PLAN TITLE: Federal Facility Agreement Quarterly Report Fourth Quarter Fiscal Year 2002

APPROVALS

[Signature]
Environmental Safety and Health Manager

11/6/02
Date

[Signature]
Project Quality Manager

11/6/02
Date

[Signature]
Project Director

11-7-02
Date
Weldon Spring Site Remedial Action Project

Federal Facility Agreement Quarterly Report Fourth Quarter Fiscal Year 2002

Revision 0

November 2002

Prepared by
MK-FERGUSON COMPANY
and
JACOBS ENGINEERING GROUP
7295 Highway 94 South
St. Charles, Missouri 63304

for the
U.S. DEPARTMENT OF ENERGY
Oak Ridge Operations Office
Under Contract DE-AC05-86OR21548
ABSTRACT

The Federal Facility Agreement Fourth Quarter Fiscal Year 2002 progress report provides the current status of project activities, efforts towards project completion, and issues of concern. The report is divided into sections by operable unit and is further divided by response action and studies supporting each operable unit. The report fulfills the requirements of the progress report and the construction progress report.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. INTRODUCTION AND PURPOSE</td>
<td>1</td>
</tr>
<tr>
<td>2. CHEMICAL PLANT OPERABLE UNIT</td>
<td>2</td>
</tr>
<tr>
<td>2.1 Chemical Plant Removal Actions</td>
<td>2</td>
</tr>
<tr>
<td>2.2 Remedial Actions</td>
<td>2</td>
</tr>
<tr>
<td>2.2.1 Disposal Cell Construction and Waste Removal/Handling</td>
<td>2</td>
</tr>
<tr>
<td>2.3 Chemical Plant Sampling Plans and Activities</td>
<td>2</td>
</tr>
<tr>
<td>2.4 Additional Information</td>
<td>3</td>
</tr>
<tr>
<td>3. QUARRY RESIDUALS OPERABLE UNIT</td>
<td>4</td>
</tr>
<tr>
<td>3.1 Removal Actions</td>
<td>4</td>
</tr>
<tr>
<td>3.2 Remedial Actions</td>
<td>4</td>
</tr>
<tr>
<td>3.3 Quarry Residuals Sampling Plans and Activities</td>
<td>4</td>
</tr>
<tr>
<td>3.4 Additional Information</td>
<td>5</td>
</tr>
<tr>
<td>4. SITE GROUNDWATER OPERABLE UNIT</td>
<td>6</td>
</tr>
<tr>
<td>4.1 Removal Actions</td>
<td>6</td>
</tr>
<tr>
<td>4.2 Remedial Actions</td>
<td>6</td>
</tr>
<tr>
<td>4.3 Groundwater Sampling Plans and Activities</td>
<td>6</td>
</tr>
<tr>
<td>4.4 Additional Information</td>
<td>7</td>
</tr>
<tr>
<td>5. ACRONYMS</td>
<td>8</td>
</tr>
</tbody>
</table>

## APPENDIXES

- A Narrative of Active Work Packages
- B FFA Tracking Matrix
1. INTRODUCTION AND PURPOSE

This report is prepared in response to the reporting requirements of the *First Amended Federal Facility Agreement* (FFA) (Docket No. CERCLA-VII-85-F-0057), Paragraph XIV, and summarizes the actions performed by the Weldon Spring Site Remedial Action Project. The report is provided to the U.S. Environmental Protection Agency to apprise them of the status of project activities, efforts toward project completion, studies and sampling activities, and planning dates. This is a historical report covering activities from July 1, 2002, through September 30, 2002, and fulfills the reporting requirements of the *Quarterly Progress Report* (XIV.A) and the *Construction Progress Report* (X.D.1.b.viii).

Recipients are cautioned that all future dates contained in this report are for planning purposes only and were accurate as of September 30, 2002. These dates may not reflect the actual enforceable date established through other documentation.
2. CHEMICAL PLANT OPERABLE UNIT

The selected alternative in the Chemical Plant Record of Decision (ROD) consisted of on-site treatment and disposal using a chemical stabilization/solidification plant and an engineered on-site disposal facility. The majority of this work has been completed.

2.1 Chemical Plant Removal Actions
Complete.

2.2 Remedial Actions

2.2.1 Disposal Cell Construction and Waste Removal/Handling

- **Actions Completed this Reporting Period**
  - Completed seeding of chemical plant area.
  - Completed fence installation on Army west boundary of Train 3.
  - EPA conducted the chemical plant operable unit remedial action inspection on August 29, 2002, with MDNR participation.

- **Actions Scheduled but Not Completed**
  - Ship off-site to Envirocare in Clive, Utah, incidental quantities of wastes that have been generated since cell closure.

- **Actions Scheduled for Next Period**
  - Ship off-site to Envirocare in Clive, Utah, incidental quantities of wastes that have been generated since cell closure.

2.3 Chemical Plant Sampling Plans and Activities

- **Final Site Walkover Plan**
  - Objectives: To identify the areas requiring final walkovers, conduct and document the walkovers, and identify/investigate areas exceeding the action level.
  - Sampling Plan Title: *Final Site Walkover Plan*.
  - Status:
    -- The Final Site Walkover Report will be issued during First QTR FY03.

- **Disposal Cell Groundwater Monitoring**
  - Objectives: Provide long-term detection monitoring activities for the disposal cell.
  - Sampling Plan Title: *Weiden Spring Site Disposal Cell Groundwater Monitoring Plan* (Expected 1st Quarter FY03).
  - Status: Semianual sampling was conducted June 2002. Resampling was conducted in September 2002 for the parameters that exceeded established
baseline levels. Data from the resampling have not been received. Results will be reported next quarter.

2.4 Additional Information
   None.
3. QUARRY RESIDUALS OPERABLE UNIT

The Quarry Residuals Operable Unit (QROU) addresses contamination remaining in the quarry after the water and bulk wastes were removed. The quarry bulk wastes were removed under a separate operable unit.

3.1 Removal Actions

None.

3.2 Remedial Actions

- **Action Completed this Reporting Period**
  - WP-529B, Quarry Restoration Phase II.
  - Demolition of the QITS on July 3, 2002.
  - Confirmation of soil beneath Effluent Pond 2.
  - Completion of backfill of inner quarry on August 30, 2002.
  - Demobilization of contractor on September 6, 2002.

- **Actions Scheduled but not Completed**
  - None.

- **Actions Scheduled for Next Period**
  - Initiate Long-Term Monitoring Program for the Quarry Residuals Operable Unit.

3.3 Quarry Residuals Sampling Plans and Activities

- **Geochemical Characterization – QROU Field Studies**
  - Objective: Provide geochemical information for the natural soil and groundwater conditions that attenuate uranium in groundwater north of the slough.
  - **Sampling Plan Title: Geochemical Characterization Sampling Plan in Support of the QROU Field Studies.**
    - **Status:**
      -- Revision 0 was issued on August 23, 2002.

- **Interceptor Trench – QROU Field Studies**
  - Objective: Obtain data that can be utilized to monitor the performance of the interceptor trench and compare field performance with modeled performance.
  - **Sampling Plan Title: Sampling Plan for the QROU Interceptor Trench Field Study.**
    - **Status:**
      -- Field study completed on April 26, 2002.
Final evaluation of the field study (primary document) is expected in First Quarter FY2003.

3.4 Additional Information
None.
4. SITE GROUNDWATER OPERABLE UNIT

Groundwater at the Weldon Spring Chemical Plant area is chemically and radioactively contaminated as a result of past processing activities. An Interim Record of Decision (IROD), which authorizes treatment of TCE in groundwater utilizing in situ chemical oxidation methods, was approved on September 29, 2000. A final ROD for the remainder of the groundwater at the chemical plant has been delayed pending additional studies to evaluate the feasibility of groundwater extraction for treatment of the remaining contaminants of concern.

4.1 Removal Actions

None.

4.2 Remedial Actions

- Actions Completed During Period:
  - Full-scale design under WP-568-In-Situ Chemical Oxidation of TCE in Groundwater was submitted on July 12, 2002.
  - PMC 90-day sampling was performed from July 11 through July 15, 2002. Meeting with regulators to discuss results of in-situ chemical oxidation pilot-scale testing was held on August 6, 2002.

- Actions Scheduled but Not Completed
  - Revised completion report and revised full-scale design were not submitted by the subcontractor. Both are expected in October.

- Actions Scheduled for Next Period
  - None.

4.3 Groundwater Sampling Plans and Activities

- Nitroaromatics Investigation in Frog Pond Area
  - Objective: Identify the source of nitroaromatic impact to groundwater in the vicinity of the former Frog Pond and Army Lagoon.
  - Sampling Plans: Groundwater Investigation for Nitroaromatics in the Frog Pond Area.
  - Status:
    -- Sampling was completed in February 2002.
    -- Completion report is expected in First Quarter FY 2003.

- TCE Investigation in the Raffinate Pit Area
  - Objective: Determine the areal extent of TCE impact in the southwestern portion of the site and identify preferential migration pathways in the area where Raffinate Pits 3 and 4 were located.
- Sampling Plan: *Groundwater Investigation for TCE in the Raffinate Pit Area.*
  - Status:
    - Sampling was completed in February 2002.
    - Completion report is expected in First Quarter FY 2003.

- **Additional Groundwater Pumping Studies**
  - Objective: Obtain field data for evaluation of several pump and treat scenarios for possible remediation of groundwater in the southwest portion of the chemical plant. Several variations will be evaluated to determine if contaminant removal can be improved over that of a conventional pump and treat system. Improvement to the system will be determined by comparison of the mass of each contaminant of concern that can be removed under each scenario.
  - Status:
    - Revision 0 issued on July 31, 2002.

- **Groundwater Sampling for In-Situ Chemical Oxidation Pilot-Scale Testing**
  - Objective: Obtain field data to establish baseline conditions and groundwater quality in the study area. Data will also be collected to monitor and identify trends after each injection event.
  - Sampling Plan: *Groundwater Sampling Plan for In-Situ Chemical Oxidation Pilot-Scale Testing.*
  - Status:
    - Sampling was completed on July 15, 2002.
    - Completion Report is expected in First Quarter FY 2003.

4.4 Additional Information

Groundwater monitoring at locations within and beyond the subcontractor’s immediate test area were sampled, and results will be used to determine the extent to which this process affects any other physical or chemical characteristics of the aquifer. The results from the pilot scale injections, as well as subsequent groundwater monitoring results, will be used to assess the technical feasibility of implementing in situ chemical oxidation on a full-scale basis.
5. ACRONYMS

CERCLA  Comprehensive Environmental Response, Compensation and Liability Act
DA  Department of Army
DCE  dichloroethylene
DOE  U.S. Department of Energy
EPA  U.S. Environmental Protection Agency
FFA  Federal Facility Agreement (first amended)
FS  feasibility study
FY  fiscal year (Oct. 1 - Sept. 30)
GWOU  groundwater operable unit
IRA  interim response action
LCRS  leachate collection and removal system
MDC  Missouri Department of Conservation
MDNR  Missouri Department of Natural Resources
MSL  Mean Sea Level
MW  Monitoring Well
ORP  Oxidation Reduction Potential
PMC  Project Management Contractor
QITS  Quarry Intercept Trench System
QRou  quarry residuals operable unit
QTr  quarter
QWTP  quarry water treatment plant
RI  remedial investigation
ROD  Record of Decision
RP  raffinate pit
RPD  relative percent difference
SWTP  site water treatment plant
TCE  Trichloroethylene
TCLP  toxicity characteristic leaching procedure
VP  vicinity property (Army and Busch properties)
WP  work package
WSSRAP  Weldon Spring Site Remedial Action Project
WWTP  waste water treatment plant
APPENDIX A
Narrative of Active Work Packages
Narrative of Active Work Packages

This appendix contains the narrative description of each open or active work package.

WP-437 Disposal Facility
This work package is for the purpose of construction of the disposal cell and associated restoration tasks.

WP-491 Long Term Surveying Services
Provide crews to perform topographical surveys, boundary surveys, setting monuments, construction layout, and other survey related services.

WP-502 Architect Engineering Services V
Provides architect/engineering services in the areas of surveying and mapping, engineering investigations, studies, reports, final design, and services during construction.

WP-529B Quarry Restoration – Phase II
This subcontract is to provide the design and sequencing of work necessary to remove the quarry interceptor trench field study system and to restore the former QWTP area. Additionally, this package consists of final restoration of the quarry area and development of the southern portion of the Hamburg Trail.

WP-535 Hamburg Hike and Bike Trail
This work package is to construct a Hamburg Hike and Bike Trail from the Quarry to the Borrow Area (including restoration of asphalt road portion).

WP-536 Administration Area Restoration and Landscaping
This work package is to restore the Administration Area to final condition. This includes:
- Demolition and removal of facilities, utilities, and asphalt;
- Construction of new roads and parking areas;
- Seeding and landscaping following final grading.

WP-548 WTP Operators Staff Services
Provide operators to manage remediation water and maintenance services at the WWTP.

WP-554 Interpretive Center Display Design, Fabrication and Installation
Utilizing the conceptual design, the subcontractor will design, fabricate, and install displays as a turnkey effort.

WP-555 West Perimeter Fence Replacement
Install a replacement fence on the DOE/Army west perimeter boundary.
WP-568 In Situ Chemical Oxidation of TCE in Groundwater

This work package will contract the design, testing, construction, and operation of a pilot scale in-situ treatment for TCE in groundwater.
APPENDIX B
FFA Tracking Matrix
### Operable Unit 1
#### Chemical Plant

<table>
<thead>
<tr>
<th>Days Allowed</th>
<th>24</th>
<th>28</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>Open</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Draft Target Date</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
</tr>
<tr>
<td>Actual Date to Epa</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
</tr>
<tr>
<td>Comments Due From Epa</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
</tr>
<tr>
<td>Ext. V/N Received</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
</tr>
<tr>
<td>Dispute Yes/No</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
<td>28-Sep-94</td>
</tr>
</tbody>
</table>

**P: Remedial Design Work Plan (CDR)**
- Design Schedules
  - 31-Mar-94
  - 31-Mar-94
  - 31-Mar-94

**P: Remedial Action Plan**
- 28-Oct-93
- 28-Oct-93
- 28-Oct-93
- 28-Oct-93

**P: CSI Permit-Related Final Design Submittal (WP34)**
- 07-Oct-94
- 07-Oct-94
- 07-Oct-94

**P: Final Design Submittal (WP49)**
- 31-Oct-97
- 31-Oct-97
- 31-Oct-97

**P: Exposed soil/Conduction (EPCD) Design 104 Presentation (WP487)**
- 07-Apr-94
- 07-Apr-94
- 07-Apr-94

**S: Remedial Action Report**
- 02-Mar-94

**O&M Plan (LMTI, Inr. Control) - Entire Site**
- 14-Jul-94

**P: Preliminary Closeout Export - Entire Site**
- 11-Oct-94

---

*Date EIA signed the ROD: 28-Sep-93*
<table>
<thead>
<tr>
<th>RI/RS</th>
<th>ENFORCEABLE DATE FOR DOCUMENT</th>
<th>1st DRAFT TARGET DATE</th>
<th>ACTUAL DATE TO EPA</th>
<th>COMMENTS DUE FROM EPA</th>
<th>EXT. RESPONSE</th>
<th>EXT. RECV</th>
<th>EPA REVIEW</th>
<th>DISPUTE</th>
<th>DATE OF FINAL DECISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>RI/RS WORK PLAN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>COMMUNITY RELATIONS PLAN</td>
<td>15-Dec-94</td>
<td>15-Dec-94</td>
<td>**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>BASELINE ASSESSMENT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>REMEDIAL INVESTIGATION REPORT</td>
<td>07-Feb-91</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>PRELIMINARY ANALYSIS OF ALTERNATIVES</td>
<td>07-Feb-91</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>FEASIBILITY STUDY REPORT</td>
<td>07-Feb-91</td>
<td>07-Feb-91</td>
<td>YES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>PROPOSED PLAN</td>
<td>03-Jun-92</td>
<td>11-Aug-92</td>
<td>YES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>DRAFT ROD</td>
<td>15-Sep-91</td>
<td>07-May-92</td>
<td>04-May-92</td>
<td>06-Jul-92</td>
<td>15-Sep-91</td>
<td>NO</td>
<td>11-Aug-92</td>
<td>21-Sep-91</td>
</tr>
</tbody>
</table>

**Updated: November 2002**

**OPERABLE UNIT 1 CHEMICAL PLANT**

<table>
<thead>
<tr>
<th>DAYS ALLOWED</th>
<th>30</th>
<th>20</th>
<th>0</th>
<th>20</th>
<th>0</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## OPERABLE UNIT 2
### QUARRY BULK WASTES

<table>
<thead>
<tr>
<th>Days Allowed</th>
<th>ENFORCEMENT</th>
<th>1st DRAFT</th>
<th>DA</th>
<th>DATE TO DUE FROM</th>
<th>COMMENTS</th>
<th>DUE FROM</th>
<th>EPA</th>
<th>REVIEW</th>
<th>EPA</th>
<th>DISPUTE</th>
<th>DATE OF FEE</th>
<th>DATE</th>
<th>OPEN</th>
<th>DEFENSE</th>
<th>ENFORCEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DATE FOR DOCT</td>
<td></td>
<td>DATE TO</td>
<td>EPA REVIEW</td>
<td>DATE OF</td>
<td>EPA</td>
<td></td>
<td>EPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FINAL</td>
<td></td>
</tr>
<tr>
<td>P- Primary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N- Secondary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### DR/DS

#### DF/DS WORK PLAN
- 06-Mar-93
- 25-Mar-93
- 24-Jul-93
- 31-Jul-93
- 30-Aug-93

#### COMMUNITY RELATIONS PLAN
- 06-Mar-93
- 07-Mar-93
- 07-Apr-93
- 05-May-93
- 05-May-93

#### BASELINE ASSESSMENT
- 06-May-93
- 07-May-93
- 07-Jun-93
- 31-Jun-93
- 31-Jun-93

#### REMEDIAL INVESTIGATION REPORT
- 06-May-93
- 27-Jun-93
- 25-Feb-96
- 31-Jan-91

#### PRELIMINARY ANALYSIS OF ALTERNATIVES
- 07-Apr-93
- 06-Jun-93
- 22-Oct-93
- 21-Jan-94

#### FEASIBILITY STUDY REPORT
- 07-Feb-93
- 11-Jun-93
- 31-Sep-93
- 31-Sep-93

#### PROPOSED PLAN
- 07-Feb-93
- 11-Jun-93

#### DRAFT ROD
- 07-Feb-93
- 11-Jun-93

#### RO/RA

- Data EPA Approved the ROD Alternative
- Final Design Package Approval
- Remedial Action Work Plan
  - Detailed Description of Activities
  - Construction Schedule
  - Construction Team
- Substantial Continuous Physical On-Site Activity
- Final Inspection
- Remedial Action Report

### Notes

- Updated: November 2002
## OPERABLE UNIT 3
### QUARRY RESIDUALS

<table>
<thead>
<tr>
<th>QUARRY RESIDUALS</th>
<th>DATE ALLOWED</th>
<th>00</th>
<th>20</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>OPEN</th>
<th>REM / RA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P</strong> Primary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>S</strong> Secondary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATE</th>
<th>PRIMARY</th>
<th>SECONDARY</th>
<th>COMPLETED</th>
<th>COMMENTS</th>
<th>DATE TO</th>
<th>DATE FROM</th>
<th>DAY огромн</th>
<th>DATE</th>
<th>DATE</th>
<th>DATE</th>
<th>DATE</th>
<th>DATE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-Oct-98</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30-Apr-99</td>
<td>30-Apr-99</td>
<td>05-May-99</td>
<td>04-Jul-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Proposed Design Work Plan**

- **Design Schedule**
  - 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**List of POST-ROD "P" Documents**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**List of POST-ROD "S" Documents**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Design of required "S" Documents**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Remedial Design QA/QP**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Contingency Plan**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Construction Quality Control Plan**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Remedial Action Work Plan**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Detailed Description of Design**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Construction Schedule**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Construction Team**

- 30-Apr-99
  - 05-May-99
  - 04-Jul-99

**Evaluation of the Performance of Intermediate Trench**

- 22-Feb-99
  - 22-Feb-99
  - 22-Feb-99

**Pre-Final Inspection by EPA**

- 04-Dec-99

**Remedial Action Report**

- 31-Mar-99

---

**Notes:**
- The plan was reviewed internally and required no modifications.

---

**Updated:** November 2002
**Operable Unit 3**

**Quarry Residuals**

<table>
<thead>
<tr>
<th>Document Type</th>
<th>Days Allowed</th>
<th>60</th>
<th>50</th>
<th>40</th>
<th>30</th>
<th>20</th>
<th>10</th>
<th>OPEN</th>
<th>Date of Final Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Field Sampling Plan</td>
<td>16-Oct-93</td>
<td>07-Jun-93</td>
<td>06-Aug-93</td>
<td>NO</td>
<td>16-Mar-94</td>
<td>NO</td>
<td>16-Mar-94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Quality Objectives</td>
<td>17-Apr-93</td>
<td>07-Jun-93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Management Plan</td>
<td>17-Apr-93</td>
<td>07-Jun-93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quality Assurance Program Plan</td>
<td>17-Apr-93</td>
<td>07-Jul-93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule of All R&amp;F Documents</td>
<td>17-Apr-93</td>
<td>07-Jul-93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule of All EM Documents</td>
<td>17-Apr-93</td>
<td>07-Jul-93</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community Relations Plan</td>
<td>18-Dec-94</td>
<td>10-Dec-94</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remedial Assessment</td>
<td>31-Dec-93</td>
<td>11-Dec-93</td>
<td>01-Feb-94</td>
<td>Y</td>
<td>26-Feb-97</td>
<td>25-Apr-97</td>
<td>NO</td>
<td>24-Jul-97</td>
<td>YEN(MRFA) 23-Jul-97</td>
</tr>
<tr>
<td>Remedial Investigation Report</td>
<td>14-Sep-93</td>
<td>11-Dec-93</td>
<td>09-Dec-93</td>
<td>Y</td>
<td>07-Feb-97</td>
<td>25-Apr-97</td>
<td>NO</td>
<td>24-Jul-97</td>
<td>YEN(MRFA) 23-Jul-97</td>
</tr>
<tr>
<td>Proposed Plan</td>
<td>01-May-93</td>
<td>30-Jun-93</td>
<td>15-Aug-97</td>
<td>Y</td>
<td>12-Aug-97</td>
<td>06-Jan-98</td>
<td>Y</td>
<td>08-Apr-98</td>
<td>NO</td>
</tr>
</tbody>
</table>

**Notes:**

*1 Request for a schedule extension for the primary submittals was submitted on July 11, 1996. Approved by default.

*2 Request for a schedule extension to 9 Jan 98 for the draft final submittals was submitted on December 11, 1997. Approved by default.
# OPERABLE UNIT 4
## FINAL SITE GROUNDWATER

<table>
<thead>
<tr>
<th>Site Groundwater</th>
<th>Days Allowed</th>
<th>ENFORCEABLE</th>
<th>1st Draft Date</th>
<th>Target Date</th>
<th>Date to EPA</th>
<th>Comments Due From EPA</th>
<th>Received</th>
<th>EXT. YN</th>
<th>EPA Review &amp; Waiting Period</th>
<th>Dispute Yes/No DOEEPA</th>
<th>Date of Final Doc</th>
</tr>
</thead>
<tbody>
<tr>
<td>P = Primary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S = Secondary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P: Proposed Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P: Final ROD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date EPA Approved</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposal of Deadlines for ROD Work Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P: Remedial Design Work Plan (CDR)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design Schedule</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Description of Design Activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>List of POST-ROD &quot;P&quot; Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>List of POST-ROD &quot;S&quot; Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation of Required &quot;S&quot; Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S: Remedial Design QA/PP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S: Contingency Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S: Construction Quality Control Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% Design Submittal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50% Design Submittal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60% Design Submittal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P: Final Design 100% Submitted</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P: Remedial Action Work Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Description of Activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Schedule</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preliminary Inspection by EPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remedial Action Report</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Updated: November 2002
## OPERABLE UNIT 4
### GROUNDWATER

<table>
<thead>
<tr>
<th>Site Groundwater</th>
<th>Days Allowed</th>
<th>60</th>
<th>20</th>
<th>60</th>
<th>20</th>
<th>60-30</th>
<th>OPEN</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RI/FS</th>
<th>ENFORCEABLE DATE FOR DOCUMENT</th>
<th>1st DRAFT TARGET DATE</th>
<th>DATE TO EPA</th>
<th>COMMENTS DUE FROM EPA</th>
<th>Revisited</th>
<th>EXT. Y/N</th>
<th>EXT. RESPONSE RPT TO EPA</th>
<th>EPA REVIEW &amp; WAITING PERIOD</th>
<th>DISPUTE YES/NO</th>
<th>DATE OF FINAL DOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>RI/FS WORK PLAN</td>
<td>26-Jan-95</td>
<td>22-Dec-94</td>
<td>21-Mar-95</td>
<td>21-Mar-95</td>
<td>N</td>
<td>16-May-95</td>
<td>N</td>
<td>16-Aug-95</td>
<td>NO</td>
<td>04-Oct-95</td>
</tr>
<tr>
<td>FIELD SAMPLING PLAN</td>
<td>22-Dec-94</td>
<td>21-Jan-95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATA QUALITY OBJECTIVES</td>
<td>22-Dec-94</td>
<td>21-Jan-95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SITE MANAGEMENT PLAN</td>
<td>22-Dec-94</td>
<td>21-Jan-95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QUALITY ASSURANCE PROGRAM PLAN</td>
<td>22-Dec-94</td>
<td>21-Jan-95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCHEDULE OF ALL &quot;P&quot; DOCUMENTS</td>
<td>26-Jan-95</td>
<td>22-Dec-94</td>
<td>26-Jan-95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCHEDULE OF ALL &quot;S&quot; DOCUMENTS</td>
<td>26-Jan-95</td>
<td>22-Dec-94</td>
<td>26-Jan-95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P COMMUNITY RELATIONS PLAN</td>
<td>22-Dec-94</td>
<td>10-Dec-94</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P BASELINE RISK ASSESSMENT (note 1)</td>
<td>30-Sep-95</td>
<td>30-Sep-95</td>
<td>26-Sep-95</td>
<td>23-Nov-95</td>
<td>NO</td>
<td>27-Feb-97</td>
<td>Y *1</td>
<td>28-May-97</td>
<td>YES(MEMO)</td>
<td>01-Jul-97</td>
</tr>
<tr>
<td>P REMEDIAL INVESTIGATION REPORT (note 1)</td>
<td>30-Sep-95</td>
<td>30-Sep-95</td>
<td>26-Sep-95</td>
<td>23-Nov-95</td>
<td>NO</td>
<td>27-Feb-97</td>
<td>Y *1</td>
<td>28-May-97</td>
<td>YES(MEMO)</td>
<td>01-Jul-97</td>
</tr>
<tr>
<td>SUPPLEMENTAL FEASIBILITY STUDY</td>
<td>22-Mar-99</td>
<td>22-Mar-99</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** The Community Relations Plan was reviewed internally and no modifications were required.

NOTES:

*1. Request for schedule extension for the enforceable milestones were submitted on July 11, 1995. Approved by default.

*2. Request for a schedule extension for the draft final submittals was submitted on December 11, 1997. Approved by default.

*3. On Mar 4, 94 a request for renegotiation of the draft final submittal of the proposed plan was transmitted via e-mail.

*4. DOR and MDNR entered into an informal dispute resolution process that was mediated by EPA. On 9/29/2000, an Interim ROD was signed authorizing treatment of TRC-impacted groundwater.

Resolution of the remaining uncertainties is pending the performance of field studies.
# Operable Unit 4

## Interim Site Groundwater

<table>
<thead>
<tr>
<th>Site Groundwater</th>
<th>Days Allowed</th>
<th>60</th>
<th>20</th>
<th>00</th>
<th>20</th>
<th>00+30</th>
<th>Open</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE RECIPIENT</td>
<td>DATE RECEIVED</td>
<td>WILL ASIGNED</td>
<td>DATE FOR</td>
<td>DATE TO</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD/RA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P Final ROD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date EPA Approved the ROD Alternative</td>
<td>29-Sep-00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proposal of Down Time for RD Work Plan</td>
<td>09-Jun-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P Remedial Design Work Plan (CDR)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design Schedule</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Description of Design Activities</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>List of POST-ROD &quot;P&quot; Documents</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>List of POST-ROD &quot;Q&quot; Documents</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design of Required &quot;3&quot; Documents</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S Remedial Design QAPP</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S Contingency Plan</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S Construction Quality Control Plan</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10% Design Presentation</td>
<td>(2)</td>
<td>23-Mar-01</td>
<td>11-Apr-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90% Design Presentation</td>
<td>(2)</td>
<td>12-Aug-01</td>
<td>11-Apr-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S Subcontractor Pilot Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P 80% Subcontractor Full Scale Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P Remedial Action Work Plan</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Description of Activities</td>
<td>15-Feb-01</td>
<td>14-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Schedule</td>
<td>15-Feb-01</td>
<td>15-Feb-01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S Pre-Final Inspection</td>
<td>21-Oct-02</td>
<td>(3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) DOE responded to comments received on July 10 in a letter dated July 30, 2001. A revised document was issued on September 14 that incorporated updated information regarding changes in schedule and cost. An additional 30-day review period.

(2) Performance based specifications were submitted for review in the 10% and 30% designs. The 60% and 90% design submittals will be the pilot-scale design and full-scale design, respectively, submitted by the specialty subcontractor.

(3) Regulatory meeting to present results of groundwater field studies and pilot-scale treatment of TCE using GCX. ROD may be closed out after final GWOU-ROD addressing all OCC's, including TCE.
MK-Ferguson Company
Weldon Spring Site Remedial Action Project

TRANSMITTAL OF CONTRACT DELIVERABLE

Date: November 8, 2002
Transmittal No.: CD-293-00

Title of Document: Federal Facility Agreement Quarterly Report Fourth Quarter Fiscal Year 2002

Doc. Num.: 926 Rev. No.: 0 Date of Document: November 2002

Purpose of Transmittal: Request for Department of Energy acceptance of contract deliverable.

In compliance with the Project Management Contract, MK-Ferguson Company hereby delivers the attached document to the U.S. Department of Energy, Weldon Spring Site Office. The document has been reviewed and approved by Project Management Contractor management.

The document will be considered accepted unless we receive written notification to the contrary within 30 days of the date of this transmittal.

Number of copies transmitted: Twelve

[Signature]
Scott Anderson
Project Director

TMF: Form Contract Deliverable