

**FRONTIER HARD CHROME  
ISRM WALL INSTALLATION/SOURCE AREA TREATMENT  
SAMPLING AND ANALYSIS PLAN  
ADDENDUM NO. 1**

**1. INTRODUCTION**

This addendum amends the *Frontier Hard Chrome ISRM Wall Installation/Source Area Treatment Sampling and Analysis Plan* dated February 2003. Amendments to the SAP contained here are based on review comments provided by Mr. Gerald Dodo of the United States Environmental Protection Agency (EPA) and Mr. Neal Amick of EPA's Environmental Services Assistance Team (ESAT).

**2. AMENDMENTS**

SAP deletions, corrections, and additions are provided by appropriate section below.

**General**

The Hach test kit used for hexavalent chromium in water will be #12710 instead of #24618.

**Section 1.1.2, Project Roles, Paragraph 2**

Delete reference to Field Analytical Support Project (FASP).

**Section 1.4, Data Collection Activities Summary and Schedule**

Remove "and Schedule" from the section title.

*Item 2. ISRM Wall Installation*

Remove the last sentence "ISRM Wall installation is currently anticipated to begin in March 2003 and will take approximately four months to complete."

*Item 3. Source Area Treatment*

Remove the last sentence "Source area treatment will take approximately four months to complete: the start date for source area treatment is being established."

## Section 2, Field Sampling Plan

### Section 2.2.1 Wall Alignment Characterization

#### *Paragraph 1*

Delete the sentence “ESAT may desire to provide a licensed driller for the Geoprobe activities.” Mr. David Dinkuhn, P.E. of Weston, will perform the function of a licensed driller.

Replace “ESAT SOP FASP-014 (Appendix A).” with “ESAT FASP-045.” Add the sentence “A copy of SOP FASP-045 will be carried in the field by ESAT.”

#### *Paragraph 4*

Add the following after the third sentence: “The seven temporary monitoring wells will be developed by ESAT. Development will be performed using a inertial lift pump equipped with a surge block. Development flow rates of up to 1 gallon per minute will be achieved. Development goals will include stabilization of the water quality parameters temperature, conductivity, pH, and turbidity (development water disposal will be provided by WESTON).”

#### *Tables 1 and 2, ISRM Wall Installation—Operational and Functional Sampling*

Include CLP method OLC03.1 along with EPA Method 8260 for chlorinated solvents analysis.

Please add the following:

### **2.4 SCHEDULE**

The table below contains the currently planned schedule for all field activities. These dates are estimated and subject to change. If dates change, Weston will notify all affected personnel.

| <u>Task</u>                          | <u>Sampling Dates</u>  |
|--------------------------------------|--|
| Site Debris                          | 5/5/03 through 10/10/03  |
| ISRM Wall Alignment Characterization | 3/5/03 through 3/20/03   |
| ISRM Injection Well Withdrawal       | Phase I—5/16/03 through 6/10/03<br>Phase II—7/30/03 through 8/26/03  |
| ISRM Wall Operational Sampling       | Round 1—9/9/03 through 9/23/03<br>Round 2—10/7/03 through 10/21/03<br>Round 3—1/21/04 through 2/4/04<br>Round 4—4/21/04 through 5/5/04<br>Round 5—7/21/04 through 8/4/04<br>Round 6—10/21/04 through 12/5/04 |

|   |                           |
|---|---------------------------|
| Source Area Treatment Optimization      | 7/14/03 through 7/18/03   |
| Source Area Treatment Full Scale        | 7/21/03 through 10/10/03  |
| Source Area Treatment Fluff Soil        | 7/28/03 through 10/10/03  |
| Source Area Treatment Off Site Sampling | 10/31/03 through 11/6/03  |
| Source Area Treatment Air Monitoring    | 7/21/03/ through 10/31/03 |