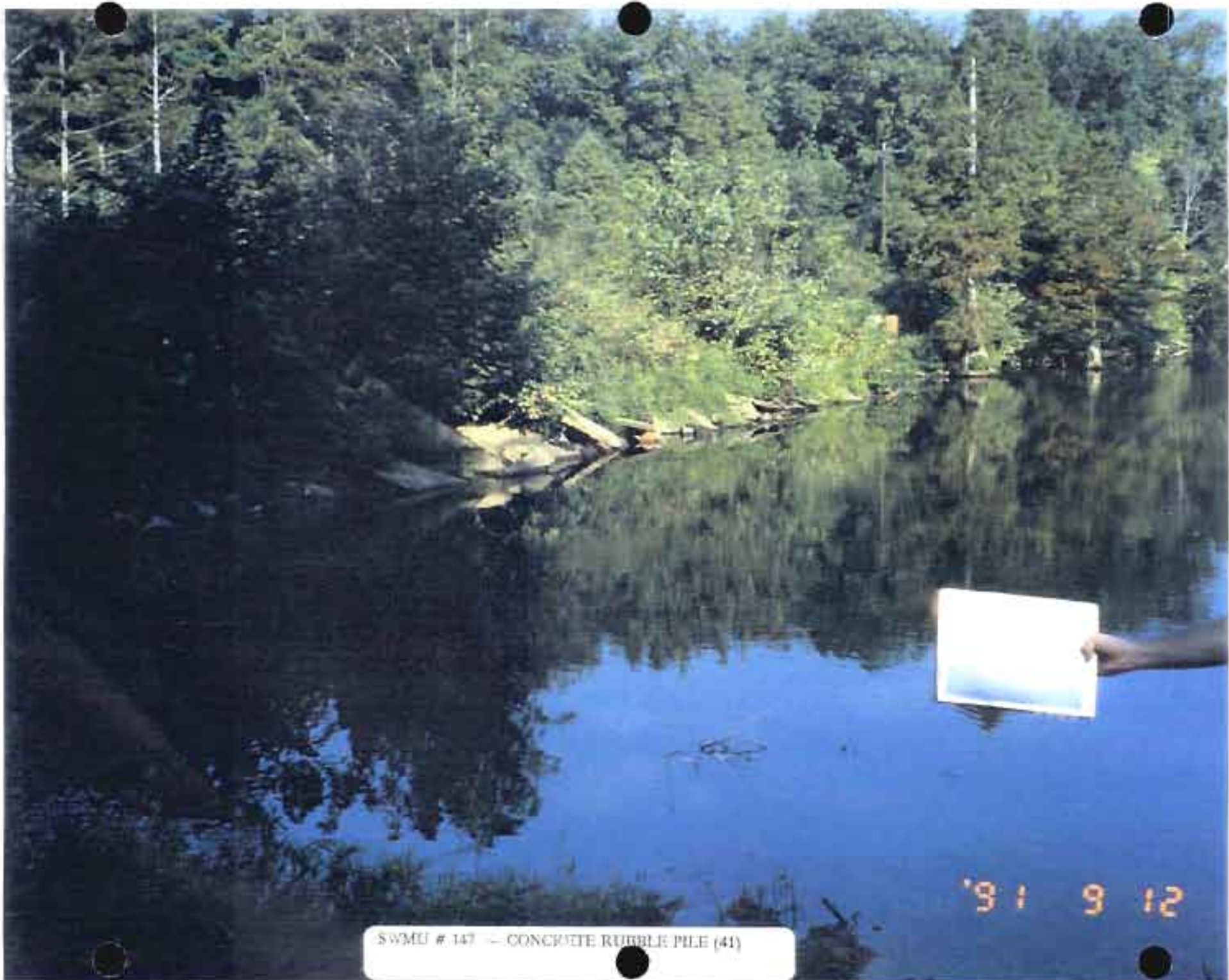
DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES

SVMU # 147 -- CONCRETE RUBBLE PILE (41)

'91 9 12



UNIT NUMBER SWMU 148

UNIT NAME Rubble Pile 42

REGULATORY STATUS: AOC

LOCATION: Culverts near Burnt Slough, about 1800 ft south of Ohio River at
Burnt Slough

APPROXIMATE DIMENSIONS: Two areas totaled about 100 ft long with concrete
rubble visible on sides

FUNCTION: Roadway stabilization

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes concrete
rubble for dam and road stabilization. This
concrete rubble originates from many locations, one
of which was the PGDP.

WASTE DESCRIPTION: Concrete - concrete block rubble

WASTE QUANTITY: Unknown - appeared to be less than 20 cubic yards. It is also
unknown what fraction, if any, of this material came from the
PGDP.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 148 - CONCRETE RUBBLE PILE (42)

'91 8 12

UNIT NUMBER SWMU 149

UNIT NAME Rubble pile 43

REGULATORY STATUS: AOC

LOCATION: West end of Happy Hollow Lake

APPROXIMATE DIMENSIONS: 200 ft long by 4 ft wide - concrete 4-6 in thickness

FUNCTION: Erosion control of dam face

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes concrete rubble for dam and road stabilization. This concrete rubble originates from many locations, one of which was the PGDP.

WASTE DESCRIPTION: Concrete slabs

WASTE QUANTITY: About 15 cubic yards. It is also unknown what fraction, if any, of this material came from the PGDP.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 149 - CONCRETE RUBBLE PILE (45)

9 1 9 12

UNIT NUMBER SWMU 150

UNIT NAME: Rubble pile 44

REGULATORY STATUS: AOC

LOCATION: West end of Caster Lake

APPROXIMATE DIMENSIONS: 300 ft long, base 30 ft wide, top 20 ft wide, 10 ft deep

FUNCTION: Control Caster Lake level and provide roadway

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes concrete rubble for dam and road stabilization. This concrete rubble originates from many locations, one of which was the PGDP.

WASTE DESCRIPTION: Concrete rubble

WASTE QUANTITY: Unknown - possibly up to 3000 cubic yards. It is also unknown what fraction, if any, of this material came from the PGDP.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



SWMU # 150 - CONCRETE RUBBLE PILE (44)

UNIT NUMBER SWMU 151

UNIT NAME Rubble pile 45

REGULATORY STATUS: AOC

LOCATION: West end of Mitchell Lake

APPROXIMATE DIMENSIONS: 2000 ft long, 4 ft wide, 1 ft thick

FUNCTION: Control erosion on face of dam

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes concrete rubble for dam and road stabilization. This concrete rubble originates from many locations, one of which was the PGDP. The causeway across west end of lake has concrete slabs and rubble on lake side.

WASTE DESCRIPTION: Concrete rubble

WASTE QUANTITY: About 3000 cubic yards. It is also unknown what fraction, if any, of this material came from the PGDP.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES

SWMU # 151 - CONCRETE PILE (45)

151 9 10



UNIT NUMBER SWMU 152

UNIT NAME Rubble pile 46

REGULATORY STATUS: AOC

LOCATION: 2000 ft southwest of curve on Kentucky Highway 473 - near east end of Mitchell Lake

APPROXIMATE DIMENSIONS: -About- 100 ft by 100 ft

FUNCTION: Storage area -- used concrete, brick, and other material placed here for future use.

OPERATIONAL STATUS: In place

DATES OPERATED: Unknown

SITE/PROCESS DESCRIPTION: Ballard Wildlife Management Area utilizes concrete rubble for dam and road stabilization. This concrete rubble originates from many locations, one of which was the PGDP.

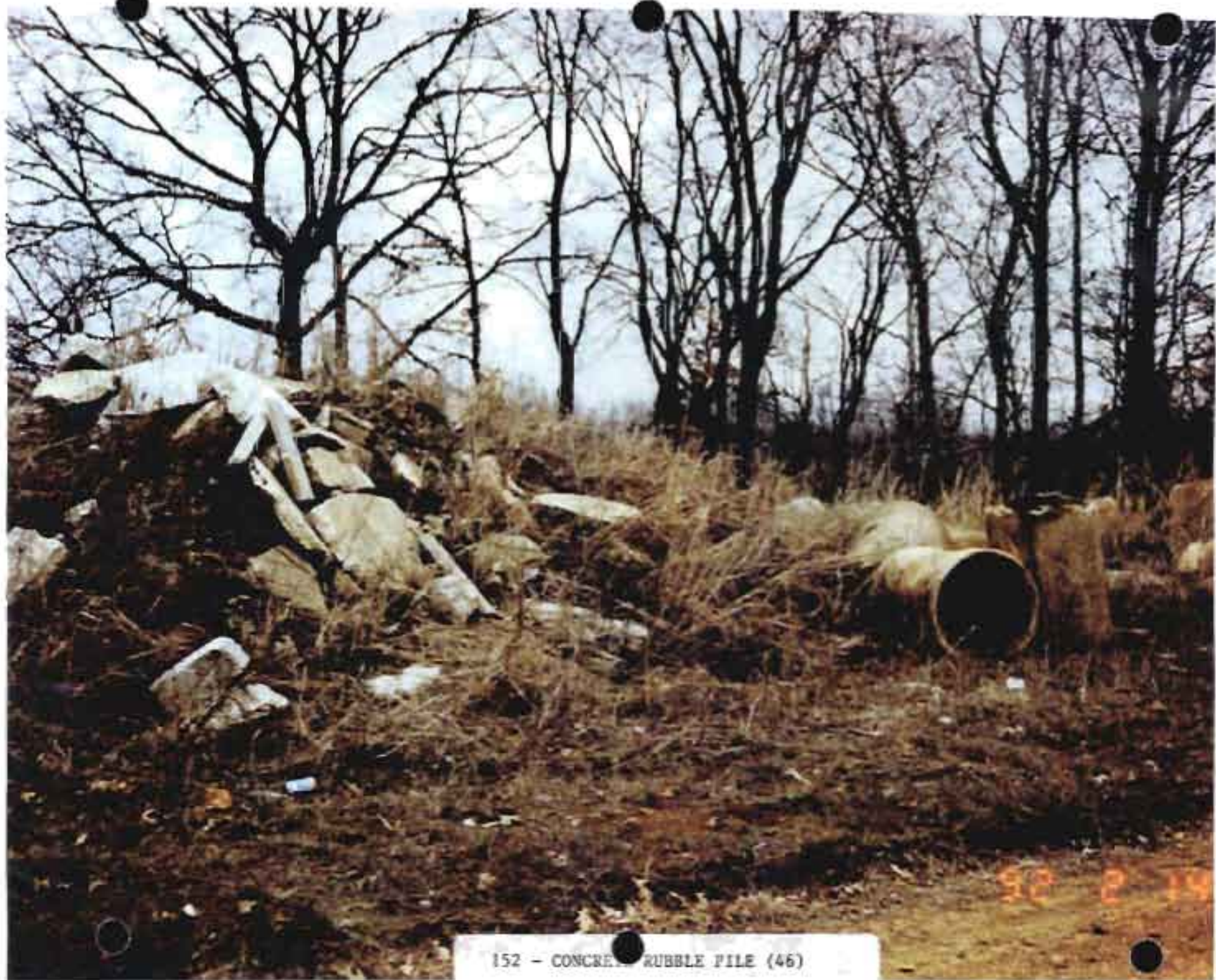
WASTE DESCRIPTION: Concrete rubble, used brick, and gravel

WASTE QUANTITY: About 50 cubic yard. It is also unknown what fraction, if any, of this material came from the PGDP.

DESCRIPTION OF RELEASE: Not available at this time

DOCUMENTATION OF NO RELEASE: Not available at this time

RFI NECESSARY: YES



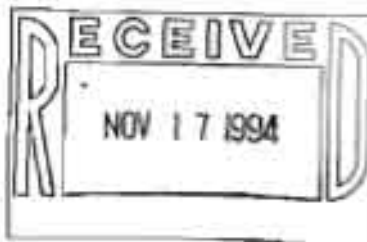
152 - CONCRETE RUBBLE PILE (46)

PGDP

PADUCAH GASEOUS DIFFUSION PLANT

MARTIN MARIETTA

MANAGED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY



KY/B-262
Addendum 2

PRELIMINARY ASSESSMENT

PADUCAH GASEOUS DIFFUSION PLANT
SOLID WASTE MANAGEMENT UNITS

Donald M. Ulrich

December 1991

L.B.-09905-0164

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DATE OF ISSUE: December 1991

DOCUMENT NO.: KY/B-262
Addendum 2

PRELIMINARY ASSESSMENT
PADUCAH GASEOUS DIFFUSION PLANT
SOLID WASTE MANAGEMENT UNITS

Donald M. Ulrich

Environmental Restoration
Environmental, Safety and Health

Prepared by the
Paducah Gaseous Diffusion Plant
Paducah, Kentucky 42001
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U. S. DEPARTMENT OF ENERGY
Under Contract No. DE-AC05-76OR00001

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C5E-16924-9034 *5	C5E-16924-9027
C5E-16924-9035 *1	C5E-16924-9017 *5
C5E-16924-8050 *7	C5E-16924-9009 *5

*1 - Incorporated for May 15, 1992, Revision

*2 - Revised for May 15, 1992, Revision

*3 - Incorporated for June 12, 1992, Revision

*4 - Incorporated for October 2, 1992, Revision

*5 - Incorporated for October 29, 1992, Revision

*6 - Incorporated for November 1992 Revision

*7 - Incorporated for January 1993 Revision

REPORT CONTENTS

This report consists of a description of each unit including its approximate location, size, status, and information concerning the types and amounts of waste (if known) associated with the unit, and a description of releases or documentation of no release, if available. Following the description is a color photograph of the unit. Each unit is numbered. The unit is identified by number on the enclosed maps.

UNIT NUMBER: SWMU 153

UNIT NAME: C-331 PCB Soil Contamination - West Side

REGULATORY STATUS: AOC

LOCATION: West side C-331 building

APPROXIMATE DIMENSIONS: 100 feet wide by 420 feet long

FUNCTION: Dust palliative area is used to reduce the amount of dust taken in by the building ventilation systems.

OPERATIONAL STATUS: In place

DATES OPERATED: 1952 to present

SITE/PROCESS DESCRIPTION: The area immediately adjacent to the west side of the C-331 building with a chip and seal surface.

WASTE DESCRIPTION: PCB

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Sampling in two areas approximately 100 feet by 210 feet each, identified 0.6 ppm and 0.3 ppm PCB in 5 point composite samples.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

This area is located inside the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 ppm cleanup level for PCB contaminated soils in restricted areas.



153 - C-331 PCB SOIL CONTAMINATION
WEST SIDE

UNIT NUMBER: SWMU 154

UNIT NAME: C-331 PCB Soil Contamination -
Southeast side

REGULATORY STATUS: AOC

LOCATION: Southeast side C-331 building

APPROXIMATE DIMENSIONS: 3 areas: area 1- south side 100 feet wide by 160 feet long; area 2- southeast corner 100 feet wide by 160 feet long; area 3- east side 100 feet wide by 210 feet long

FUNCTION: Dust palliative area is used to reduce the amount of dust taken in by the building ventilation systems.

OPERATIONAL STATUS: In place

DATES OPERATED: 1952 to present

SITE/PROCESS DESCRIPTION: The areas immediately adjacent to the south and east side of the C-331 building with a chip and seal surface.

WASTE DESCRIPTION: PCB

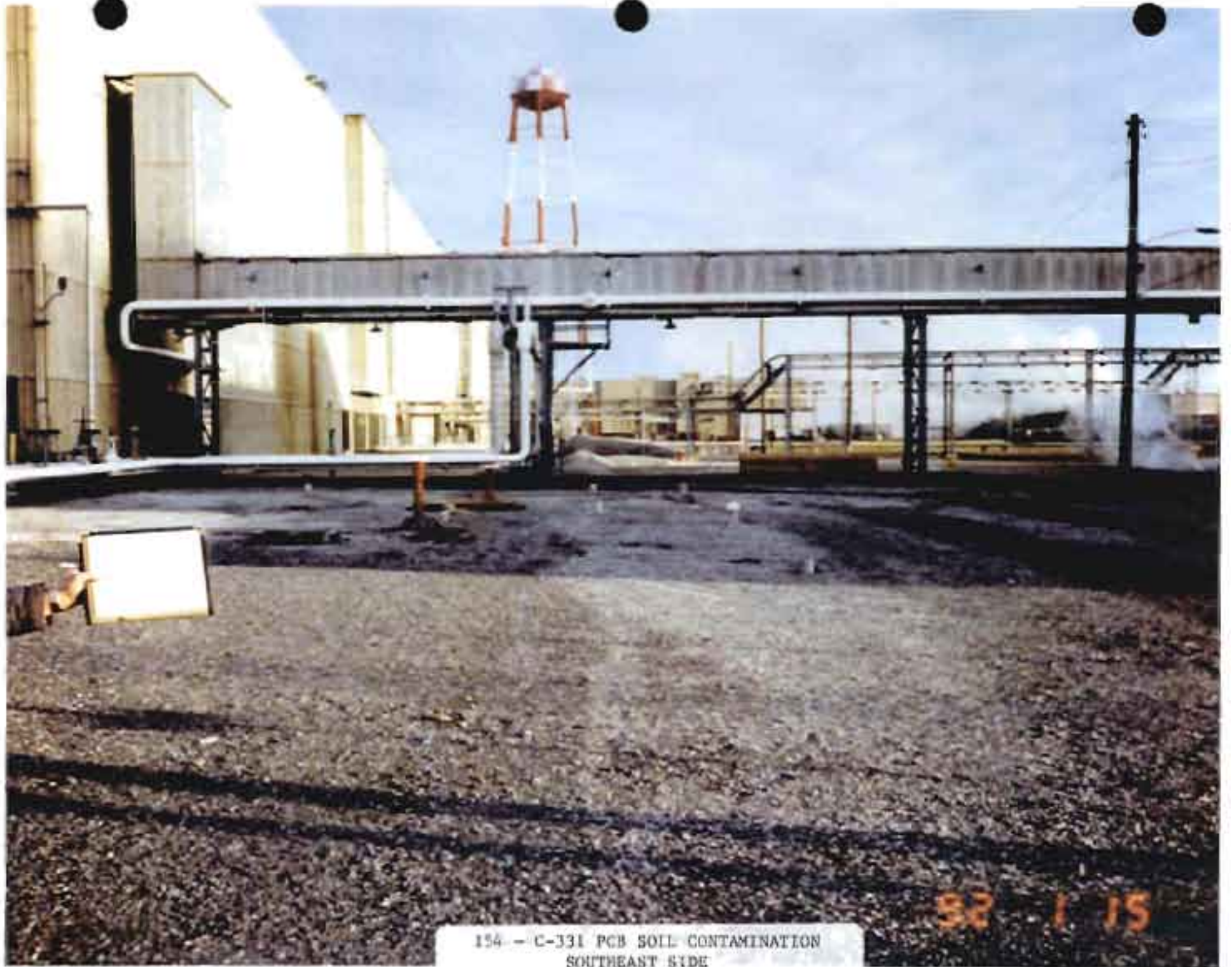
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Sampling in the three areas using 5 point composite identified the following: area 1- 3.2 ppm PCB; area 2- 1.7 ppm PCB; area 3- 0.4 ppm PCB

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

This area is located inside the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 ppm cleanup level for PCB contaminated soils in restricted areas.



154 -- C-331 PCB SOIL CONTAMINATION
SOUTHEAST SIDE

52 1 15

UNIT NUMBER: SWMU 155

UNIT NAME: C-333 PCB Soil Contamination -
West side

REGULATORY STATUS: AOC

LOCATION: West side C-333 building

APPROXIMATE DIMENSIONS: 2 areas approximately 100 feet wide by 150 feet long each.

FUNCTION: Dust palliative area is used to reduce the amount of dust taken in by the building ventilation systems.

OPERATIONAL STATUS: In place

DATES OPERATED: 1952 to present

SITE/PROCESS DESCRIPTION: The areas immediately adjacent to the west side of the C-333 building with a chip and seal surface.

WASTE DESCRIPTION: PCB

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Sampling using 5 point composites in 2 areas identified the following: area 1- 17 ppm PCB; area 2- 3.5 ppm PCB.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



155 - C-333 PCB SOIL CONTAMINATION
WEST SIDE

UNIT NUMBER: SWMU 156

UNIT NAME: C-310 PCB Soil Contamination- West Side

REGULATORY STATUS: AOC

LOCATION: West side C-310 building

APPROXIMATE DIMENSIONS: 100 feet wide by 160 feet long

FUNCTION: Dust palliative area is used to reduce the amount of dust taken in by the building ventilation systems.

OPERATIONAL STATUS: In place

DATES OPERATED: 1952 to present

SITE/PROCESS DESCRIPTION: The areas immediately adjacent to the west side of the C-310 building with a chip and seal surface.

WASTE DESCRIPTION: PCB

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Sampling using 5 point composite identified the following: 0.3 ppm PCB.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

This area is located inside the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 PPM cleanup level for PCB contaminated soils in restricted areas.



156 - C-310 PCB SOIL CONTAMINATION
WEST SIDE

UNIT NUMBER: SWMU 157

UNIT NAME: KOW Toluene Spill Area

REGULATORY STATUS: AOC

LOCATION: Southwest of plant site

APPROXIMATE DIMENSIONS: 200 feet wide by 800 feet long

FUNCTION: Storage of Toluene

OPERATIONAL STATUS: Inactive- storage tanks are no longer present

DATES OPERATED: 1941 to mid to late 1940's

SITE/PROCESS DESCRIPTION: 3 large above ground tanks were present during the 1940's for toluene storage. The area is now grown over with brush and no tanks are present.

WASTE DESCRIPTION: Toluene

WASTE QUANTITY: approximately 23,000 pounds

DESCRIPTION OF RELEASE: On March 15, 1945, a new plant tank car for toluene transport was received and put into service. Due to an oversight, the car was loaded with toluene while it reportedly contained residual amounts of road oil. According to documents, the spill occurred when "the contaminated car was filled with toluene from the service tank and the remainder run on the ground." Exact location of the spill was not documented.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



157 - KOW TOLL SPILL AREA

UNIT NUMBER: SWMU 158

UNIT NAME: Chilled Water System Leak Site

REGULATORY STATUS: AOC

LOCATION: Southeast side C-720 building

APPROXIMATE DIMENSIONS: 10 feet wide by 30 feet long

FUNCTION: Provide cooling water for computer systems and HVAC systems in various plant buildings.

OPERATIONAL STATUS: Active

DATES OPERATED: 1953 to present

SITE/PROCESS DESCRIPTION: Chilled waterlines are located under concrete pad near C-720 Truck Alley. Underground electrical vaults were also associated with the spill.

WASTE DESCRIPTION: Chromated water

WASTE QUANTITY: Approximately 3500 gallons

DESCRIPTION OF RELEASE: The chilled water system lines developed a pinhole leak which flooded an adjacent electrical vault and spilled over to another connected vault. Water sampled in the vault was reported at 100 ppm Cr+6.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



158 - CHILLED WATER SYSTEM LEAK SITE

UNIT NUMBER: SWMU 159

UNIT NAME: C-746-H3 Storage Pad

REGULATORY STATUS: SWMU

LOCATION: North of C-720 building on Tennessee Ave.

APPROXIMATE DIMENSIONS: 170 feet wide by 350 feet long

FUNCTION: Storage of investigation derived waste

OPERATIONAL STATUS: Active

DATES OPERATED: 1988 to present

SITE/PROCESS DESCRIPTION: A concrete pad surrounded by a fence for access control.

WASTE DESCRIPTION: Soil cuttings, drill mud, purge and development water, personal protective equipment, and decon water are stored in containers (drums and tanks) on the pad.

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Only minor spills of nonhazardous decon and develop water are known to have occurred. The only RCRA constituent associated with past spills is PCBs. The PCBs were detected in storm water runoff from the switchyards at concentrations of < 2 ppb. The area of the spill was immediately decontaminated after the spill.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA



159 - C-746-H3 STO PAD



159 - C-746-H3 STORAGE PAD

UNIT NUMBER: SWMU 160

UNIT NAME: C-745 Cylinder Yard Spoils Area-
PCB Soil Contamination

REGULATORY STATUS: AOC

LOCATION: Southwest of C-633 Cooling Towers

APPROXIMATE DIMENSIONS: 300 feet wide by 500 feet long

FUNCTION: Storage of excavated soils and soils used for fill.

OPERATIONAL STATUS: inplace

DATES OPERATED: 1989 to present

SITE/PROCESS DESCRIPTION: Excavated soils were used as fill for other projects
at the plant.

WASTE DESCRIPTION: Possible PCB in soil

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Site characterization information identified 0.3 ppm
PCB in one 5 point composite sample.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

This area is located inside the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 ppm cleanup level for PCB contaminated soils in restricted areas.



160 - C-745 CYLINDRICAL SPILLS AREA
PCE SOIL CONTAMINATION

UNIT NUMBER: SWMU 161

UNIT NAME: C-743 Training Trailer Complex-
Soil Backfill

REGULATORY STATUS: AOC

LOCATION: Southwest of C-743 building

APPROXIMATE DIMENSIONS: 200 feet wide by 200 feet long

FUNCTION: Trailers used for office areas.

OPERATIONAL STATUS: Inplace

DATES OPERATED: 1991 to present

SITE/PROCESS DESCRIPTION: Soils used from borrow area during construction may have contained PCBs.

WASTE DESCRIPTION: Possible PCB in soil

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: Site characterization identified PCBs ranging from less than detectable to 0.6 ppm.

RFI NECESSARY: NFA

This area is located inside the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 ppm cleanup level for PCB contaminated soils in restricted areas.



161 - C-743-T-01 TRAILER SITE
SOIL BACKFILL

UNIT NUMBER: SWMU 162

UNIT NAME: C-617-A Sanitary Waterline-
Soil Backfill

REGULATORY STATUS: AOC

LOCATION: Between southeast corner of C-531 Switchyard and C-617-A Water Treatment Facility.

APPROXIMATE DIMENSIONS: 4 feet deep by 250 feet long trench

FUNCTION: Trench for waterline

OPERATIONAL STATUS: Inplace

DATES OPERATED: 1991 to present

SITE/PROCESS DESCRIPTION: Soils used from borrow area (SWMU 160) during construction may have contained PCBs.

WASTE DESCRIPTION: Possible PCB in soil

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Soils from borrow area used during construction had levels of PCBs in a range of less than detectable to 0.3 ppm in a 5 point composite sample.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

This area is located inside the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 ppm cleanup level for PCB contaminated soils in restricted areas.



92 1 15

162 - C-617-A SECONDARY WATER LINE
SOIL BACKFILL

UNIT NUMBER: SWMU 163

UNIT NAME: C-304 Building/HVAC Piping System-
Soil Backfill

REGULATORY STATUS: AOC

LOCATION: Adjacent to C-304 building

APPROXIMATE DIMENSIONS: 100 feet wide by 200 feet long

FUNCTION: Provide as a heat sink for the C-304 HVAC system.

OPERATIONAL STATUS: Inplace

DATES OPERATED: 1990 to Present

SITE/PROCESS DESCRIPTION: Soils used from borrow area (SWMU 23) during construction may have contained PCBs.

WASTE DESCRIPTION: Possible PCB in soil.

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Soils from the C-611-V Lagoon borrow area were used for fill material for C-304 construction activities. The fill material was used as a base for the HVAC piping system and is located approximately 6 feet below grade. The borrow area itself has not been characterized but the lagoon, which is the source for the borrow area, has had several sampling events performed on it in the last 2 years. The results have identified PCB levels from less than detectable to 8.4 ppm.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

This area is located within the Plant Security Fence and is restricted to public access. The TSCA PCB Spill Cleanup Policy establishes a 25 ppm cleanup level for PCB contaminated soils in restricted areas.

The borrow area is currently being characterized, if the results are above the level of concern this SWMU will be assigned to a RFI.



163 - C-304 BUILDING WAC PIPING
SYSTEM - SOIL BACKFILL

UNIT NUMBER: SWMU 164

UNIT NAME: KPDES Outfall Ditch 017 Flume-
Soil Backfill

REGULATORY STATUS: AOC

LOCATION: South of plant on the west side of the access road

APPROXIMATE DIMENSIONS: 30 feet wide by 30 feet long

FUNCTION: Flume is to measure the gallons flow per minute discharge in the ditch.

OPERATIONAL STATUS: Inplace

DATES OPERATED: 10/19/90 to present

SITE/PROCESS DESCRIPTION: Soil backfill from borrow area (SWMU 160) used for construction of flume

WASTE DESCRIPTION: Possible PCB contaminated soil

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Soil used as backfill came from an area which contain PCBs with levels from less than detectable to a 0.3 ppm from a 5 point composite sample.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

The soil present at this location was obtained from a borrow area (SWMU 160) that contained 0.3 ppm. The 0.3 ppm was a result of a 5 point composite sample and could be as high as 1.5 ppm. The concentrations are also below the 10 ppm TSCA cleanup levels for unrestricted areas and the material is located under approximately 1 foot of rip-rap.



164 - KPDES OUTFALL DITCH 017 FLUME
SOIL BACKFILL.

UNIT NUMBER: SWMU 165

UNIT NAME: C-616-L Pipeline and Vault Soil Contamination

REGULATORY STATUS: AOC

LOCATION: North of C-600 building and area adjacent to C-616-L Vault

APPROXIMATE DIMENSIONS: area 1- 105 feet wide by 210 feet long; area 2- 30 feet wide by 130 feet

FUNCTION: Effluent collection system

OPERATIONAL STATUS: Active

DATES OPERATED: 1953 to present

SITE/PROCESS DESCRIPTION: The area collects runoff from the C-600 Coal Pile and is then transferred to the North-South Diversion Ditch.

WASTE DESCRIPTION: Possible PCBs, uranium, and Tc-99

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Characterization of the area has identified elevated levels of PCBs above 1 ppm, uranium above 17 ppm, and Tc-99 in detectable concentrations.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES



165 - C-616-L PIPELINE AND VAULT SOIL
CONTAMINATION

UNIT NUMBER: SWMU 166

UNIT NAME: C-100 Trailer Complex Soil Contamination
(East Side)

REGULATORY STATUS: AOC

LOCATION: Southeast side C-100 building

APPROXIMATE DIMENSIONS: 100 feet wide by 150 feet long

FUNCTION: Trailer site for office areas

OPERATIONAL STATUS: Inplace

DATES OPERATED: 1990 to present

SITE/PROCESS DESCRIPTION: Location of trailers for office areas

WASTE DESCRIPTION: Tc-99


WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Characterization of the area has identified Tc-99
present in a range from 9.4 to 17 pCi/g

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NFA

The maximum concentrations of Tc-99 detected is 17 pCi/g. This concentration is significantly below the 10⁻⁶ risk level (262 pCi/g) for Tc-99, as presented in the draft Phase II Public Health and Ecological Assessment.



166 - C-100 TRAILER COMPLEX SOIL
CONTAMINATION (EAST SIDE)

32 1 15

UNIT NUMBER: 167

5/11/92

UNIT NAME: C-720 Whiteroom Sump

REGULATORY STATUS: SWMU

LOCATION: C-720 Building near column B-9

APPROXIMATE DIMENSIONS: 8 ft deep by 6 ft wide by 8 ft long

FUNCTION: Effluent tank

OPERATIONAL STATUS: Inactive

DATES OPERATED: Mid 1960s through Mid 1970s

SITE/PROCESS DESCRIPTION: The C-720 Whiteroom sump is a below grade tank that was used to receive waste solutions from printed circuit board operations. The tank was constructed to receive the solution on one side and allow it to pass through limestone to neutralize any acids, then it would discharge into the C-720 storm sewer system.

WASTE DESCRIPTION: Possible contaminants include cyanides, gold, silver, tin, lead, and chromium.

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: The one known pathway for for a release to the environment would be through the storm sewer. The plant storm sewer system is currently addressed under WAG 18. The integrity of the tank has not been established and another pathway for release could be leaks from the tank.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO - Disposition of the material in the tank will be made upon completion of characterization. If hazardous materials are identified the material will be removed and the integrity of the tank will be checked. Removal and clean-up of the tank will be handled under the Decontamination and Decommissioning program.



167 - C-720 WHITEROOM SUMP

UNIT NUMBER: 168

5/11/92

UNIT NAME: KPDES Outfall Ditch 013

REGULATORY STATUS: CERCLA AOC

LOCATION: Southeast side of Plant Security Area.

APPROXIMATE DIMENSIONS: 1500 ft in length

FUNCTION: Drainage Ditch

OPERATIONAL STATUS: Active Permitted Outfall Ditch

DATES OPERATED: 1950s to Present

SITE/PROCESS DESCRIPTION: Storm Drainage Ditch

WASTE DESCRIPTION: Storm water and sediments potentially contaminated with chromates and low levels of Dioxins (HpCDD-17 ppb, OCDD-46 ppb).

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: On February 5, 1992, a cooling water spill containing 8-9 ppm Hexavalent chromium occurred at the C-633-5 Cooling Tower. The spill discharged into the adjacent storm sewer which eventually discharges into KPDES Outfall Ditch 013. Additional contaminants that maybe present include Dioxins. Past plant sampling detected 17 ppb-HpCDD and 46 ppb-OCDD in the soils adjacent to the flumes.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES - This SWMU has been incorporated into the investigation for WAGs 5 and 11.



168 - KWDES OUTFALL H 013

12 2 21

UNIT NUMBER: 169

6/8/92

UNIT NAME: C-410-E HF Vent. Surge Protection Tank

REGULATORY STATUS: SWMU.

LOCATION: Immediately South of C-410-E

APPROXIMATE DIMENSIONS: Approximately 150 gallons

FUNCTION: Surge Tank

OPERATIONAL STATUS: Inactive

DATES OPERATED: 1952 - 1977

SITE/PROCESS DESCRIPTION: The unit is an above ground tank used for surge protection. It is part of a system that produced HF for the feed facility.

WASTE DESCRIPTION: Possible presence of chromium.

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: Stains on the ground under the tank indicate that material from the tank has been released to the ground.

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES - Initial sampling of material in the tank indicates chromium maybe present. The material is being resampled due to inconsistencies in the results.



C-410-E HF VENT SURGE PROTECTION TANK

UNIT NUMBER: 170

9/17/92

UNIT NAME: C-729 ACETYLENE BUILDING DRAIN PITS

REGULATORY STATUS: SWMU

LOCATION: Northeast side of C-720

APPROXIMATE DIMENSIONS: Approximately 16 ft. long by 8 ft. wide by 3 ft. deep

FUNCTION: Drain pit to collect residue from acetylene generation operation prior to discharge to storm sewer system.

OPERATIONAL STATUS: Inactive

DATES OPERATED: 1954 - mid 70's

SITE/PROCESS DESCRIPTION: Acetylene was generated for maintenance activities by combining calcium carbide and water. The residue from the operation drained to two outside concrete pits. Standpipes in the pits allowed the sediments to settle out with the effluent draining to the storm sewer system.

WASTE DESCRIPTION: Unknown

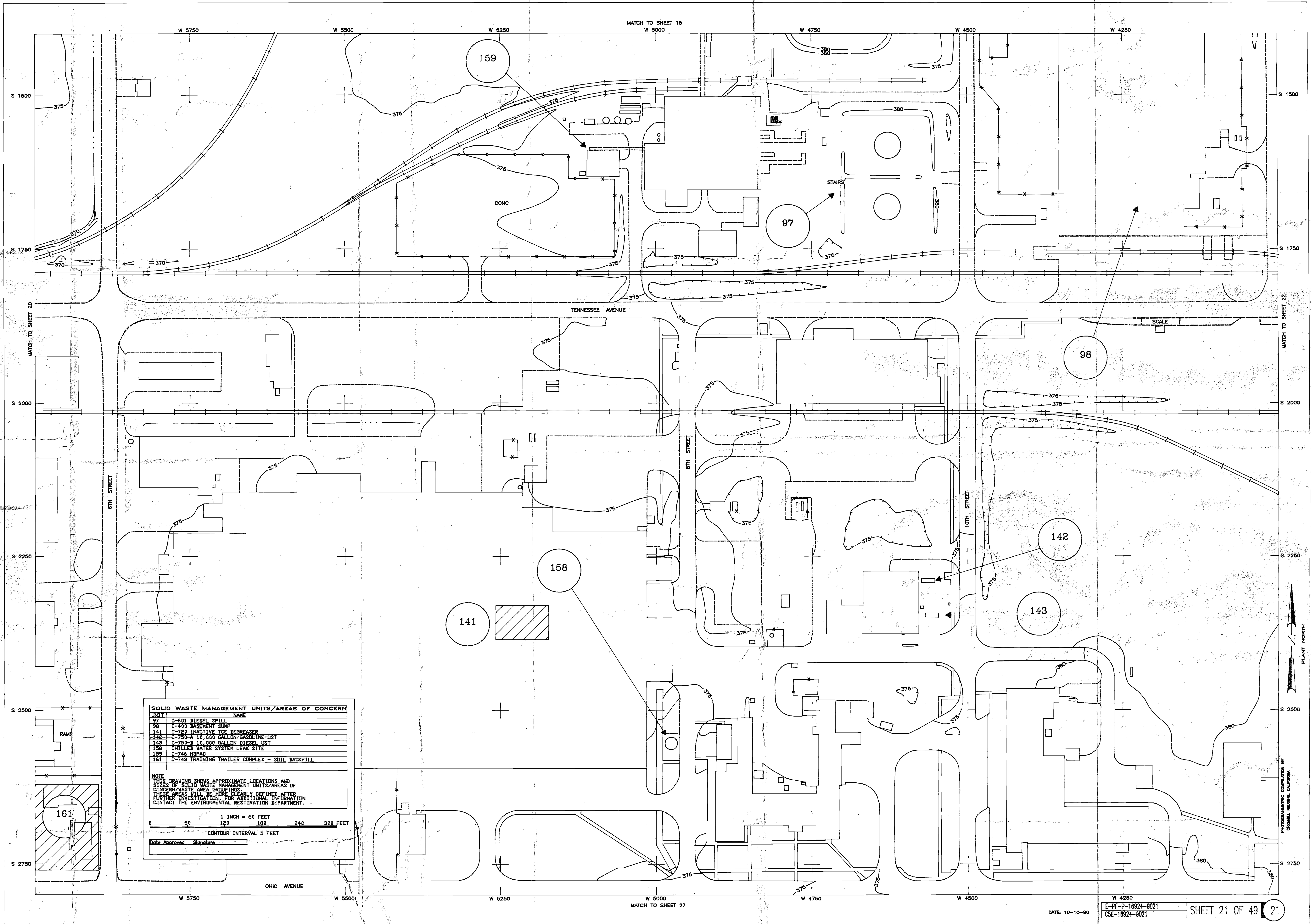
WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: N/A

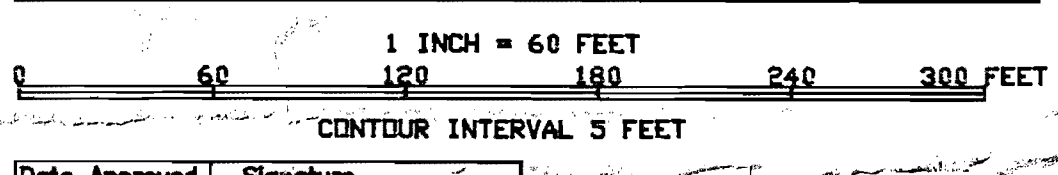
RFI NECESSARY: YES - Sampling of the material in the pits will be performed to determine if any hazardous materials are present. Data will be collected and evaluated to determine actions required to address unit.

Photograph of SWMU 170 to be provided at a later date



SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
97	C-601 DIESEL SPILL
98	C-403 BASEMENT SUMP
141	C-728 INACTIVE TCE DEGREASER
142	C-755-A 10,000 GALLON GASOLINE LUST
143	C-755-B 10,000 GALLON DIESEL LUST
158	CHILLED WATER SYSTEM LEAK SITE
159	C-746 HSPAD
161	C-742 TRAINING TRAILER COMPLEX - SOIL BACKFILL

NOTE
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN. WASTE AREA GROUPINGS ARE DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.



Date Approved: _____
 Signature: _____

PHOTOGRAMMETRIC COMPILED BY
 CORNELL REGIONAL OFFICE
 PLANT NORTH

UNIT NUMBER: 171

10/12/92

UNIT NAME: C-617-A Lagoon

REGULATORY STATUS: AOC

LOCATION: Inside Security Fence east of C-340 Building

APPROXIMATE DIMENSIONS: 130 feet long by 70 feet wide

FUNCTION: Mixing lagoon for chlorine and temperature reduction for effluent ditches.

OPERATIONAL STATUS: Active

DATES OPERATED: October 1991 - Present

SITE/PROCESS DESCRIPTION: Effluent from outfall ditches 002, 010, 011, 012 is routed to the lagoon where Sodium Thiosulfate is added for chlorine reduction. The effluent is then discharged through outfall 010 or 011. The outfalls are monitored for KPDES parameters.

WASTE DESCRIPTION: N/A

WASTE QUANTITY: N/A

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: N/A

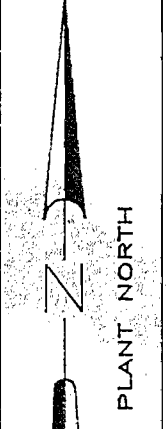
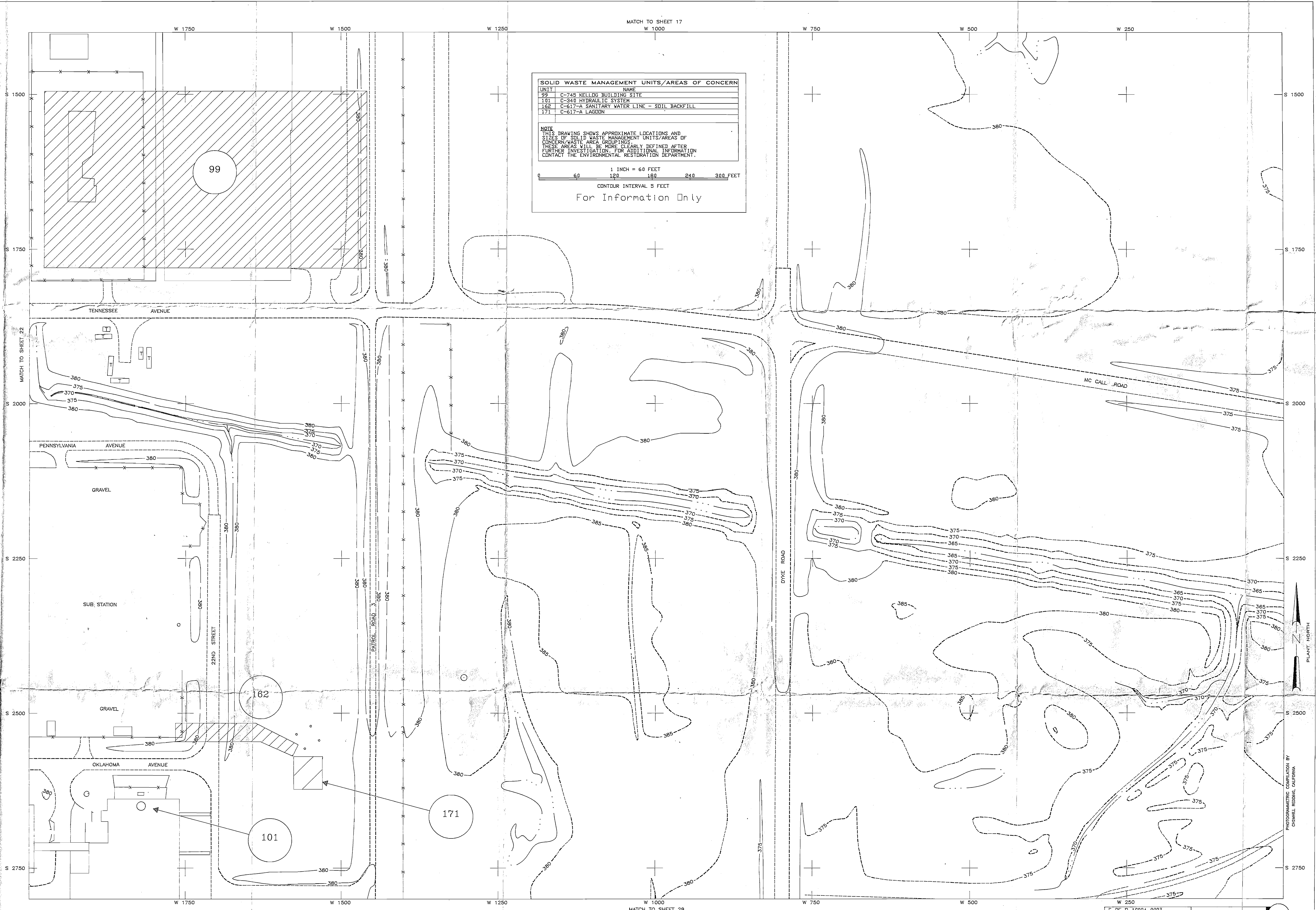
RFI NECESSARY: YES - This unit was identified as an AOC due to the fact that effluent received at the lagoon is from outfall ditches identified as SWMUs.

MATCH TO SHEET 17
W 1000

SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
99	C-745 KELLOGG BUILDING SITE
101	C-840 HYDRAULIC SYSTEM
162	C-617-A SANITARY WATER LINE - SOIL BACKFILL
171	C-617-A LAGOON

NOTE
THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
0 60 120 180 240 300 FEET
CONTOUR INTERVAL 5 FEET
For Information Only



PHOTOGRAMMETRIC CORRELATION BY
DOWNEY REDDING, CALIFORNIA

MATCH TO SHEET 29
W 1000

PHOTOGRAPH TO BE SUPPLIED AT A LATER DATE

UNIT NUMBER: 172

10/12/92

UNIT NAME: C-726 Sandblasting Facility

REGULATORY STATUS: AOC

LOCATION: Inside Security Fence, center of plant at the intersection of Virginia and 10th street.

APPROXIMATE DIMENSIONS: 45 feet long by 40 feet wide

FUNCTION: Sandblasting of equipment.

OPERATIONAL STATUS: Active

DATES OPERATED: Mid-70's through 1989, restarted March 1991 - Present

SITE/PROCESS DESCRIPTION: Cleaning and sandblasting plant equipment. The original facility was a concrete pad with a roof. The facility was shutdown in 1989 and modified to meet air emissions requirements. Modifications included partial enclosure and installation of an air filtering system.

WASTE DESCRIPTION: Unknown

WASTE QUANTITY: Unknown

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: YES - Activities may have included cleaning radiologically contaminated equipment.

PHOTOGRAPH TO BE SUPPLIED AT A LATER DATE

UNIT NUMBER: 173

10/12/92

UNIT NAME: C-746-A Trash Sorting Facility

REGULATORY STATUS: AOC

LOCATION: Inside Security Fence, center of C-746-A Building.

APPROXIMATE DIMENSIONS: 6916 Square Feet

FUNCTION: Sorting and compaction of plant sanitary waste.

OPERATIONAL STATUS: Active

DATES OPERATED: Trash sorting started in August 1989 and compaction started in February 1991.

SITE/PROCESS DESCRIPTION: Plant sanitary waste is received, inspected, and sorted to determine if any hazardous or radiological waste is present. If hazardous or radiological waste is identified it is segregated and handled in accordance with the appropriate requirements. The remaining sanitary waste is then compacted and sent to the PGDP landfill.

WASTE DESCRIPTION: Refer to RFI Necessary section.

WASTE QUANTITY: Approximately 5 tons is processed annually.

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: N/A

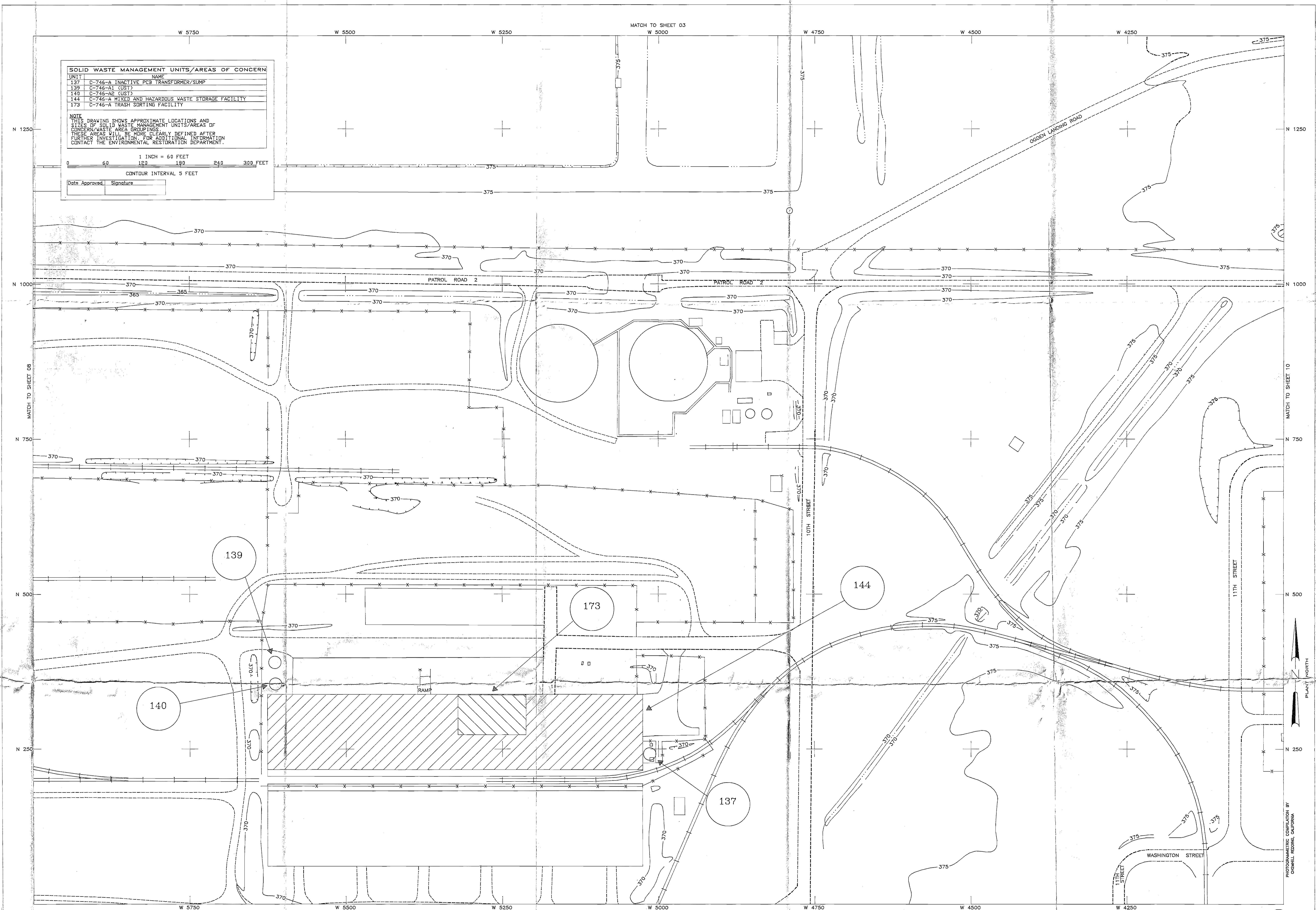
RFI NECESSARY: NO - The C-746-A Trash Sorting Facility is a staging area for the sanitary trash. The trash is sorted to verify non-sanitary trash, i.e. asbestos, PCBs, hazardous, and radioactive is not present. When non-sanitary trash is identified it is segregated and disposed of per the appropriate requirements. The sanitary trash is baled and transported for disposal to the landfill.

SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
137	C-746-A INACTIVE PCB TRANSFORMER/SUMP
139	C-746-A1 (UST)
140	C-746-A2 (UST)
144	C-746-A MIXED AND HAZARDOUS WASTE STORAGE FACILITY
173	C-746-A TRASH SORTING FACILITY

NOTE:
THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN AND AREAS OF CONCERN. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
0 60 120 180 240 300 FEET

CONTOUR INTERVAL 5 FEET
Date Approved: _____ Signature: _____



PHOTOGRAMMETRIC COMPILATION BY
CIGNELL REDDING, CALIFORNIA

PHOTOGRAPH TO BE SUPPLIED AT A LATER DATE

UNIT NUMBER: 174

10/12/92

UNIT NAME: C-745-K Low Level Storage Area

REGULATORY STATUS: AOC

LOCATION: Inside Security Fence, South of C-333 Cascade Building.

APPROXIMATE DIMENSIONS: 215 feet long by 103 feet wide

FUNCTION: Drum storage area.

OPERATIONAL STATUS: Active

DATES OPERATED: January 1991 - Present.

SITE/PROCESS DESCRIPTION: Drums low level waste are placed in the area for storage.

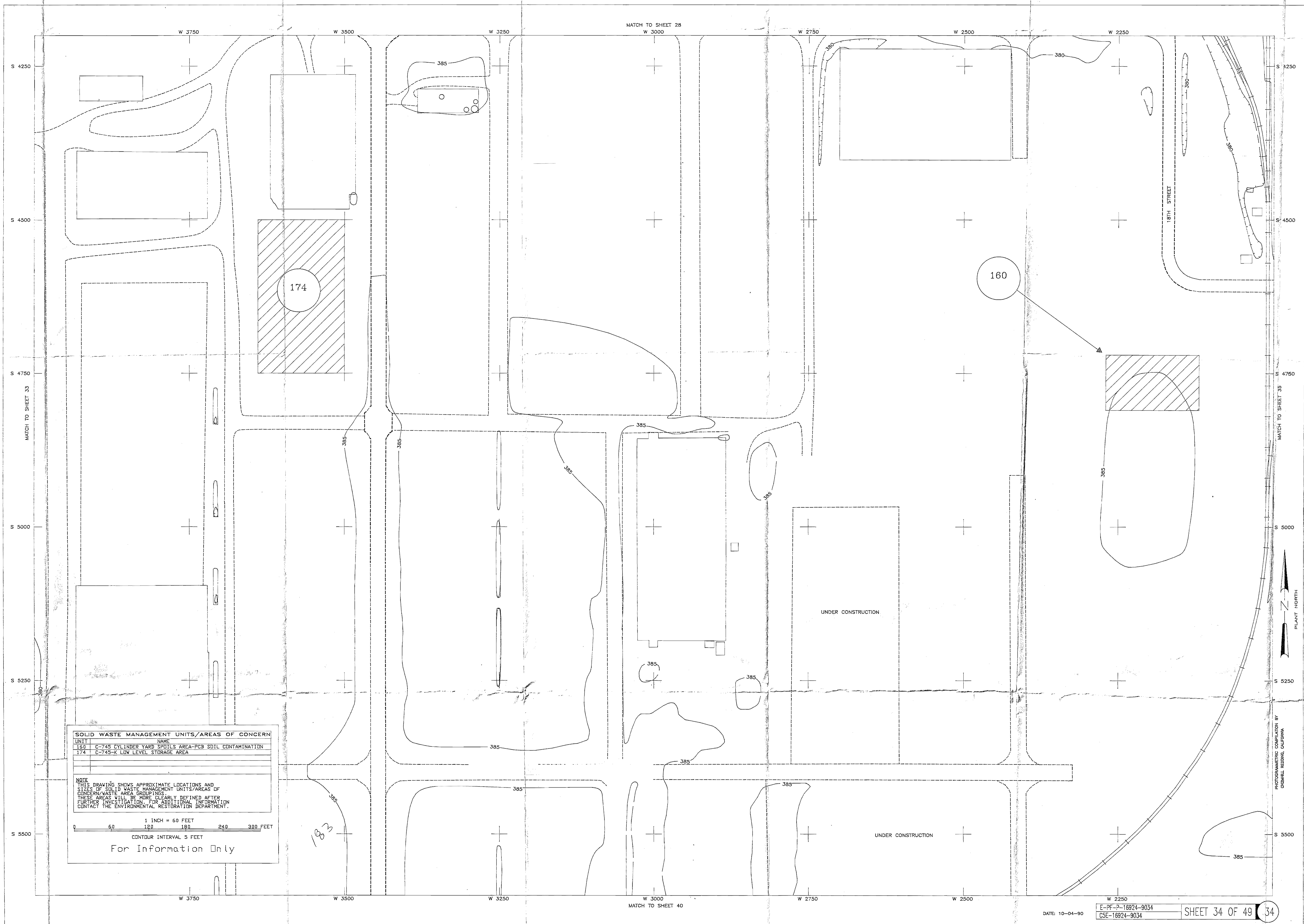
WASTE DESCRIPTION: Material stored in drums include soils contaminated with low-levels of radioactivity.

WASTE QUANTITY: Storage area currently contains 5774 drums.

DESCRIPTION OF RELEASE: N/A

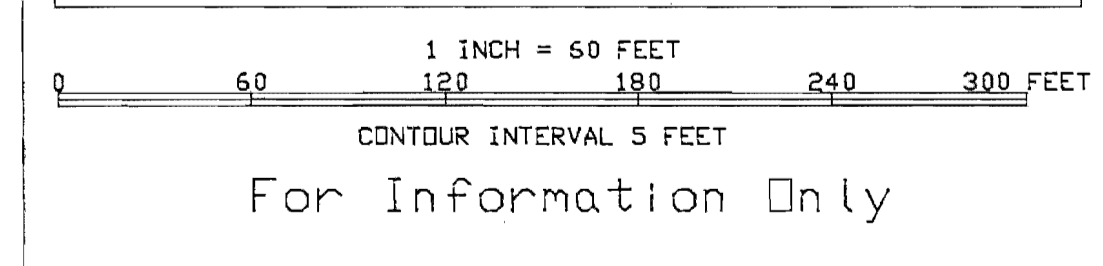
DOCUMENTATION OF NO RELEASE: N/A

RFI NECESSARY: NO - The area is monitored with monthly inspections. No known spills have occurred to date. Any releases that may occur will be handled by the plant using appropriate clean-up requirements.



SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
150	C-745 CYLINDER YARD SPILLS AREA-PCB SOIL CONTAMINATION
174	C-745-K LOW LEVEL STORAGE AREA

NOTE
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.



PHOTOGRAMMETRIC COMPILATION BY
 GEORGE E. BOGGS, CALIFORNIA

PHOTOGRAPH TO BE SUPPLIED AT A LATER DATE

UNIT NUMBER: 175

10/12/92

UNIT NAME: Concrete Rubble Pile (28)

REGULATORY STATUS: AOC

LOCATION: Outside Security Fence, East of C-360 Building in KPDES Outfall
Ditch 002.

APPROXIMATE DIMENSIONS: 400 feet long by 20 feet wide

FUNCTION: Erosion control on ditch bank.

OPERATIONAL STATUS: Active

DATES OPERATED: Unknown - Present.

SITE/PROCESS DESCRIPTION: Concrete rubble has been placed on the ditch bank to
provide erosion control.

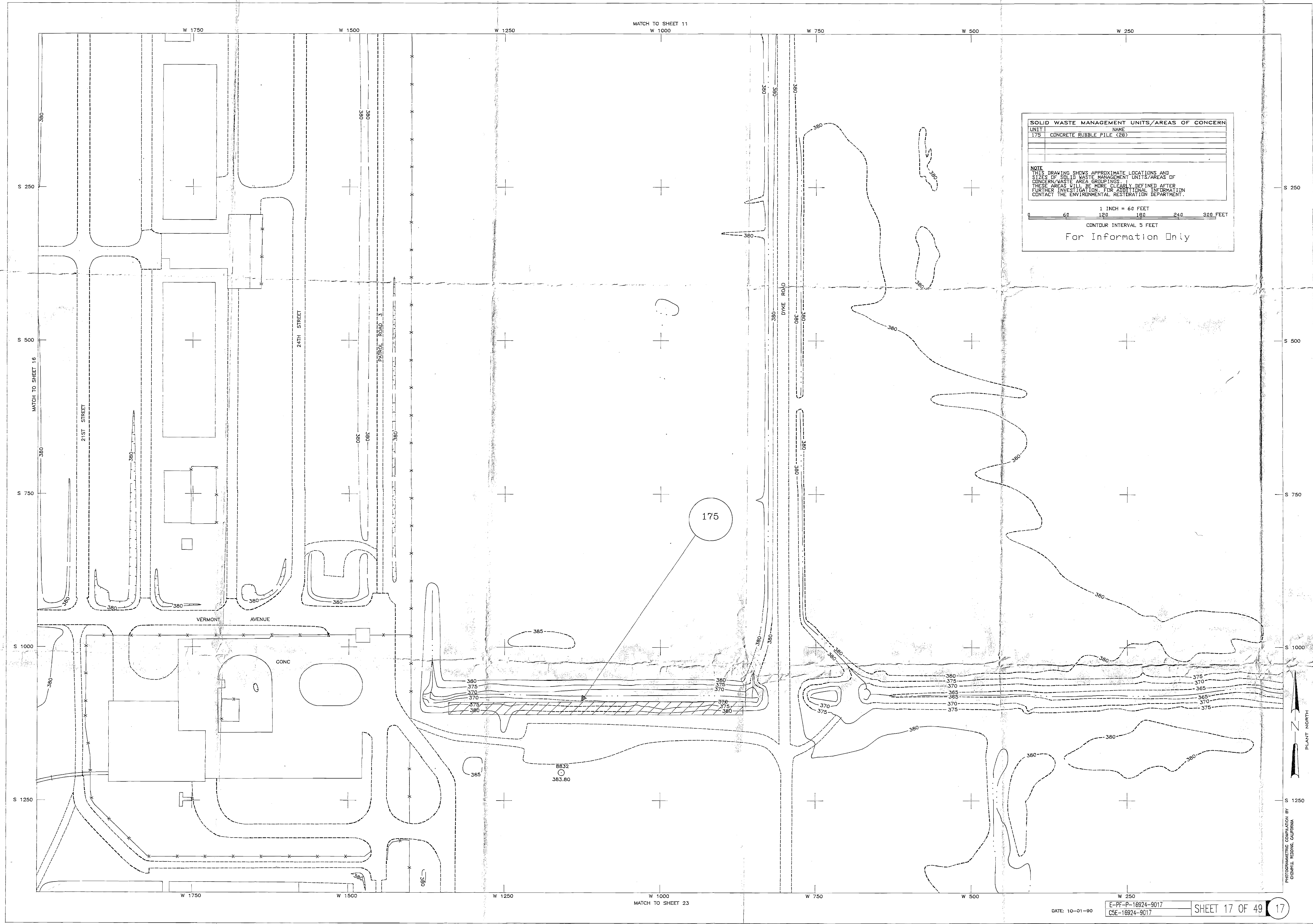
WASTE DESCRIPTION: Concrete rubble

WASTE QUANTITY: Unknown.

DESCRIPTION OF RELEASE: N/A

DOCUMENTATION OF NO RELEASE: N/A

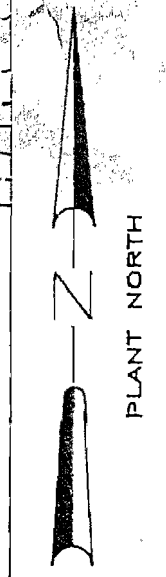
RFI NECESSARY: YES



SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
175	CONCRETE RUBBLE PILE (CR)

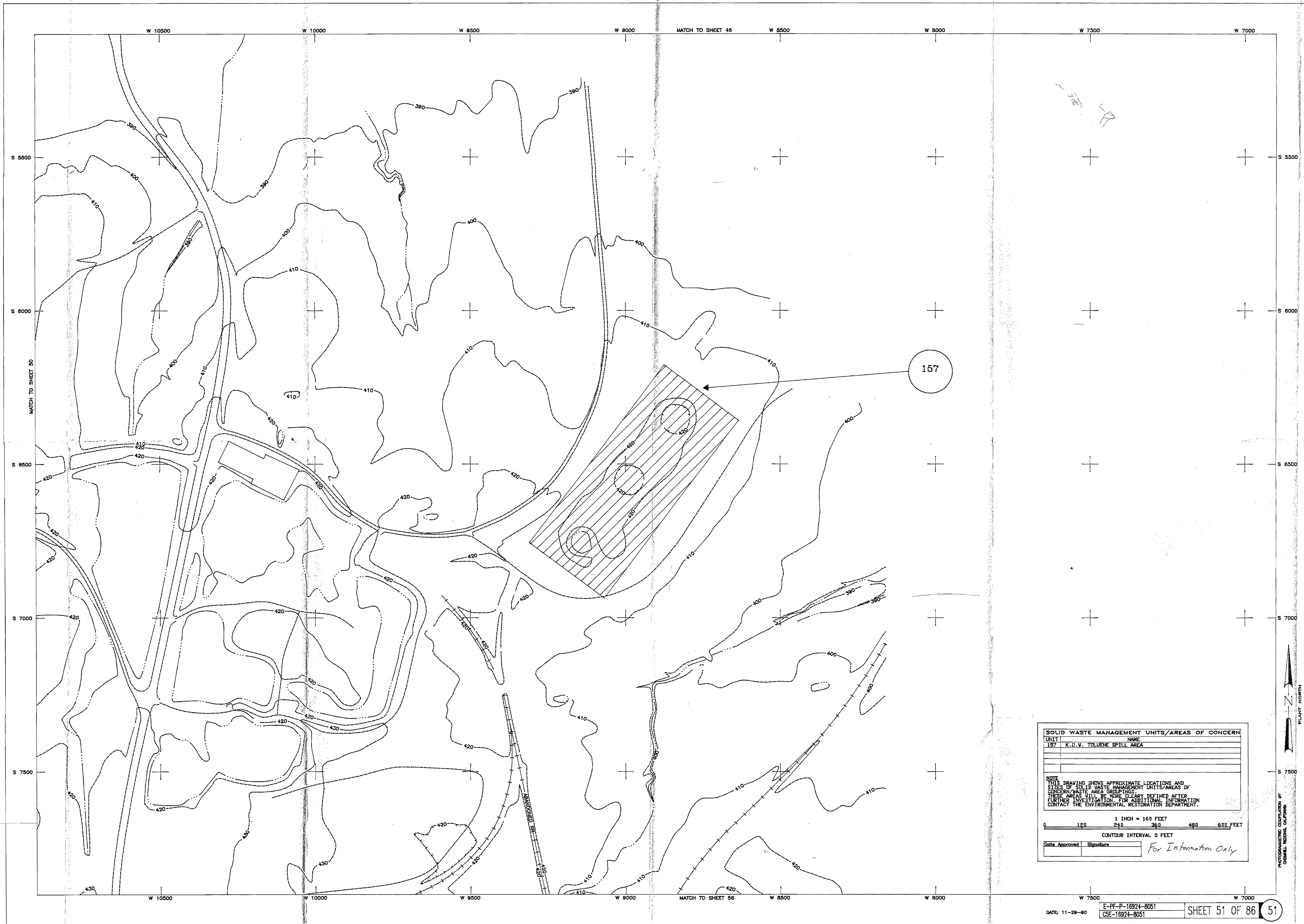
NOTE:
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



PREPARED BY: [unreadable]
 CHECKED BY: [unreadable]
 DATE: 10-01-90

PHOTOGRAPH TO BE SUPPLIED AT A LATER DATE



157

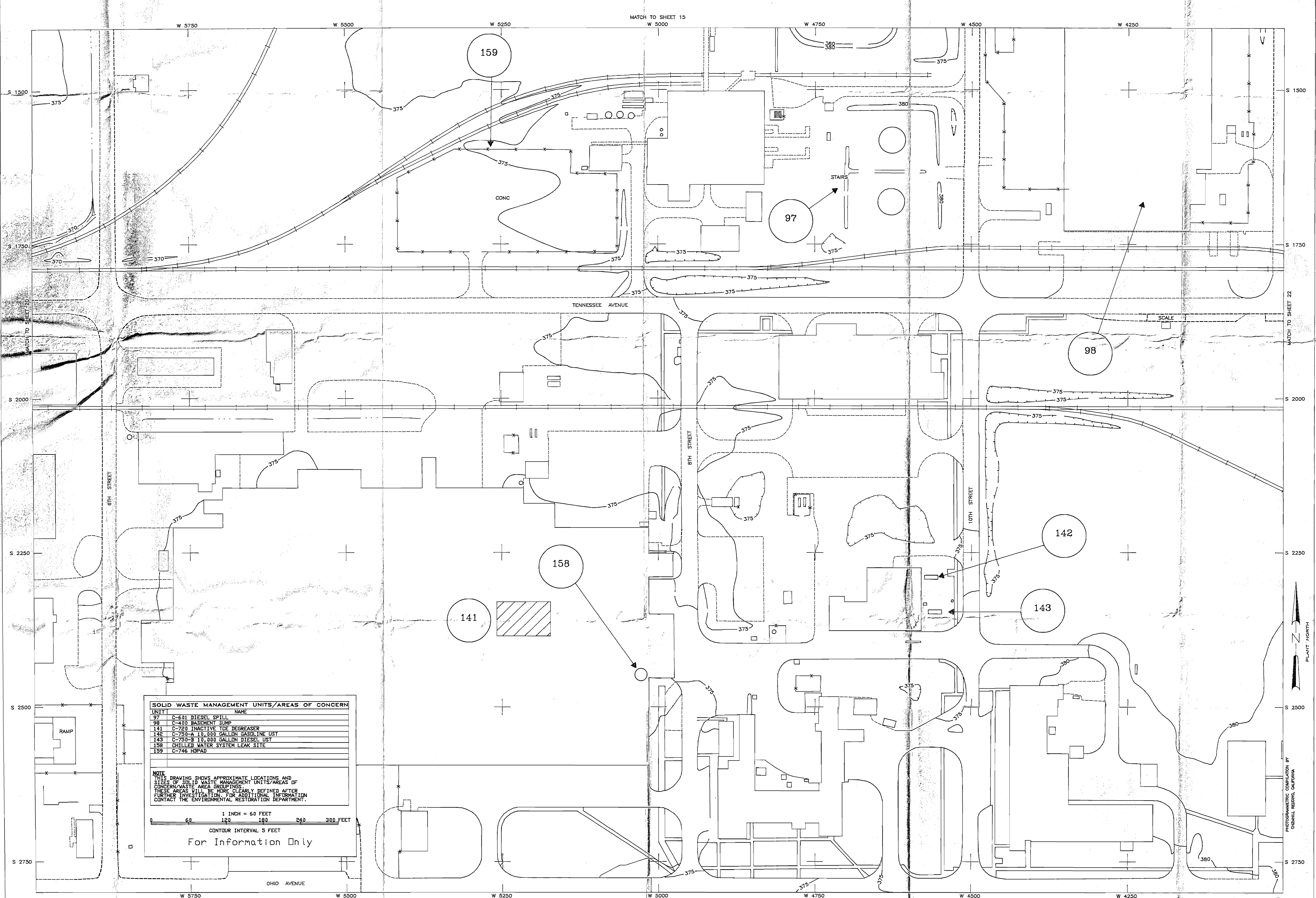
SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
157	K.D.V. TILUENE SPILL AREA

NOTE
THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA BOUNDARIES. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 160 FEET
0 120 240 360 480 600 FEET
CONTOUR INTERVAL 5 FEET

Date Approved: _____ Signature: _____ For Information Only

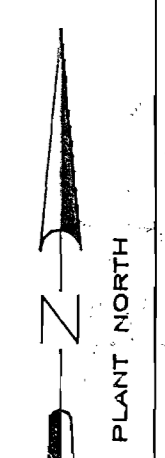
PHOTOGRAPHIC COPY/PRINT BY
GENERAL REGIONAL OFFICE
PLANT NORTH



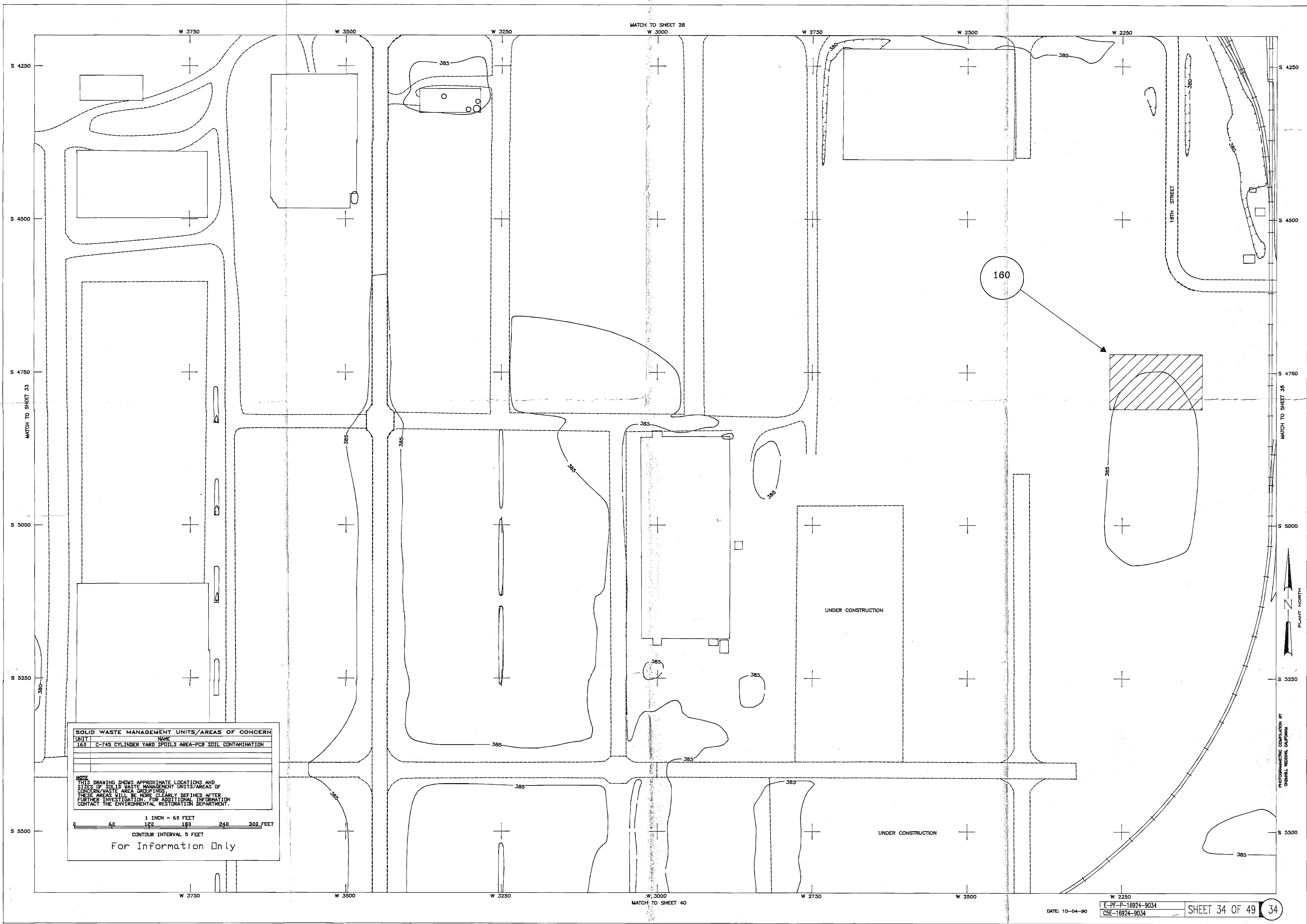
UNIT	NAME
97	C-601 DIESEL SPILL
98	C-400 BASEMENT SUMP
141	C-723 INACTIVE ICE DEGREASER
142	C-750-A 10,000 GALLON GASOLINE UST
143	C-750-B 10,000 GALLON DIESEL UST
158	CHILLED WATER SYSTEM LEAK SITE
159	C-746 HSPAD

NOTE: THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 0 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



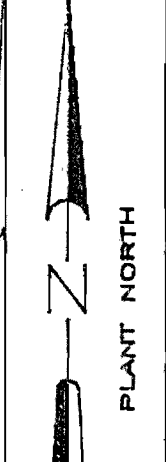
PHOTOGRAMMETRIC CORRELATION BY
 CIGHELE, INDIANAPOLIS, INDIANA



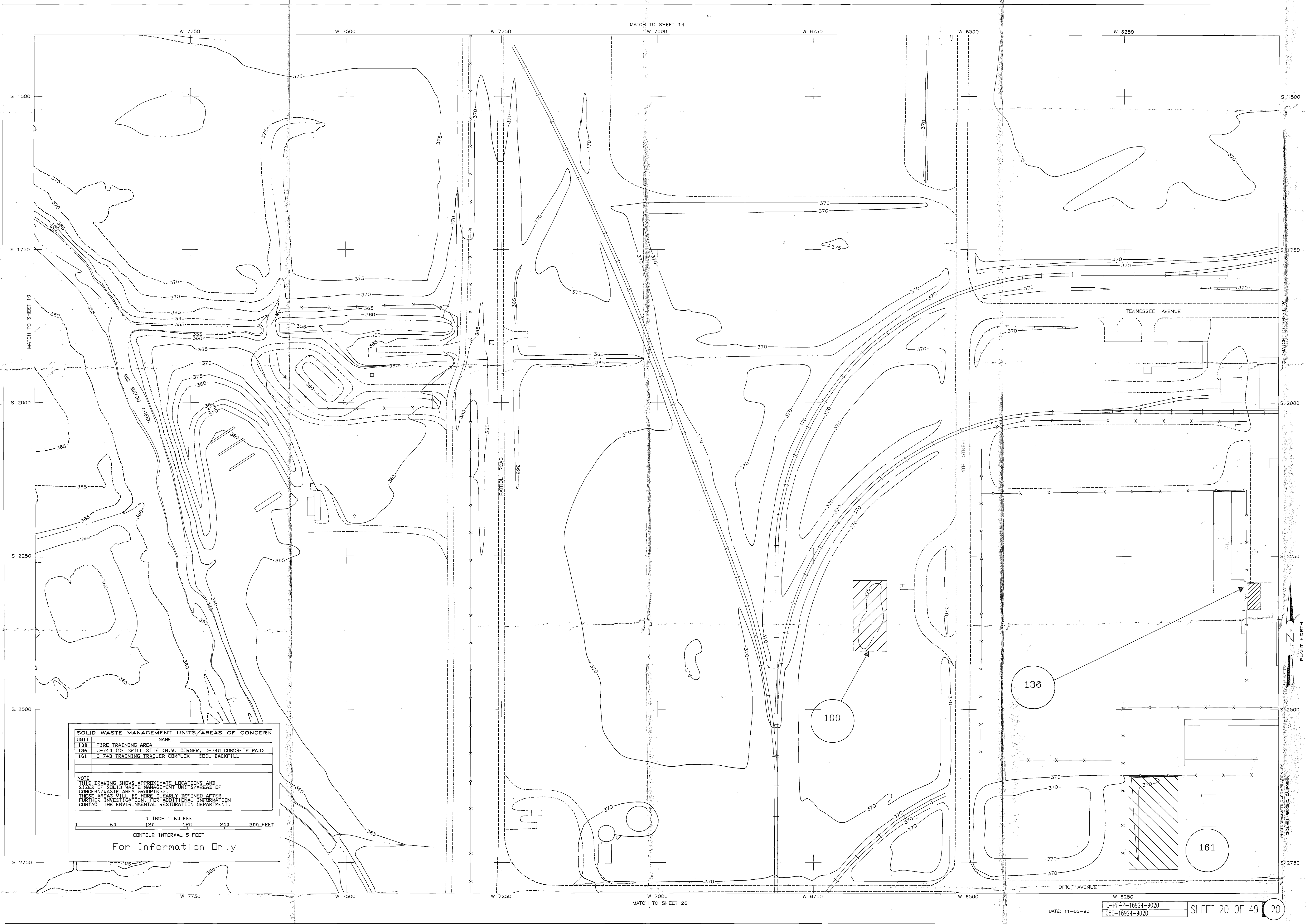
SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
160	C-745 CYLINDER YARD SPOILS AREA-PCB SOIL CONTAMINATION

NOTE:
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 0 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



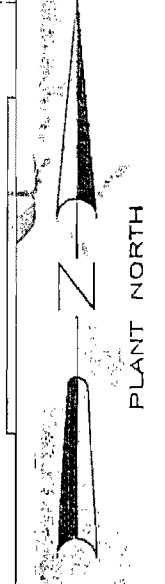
PHOTOGRAMMETRIC COPIATION BY
 CHANEL RECORDS, CALIFORNIA



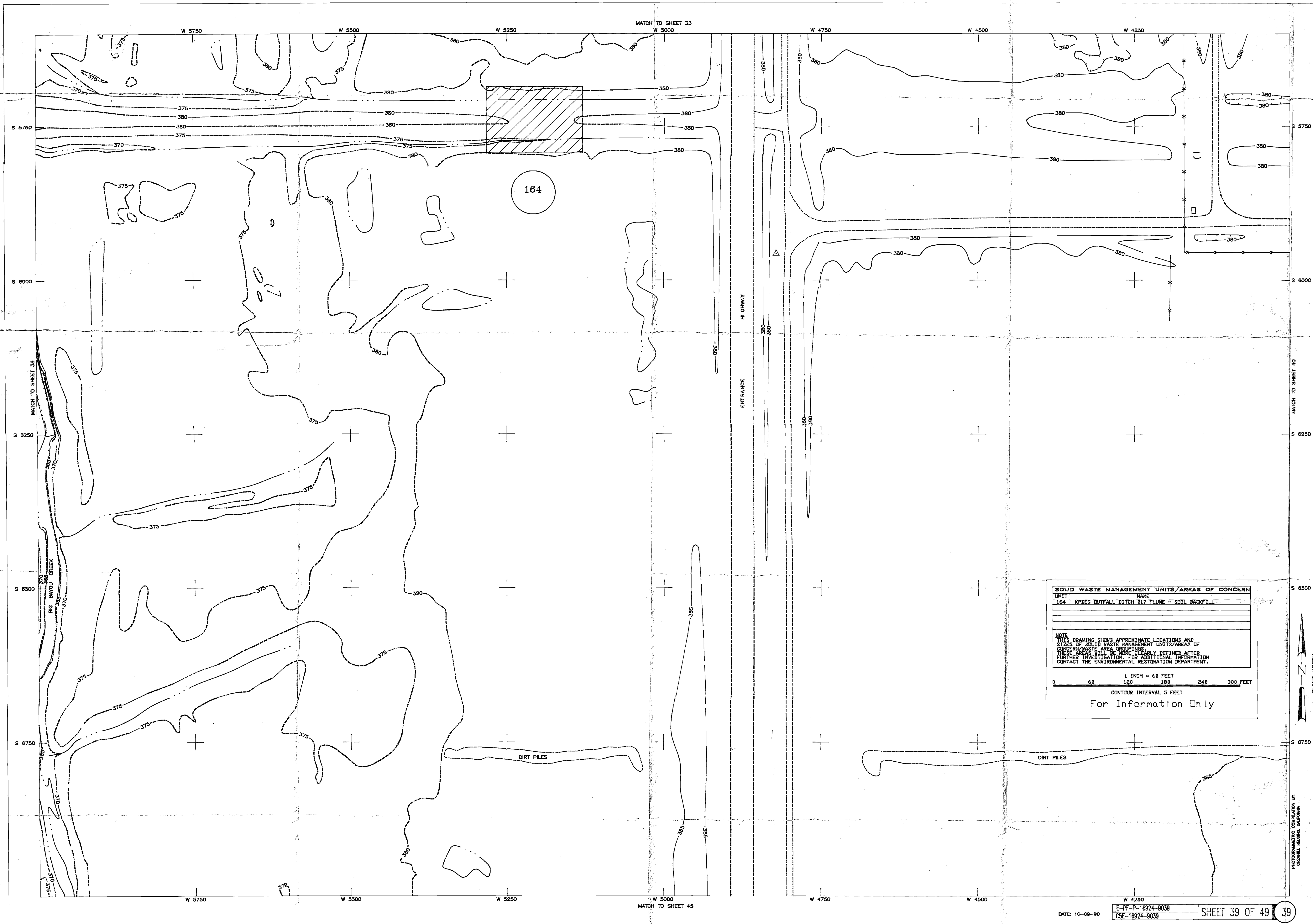
SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
100	FIRE TRAINING AREA
136	C-740 TCE SPILL SITE (N.W. CORNER, C-740 CONCRETE PAD)
161	C-743 TRAINING TRAILER COMPLEX - SOIL BACKFILL

NOTE
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



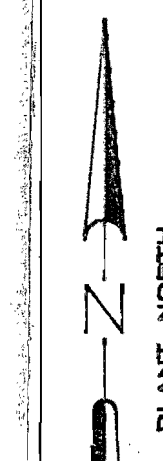
PHOTOGRAPHIC COURTESY BY
 CHARLES L. GIBSON



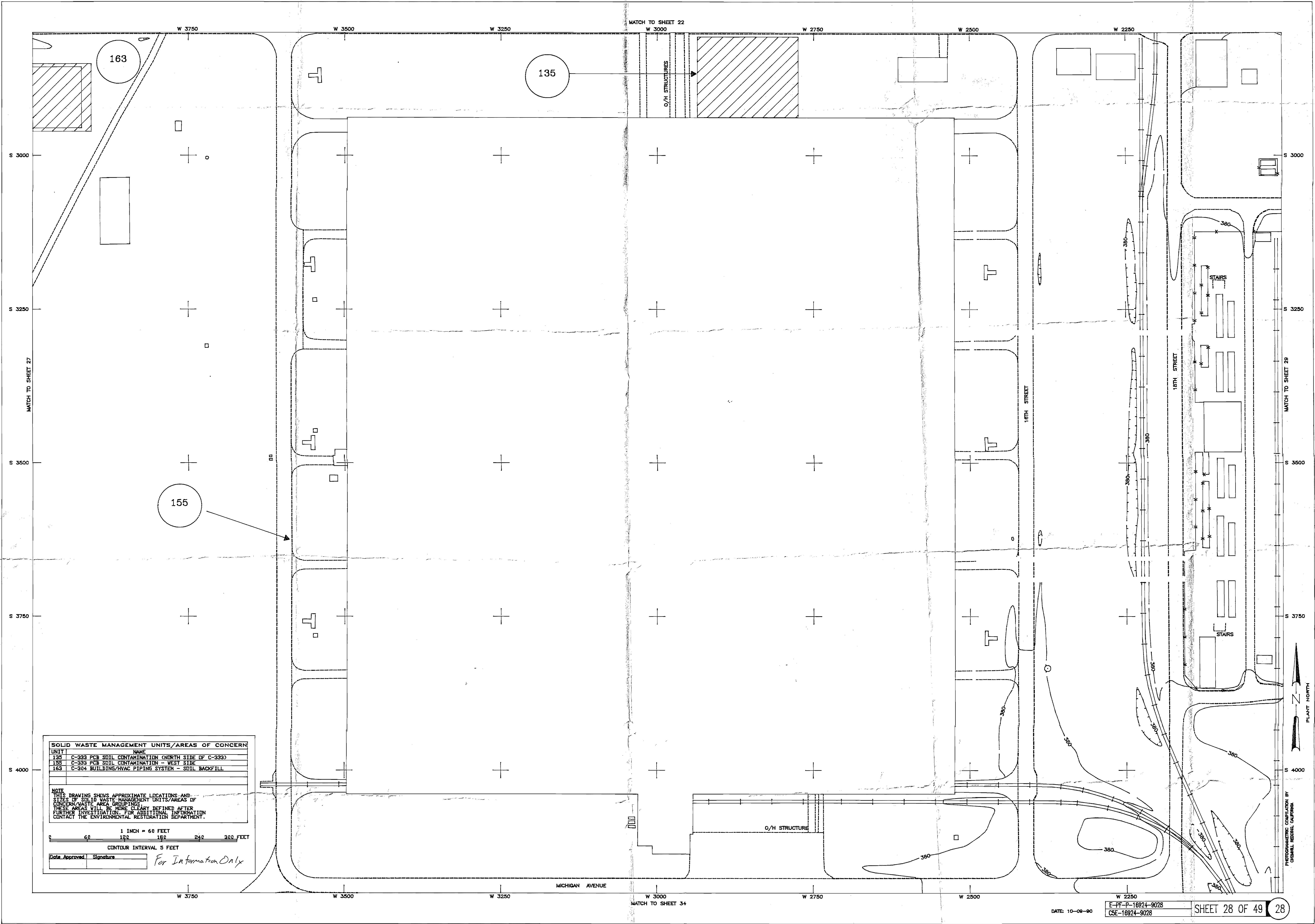
SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
164	KPDES OUTFALL DITCH D17 FLUME - SOIL BACKFILL

NOTE: THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 0 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



PHOTOGRAMMETRIC COMPILATION BY
 CHAMBERLAIN, CALIFORNIA



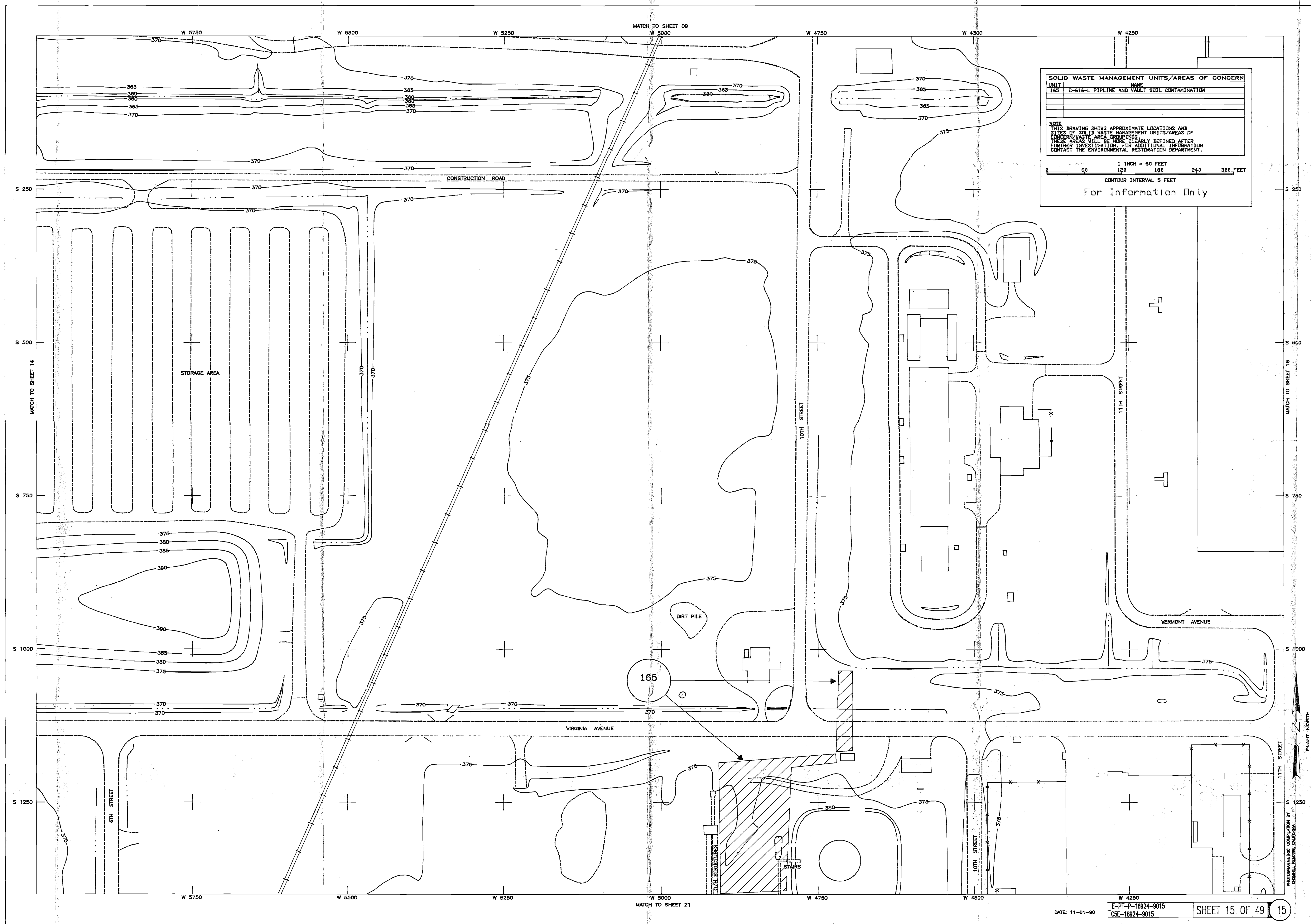
SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
135	C-333 PCB SOIL CONTAMINATION (NORTH SIDE OF C-333)
155	C-333 PCB SOIL CONTAMINATION - WEST SIDE
163	C-304 BUILDING/HVAC PIPING SYSTEM - SOIL BACKFILL

NOTE: THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GOULDINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET

Date Approved: _____ Signature: _____ For Information Only

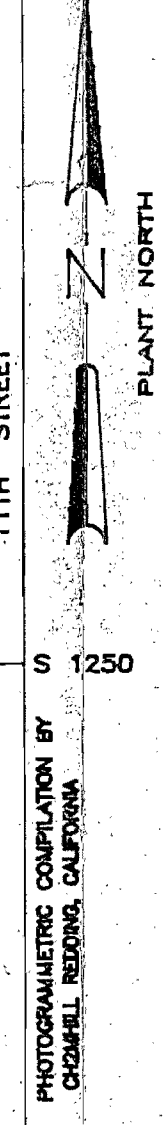
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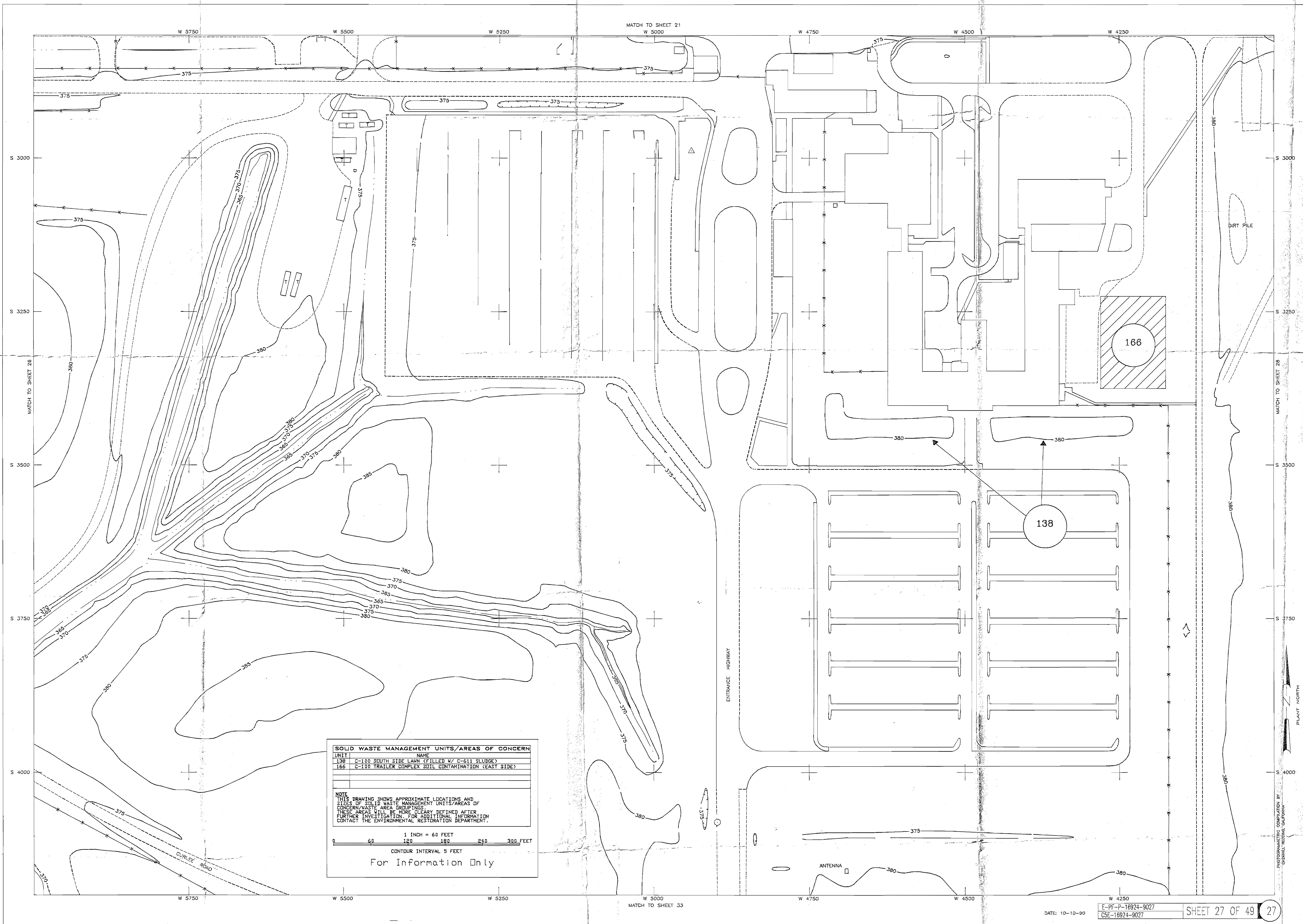


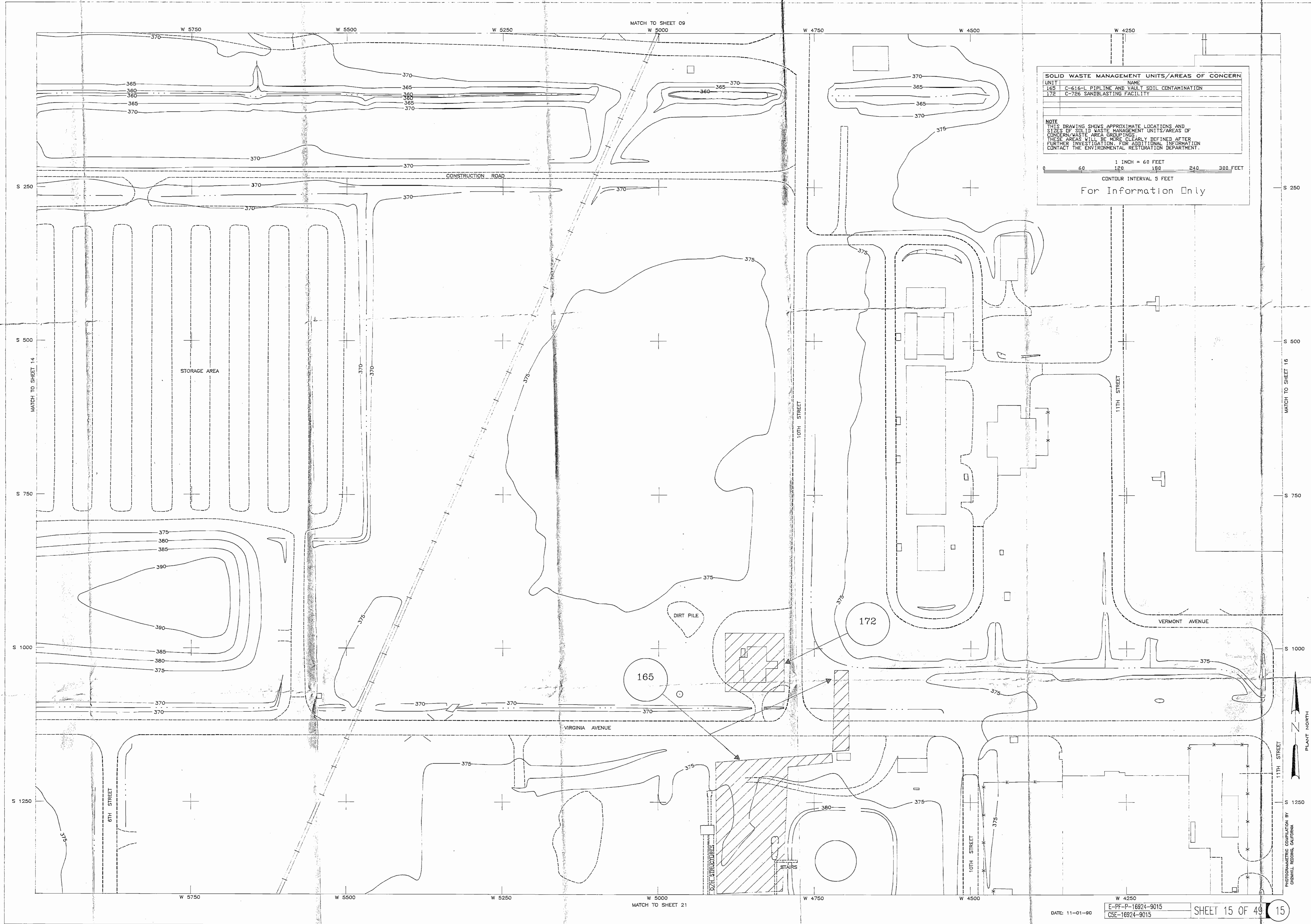
SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
165	C-616-L PIPELINE AND VALVE SOIL CONTAMINATION

NOTE:
THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/VASTE AREA BOUNDARIES. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 0 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only







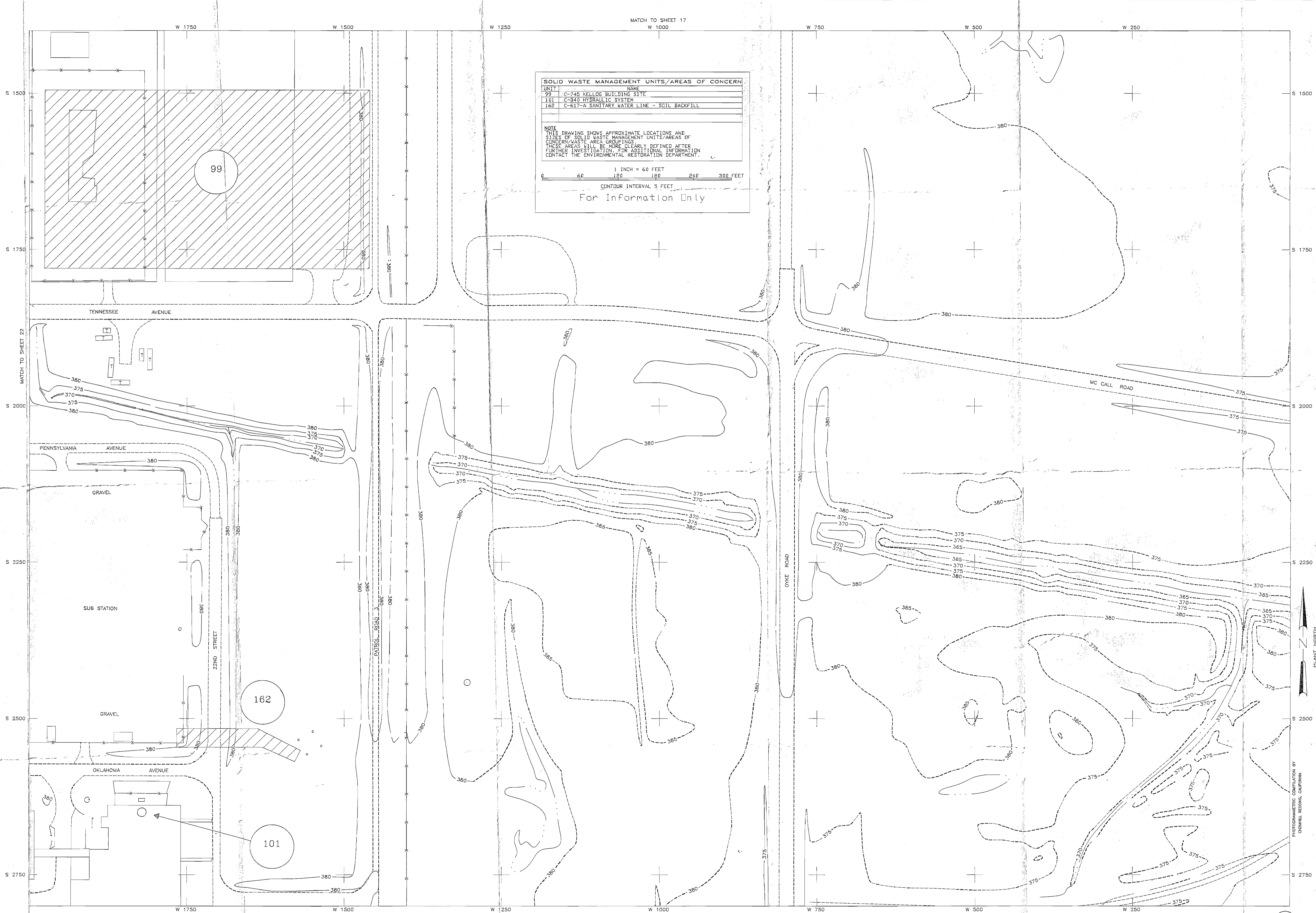
PHOTOGRAMMETRIC CORRELATION BY
 CHAMBERLAIN MEDINA, CALIFORNIA
 PLANT NORTH

MATCH TO SHEET 17
W 1000

UNIT	NAME
99	C-745 KELLOGG BUILDING SITE
101	C-540 HYDRAULIC SYSTEM
162	C-617-A SANITARY WATER LINE - SOIL BACKFILL

NOTE
THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
0 60 120 180 240 300 FEET
CONTOUR INTERVAL 5 FEET
For Information Only

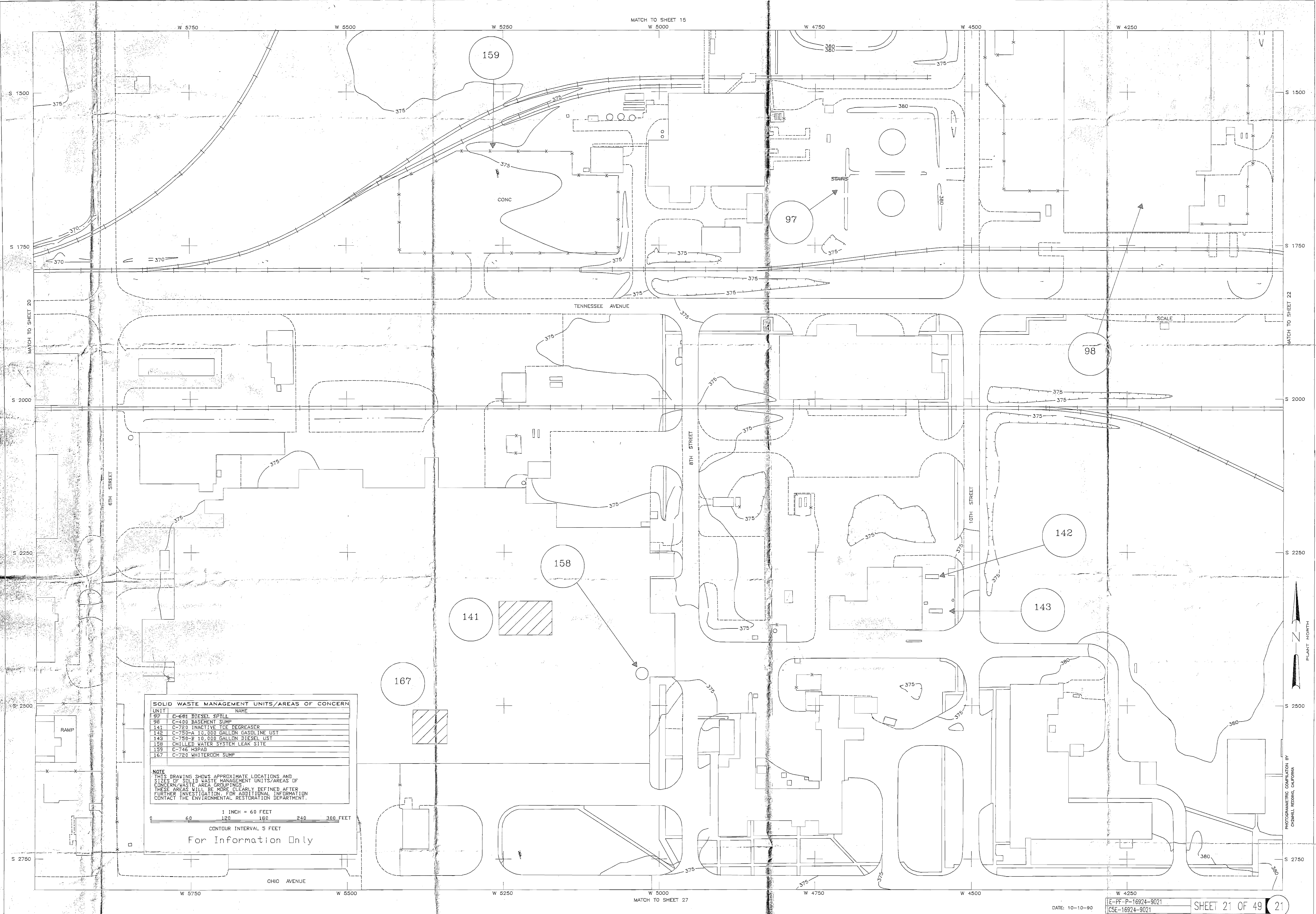


MATCH TO SHEET 22

MATCH TO SHEET 29

PLANT NORTH

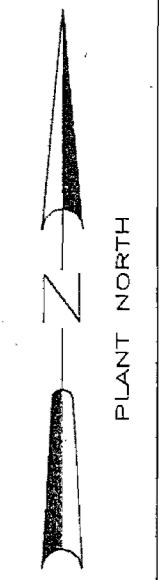
PHOTOGRAMMETRIC COMPILATION BY
CHERRILL REDDING, CALIFORNIA



SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
97	C-601 DIESEL SPILL
98	C-400 BASEMENT SUMP
141	C-720 INACTIVE TCE DEGREASER
142	C-750-A 15,000 GALLON GASOLINE UST
143	C-750-B 10,000 GALLON DIESEL UST
158	CHILLED WATER SYSTEM LEAK SITE
159	C-746 HSPAD
167	C-720 WHITEROOM SUMP

NOTE
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 0 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



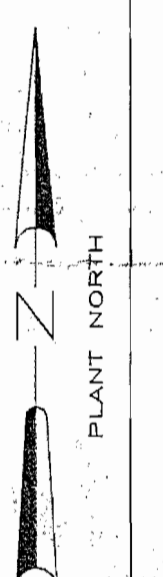
PHOTOGRAMMETRIC COMPILED BY
 DANIEL HEDBERG, CALIFORNIA



SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
166	KPDES OUTFALL DITCH D13

NOTE
 THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN. THESE AREAS SHOULD BE EARLY DEFINED AFTER FURTHER INVESTIGATION. FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
 60 120 180 240 300 FEET
 CONTOUR INTERVAL 5 FEET
 For Information Only



SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN	
UNIT	NAME
169	C-430-E VENT SURGE PROTECTION TANK (150 GALLON)

NOTE
THIS DRAWING SHOWS APPROXIMATE LOCATIONS AND SIZES OF SOLID WASTE MANAGEMENT UNITS/AREAS OF CONCERN/WASTE AREA GROUPINGS. THESE AREAS WILL BE MORE CLEARLY DEFINED AFTER FURTHER INVESTIGATION FOR ADDITIONAL INFORMATION CONTACT THE ENVIRONMENTAL RESTORATION DEPARTMENT.

1 INCH = 60 FEET
0 60 120 180 240 300 FEET
CONTOUR INTERVAL 5 FEET
For Information Only

