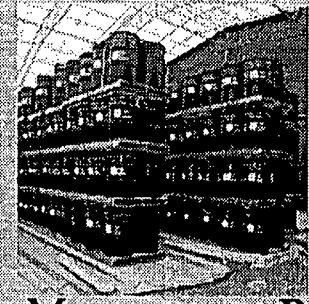
# FERNALD CLEANUP PROGRESS BRIEFING
# NOVEMBER 1998

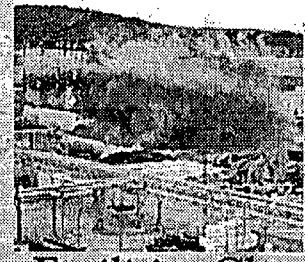
OU4 - Silos Project

OU1 - Waste Pits Remedial Action Project



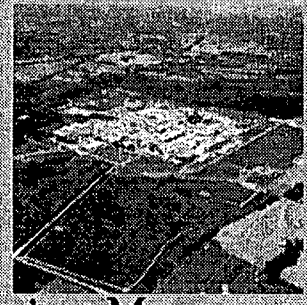
Waste Management Project

OU5 - Aquifer Restoration/ Wastewater Project



OU3 - Facilities Closure & Demolition Project

OU2 - On-Site Disposal Facility Project



Project Management

OU5 - Soil Characterization & Excavation Project

Graphics #5360.0A 11/98

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6-703 25

# FERNALD CLEANUP PROGRESS BRIEFING
# NOVEMBER 1998

| | | |
|---|---|---|
| 6:30 p.m. | Opening Remarks | Gary Stegner |
| 6:35 p.m. | Project Updates | |
| | OU2 - On-Site Disposal Facility Project | Jay Jalovec |
| | OU3 - Facilities Closure & Demolition Project | John Trygier |
| | OU4 - Silos Project | Nina Akgunduz |
| | OU5 - Aquifer Restoration/Wastewater Project | John Kappa |
| | OU5 - Soil Characterization & Excavation Project | Rob Janke |
| | Waste Management | Bob Danner |
| | --Break-- | |
| 7:40 p.m. | Waste Pits Remedial Action Project | John Hall |

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Graphics # 5360.0B 11/98

# PROJECT NEWS
# OU2 - ON-SITE DISPOSAL FACILITY

- Cell 1 Activities:
  - 182,021 cubic yards of soil and at/below grade debris placement
  - 13,262 cubic yards of demolition debris placement
- Cell 2 Activities:
  - Liner system installation
- Cell 3 Activities:
  - Clay material processing

3



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# PROJECT NEWS
# OU3 - FACILITIES CLOSURE & DEMOLITION PROJECTS

- Recent decontamination and dismantlement progress
- Plant 9
- Safe Shutdown status

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# SEWAGE TREATMENT PLANT

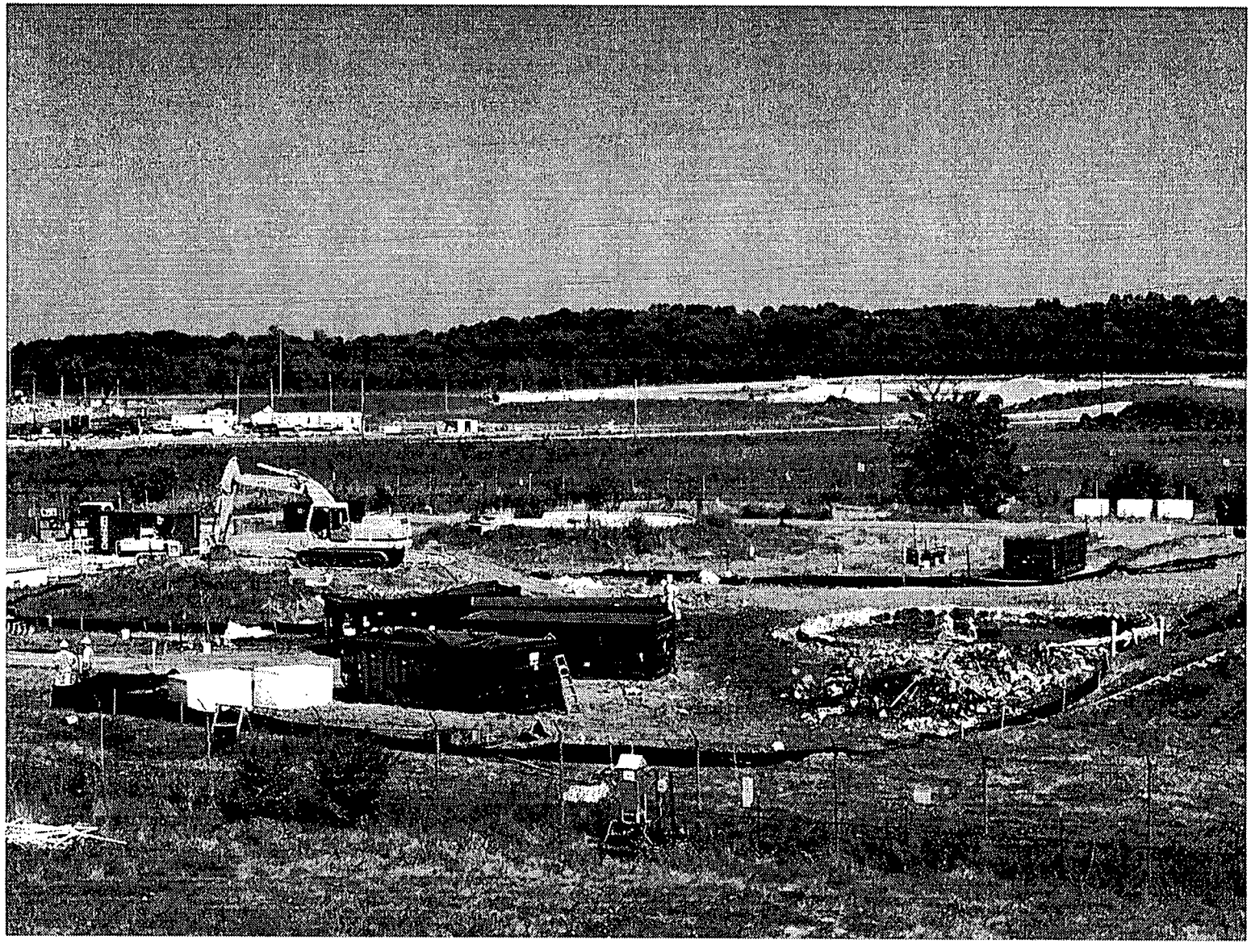


Photo taken August 1998

Graphics # 5360.3B 11/98 Photo #6620-D215

EPA 1812

# PLANT 9 COMPLEX

Photo taken October 1998

Graphics # 5360.3C 11/98 Photo #6494-D525

# PLANT 9

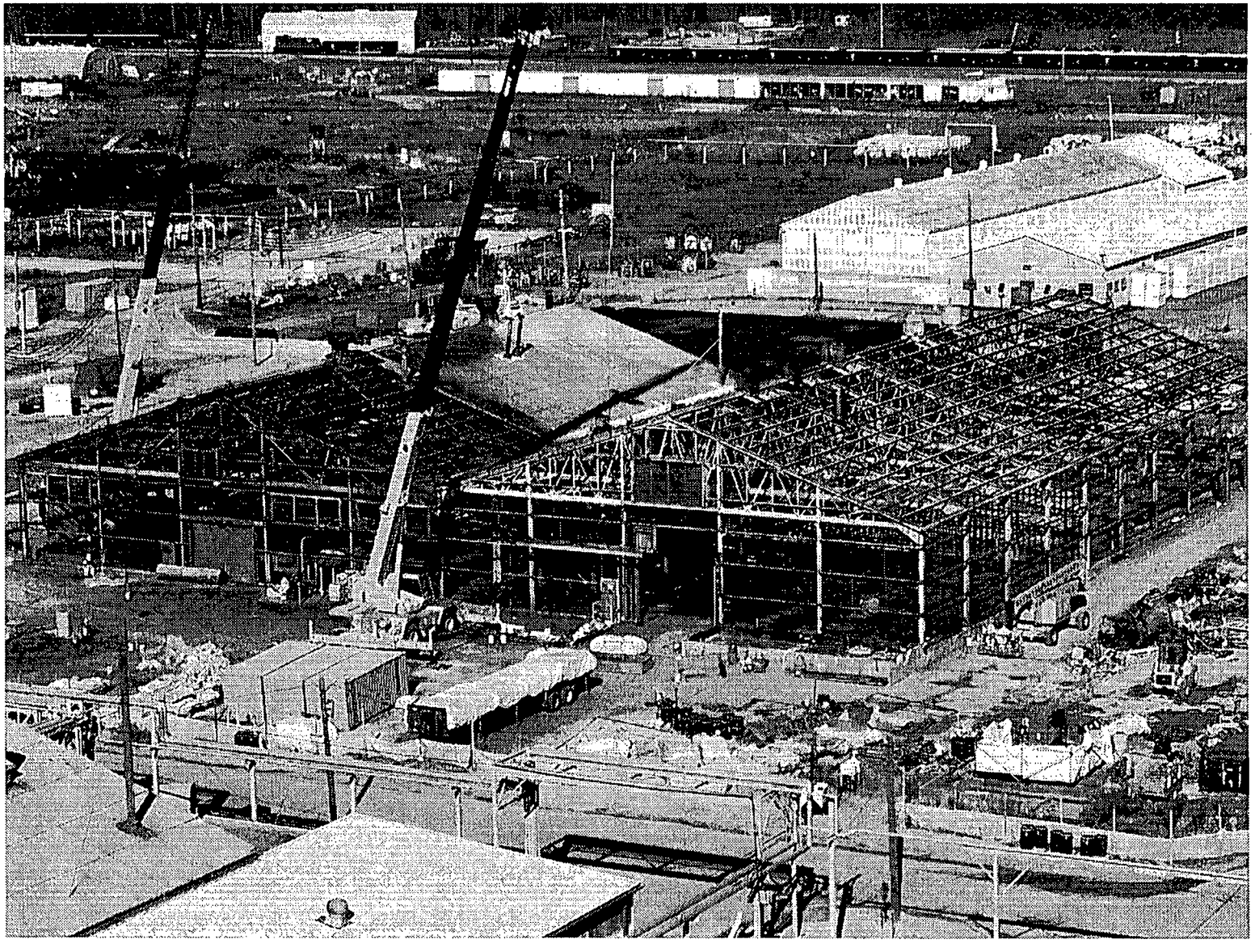


Photo taken November 1998

Graphics # 5360.3E 11/98 Photo #6494-D532

# PLANT 6 SAFE SHUTDOWN

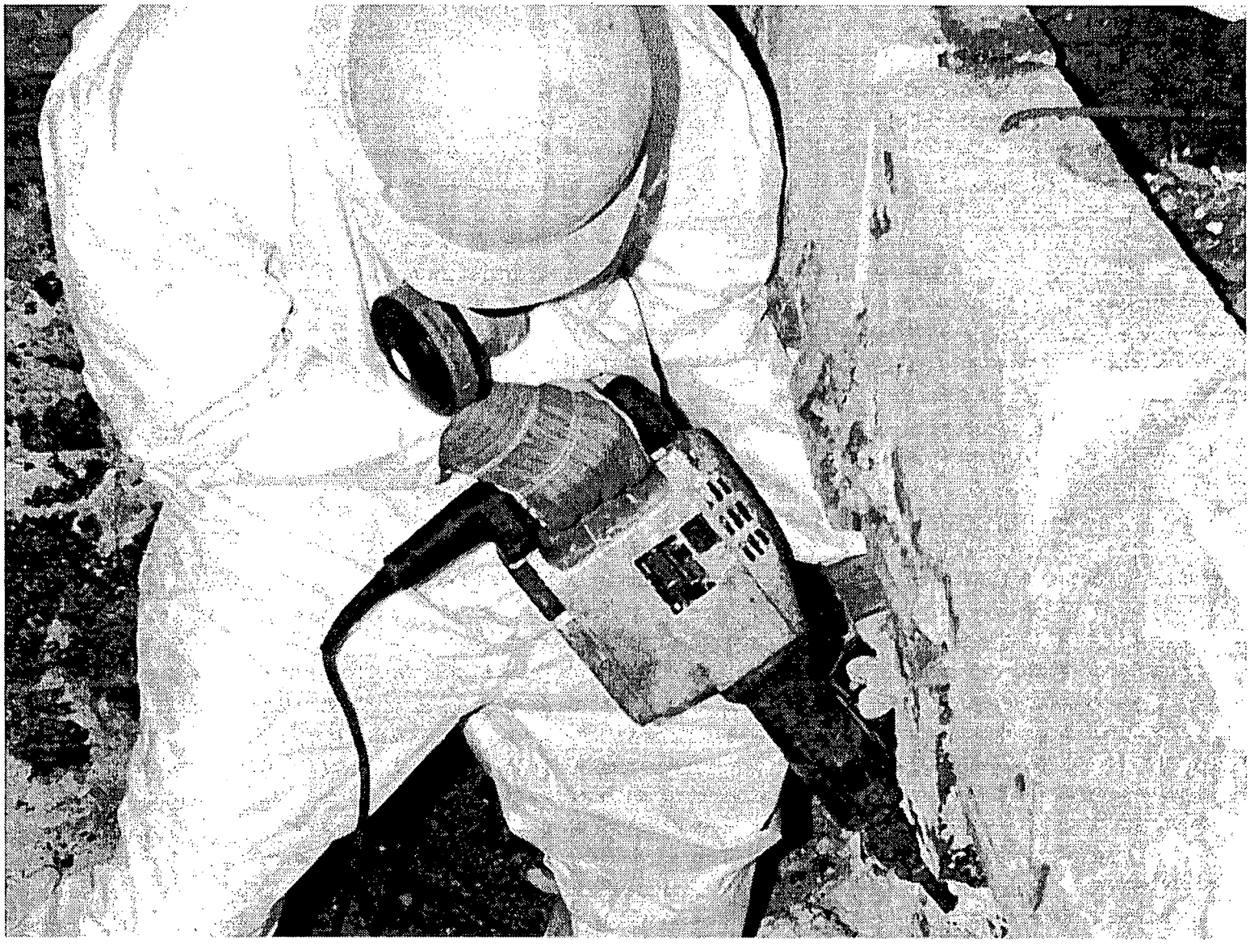


Photo taken October 1998

Graphics # 5360.3D 11/98 Photo #6639-D85

# PROJECT NEWS
# OU4 - SILOS PROJECT

## Silos 1 & 2:

- Reviewing Accelerated Waste Retrieval Proposals
- Proof-of-Principle vendors will perform demonstration runs this month

2181

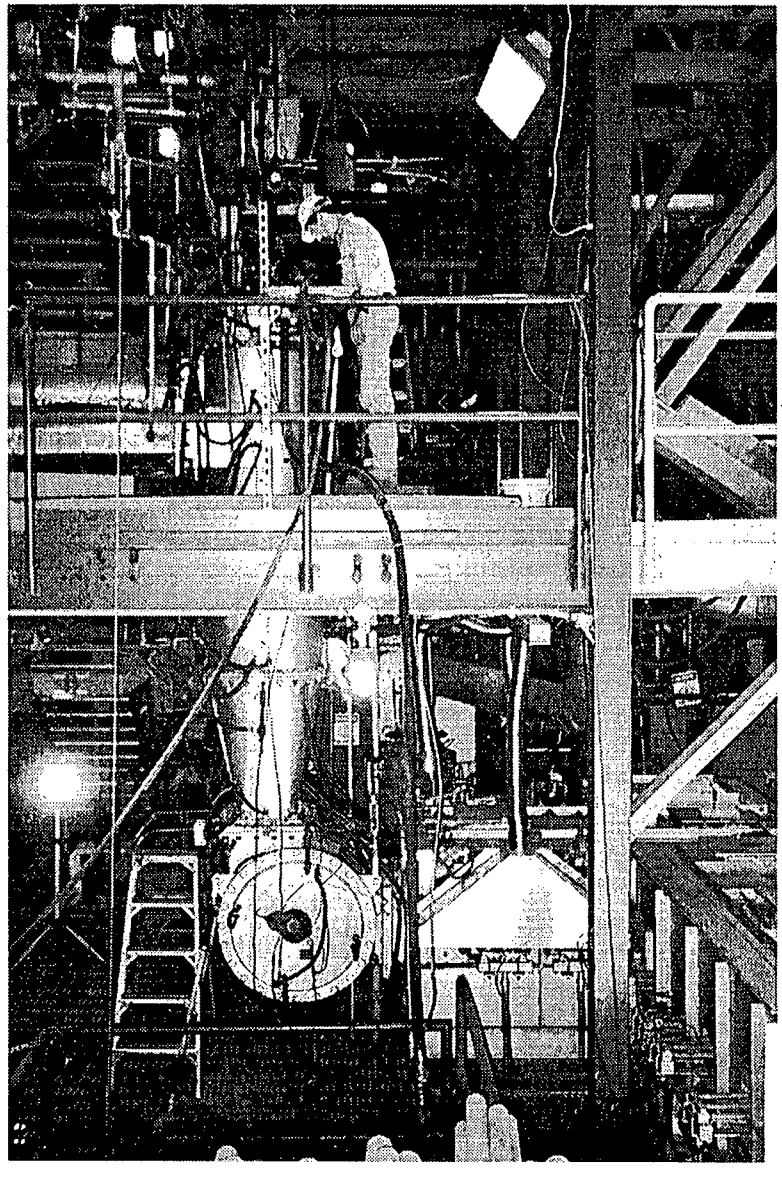
# PROJECT NEWS
# OU4 - SILOS PROJECT

## Silo 3:

- Evaluating technical and price proposals
- Completed Small Scale Waste Retrieval and initiated demobilization of systems and enclosures

181 2

# VORTEC CYCLONE VITRIFICATION UNIT





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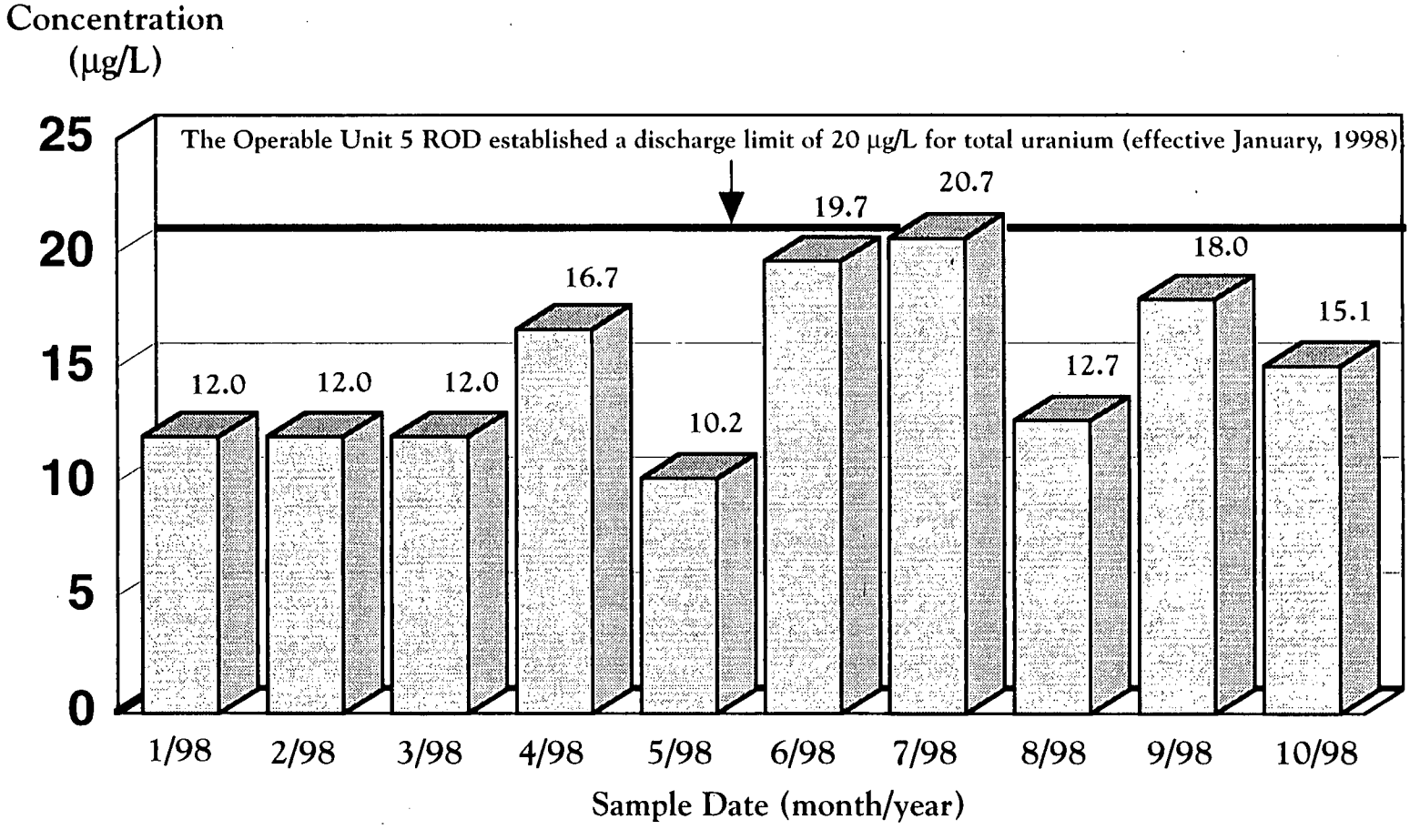
# PROJECT NEWS
# OU 5 - AQUIFER RESTORATION/ WASTEWATER PROJECT

- Regulatory Commitments
- Wastewater Treatment Plants

2 1812

# AVERAGE MONTHLY TOTAL URANIUM CONCENTRATION DISCHARGED TO THE GREAT MIAMI RIVER IN 1998

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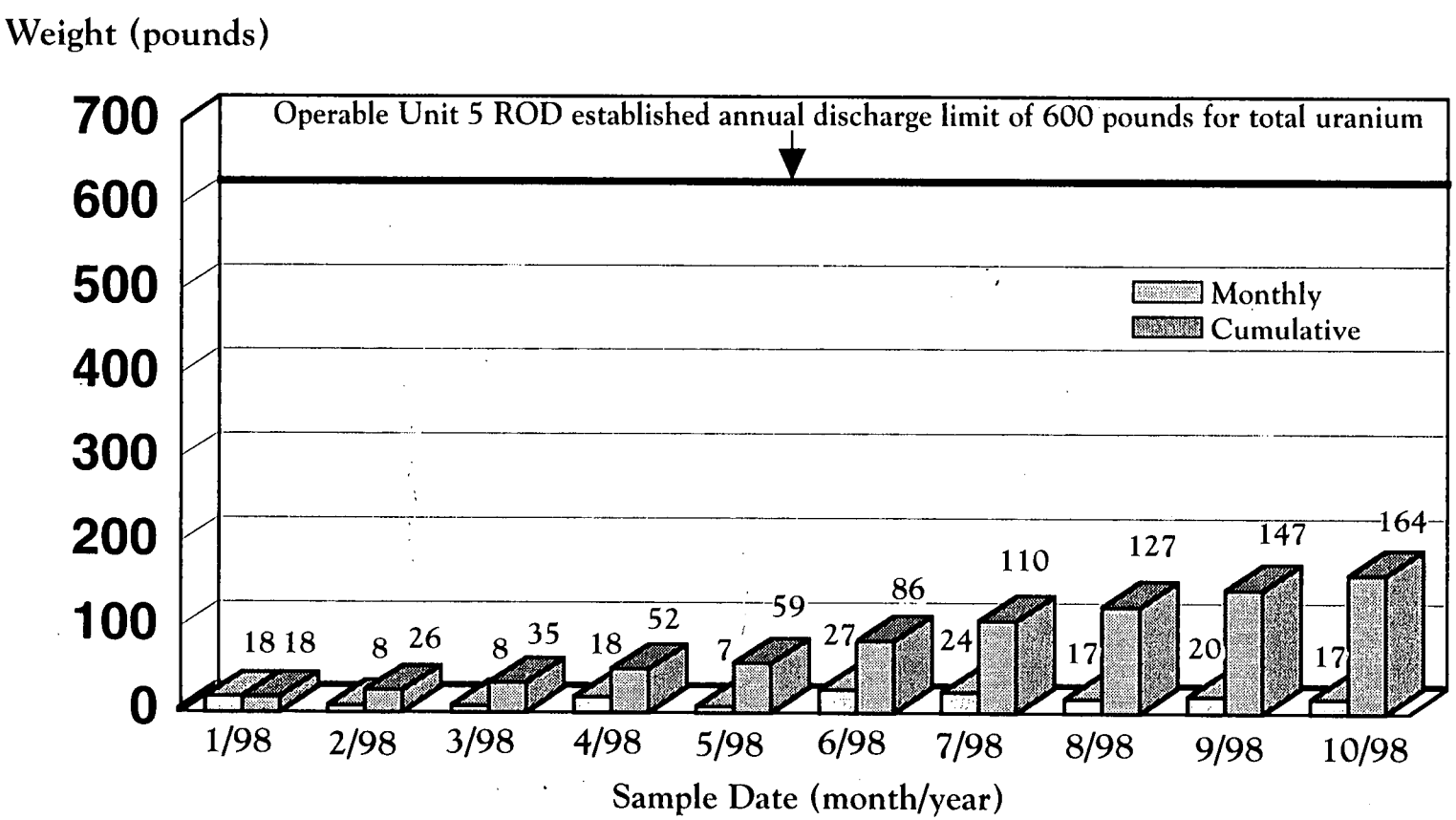
Graphics # 5360.5B 7/98

# POUNDS OF URANIUM DISCHARGED TO THE GREAT MIAMI RIVER IN 1998




Note: Sum of monthly discharges may not always agree with cumulative total because of rounding differences.

# WATER TREATMENT SYSTEMS AT FERNALD

| Facility | Treatment Capacity (gpm* mgy*) | | Media Treated |
|---|---|---|---|
| AWWT-Phase I | 600gpm | 315 mgy | SW/GW |
| AWWT-Phase II | 300gpm | 158mgy | RWW/SW/GW |
| AWWT-Expansion | 1500gpm | 788mgy | GW |
| Interim AWWT | 250gpm | 131mgy | SW/GW |
| South Plume Interim Treatment (SPIT) | 175gpm | 92mgy | GW |
| Totals | 2825gpm | 1484mgy | |

| | | | |
|---|---|---|---|
| *gpm | Gallons per Minute | *mgy | Million Gallons per Year |
| *SW | Storm Water | *GW | Groundwater |
| *RWW | Remediation Wastewater | | |

Graphics # 5360.5D 11/98

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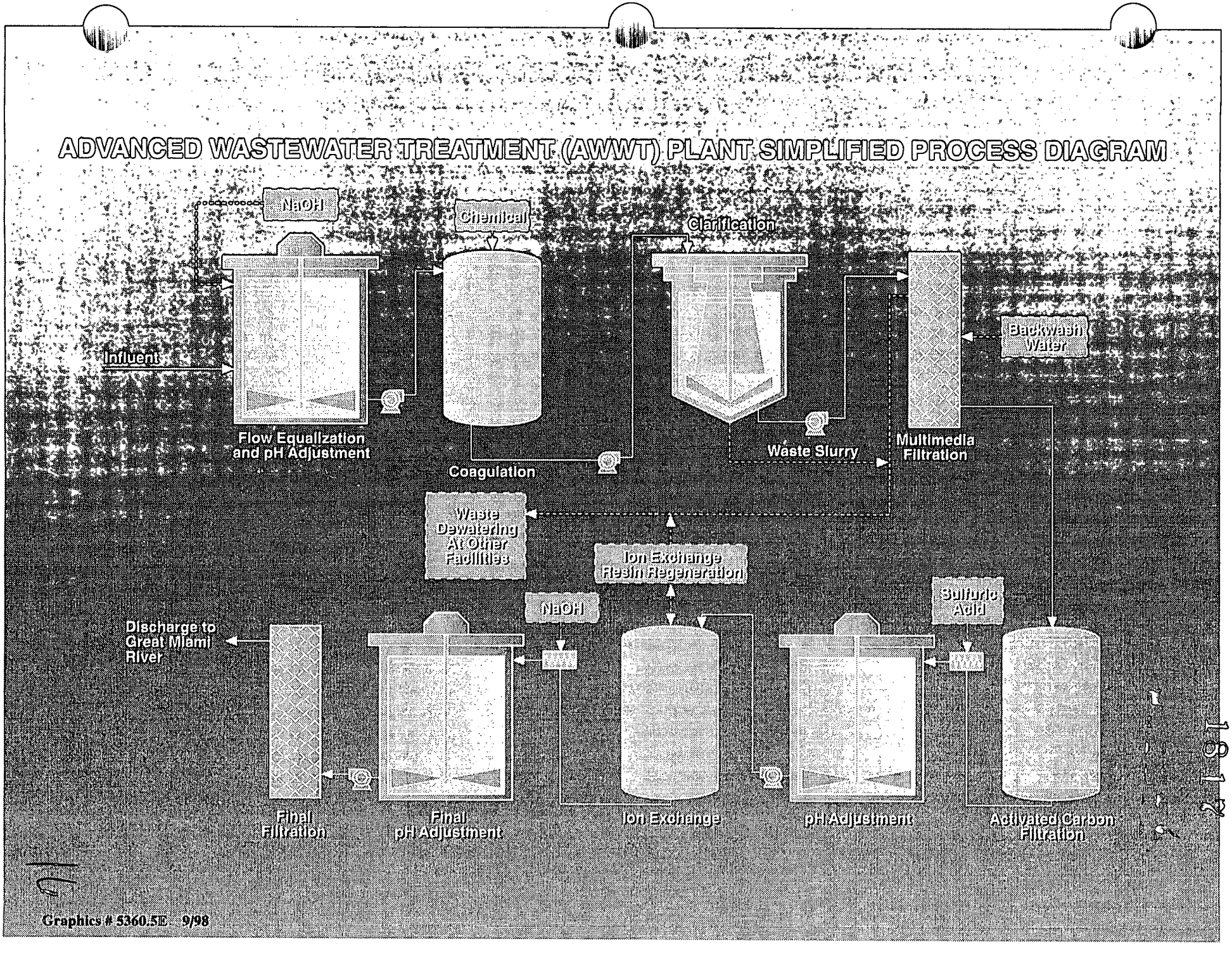
# ADVANCED WASTEWATER TREATMENT (AWWT) PLANT SIMPLIFIED PROCESS DIAGRAM




Graphics # 5360.5E 9/98

# ION EXCHANGE/MULTI-MEDIA VESSELS IN AWWT

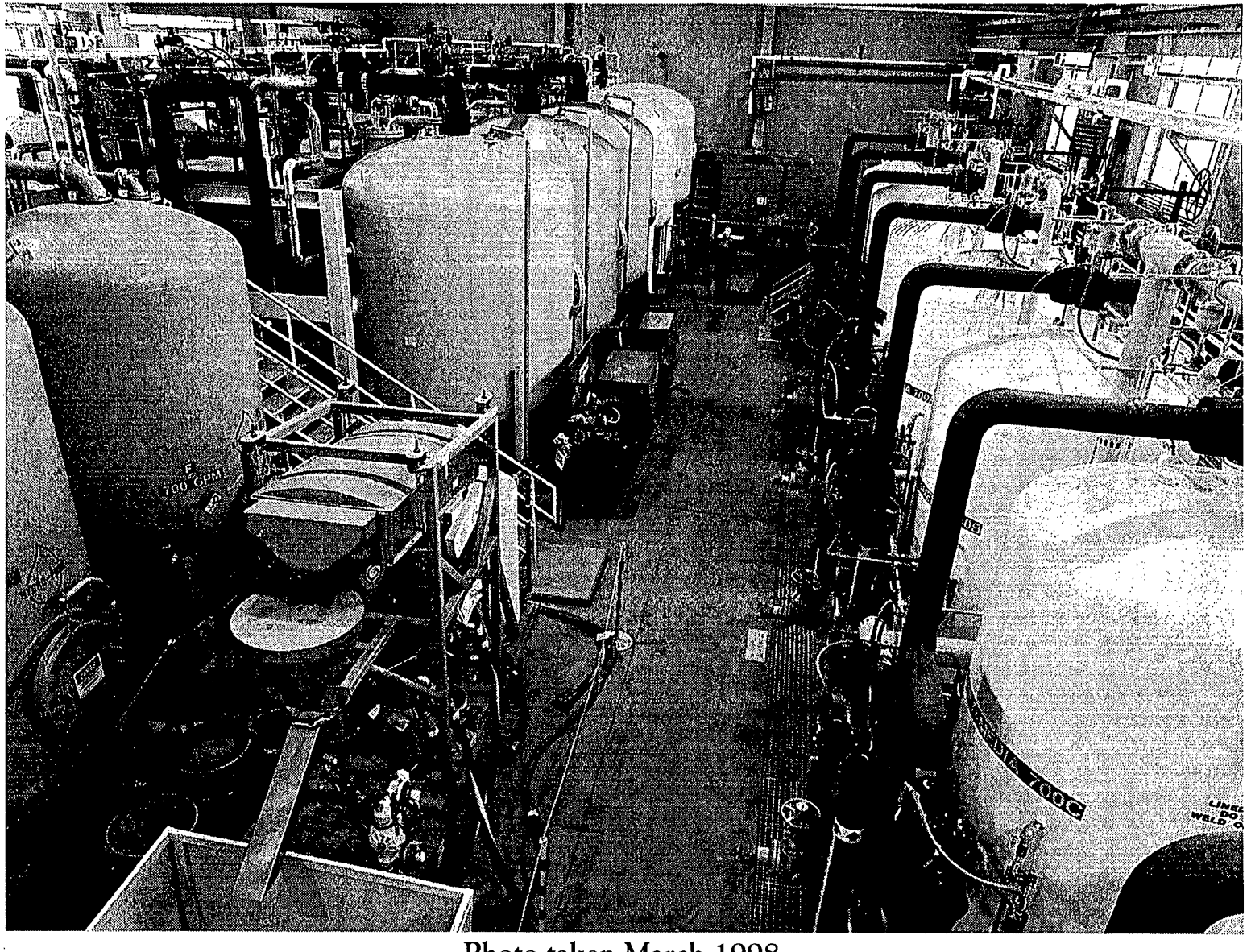
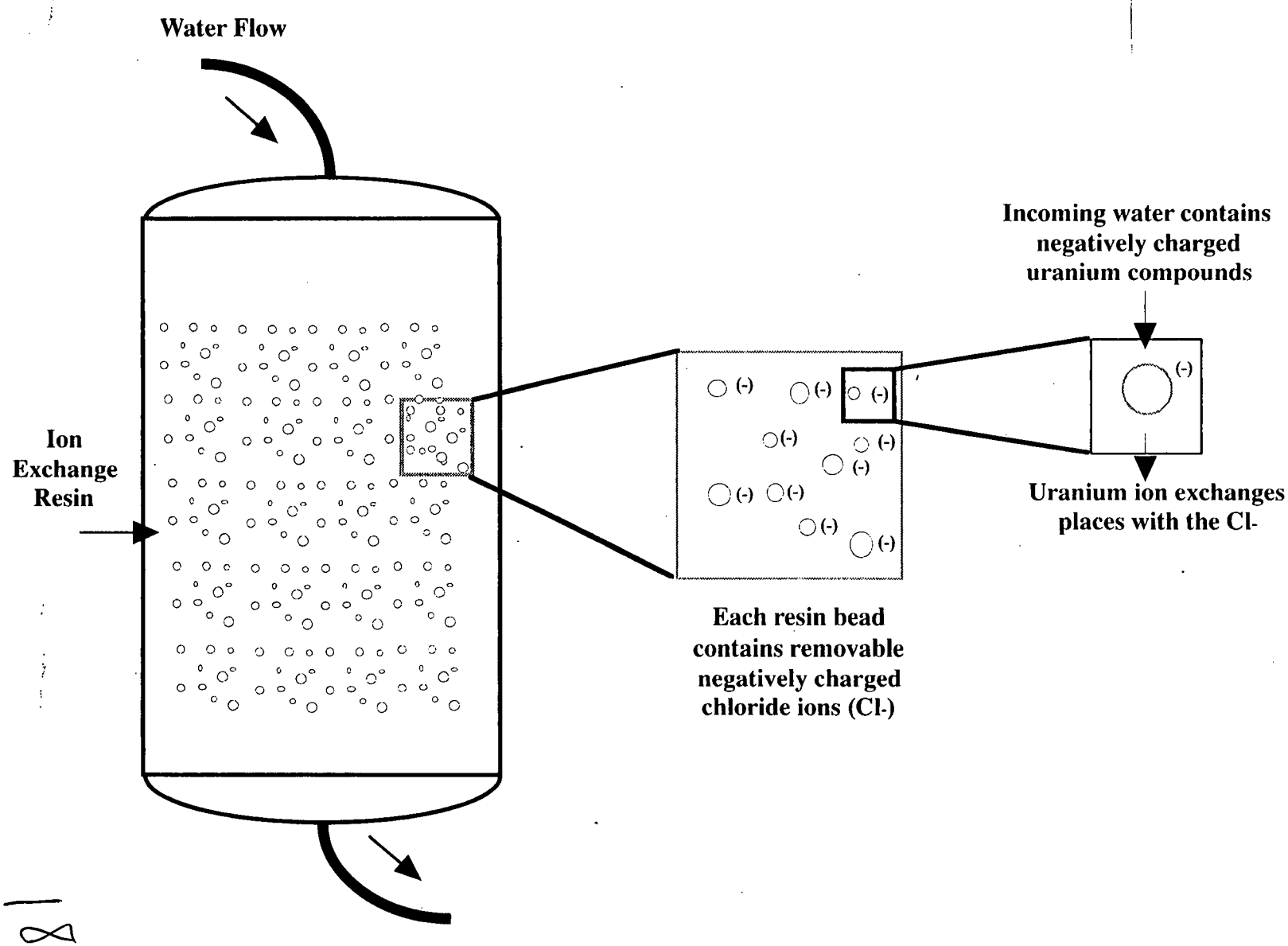


Photo taken March 1998

Graphics # 5360.5F 11/98 Photo # 5531A-1051

# ION EXCHANGE PROCESS




Graphics # 5360.5G 9/98

# PROJECT NEWS
# OU 5 - SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Area 2, Phase I - Southern Waste Units Excavation
  - Inactive Flyash Pile completed
  - Focus on impacted soil stockpile and Active Flyash Pile
  - Approximately 150,000 cubic yards excavated
- Area 1, Phase II - Former Sewage Treatment Plant Area and Lead Trap Range
  - Site Preparation awarded to Petro Environmental
  - Request for proposal for lead stabilization and excavation of the former Trap Shooting Range was issued; in situ methods of stabilization are being sought
  - Preparation work continues for selection of a qualified subcontractor to excavate former Sewage Treatment Plant area



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# PROJECT NEWS
# OU 5 - SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Aesthetic Barrier along Willey Road complete
- Area 8, Phase I Habitat Area should be completed by end of November 1998
- Pre-design of excavation Area 3A and Area 4A was initiated
- Project specific sampling completed in Area 7 (in order to support Silos infrastructure work)



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# SOUTHERN WASTE UNITS EXCAVATION

Photo taken October 1998

Graphics # 5360.6C 11/98 Photo #6734-D866

# SOUTHERN WASTE UNITS EXCAVATION

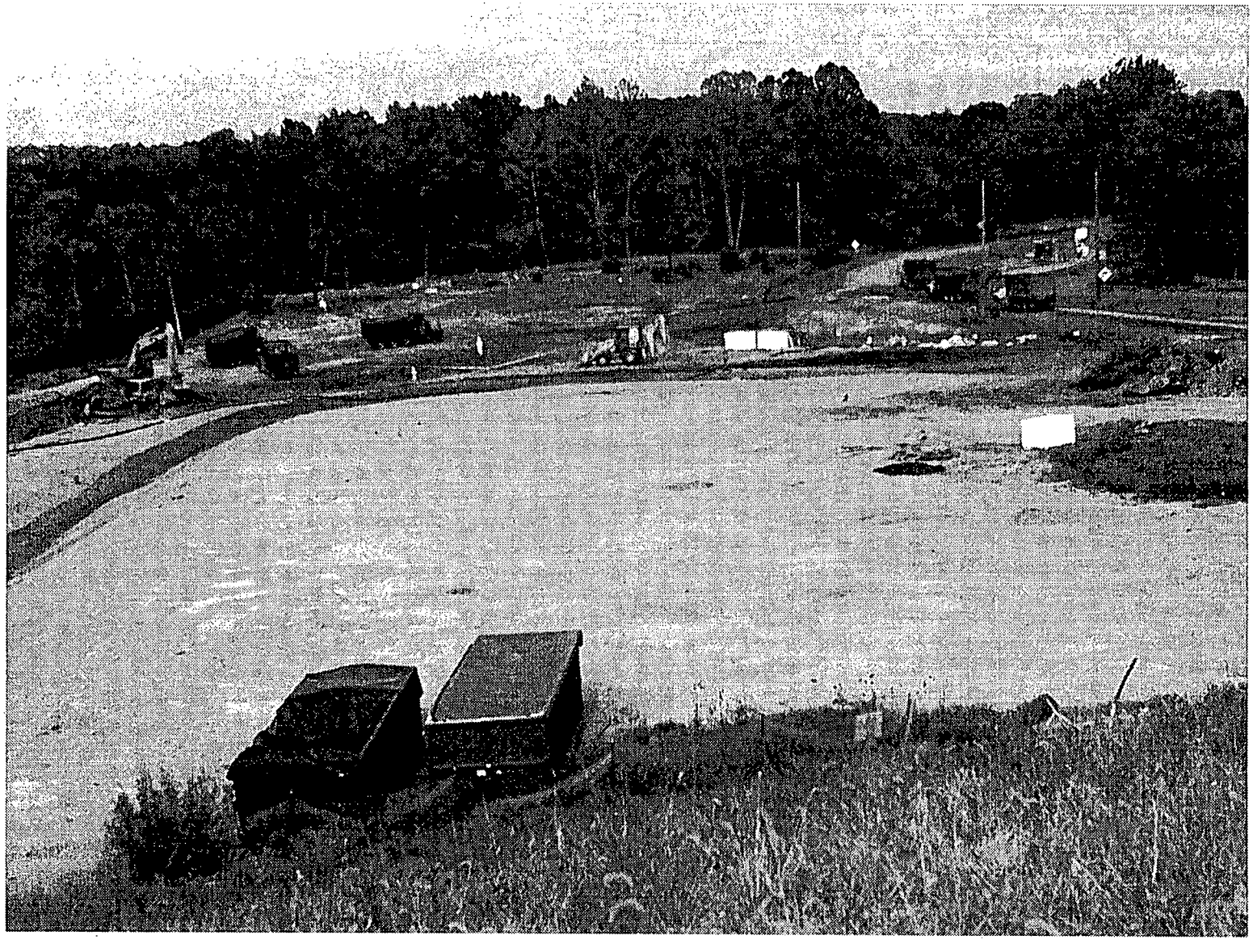

Photo taken October 1998

Graphics # 5360.6D 11/98 Photo #6734-D868

# SOUTHERN WASTE UNITS EXCAVATION

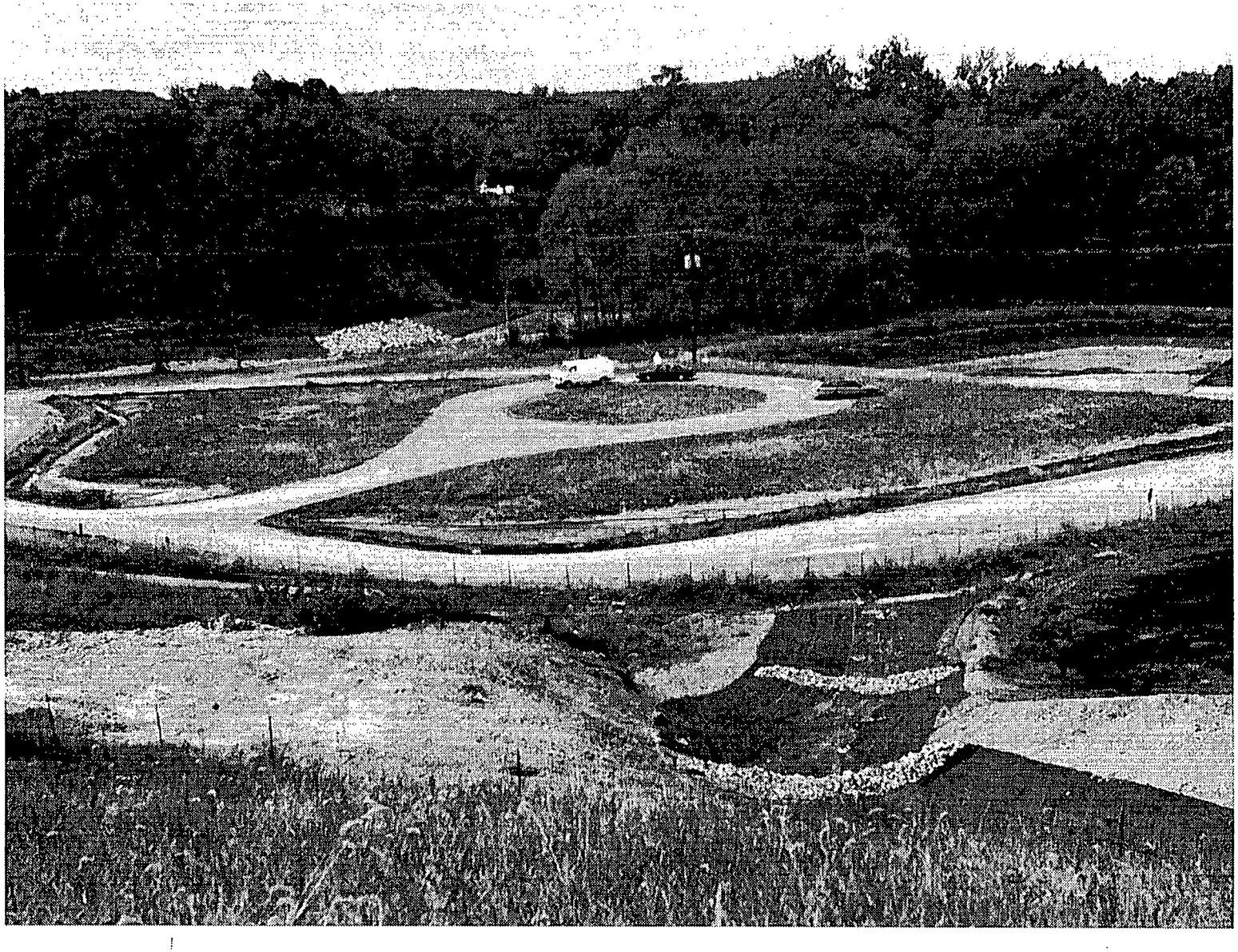

Photo taken October 1998

Graphics # 5360.6E 11/98 Photo #6734-D871

# STOCKPILE #7

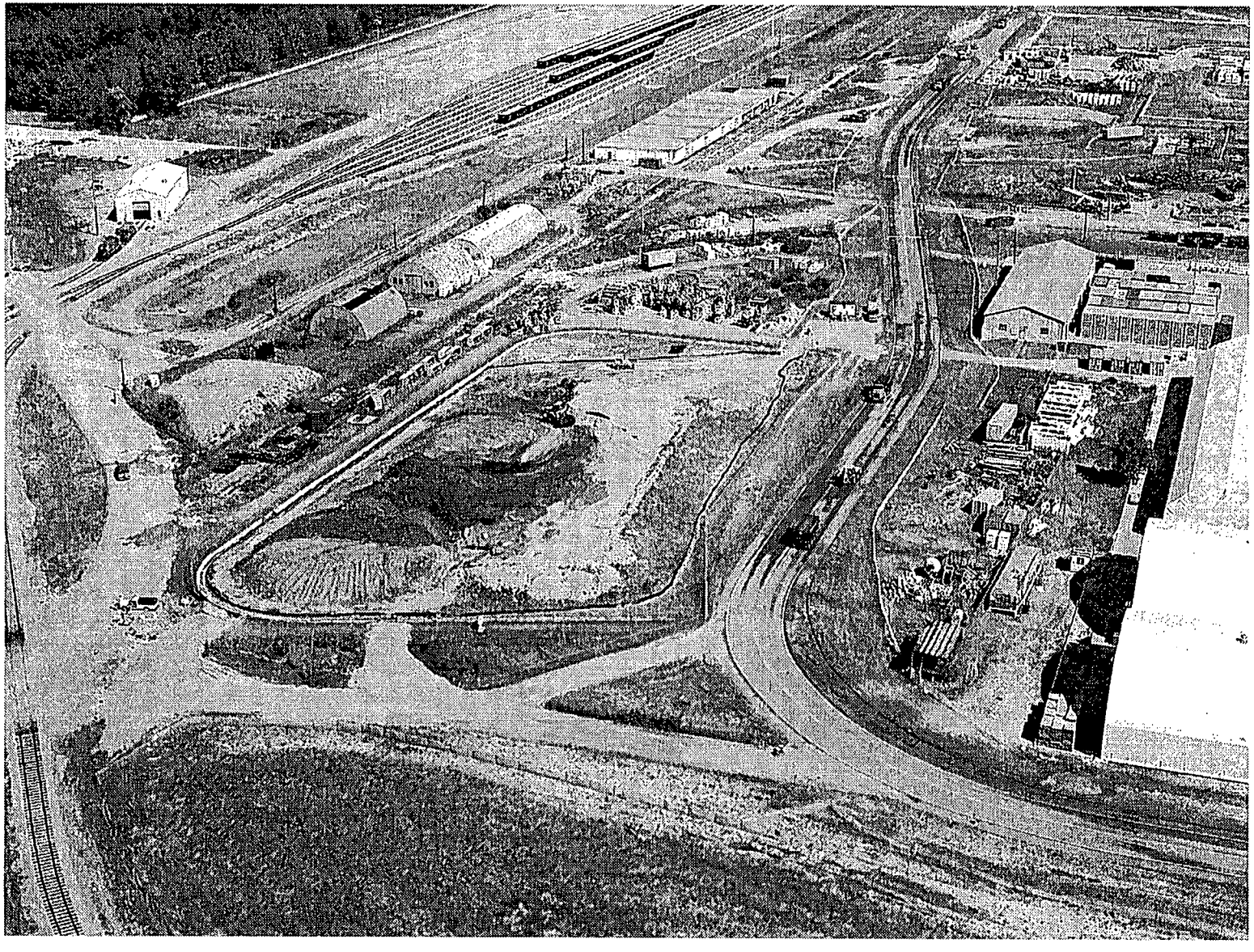

Photo taken September 1998

Graphics # 5360.6F 11/98 Photo # 6975-94

# OLD SEWAGE TREATMENT PLANT

Photo taken September 1998

Graphics # 5360.6G 11/98 Photo # 6975-102

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# AESTHETIC BARRIER

Photo taken October 1998

Graphics # 5360.6H 11/98 Photo # 6998-D48

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# HABITAT AREA OVERLOOK

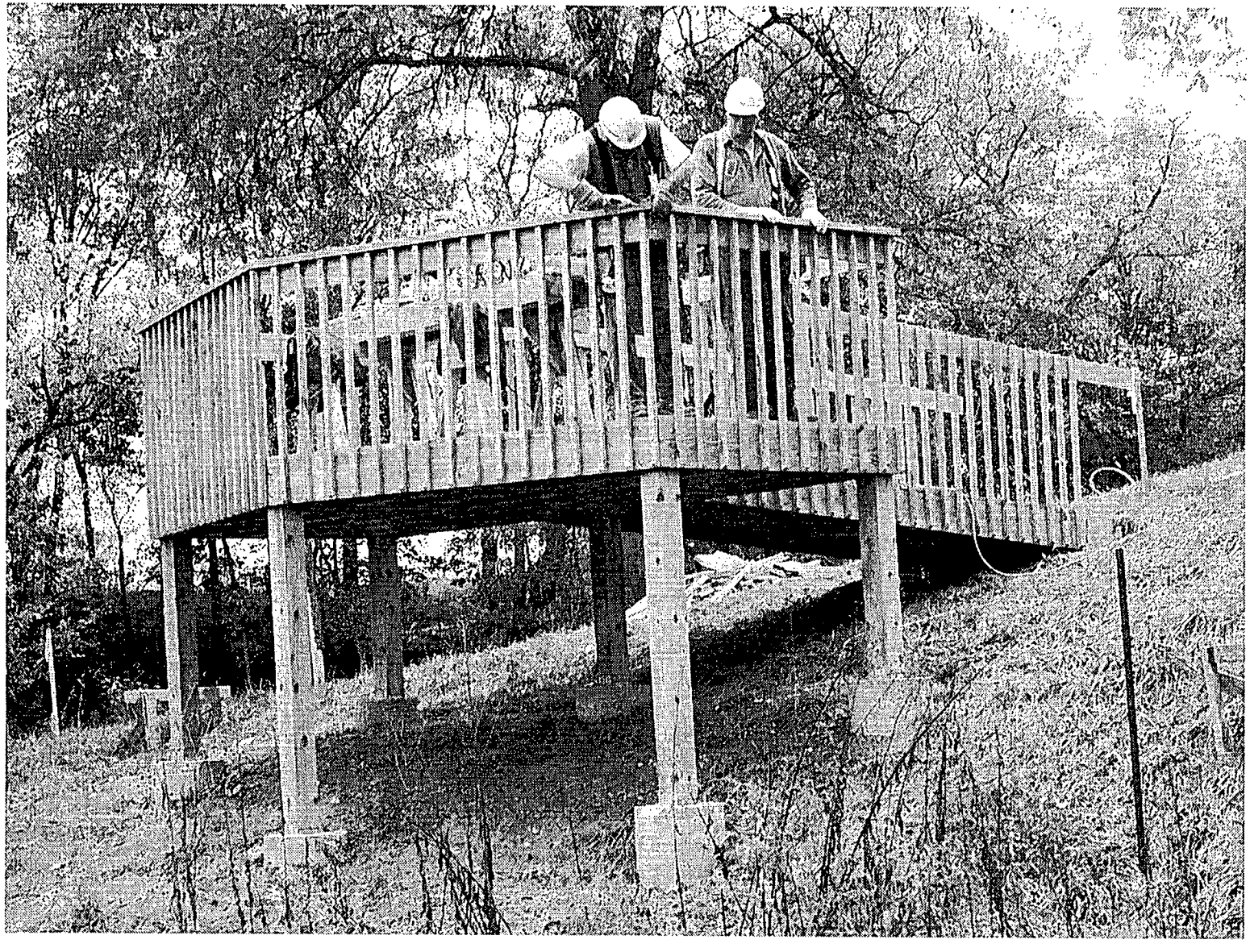

Photo taken October 1998

Graphics # 5360.6I 11/98 Photo # 6967-D44

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# PROJECT NEWS
# WASTE MANAGEMENT

- Nevada Test Site surveillance team will conduct final assessment in December
- Nuclear materials continue to be shipped off site
- Batch 7 material has been transported to the TSCA Incinerator
- DOE has received approval to ship Batch 8
- Demobilization of Perma Fix equipment at Plant 6 continues
- Project assessments recently completed:
  - Thorium legacy waste project
  - Loss of Fluid Test (LOFT) fuel rods
  - Enriched nuclear materials



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# 4B WAREHOUSE

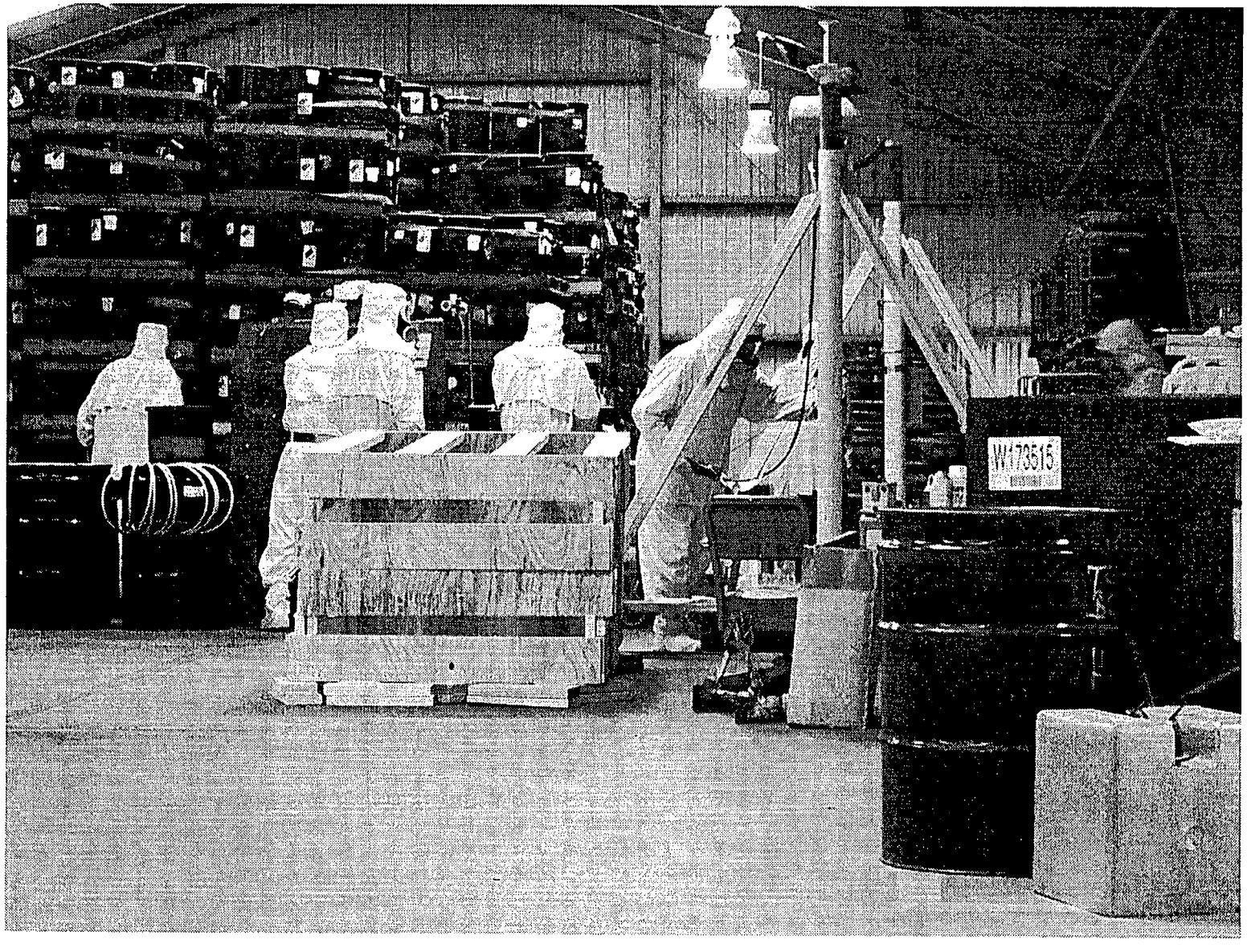


Photo taken October 1998

Graphics # 5360.7B 11/98 Photo # 6731-D56

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# 4B WAREHOUSE

Photo taken October 1998

Graphics # 5360.7C 11/98 Photo # 6731-D33

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# SHIPMENTS TO BRITISH NUCLEAR FUELS LIMITED

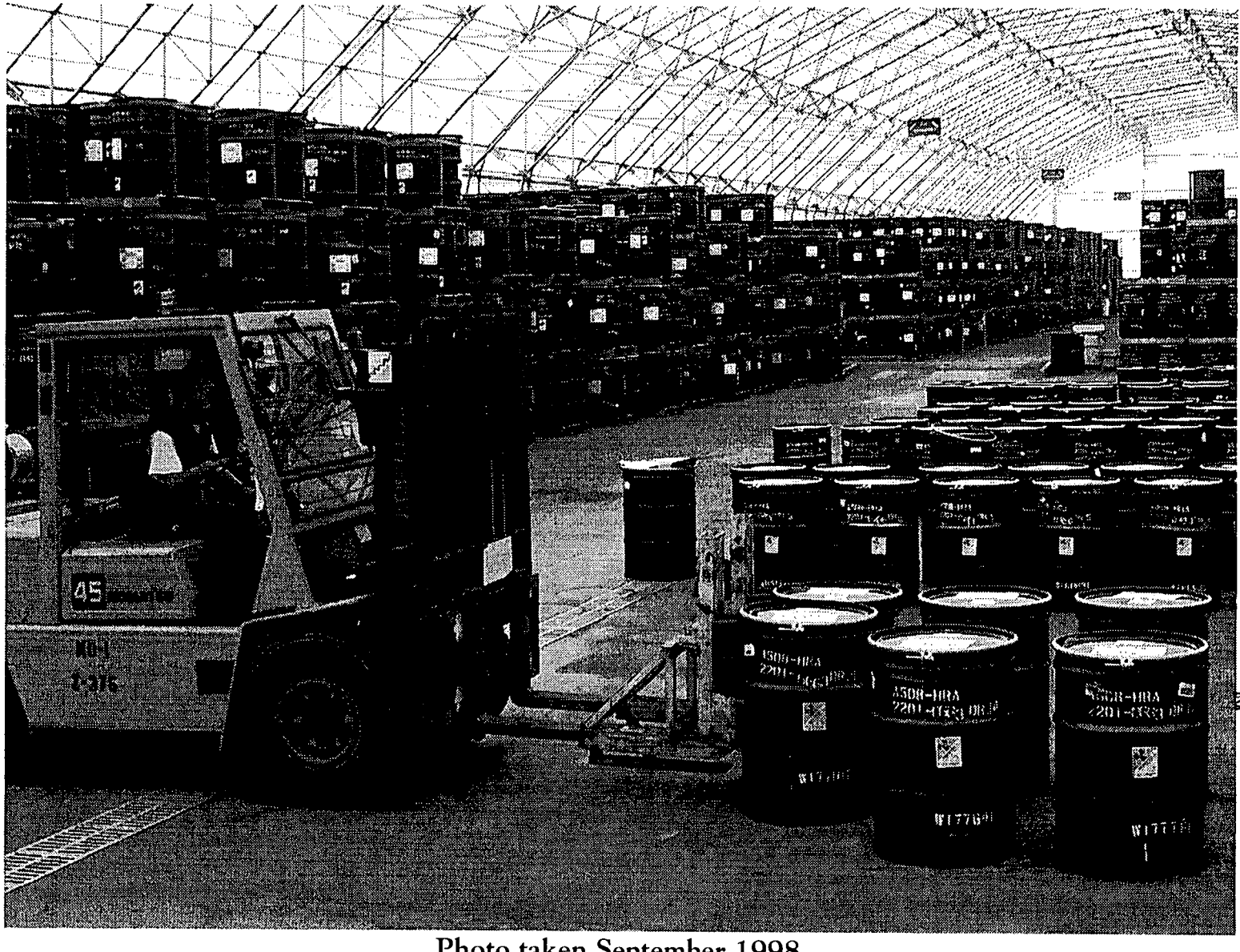

Photo taken September 1998

Graphics # 5360.7D 11/98 Photo #6714-D265

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# SHIPMENTS TO BRITISH NUCLEAR FUELS LIMITED

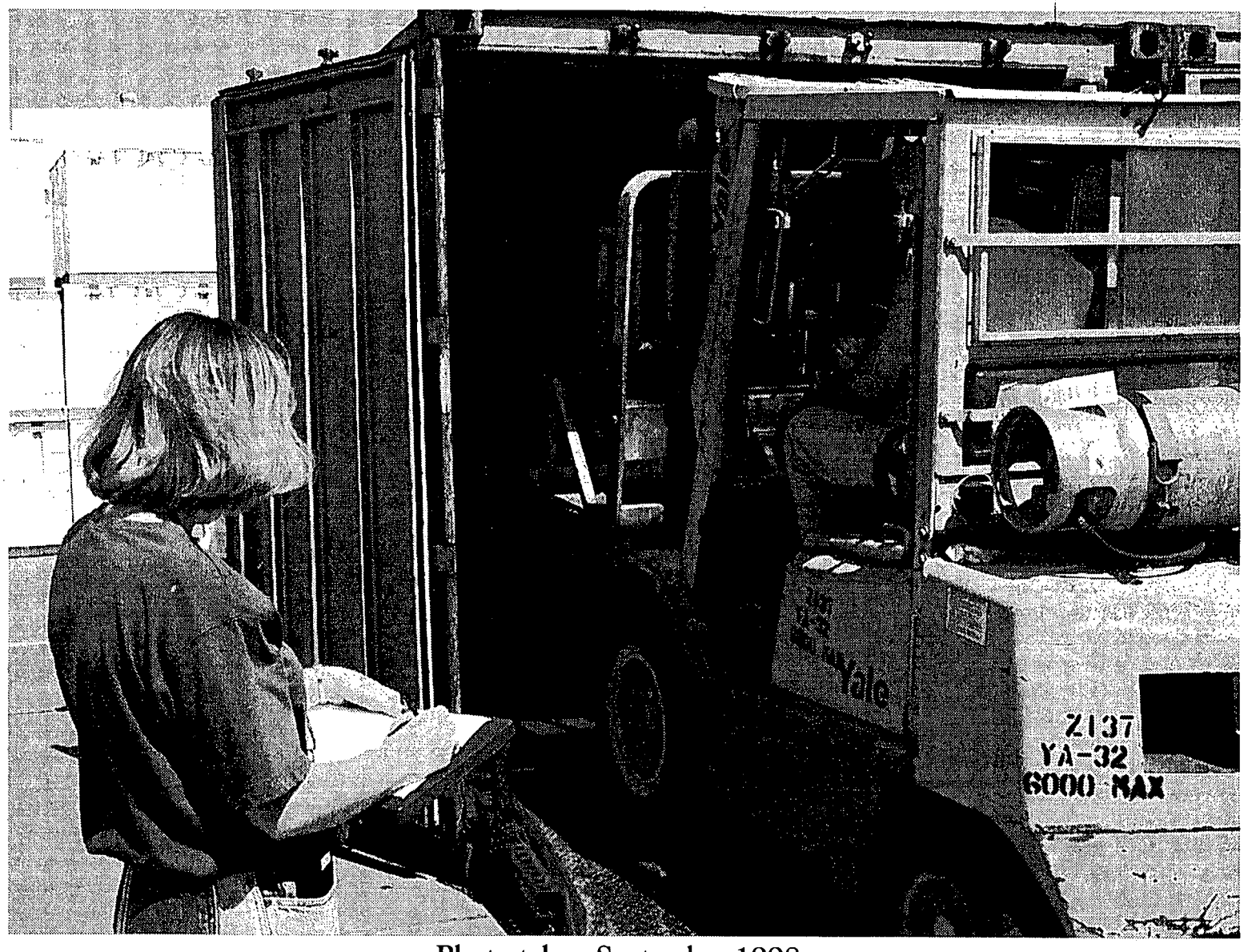


Photo taken September 1998

Graphics # 5360.7E 11/98 Photo #6714-D274

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# WASTE PITS REMEDIAL ACTION PROJECT PROJECT STATUS REPORT

## Monthly Cleanup Progress Briefing
## November 10, 1998

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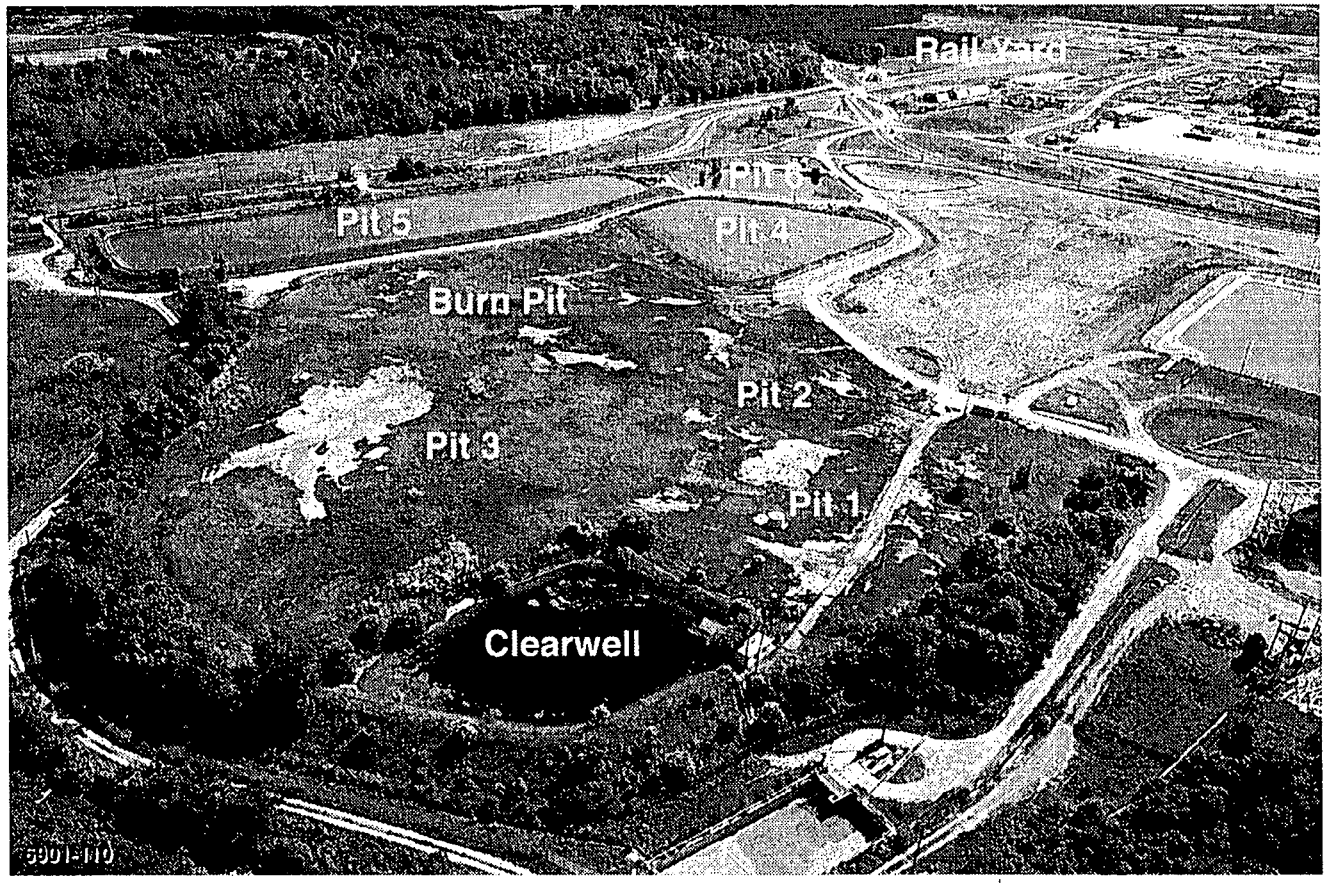
# WASTE PIT AREA

FERNALD



# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

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- **Project Objective**
  - **Removal, treatment and off-site disposal of waste pit materials at a permitted commercial disposal facility**
- **Milestones Dates**
  - **Initiate operations (i.e. loading of wastes) by March 1, 1999**
  - **Complete operations by May 31, 2005**

# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Responsibilities

| | |
|---|---|
| • Project oversight<br>– construction oversight<br>– regulatory interface<br>– public interface<br>– contract management | DOE/Fluor Daniel Fernald |
| • Excavation, treatment and loading waste in railcars | IT Corp, FAT&LC, GCBCTC |
| • Waste shipping | Fluor Daniel Fernald/ FAT&LC |
| • Waste transportation | UP/CSXT |
| • Waste disposal | Envirocare |
| • Project infrastructure and support<br>– purchase gondola railcars<br>– build railyard<br>– site preparation | DOE/Fluor Daniel Fernald |

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# WASTE PIT REMEDIAL ACTION PROJECT

FERNALD

## Fact Sheet

- Authorization to mobilize (for construction): July 1998
- Construction: July 1998 - February 1999
- Load waste into railcars: March 1, 1999
- Production operation: March 1999 - September 2004
- Decontamination & demobilization: October 2004 - May 2005
- Project close-out: May 2005

# AGENDA

FERNALD

- Construction Status
- Transportation/Disposal Status
- Outreach
- Training Status
- Regulatory Deliverables Status
- Look Ahead

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# IT CORP. CONSTRUCTION SITE

FERNALD

5041-D181

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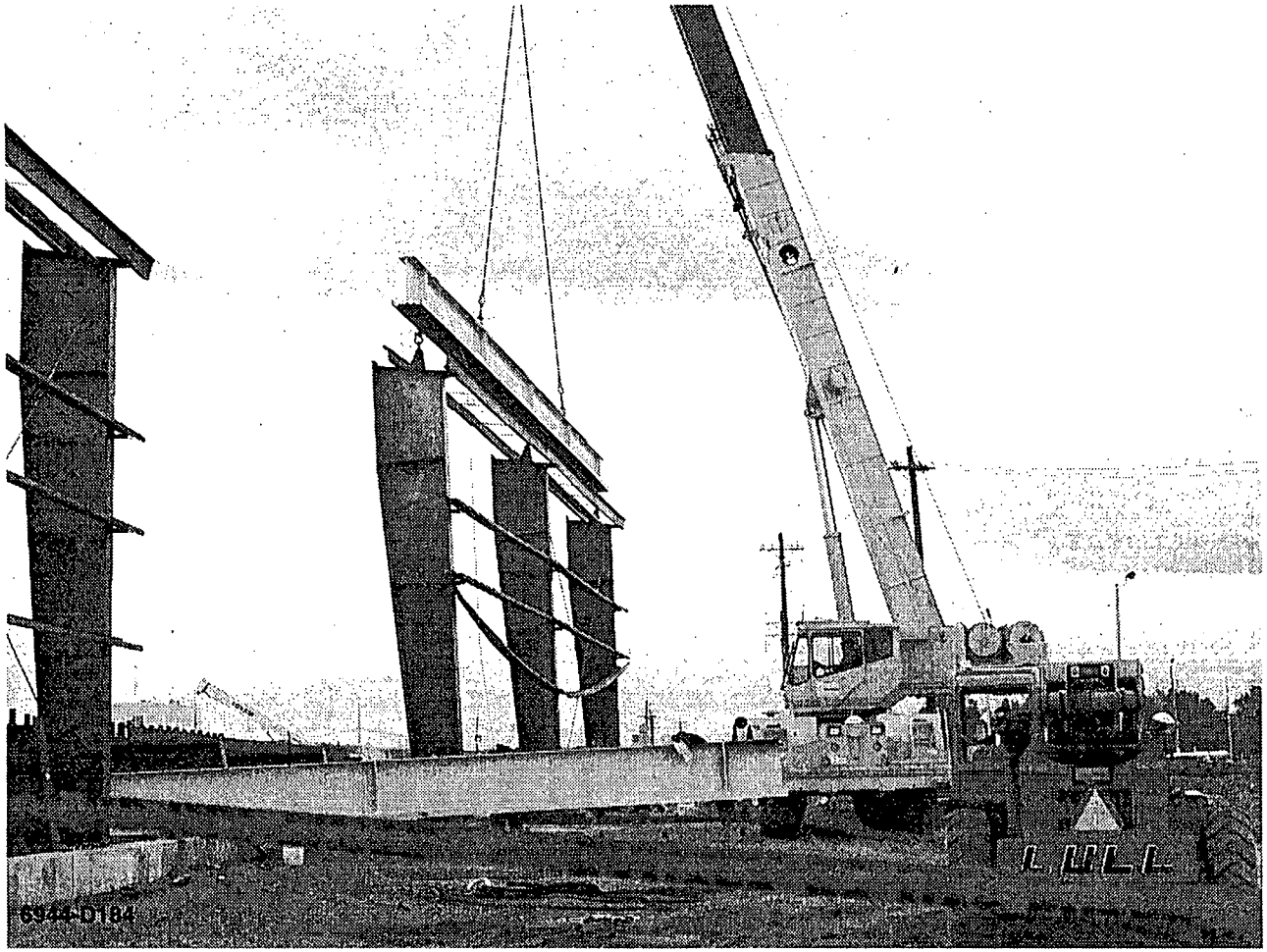
# IT CORP. CONSTRUCTION SITE

FERNALD



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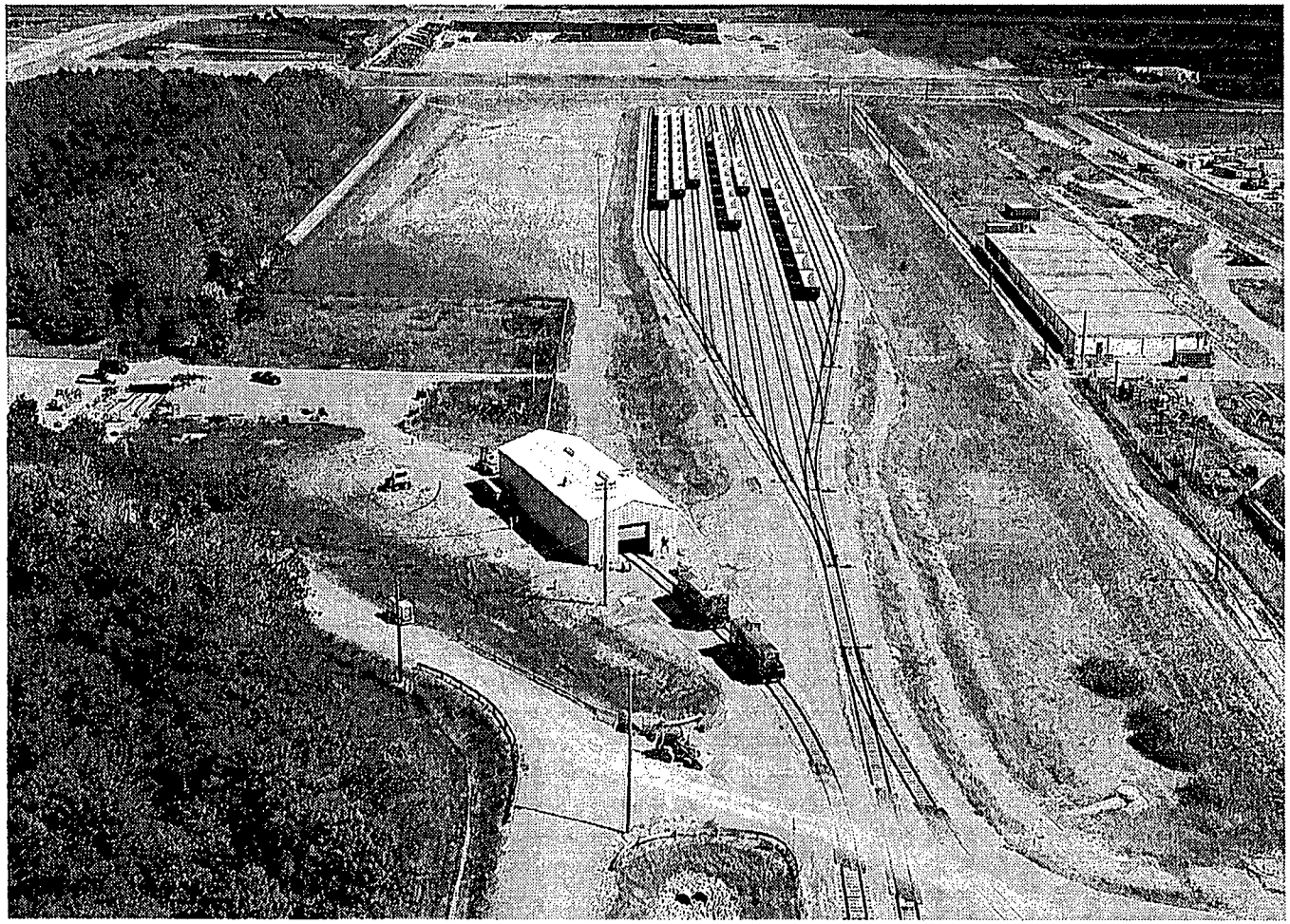
# TRANSPORTATION / DISPOSAL STATUS

FERNALD

- Rail Operation Facilities
  - Railyard
  - Locomotive Maintenance Facility
  - Railcars
  - Locomotives
  - Lids
- Tender
- Permitted Commercial Disposal Facility

# NORTH RAILYARD

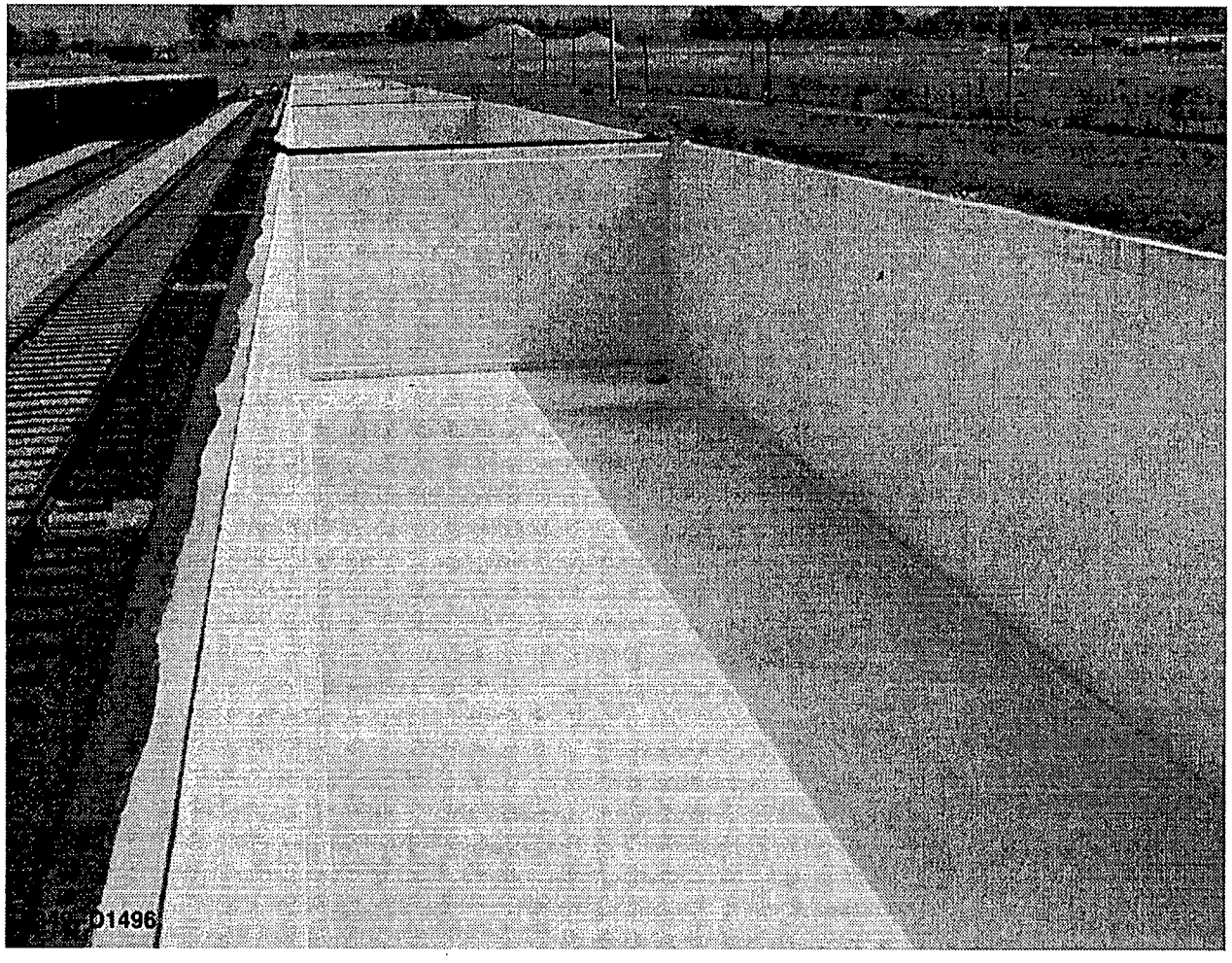
FERNALD



Graphics # 5360.8J 11/98

# GONDOLA RAILCAR

FERNALD

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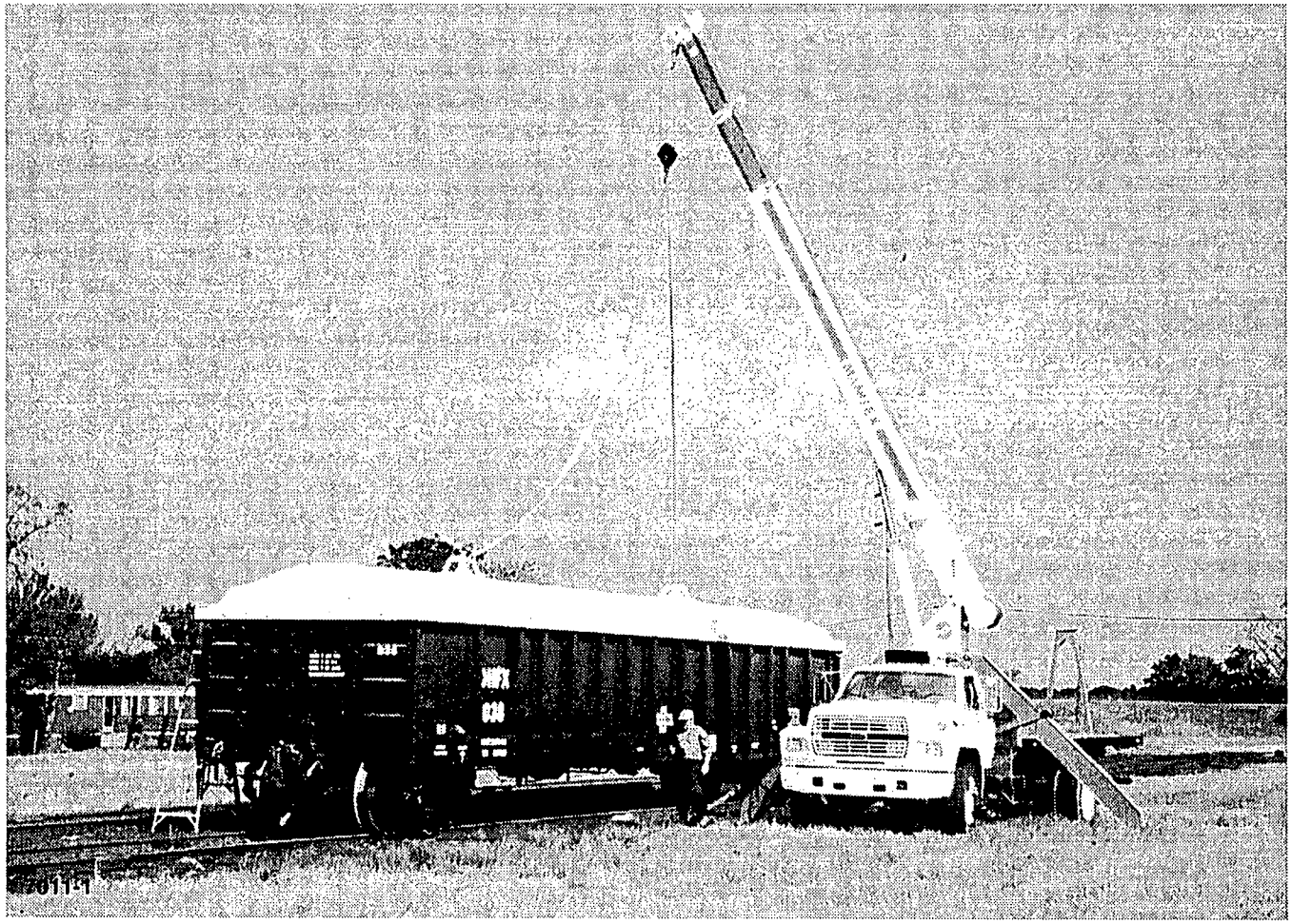
# GONDOLA RAILCAR LID

FERNALD



# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Permitted Commercial Disposal Facility Contracts and Status

55

- DOE awards contract:
  - June 30, 1998
- Notes:
  - Envirocare handling unit trains
  - DOE-OH made first shipment under contract
  - Disposal documentation in preparation/under review
    - Radioactive Waste Profile
    - IT's Sampling & Analysis Plan

# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Railroad Tender Status

- DOE Requests Tender — Letter: September 4, 1998
- DOE Receives Draft Tender — November 3, 1998
- Anticipated Acceptance — Before April 1999

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# OUTREACH

FERNALD

- Recent Communications
  - Reily Township
  - Cooperative Planning & Training Committee
  - FRESH
  - Fernald Citizens Advisory Board
  - Butler and Hamilton County Local Emergency Planning Committees
- Advance Notification
  - Prior to every shipment, Fernald will:
    - Notify Butler and Hamilton County Emergency Management Agencies
    - Notify Fernald Team members and community through established channels
  - Prior to first shipment, Fernald will:
    - Notify transited states, including Ohio, Indiana, Illinois, Missouri, Kansas, Nebraska, Wyoming, Utah

# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Ohio Department of Transportation (ODOT)/DOE Interface

- Community identified numerous CSXT/ODOT issues about the safety of several local rail crossings, including:
  - State Route 129, New Haven Road, Race Lane and Layhigh Road in Butler County, and
  - Paddy's Run Road between New Haven Road and Willey Road in Hamilton County
- DOE will forward these issues to CSXT/ODOT

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# TRAINING FOR OPERATIONS

FERNALD

- Heavy Equipment Operator Training
- Railyard Operators Training
  - Basic Training
  - Health and Safety Training
  - Procedure review and finalization
  - Job Safety Analysis
- FAT&LC/IT/WPRAP visit to Drake Chemical Site

# RAIL OPERATIONS TRAINING

FERNALD

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# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Regulatory Documents Status

5

| Document | Status |
|---|---|
| Transportation & Disposal Plan | Approved August 28, 1998 |
| Remedial Design Package | Approved by USEPA October 9, 1998 |
| Remedial Action Package | Submitted September 25, 1998 |

# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Stormwater/Wastewater:

### Radionuclides, AWWT Parameters and Solids

- **Control** — Segregation of process wastewater, contaminated stormwater and noncontaminated stormwater
  - **Wastewater** — WPRAP Water Treatment System (WTS)
  - **Stormwater** — Installation of physical controls such as positive sloping, drainage ditches, segregation berms, silt fencing
- **Monitoring** — Stormwater Management Pond sampling prior to release
  WTS prior to release to Bio Surge Lagoon
  NPDES outfall

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# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Air Emissions:

### Volatiles, Radionuclides and Particulates

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- **Control**
  - **Stack** — Gas Cleaning System (GCS) with continuous air monitor (CAM), HEPA filtration, thermal oxidizer
  - **Fugitive** — Best available technology for dust control, such as tarps, watering, surfactants
- **Monitoring** — GCS equipped with CAM and isokinetic sampler
  Continuous fugitive emission monitoring
  IEMP sitewide monitoring

# WASTE PITS REMEDIAL ACTION PROJECT

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## Radon

- **Control**
  - **Fugitive** — Best available technologies: excavation pace, feed piles
  - **Stack** — GCS-no radon control but system provides for real-time radon detection to confirm emission rates are below levels of concern
  - **Occupational** — Personal Protective Equipment
- **Monitoring** — GCS equipped with CAM and isokinetic sampler
  Continuous fugitive emission monitoring and implementation of best available technologies
  IEMP sitewide monitoring
  Personnel monitoring



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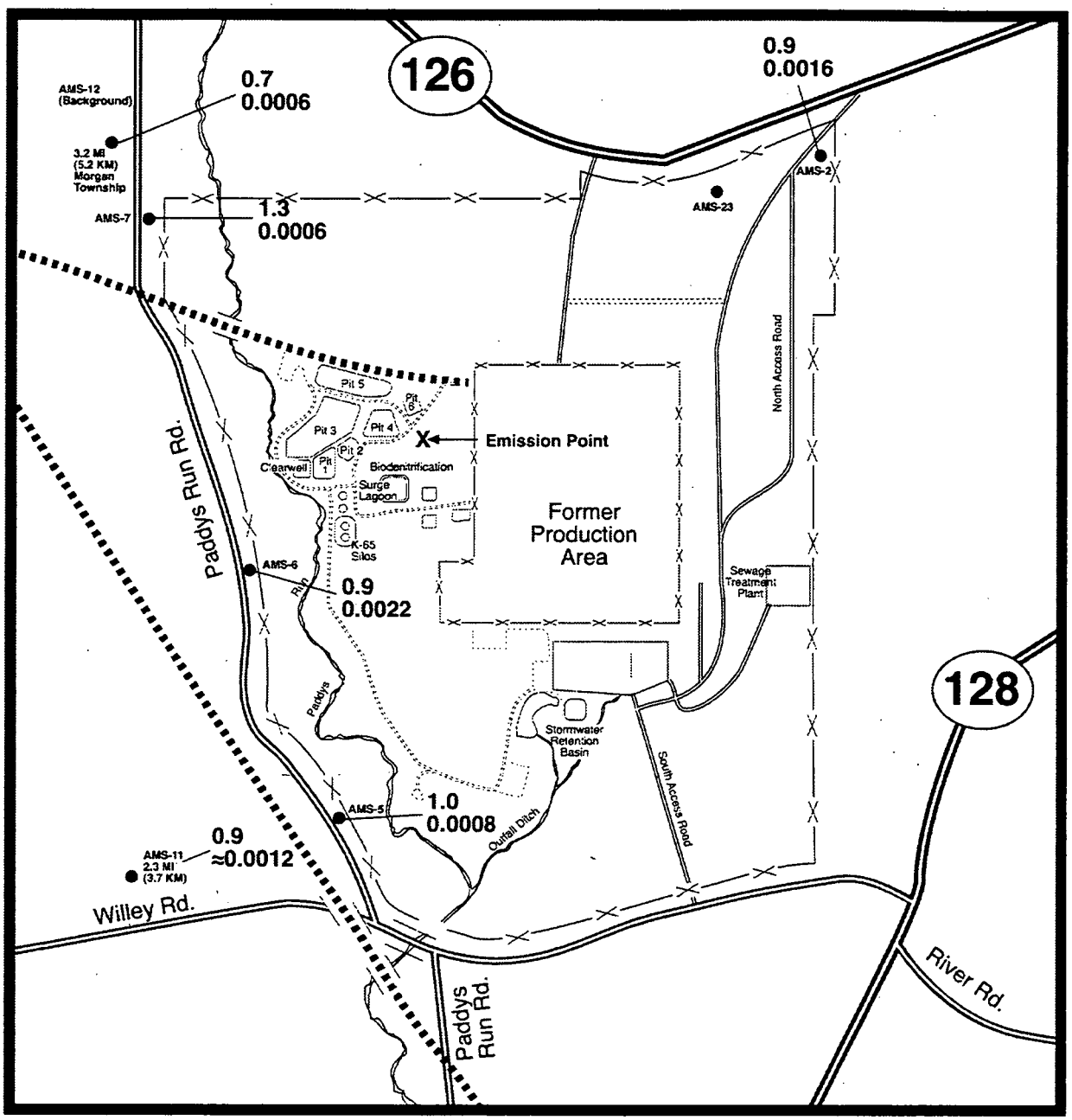
# ESTIMATED AVERAGE ANNUAL RADON CONCENTRATION COMPARED WITH MONITORING DATA

FERNALD




## LEGEND

- Rail Line
- Air Monitoring Station
- FEMP Perimeter
- Former Production Area Perimeter

Example: 1.0 / 0.0008

Top number reflects monitoring concentration

Bottom number reflects estimated contribution

Graphics # 5360.8W 11/98

# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

## Schedule Look Ahead

| | |
|---|---|
| Remedial Action (RA) Package Submittal to EPA | 9/98 (Actual) |
| Railyard Operators Training | 10/98 (Actual) |
| Receipt of Railroad Tender | 11/98 |
| Complete Construction | 12/98-2/99 |
| EPA Approves RA Package | 1/99 |
| Standard Startup Reviews | 2/99 |
| Initiate Loading of Railcars | By 3/1/99 |
| Balance of Railcars On Site | 3/99 |
| Initiate Shipment | 4/99 |

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Graphics # 5360.8X 11/98

# WASTE PITS REMEDIAL ACTION PROJECT

FERNALD

- **WPRAP is currently on schedule to meet the March 1, 1999 regulatory milestone.**

# WASTE PITS REMEDIAL ACTION PROJECT

| OCTOBER 1998 | |
|---|---|
| **Major Work Activities** | **Enforceable Milestones** |
| ***International Technology (IT) Corporation Subcontract***<br>• Continued construction of treatment facility<br>• Continued developing/finalizing pre-operations deliverables<br>• Received final USEPA approval of Draft Remedial Design package | None |
| ***Planning & Contracts***<br>• Initiated rail operations training<br>• Continued negotiations & processing of rail transportation tender with Union Pacific Rail Road & CSXT | |
| **60-DAY LOOK AHEAD** | |
| **Anticipated Work Activities** | **Enforceable Milestones** |
| ***IT Corporation Subcontract***<br>• Continue treatment facility construction<br>• Continue developing/finalizing pre-operations deliverables<br>• Await comments/approval from regulatory agencies on Draft Remedial Action package | None |
| ***Planning & Contracts***<br>• Complete rail operations training<br>• Receive rail transportation tender for shipping operations | |

DOE Project Manager --- Dave Lojek/513-648-3127

FDF Division Manager --- Bob Fellman/513-648-4755

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# ON-SITE DISPOSAL FACILITY PROJECT

| OCTOBER 1998 | |
|---|---|
| **Major Work Activities** | **Enforceable Milestones** |
| • Completed Cell 2 secondary liner system construction<br>• Installed Cell 2 primary liner system<br>• Installed leak detection system drainage layer in Cell 2<br>• Began installation of leachate collection system drainage layer in Cell 2<br>• Continued placement of impacted material into Cell 1 | None |
| **60-DAY LOOK AHEAD** | |
| **Anticipated Work Activities** | **Enforceable Milestones** |
| • Complete installation of leachate collection system drainage layer in Cell 2<br>• Begin/complete construction of 1-foot protective layer on Cell 2<br>• Continue placement of impacted material into Cell 1 | Place protective cover on Cell 2 by 12/31/98 |

DOE Project Manager — Jay Jalovec/513-648-3122

FDF Project Manager — Mike Hickey/513-648-5971

# FACILITIES CLOSURE & DEMOLITION PROJECTS

## OCTOBER 1998

| Major Work Activities | | Enforceable Milestones |
|---|---|---|
| ***Safe Shutdown Project*** | | |
| • Plant 2<br>– Continued holdup material removal<br>– Completed line draining in extraction area<br>• Plant 6<br>– Continued holdup removal in selected areas<br>– Completed electrical isolation of T-Hopper green salt processing equipment | • Non-Nuclear Facilities/Miscellaneous<br>– Completed various utility disconnects<br>– Completed equipment removal at Tank Farm Complex<br>– Completed isolation of sewage line and electrical utilities at Building 81 | Submitted Project Closeout Report for Sewage Treatment Plant Complex to regulatory agencies 10/28/98, in advance of actual milestone date of 11/04/98 |
| ***Decontamination & Dismantlement (D&D) Projects*** | | |
| • Maintenance/Tank Farm & Water Storage Tank Project<br>– Issued authorization to mobilize for water storage tank construction to subcontractor<br>• Thorium/Plant 9 Complex<br>– Completed final cleaning and application of "lockdown" coating to interior & exterior transite panels to reduce asbestos inhalation hazard<br>– Completed D&D of Buildings 9B, 9C, 9D & 81<br>• Miscellaneous Small Structures<br>– Began planning for D&D of next seven structures | • Recycling Supplemental Environmental Projects<br>– Made arrangements to ship remaining track rail (225 tons), splice plates (130 tons) & rail spikes (6 tons) to DOE in Ashtabula, Ohio, for decontamination & unrestricted release<br>– Began planning for shipment of 1,350 tons of copper windings to DOE in Oak Ridge, Tennessee, as a site-to-site property transfer for recycling<br>**NOTE: See Waste Management Projects reference material for status of other waste minimization efforts.** | |

## 60-DAY LOOK AHEAD

| Anticipated Work Activities | | Enforceable Milestones |
|---|---|---|
| ***Safe Shutdown Project*** | | |
| • Plant 2<br>– Complete holdup removal in selected areas<br>– Complete packaging/movement of drums to Plant 1 Pad or to other storage | • Plant 6<br>– Continue holdup removal in selected areas<br>• Non-Nuclear Facilities<br>– Begin line draining & holdup material removal at Tank Farm | Submit Sewage Treatment Plant Completion Report to regulatory agencies by 11/04/98 **(Note this milestone was reported last month as being due on 10/27/98)** |
| ***D&D Projects*** | | |
| • Maintenance/Tank Farm & Water Storage Tank Project<br>– Begin new water storage tank construction<br>• Thorium/Plant 9 Complex<br>– Continue interior & exterior D&D activities<br>– Complete sludge & water removal from waste water tanks<br>• Boiler Plant/Water Plant<br>– Complete project & demobilize subcontractor | • Plant 5 Project<br>– Conduct November pre-bid meeting & site tour with pre-qualified subcontractors<br>• Recycling Supplemental Environmental Projects<br>– Prepare containers for shipment of copper motor windings to DOE-Oak Ridge for recycling<br>– Finalize arrangements for recycling of rail, splice plates & spikes | Submit Plant 3 Draft Implementation Plan to regulatory agencies by 12/02/98<br><br>Complete Boiler Plant/Water Plant Field Activities by 12/15/98 |

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# SILOS PROJECT

## OCTOBER 1998

| Major Work Activities | Enforceable Milestones |
|---|---|
| ***Silos Project — General***<br>• Conducted Public Meeting providing Silos Project status on 10/5/98 | None |
| ***Silos 1 & 2***<br>• Continued review of Accelerated Waste Retrieval (AWR) Project bid proposals<br>• Approved Proof-of-Principle Testing Work Plan from EnVitCo (joule-heated vitrification testing contractor)<br>• Received Ohio EPA approval of Silos Infrastructure Project Specific Plan & Design Package<br>• Briefed USEPA and Ohio EPA on scope & content of Feasibility Study revision | |
| ***Silo 3***<br>• Observed oral presentations from potential contractors<br>• Received final technical & price proposals; began evaluation process<br>• Initiated dismantlement of Small Scale Waste Retrieval system | |

## 60-DAY LOOK AHEAD

| Anticipated Work Activities | Enforceable Milestones |
|---|---|
| ***Silo 1 & 2***<br>• Complete review of AWR Project proposals & submit consent package to DOE for concurrence<br>• Observe 72-hour process demonstration run at Vortec, Proof-of-Principle Testing contractor for non-joule-heated vitrification<br>• Finalize Project Specific Plan for Vitrification Pilot Plant waste disposition contract; schedule readiness audit of contractor's treatment & disposal facility<br>• Complete Trailer Upgrade portion of Silos Infrastructure Project | None |
| ***Silo 3***<br>• Continue review of final technical & price proposals; brief Silos Project Critical Analysis Team on review process<br>• Complete closeout of Small Scale Waste Retrieval Project | |

# AQUIFER RESTORATION/WASTEWATER PROJECT

| OCTOBER 1998 | |
|---|---|
| **Major Work Activities** | **Enforceable Milestones** |
| Completed design of Sludge Removal System 10/26/98 | Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) to OEPA 10/14/98 (covering 9/98) |
| Continued design activities for Stormwater Retention Basin Ozone Injection System | |
| Initiated design of Advanced Wastewater Treatment Facility Laboratory Expansion to be performed by Lockwood Greene Technologies, design subcontractor | |
| Completed bi-annual revision of Integrated Environmental Monitoring Plan (IEMP) & submitted draft to regulatory agencies 10/29/98 | |

| 60-DAY LOOK AHEAD | |
|---|---|
| **Anticipated Work Activities** | **Enforceable Milestones** |
| Install Biosurge Lagoon Ozone Injection System; to be performed by site construction subcontractor, Wise Construction, with expected completion date of 11/24/98 | Submit monthly NPDES DMR to OEPA |
| Continue operation of Injection Demonstration, South Plume Optimization & South Field Extraction modules | Submit IEMP Quarterly Update Report to regulatory agencies by 12/28/98 |
| Continue operation of Advanced Wastewater Treatment Facility | |

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# SOIL CHARACTERIZATION & EXCAVATION PROJECT

## OCTOBER 1998

| Major Work Activities | Enforceable Milestones |
|---|---|
| ***Area 1 Phase II (Southern Portion of East Field)***<br>• Issued Sewage Treatment Plant Certified-for-Construction Design Package<br>• Issued Certified-for-Construction drawings & specifications for Trap Range Stabilization Package; also issued Request for Proposal to procure subcontractor<br>• Awarded Site Preparation contract to Petro Environmental; subcontractor initiated preparation of required submittals | None |
| ***Area 2 Phase I (Southern Waste Units)***<br>• Completed excavation of Inactive Flyash Pile<br>• Began excavation of impacted soil stockpile resulting from previous site preparation work<br>• Continued hauling of impacted material to OSDF for placement | |
| ***Area 9 , Phases I & II (Area East of Eastern FEMP Property Line)***<br>• Began discussions regarding access with involved property owners on 10/15/98 | |
| ***Natural Resource Restoration***<br>• Began installation of trees for Aesthetic Barrier Project<br>• Held public hearing regarding Fernald site final land use on 10/13/98<br>• Received public comments on *Environmental Assessment for Proposed Final Land Use at the FEMP*; comment period ended 10/20/98<br>• Continued construction of On-Property Public Access Habitat Area | |

## 60-DAY LOOK AHEAD

| Anticipated Work Activities | Enforceable Milestones |
|---|---|
| ***Area 1 Phase II (Southern Portion of East Field)***<br>• Initiate construction of Site Preparation facilities<br>• Continue efforts to procure contractor to perform Sewage Treatment Plant Excavation<br>• Receive responses to Trap Range Area Stabilization Request for Proposal; due 12/11/98 | None |
| ***Area 2 Phase I (Southern Waste Units)***<br>• Continue excavation of impacted soil stockpile & initiate Active Flyash Pile excavation | |
| ***Area 9 Phases I & II (Area East of Eastern FEMP Property Line)***<br>• Initiate precertification sampling activities, contingent upon receipt of access to property | |
| ***Natural Resource Restoration***<br>• Await complete easement language from Corps of Engineers regarding land proposed for Conservation Easement<br>• Submit Phase I Wetland Mitigation Design to regulatory agencies<br>• Complete field activities for Aesthetic Barrier Project & On-Property Public Access Habitat Area<br>• Receive/review final proposals for *Ecological Restoration Case Study* subproject | |

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# WASTE MANAGEMENT PROJECTS

**OCTOBER 1998**

| Major Work Activities | | Enforceable Milestones |
|---|---|---|
| ***Waste Shipping Activities*** | | None |
| • Low Level Waste Shipping<br>– Shipping still suspended pending resolution of one remaining Corrective Action Request | • Nuclear Materials Disposition<br>– Shipped 32 International Shipping Organization (ISO) containers of uranium trioxide ($UO_3$) in support of contract for sale of low enriched uranium | |
| ***Mixed Waste Projects*** | | |
| • Neutralization/Precipitation/Deactivation/ Stabilization (NPDS) Project<br>– Moved 61 drums of treated sodium sulfide waste to Plant 1 Pad for storage<br>• Liquid Mixed Waste Project<br>– Received approval on 10/21/98 from State of Tennessee to ship Batch #8 (18,100 gallons newly generated & recharacterized low level waste) to Toxic Substance Control Act (TSCA) Incinerator in Oak Ridge, Tennessee | • Thorium Legacy Waste Project (TLWP)<br>– Continued startup readiness activities; included revision of lesson plans, required reading & operations procedures<br>• Organic Treatment Project (OTP)<br>– Continued to define potential waste inventory<br>– Visited Materials & Energy Corporation (M&EC) in Oak Ridge to tour their facility, evaluate their contract, & discuss potential of mobilizing M&EC to Fernald to treat OTP inventory | |
| ***Nuclear Materials Projects*** | | |
| • Nuclear Materials Disposition (NMD)<br>– Attended meeting at Oak Ridge to discuss their possible acceptance of 3,753 metric tons uranium of Fernald materials | • NMD Operations<br>– Successfully completed Standard Startup Review on Loss of Fluid Test (LOFT) Fuel Rod Repackaging Project; repackaging began 11/01/98<br>– Resumed repackaging of <1.0% enriched uranium tetrafluoride ($UF_4$) in support of contract for sale of low enriched materials; 98 boxes packaged as of 10/31/98 | |
| ***Waste Minimization/Pollution Prevention Project*** | | |
| • Began research on possibility of recycling "clean" buildings from the process area; these structures could be carefully dismantled for reuse elsewhere on the site, reuse at another DOE site, or sale to private bidders<br><br>**NOTE: See Facilities Closure & Demolition Projects reference material for additional recycling activity status.** | | |

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# WASTE MANAGEMENT PROJECTS (CONTINUED)

**60-DAY LOOK AHEAD**

| Anticipated Work Activities | | Enforceable Milestones |
|---|---|---|
| ***Waste Shipping Activities*** | | None |
| • Low Level Waste Shipping<br>– Continue Corrective Action Request implementation in support of resumption of shipments to Nevada Test Site<br>• Nuclear Materials Disposition<br>– Continue shipping ISOs of $UO_3$<br>– Begin shipping LOFT fuel rods | • Mixed Waste Shipping<br>– Ship Batch #7 (19,000+ gallons mixed waste) to TSCAI<br>– Ship Batch #8 to TSCAI after successful completion of Batch #7 shipments | |
| ***Mixed Waste Projects*** | | |
| • NPDS Project<br>– Continue demobilization; move any remaining waste containers to storage<br>– Determine path forward for 61 drums of sodium sulfide waste<br>• Liquid Mixed Waste Project<br>– Bulk aqueous waste from former Solvent Extraction Project into Batch #9 | • TLWP<br>– Prepare "mock-up" & perform drills to prepare for project startup<br>• OTP<br>– Continue investigating offsite treatment options | |
| ***Nuclear Materials Projects*** | | |
| • NMD<br>– Continue discussions with Oak Ridge regarding disposition of selected Fernald nuclear materials | • NMD Operations<br>– Continue repackaging of <1.0% enriched $UF_4$ | |
| ***Waste Minimization/Pollution Prevention Project*** | | |
| • Initiate efforts to recycle 90 tons of scrap metal generated from size reduction of two large, non-contaminated propane tanks<br><br>**NOTE: See Facilities Closure & Demolition Projects reference material for anticipated steel recycling activities.** | | |

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