

PERNAIID

Countdown to Closure

March 23, 2004

Gary Stegner

Introduction and

Legacy Management

Bill Taylor

Project Updates

Don Paine

Silos Project

Mare Jewett

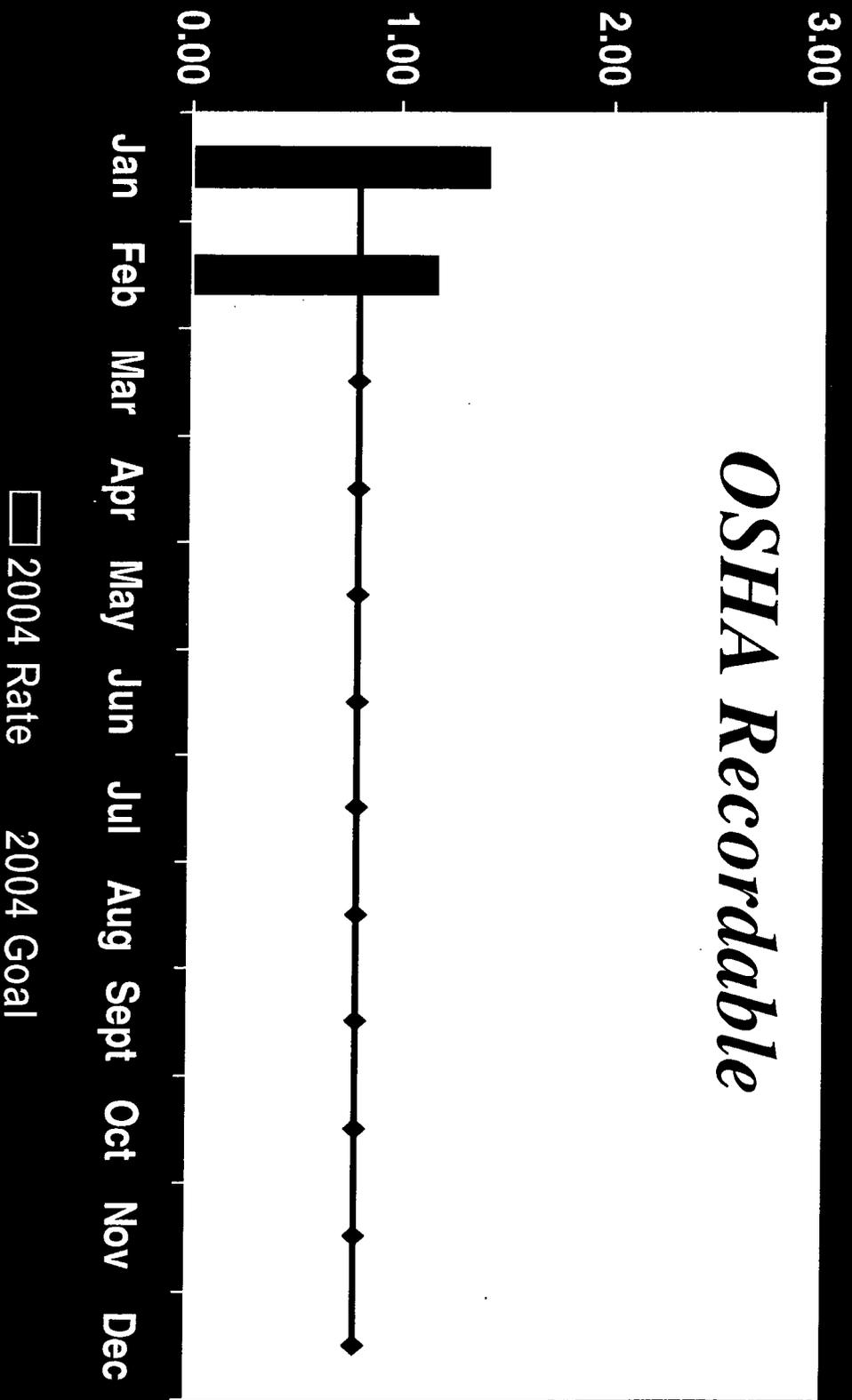
Groundwater



SAFETY INCIDENCE RATES

Countdown to Closure - Spring 2004

OSHA Recordable



2004 Rate 2004 Goal

8194.2 3/04



SAFETY INCIDENCE RATES Countdown to Closure - Spring 2004

OSHA Recordable

Fluor Fernald Self Perform	Operating Wage	Fluor Fernald & Subcontractors
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2002	1.74	2.68	2.10
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2003	.69	.63	1.44
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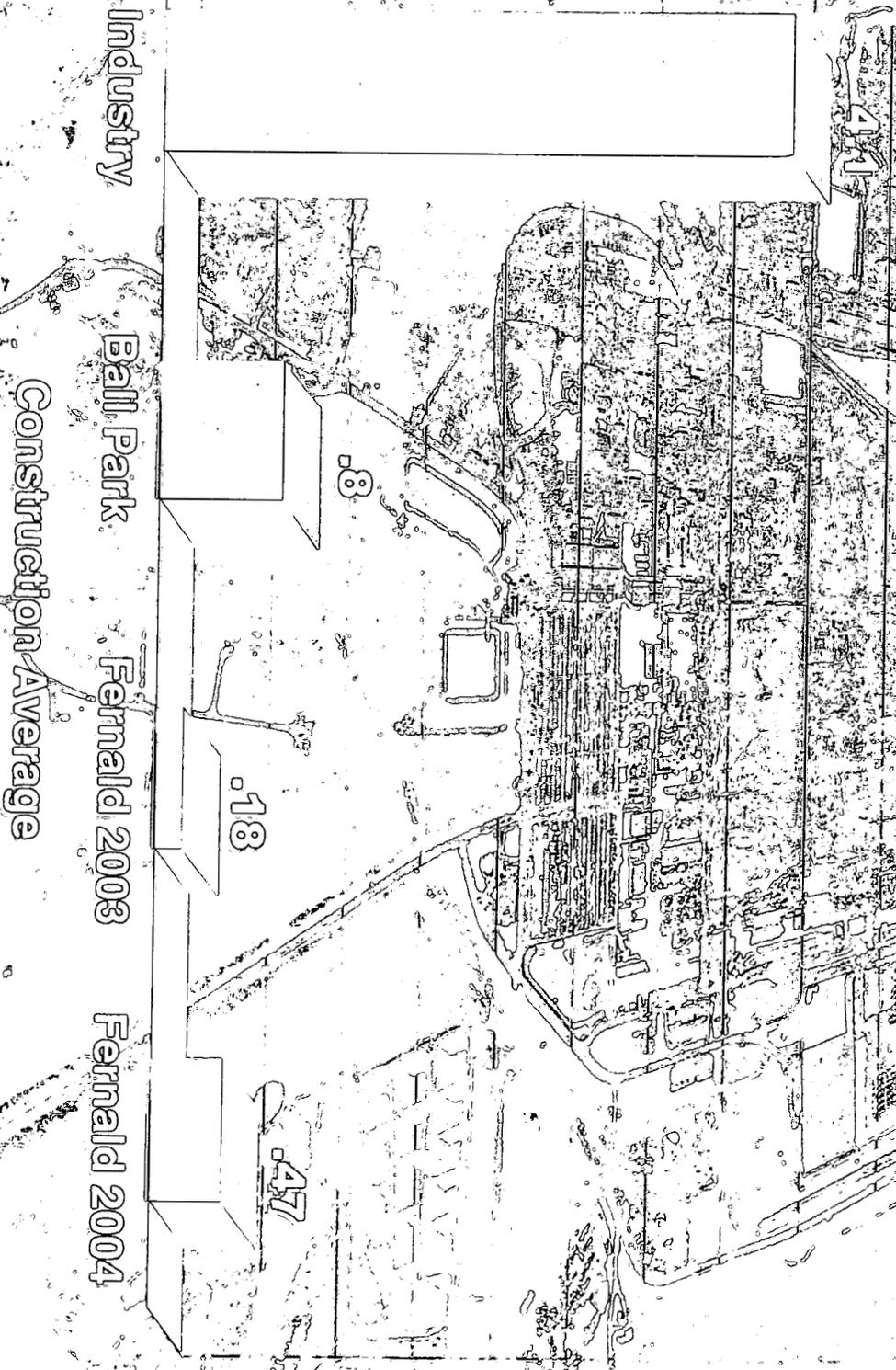
2004	.44	0.00	1.19
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INCIDENTS

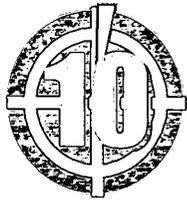
ACCOUNTABILITY

FERNALD DEMOLITION AND GREAT AMERICAN BALL PARK CONSTRUCTION LOST WORK DAY RATE COMPARISON

OSHA - Lost Work Day Rate

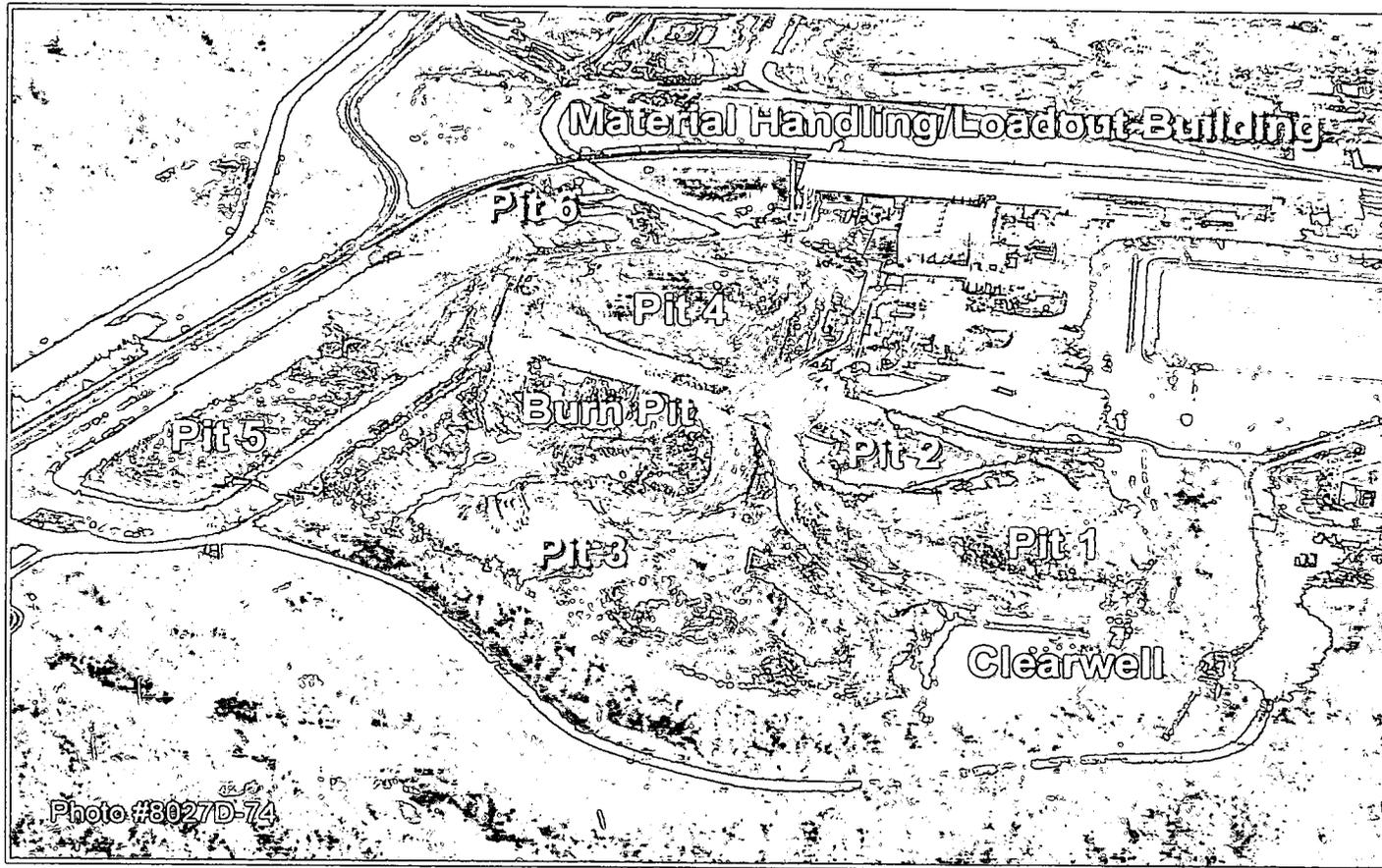


Graphics #8108.1



WASTE PITS

Countdown to Closure - Spring 2004



- *Excavate 1 million tons of low-level radioactive byproducts and transport by rail to Envirocare of Utah*



WASTE PITS

Countdown to Closure - Spring 2004

Action Items

08/04 - Cease Dryer Operations

08/04 - Last Loadout of Waste
Pits Material

01/05 - Last Loadout of Above
WAC Soils

02/05 - Cease Shipping Operations

02/05 - Complete Safe Shutdown

06/05 - Complete D & D of
Treatment Facility

Status

82 percent complete

111 unit trains shipped

- 709,071 tons

- 6,591 railcars

Train #112 expected to leave
March 24

Train #113 expected to leave
March 31

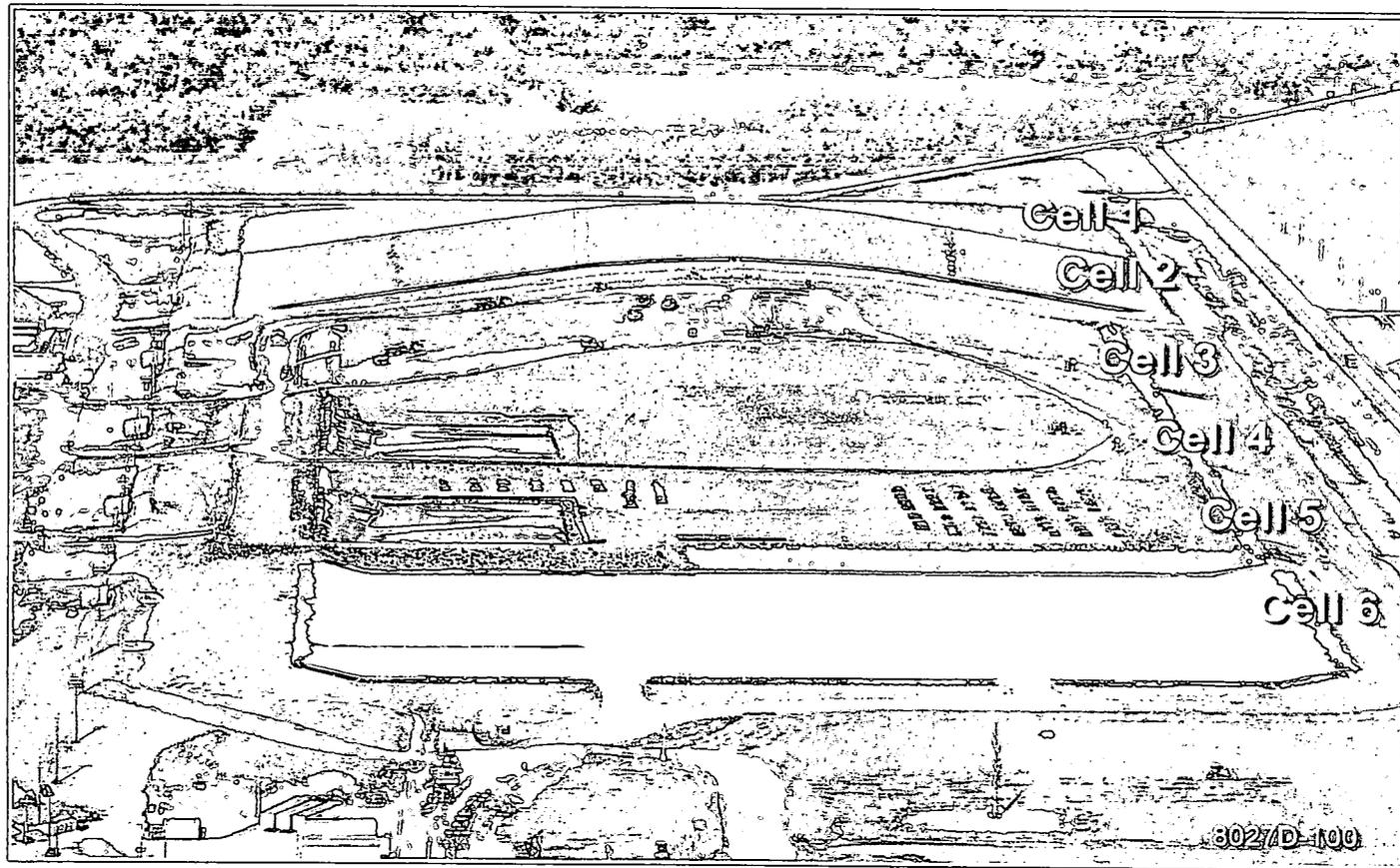
Issues

Evaluating options for replacing
bolsters on four railcars taken
out of service



ON-SITE DISPOSAL FACILITY

Countdown to Closure - Spring 2004



• *Design, construct and operate the 2.7 million cubic yard capacity On-Site Disposal Facility*



ON-SITE DISPOSAL FACILITY

Countdown to Closure - Spring 2004

Action Items

(projected completion)

09/04 - Cell 7 Liner Construction

09/04 - Cell 3 Cap Construction

10/04 - Cell 8 Liner Construction

08/05 - Cell 4 Cap Construction

09/05 - Cell 5 Cap Construction

04/06 - Cell 6 Cap Construction

06/06 - Cells 7 and 8 Cap
Construction

Status

Cell 1 - 100 percent complete

Cell 2 - 100 percent complete

Cell 3 - 99 percent complete

Cell 4 - 61 percent complete

Cell 5 - 9 percent complete

Cell 6 - 9 percent complete

Cell 7 - under construction

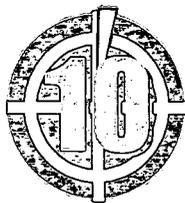
Cell 8 - under construction

Excavated/dispositioned over
1.35 million cubic yards of
contaminated soil

2003/2004 winter placement
resulted in 23,000 cubic yards
placed in OSDF

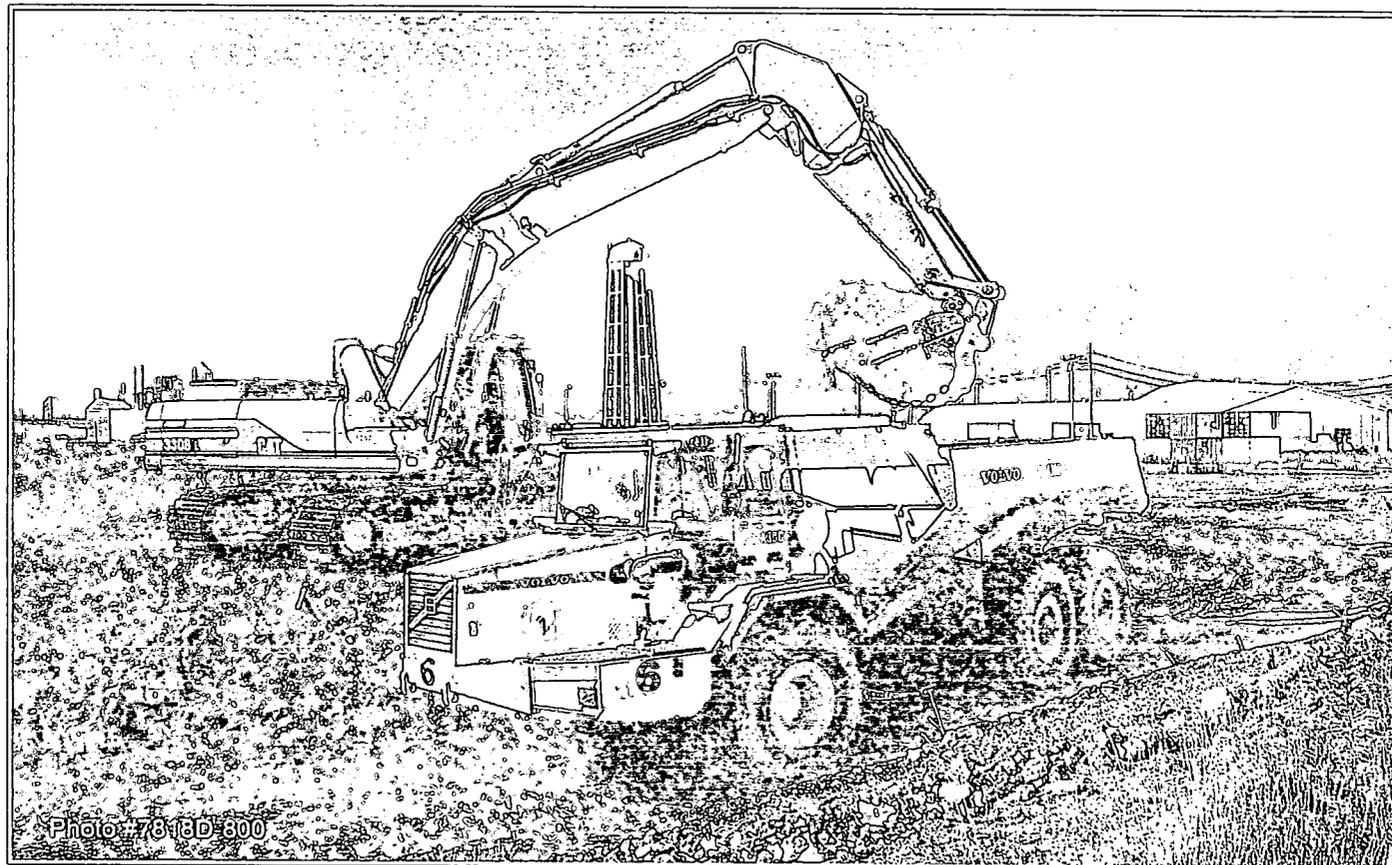
Issues

Placement of bagged asbestos
containing material in sealand
containers



SOILS

Countdown to Closure - Spring 2004



- Remediate and dispose of contaminated soil
- Certify site as "clean" and perform restoration



SOILS

Countdown to Closure - Spring 2004

Action Items

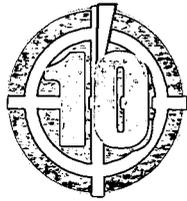
(projected completion)

- 05/04 - Area 3B Excavation
- 03/05 - Area 4B Excavation
- 04/05 - Waste Pits and Treatment Facility Soil Excavation
- 06/05 - Silos Excavation
- 06/05 - Area 5 Excavation
- 06/05 - Rail yard removal
- 08/05 - Excavate old outfall line
- 03/06 - Area 7 Excavation

Status

- On-site soil certification
- 59% complete
- Off-site soil certification
- 100% complete except outfall line

Issues



DECONTAMINATION & DEMOLITION

Countdown to Closure - Spring 2004

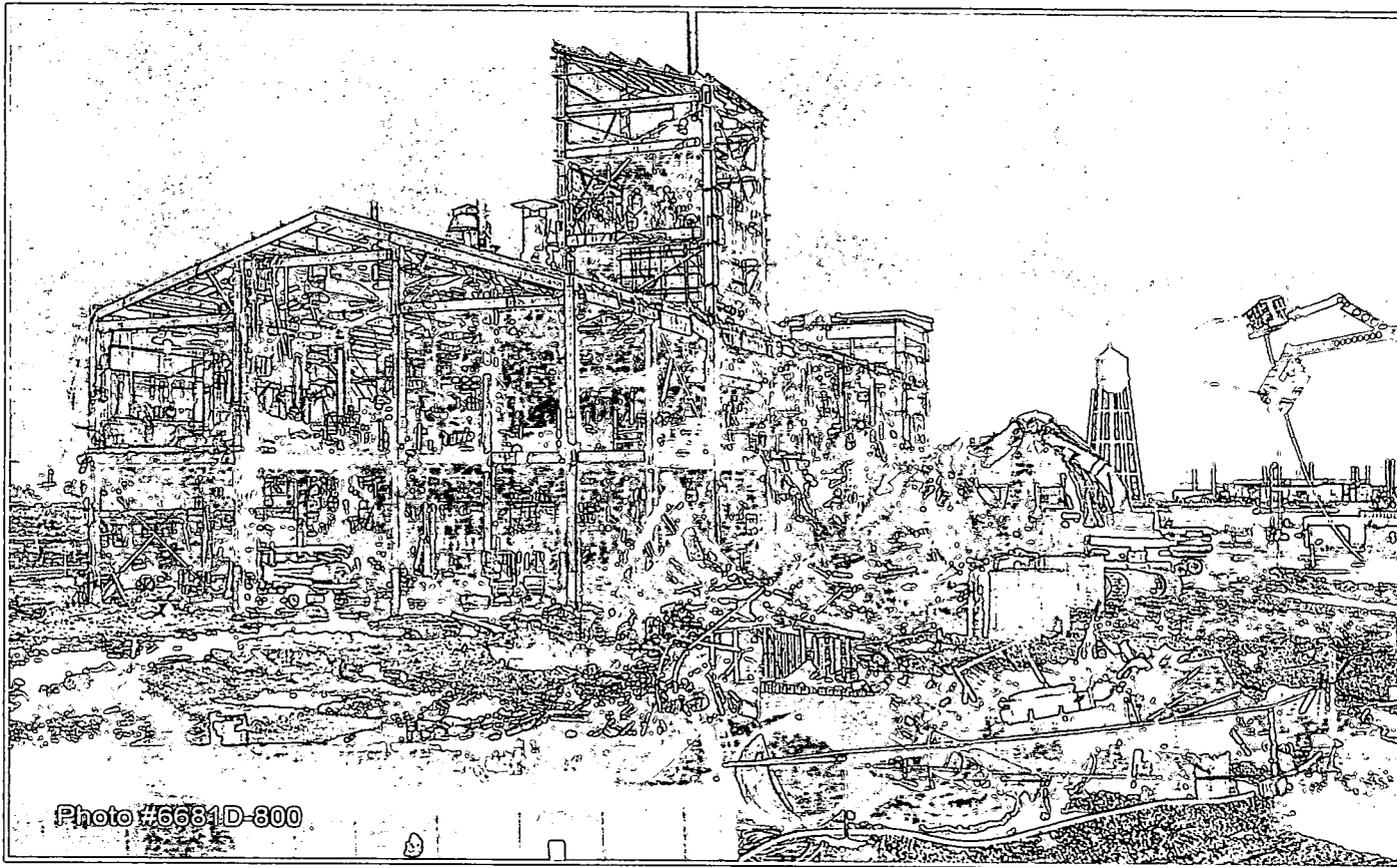


Photo #6681D-800

- *Dismantle 255 former production plants, support structures and associated components*



DECONTAMINATION & DEMOLITION

Countdown to Closure - Spring 2004

Action Items

(projected completion)

04/04 - Pilot Plant

12/04 - Silo 3 Facility

12/04 - Admin. Bldg.

12/04 - Services Bldg.

12/04 - Garage

12/04 - Waste Pits

06/05 - Waste Pits Treatment
Facilities

07/05 - Silos 1, 2, 3

05/06 - Silos 1 and 2 Treatment
Facility

06/06 - Miscellaneous Structures

Status

Dismantled 159 of 255 buildings

Silo 4 demolished - February 24

Silo 4 superstructure demolished
- March 20

Plants 2, 8 and General Sump
turned over to Soils Project

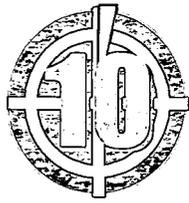
Ongoing activities for Plant 3

Lab Building demolition 100%

Lab debris loadout continues

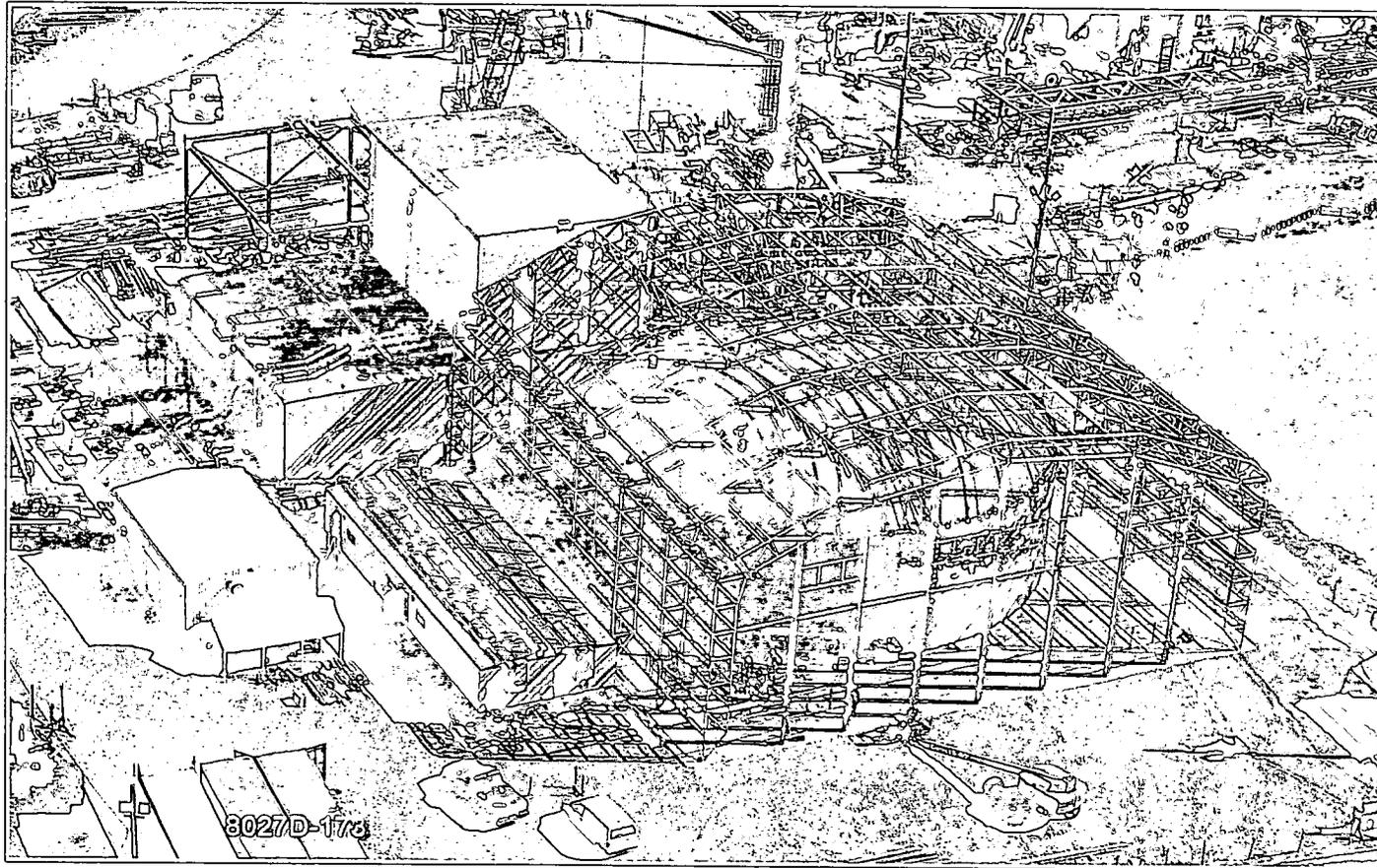
Issues

Funding



SILLO 3

Countdown to Closure - Spring 2004



- *Remove 5,100 cubic yards of low-level waste, package and ship off site for disposal*



SILO 3

Countdown to Closure - Spring 2004

Action Items

05/04 - Start of Operations

10/04 - First Waste Shipment

01/05 - Silo 3 Shutdown

07/05 - D & D Silo 3

Status

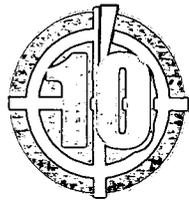
Construction complete

Startup testing continues

Readiness preparation continues

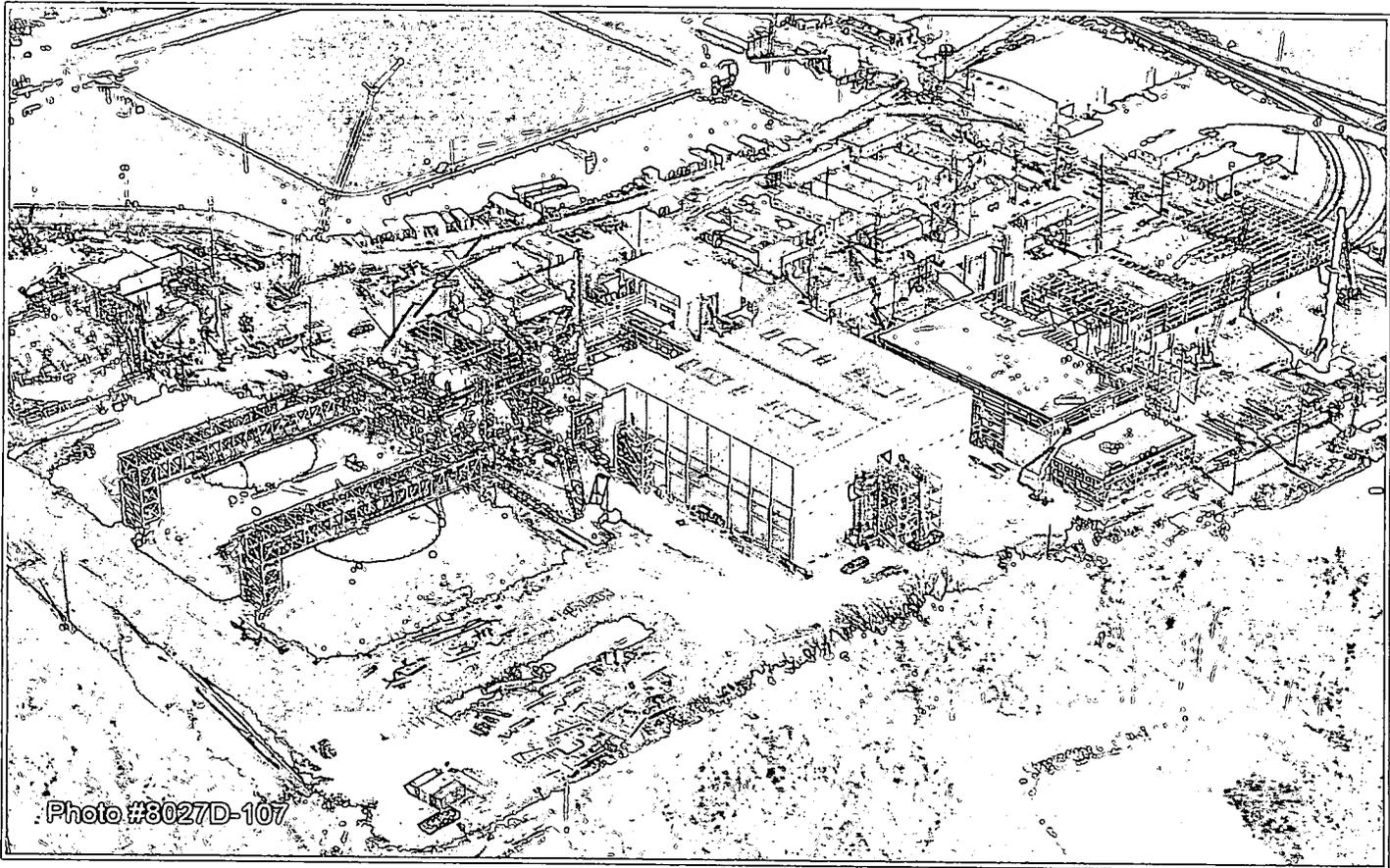
Issues

First waste shipment planned for FY05 due to funding limitations for construction of disposal cell at NTS and burial cost



SILOS 1 AND 2

Countdown to Closure - Spring 2004



- Stabilize 8,900 cubic yards of high activity low-level waste, package and ship off site for disposal



SILOS 1 AND 2

Countdown to Closure – Spring 2004

Action Items

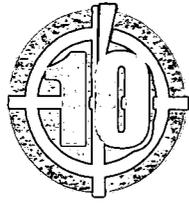
- 05/04 - Complete Treatment Facility Construction
- 07/04 - Start AWR Bulk Slurry Operations
- 10/04 - Start Treatment Operations
- 04/05 - Complete AWR Bulk Slurry Operations
- 06/05 - Complete AWR Heel Removal Operations
- 09/05 - Complete Decant Sump Tank Removal
- 09/05 - Complete Treatment Operations
- 10/05 - Complete AWR and Treatment Facilities Shutdown

Status

- AWR construction complete
- AWR startup testing and readiness preparation in progress
- Treatment facility construction approximately 70% complete
- Treatment facility system turnovers begin in March
- Waste container contracts awarded
- Waste transportation services procurement in progress

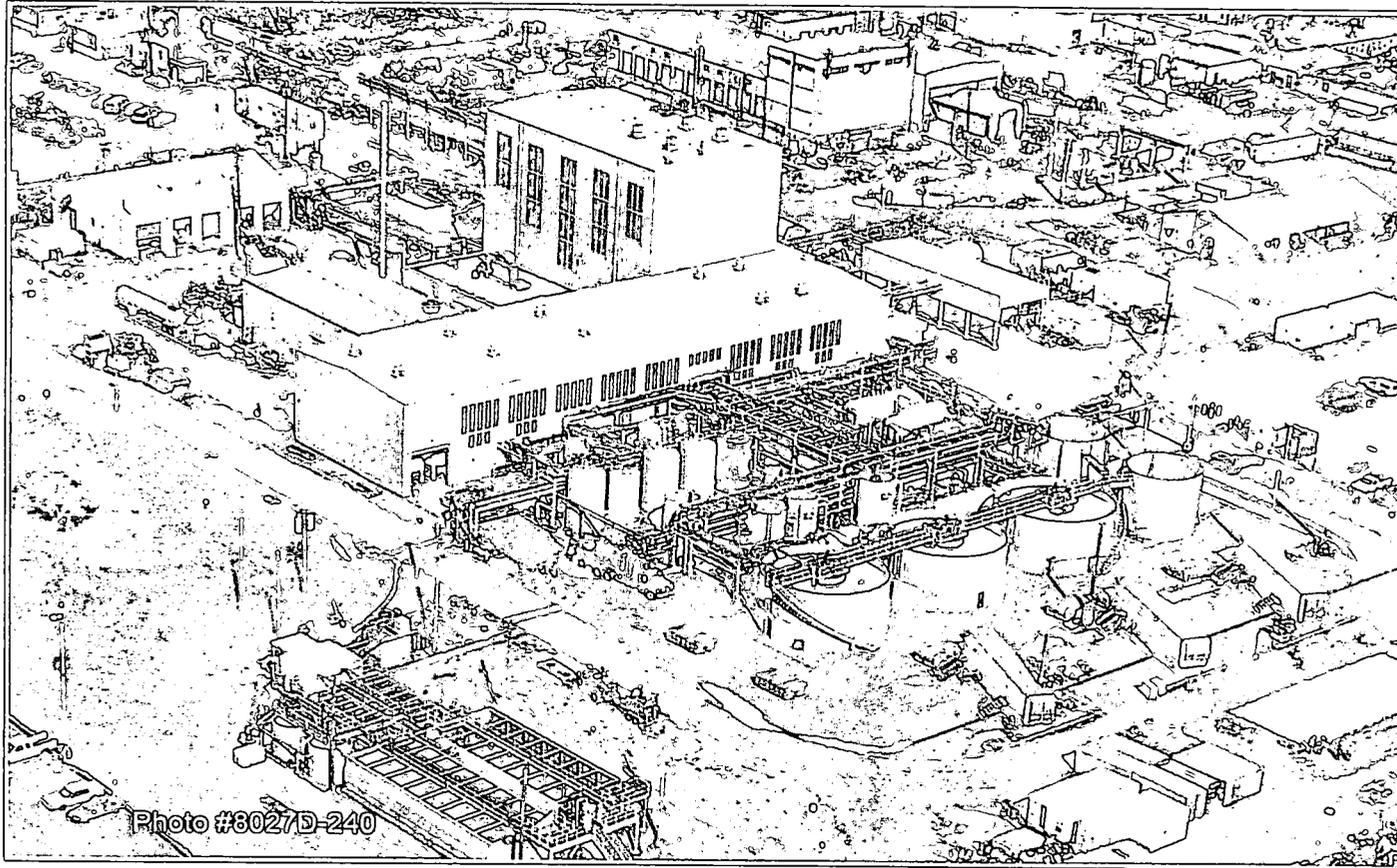
Issues

- Heel removal planning and testing
- Funding limitations may impact start of treatment operations and waste shipping



AQUIFER AND WASTEWATER

Countdown to Closure - Spring 2004



- *Treat storm water, wastewater and remediate contaminated portions of the Great Miami Aquifer*



AQUIFER AND WASTEWATER

Countdown to Closure - Spring 2004

Action Items

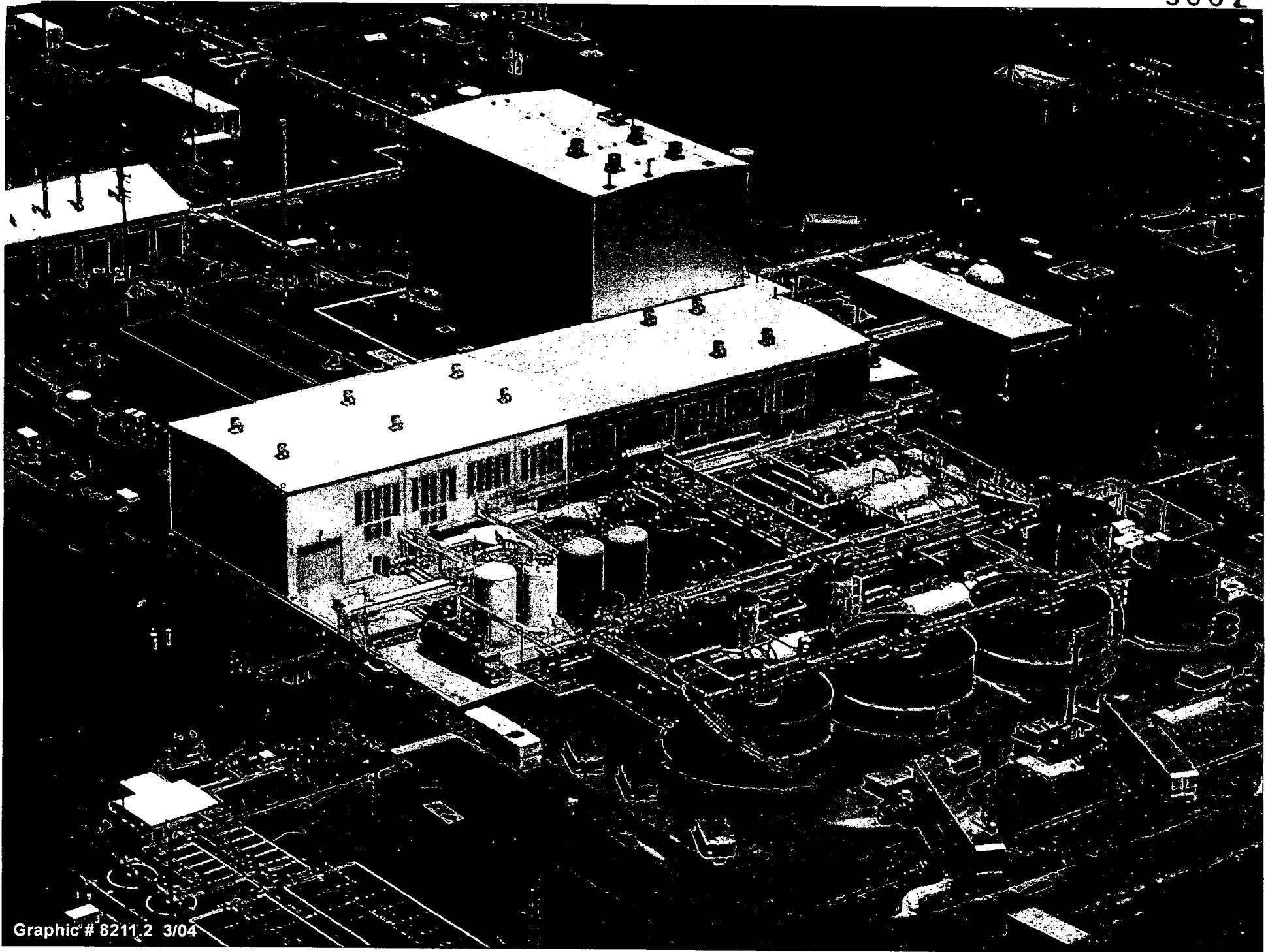
- 11/04 - Shutdown Bio Surge Lagoon
- 02/05 - Startup converted AWWT expansion
- 02/05 - Shutdown Phase I and II of AWWT
- 07/05 - Discontinue IAWWT and SPIT
- 11/05 - Cease Storm Water Retention Basin operations
- Carved Down AWWT continues

Status

- February 2004 average uranium concentration in discharge was 27.3 ppb
- Extracted more than 14.2 billion gallons of groundwater since 1993
- Treated more than 9.6 billion gallons of water
- Removed more than 5,800 pounds of uranium
- Jan/Feb 2004 held meetings with EPAs and stakeholders on an alternate long-term groundwater facility

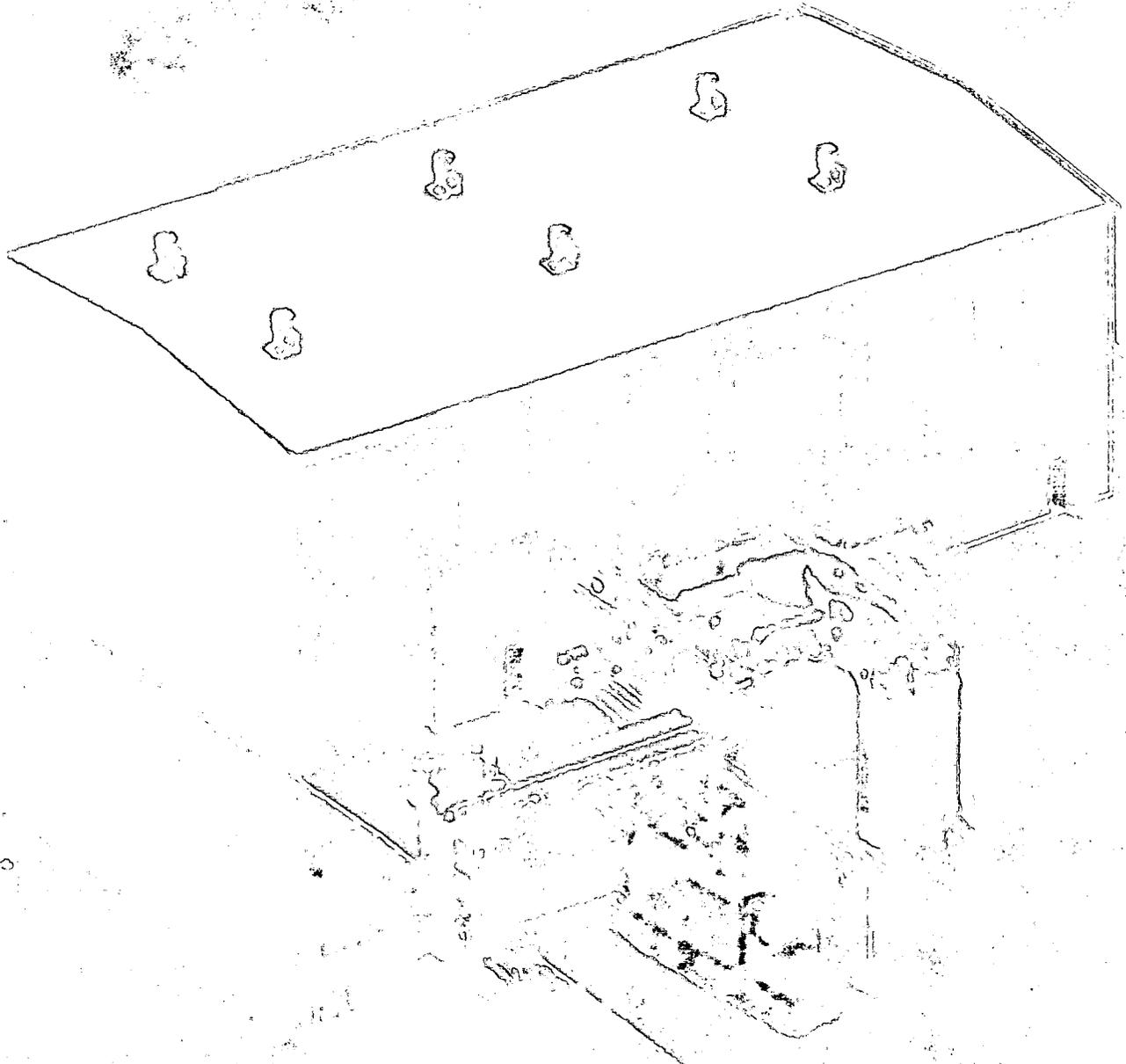
Issues

- Ion exchange resin found at Parshall Flume Sampler
 - Facility remains shut down
 - Leaked resin contained one tenth of a pound of uranium



Graphic # 8211.2 3/04

1/10/9



Graphic # 8211.1 3/04

200



LEGACY MANAGEMENT

Countdown to Closure - Spring 2004



- *Responsible for the long-term care of legacy liabilities following completion of the cleanup effort*



LEGACY MANAGEMENT

Countdown to Closure - Spring 2004

Action Items

2004 – 2006

Ongoing discussions and meetings with Office of Legacy Management personnel, stakeholders, regulators, etc.

2006

Turn over long-term maintenance and surveillance mission to DOE-LM

Status

Discussions continue:

- Hamilton County Park District (Land Manager)
- Hamilton County Library
- Lane Public Library (Information Management)
- Hamilton County Public Works (Monitoring/Surveillance)
- NRDA Settlement

Completed four natural resource restoration projects with three in progress

Institutional Controls Document submitted to OEPA/U.S. EPA and stakeholders for review

Long -Term Stewardship Plan submitted to DOE-HQ in 1/03

Initial meetings with DOE-LM personnel during week of 3/1/04

Issues

Post-closure public involvement

Access to records