

**Documentation of Periodic Review**

Document Number: EP-DIR-SOP-20020, X0 MB Revision: 0  
 Title: Physical Processing, Storage, and Examination of Bulk Material of the Fuel Cycle  
 Due Date for Review: 2/25/15 Responsible Line Manager: Craig Douglas Z#: 216051

Editorial Review and Validation are suggested methods of evaluation, but are not required.

<u>Evaluation</u>	<u>YES</u>	<u>NO</u>	<u>N/A</u>
1. Editorial Review performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Validation performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Evaluation Results</u>	<u>YES</u>	<u>NO</u>	<u>N/A</u>
3. Is the document, in its entirety, still needed for operations at the facility? (If No, skip questions 4 – 7 and select "Cancellation" or "Revision.")	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the document technically accurate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is the document usable in its current form?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Are the references current and complete? (If "No," a Minor revision should be considered)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Does the document satisfy the format requirements?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Integrated Work Document (IWD) – Equivalent Evaluation Results</u>	<u>YES</u>	<u>NO</u>	<u>N/A</u>
8. Is the P300 Hazard Grading Matrix for this document still accurate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the document still acceptable as P300 Part 1, Activity Specific Information?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Is this document still acceptable as P300 Part 2, Work-Area Information?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Is this document still acceptable as P300 Part 3, Validation and Work Release Information?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Is this document still acceptable as P300 Part 4, Post-Job Review?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

13. Based on this evaluation, the following action is required.
- None                      The document is extended in accordance with its periodic review cycle.
  - Revision                      Initiate a revision in accordance with the governing procedure.
  - Cancellation                      Initiate cancellation in accordance with the governing procedure.

14. Periodic Review Evaluation Performed By:

Mike Alexander                      [Signature]                      1022671                      2/25/15  
 Name (print)                                      Signature                                      Z number                      Date

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Responsible Line Manager (RLM) Approval:

Craig Douglas                      [Signature]                      216051                      2/26/15  
 RLM/Representative (print)                      Signature                                      Z number                      Date

Facility Operations Director (FOD) Concurrence (if required):

N/A                                      N/A                                      N/A                                      N/A  
 FOD/Representative (print)                      Signature                                      Z number                      Date

# Physical Processing, Storage, and Examination of Borehole Material at the Field Support Facility

Effective Date: 12/13/12

Procedure Owner: Mike Clevenger	Signature: /s/ Mike Clevenger	Date: 11/27/12
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This document fully satisfies the requirements of P300, Integrated Work Management, in order to systematically describe the work activity, the associated hazards, and the controls that **MUST** be employed to mitigate the risks.

**REVISION HISTORY**

Document No./Revision No.	Issue Date	Action	Description
EP-DIR-SOP-20020, R0	12/13/12	Revised to new format; updated references.	New document control number assigned; Supersedes SOP-12.04

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## **1.0 PURPOSE**

The purpose of this Standard Operating Procedure (SOP) is to facilitate the physical processing, storage, and examination of borehole material at the Environmental Programs (EP) Field Support Facility (FSF). This procedure applies to all Curatorial staff.

## **2.0 SCOPE**

This SOP is a mandatory document, and EP, and FSF participants will implement this SOP when processing, storing, or examining borehole materials.

## **3.0 REFERENCES**

EP personnel using this procedure should become familiar with the contents of the following documents to properly implement this SOP.

- EP-DIR-AP-10007, Environmental Programs Procedure Preparation, Revisions, Review, Approval and Use
- EP-DIR-AP-10003, Records Management Procedure for ADEP Employees
- SOP-5181, Notebook and Logbook Documentation for Environmental Directorate Technical and Field Activities
- EP-DIV-SOP-20018, Field Logging, Handling, and Documentation of Borehole Materials
- EP-DIV-SOP-20019, Transportation and Admittance of Borehole Materials to the Field Support Facility
- ES&H Administrative Requirements (AR) Manual, AR 12-1, “Personal Protective Equipment” Physical Processing, Storage, and Examination of Borehole Materials at the Field Support Facility

## **4.0 TRAINING**

All users of this SOP are trained by reading the procedure. The user will ensure that the training is documented in accordance with Directorate protocol.

The Team Leader (TL) shall monitor the proper implementation of this procedure and ensure that relevant team members have completed all applicable training assignments.

## 5.0 DEFINITIONS

Analytical Sample — is a subsection or portion, which has been removed from a sample that undergoes testing, analysis, or other technical or scientific evaluation. It is also referred to as a specimen.

Core — is a cylindrical section of rock, or fragment thereof, that is taken as a sample of the interval penetrated by a core bit and that is brought to the surface for examination and/or analysis.

Curatorial Sample Inventory and Tracking System (CSITS) — is the computer database that has been developed to track in detail all actions taken on the EP borehole materials over which the FSF has control. The primary objective of the database is to assist in establishing and maintaining traceable records of each borehole material collected for the EP.

Cuttings — are chips of rock produced during drilling that are removed from the borehole by circulation of drilling fluids (gas, foam, or liquid) or by mechanical means.

Examiner — is an individual from the EP or outside who is authorized to visually examine borehole materials at the FSF.

Information Block — is an object placed in a container that represents a depth interval and provides information pertaining to the status of that interval.

Rubble — consists of fragments of core from a single interval, with diameters that average less than one half the diameter of the whole core.

Field Support Facility — is the facility used, in part, for the documentation, storage, and control of borehole materials collected and distributed for analysis and evaluation by EP personnel. The FSF consists of physical facilities and equipment designed to effectively process and preserve collected borehole materials.

FSF Acceptance Criteria for Borehole Materials — the allowed exposure levels inside the FSF to radioactivity and non-radioactivity contamination occurring from the acceptance, handling, processing, examinations, and storage of borehole materials. The FSF Acceptance Criteria (Table 1 of EP-DIV-SOP-20018) are designed to ensure that potential exposures are limited to levels at which health and safety concerns are minimized.

Material Type — designates the type of material that makes up a sample (i.e., core, cuttings, chips, or remnants).

Unique identifier(ID) — is a designation that sets a documentable object or event apart from similar entities. It may be an assigned number, a name and alphanumeric designation, or a set of data items that collectively serve to specify an entity. Examples of unique identifiers used in this procedure include Borehole ID, Container ID, Sample ID, or Specimen ID.

## **6.0 BACKGROUND AND PRECAUTIONS**

### **6.1 Background**

The implementation of EP-DIV-SOP-20018 shall ensure that a determination is made as to the levels of radioactive and non-radioactive hazards associated with EP borehole materials accepted by Curatorial staff. This determination is made prior to the use of this procedure.

Borehole materials received from EP field sites shall be processed after arrival at the FSF only after the completion of EP-DIV-SOP-20019 activities. The purpose of processing these materials for archival purposes is to ensure proper identification and traceability of these materials. Borehole materials undergo different phases of processing depending upon the condition of the material

### **6.2 Precautions**

The user of this procedure is responsible for verifying that FSF Acceptance Criteria (Table 1 of EP-DIV-SOP-20018) levels have not been exceeded prior to physical processing. Borehole material that has contamination levels that are above the upper limits of the FSF Acceptance Criteria, shall not be accepted into the FSF facility.

If borehole material contamination levels are below the upper limits of the FSF Acceptance Criteria, the following handling precautions are prescribed:

- Laboratory coats and plastic or rubber gloves may be worn while manipulating exposed material;
- Eating or drinking is prohibited in areas where these materials are open to the environment;
- Handling, processing and examination of materials shall be kept to a minimum.

Borehole material that has contamination levels that are above the upper limits of the FSF Acceptance Criteria shall not be accepted into the FSF.

**Note:** Generators should contact Environment Safety & Health (ESH) for direction on handling and storing contaminated borehole materials that are above the FSF Acceptance Criteria.

## **7.0 RESPONSIBLE PERSONNEL**

The following participants are responsible for activities identified in this procedure:

- FSF Curatorial Staff
- Examiners

- Team Leader

## **8.0 EQUIPMENT**

Equipment necessary for this procedure may include, but is not limited to the following;

- core boxes and dividers;
- core marking supplies;
- measuring rulers marked in tenths of a foot;
- polyethylene lay-flat tubing;
- polystyrene core cradles; and
- work tables.

## **9.0 PROCEDURE**

Borehole materials received from EP field sites shall be processed after arrival at the FSF only after the completion of EP-DIV-SOP- 20019 activities. The purpose for archival is to ensure proper identification and traceability of borehole materials. Borehole materials undergo different phases of processing depending upon the condition of the material.

### **9.1 Inventory Borehole Material**

- Conduct a manual inventory of borehole materials and compare that inventory against the documentation obtained from the EP-DIV-SOP-20019 activities.
- Input the data resulting from this activity into the **CSITS database**, including the storage location of the borehole material.
- Use the **CSITS database** to verify/validate the data input and to generate a Processing Checklist (Attachment A).

**Note:** This checklist is used to document the various steps in the processing of borehole materials. The checklist includes any special processing instructions that may apply to a specific container. Individual steps in the Processing Checklist that do not apply are marked as "N/A."

- Once the Processing Checklist is completed, verify and document with an approval signature in the space provided for Curatorial staff.



- Secure the checklist inside a polybag and place it into the respective borehole material container.

## 9.2 Conduct the Checklist

### 9.2.1 Ensure Proper Borehole Material Bagging and Marking

Inspect borehole material for correct packaging (EP-DIV-SOP-20018). If Curatorial staff deems that bagging/rebagging of the borehole material is necessary, it will be bagged as follows:

- Lengths of lay-flat tubing (or similar type of preservation material, e.g., polybag) are used for each interval. When utilizing lay-flat tubing, one end of each length is sealed with a heat sealer. One side of the tubing is marked with the top and bottom depths of the interval.
- Orientation marks, *red on the right and blue on the left* (Attachment C), are drawn on the plastic bag (provided material orientation has been maintained).
- The borehole material is then inserted into the pre-marked lay flat tubing, the excess air is squeezed out, and the end of the tubing heat-sealed. *This process is repeated for each row of the container as necessary.*

**Note:** If any inconsistencies are discovered during the checklist process, Curatorial staff shall confer with the requesting field personnel to remedy any anomalies.

### 9.2.3 Verify Missing/Removed Labels

Verify that any missing interval is noted by a marker denoting that the interval is missing or was removed.

### 9.2.4 Label Container

Utilize the CSITS database to generate five container labels for each individual borehole material container.

Affix the labels to both ends and on the right side of the container lid, and on the front end and right side of the container base.

**Note:** The borehole material remains in the same box in which it was received from the field unless the container was damaged beyond usefulness. If the container is damaged beyond usefulness, the borehole material is transferred to a new material container.

#### 9.2.5 Verify Borehole Material Orientation Marking

Ensure that the field markings are complete, clear, and unobscured; or redraw them as necessary using the process described in EP-DIV-SOP-20018.

**Note:** Depth indicators are permanently marked and appropriately located on both ends of the borehole material (Attachment B).

If any inconsistencies are discovered during this process, confer with the submitting field personnel to remedy any anomalies.

#### 9.2.6 Verify Inserted Box Dividers

Ensure that the plastic-coated dividers were properly inserted between each row of borehole material.

#### 9.2.7 Verify Borehole Seating in Foam Cradles

Ensure that the borehole material is correctly seated in the foam cradles.

#### 9.2.8 Ensure Container Lids Closed

Ensure that all container lids are properly closed and are secure before transporting containers to the permanent assigned shelf locations.

#### 9.2.9 Store Borehole Material

Upon completion of the processing activities, process containers for storage as follows:

- a specific location is located within the FSF.
- the location is input into the CSITS database.
- the borehole material boxes are shelved.

**Note:** Where temperature is of no concern, designated boreholes may be stored outside the FSF in the designated cold storage areas. These borehole material storage areas are within a locked area restricted to authorized personnel only.

#### 9.2.10 Request Examination of Processed Borehole Material

Anyone wishing to conduct further research of archived borehole materials who wants to examine borehole material at the FSF need to complete an Examination Request (Attachment D) and forward that request to curatorial staff at least 24 hours in advance of the borehole material examination.

**Note:** The 24-hour advance notice allows curatorial staff enough time to get the borehole material pulled from storage and arranged on the examination table. Data from the Examination Request and the CSITS database is used by curatorial staff to initiate an Examination Report (Attachment E).

Prior to the time of the exam, weigh the borehole material and container individually or together as a quality control measure (documented on the Examination Report, Attachment E).

**Note:** Borehole material may also be compared to photographs (if available) prior to the examination as an additional quality control activity.

#### 9.2.11 Examine Borehole Material

Notify the examiner that the borehole material is available for examination and schedule a date and time for the exam.

At the time of the examination, make a borehole material review folder containing borehole information available for the examiner.

**Note:** Included in this folder, is a summary of hazardous materials monitoring results indicating that the values are within FSF Acceptance Criteria.

Should the examiner decide to remove a specimen for analysis, the examiner places a temporary marker (indicating who the examiner is, the date, and what interval is to be removed), is placed on the borehole material.

After each specimen is selected for removal, curatorial staff shall assist the examiner in the specimen removal and shall make a listing of the removed specimens.

Enter the appropriate information into the CSITS database and the appropriate specimen labels and documentation are generated.

Upon completion of the examination, the curatorial staff may again compare the core material viewed to the core photographs (if taken) and reweigh the borehole material to ensure that the borehole material was not removed or disrupted (i.e., an exception is when specimens were removed for analysis).

If there are no discrepancies, complete the Examination Report and proceed to 9.2.12.

#### 9.2.12 Reshelf Borehole Material

Remove all containers from the Examination Room and replace them in their appropriate storage location.

## **10.0 RECORDS**

Curatorial staff personnel are responsible for submitting the following records to the Records Processing Facility only when the borehole material is retired to a disposal area.

- Examine Request
- Examination Report

## **11.0 ATTACHMENTS**

The document user may employ documentation formats different from those attached to/named in this procedure—as long as the substituted formats provide, as a minimum, the information required in the official forms developed by the procedure.

Attachment A: Processing Checklist (database generated) (1 page)

Attachment B: Core Markings (1 page)

Attachment C: Marks on Lay-Flat Tubing (1 page)

Attachment D: Examination Request (database generated) (1 page)

Attachment E: Examination Report (database generated) (1 page)

[Click here for "Required Read" credit.](#)

Reference


ATTACHMENT A	
<p><b>EP-DIV-SOP-XXX-1</b></p> <p style="text-align: center;"><b>PROCESSING CHECKLIST</b> <b>Field Support Facility</b></p>	<p>Records Use only</p> 

**FIELD SUPPORT FACILITY**  
**Processing Checklist**

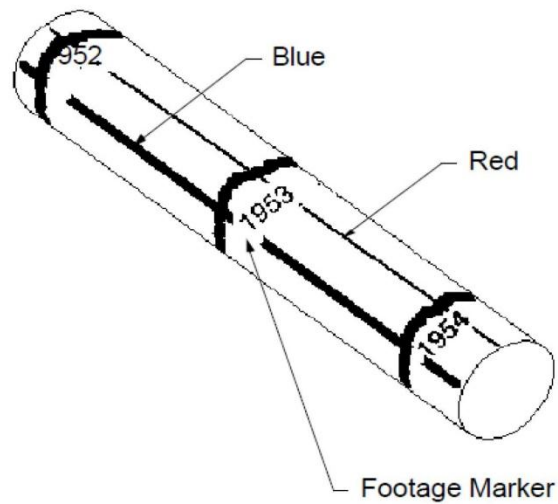
<ol style="list-style-type: none"> <li>1. Rubble Bagged? _____</li> <li>2. Bags Footage Marked? _____</li> <li>3. Missing/Removed Labels in Place? _____</li> <li>4. Permanent Box Labels Applied? _____</li> <li>5. Orientation Marks Easily Visible? _____</li> <li>6. Depth Markers Clear and Legible? _____</li> <li>7. Box Dividers Inserted? _____</li> <li>8. Core in Foam Cradles? _____</li> <li>9. Box Lids Closed? _____</li> <li>10. Permanent Assigned Shelf Location: _____</li> </ol>	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <tr> <th style="text-align: left;">Box ID</th> <th style="text-align: left;">Number</th> <th style="text-align: left;">Of</th> <th style="text-align: left;">Borehole</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> <tr> <td>00501</td> <td>1</td> <td>56</td> <td>Example</td> <td>0.0</td> <td>6.0</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sample ID</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> <th style="text-align: left;">Status</th> <th style="text-align: left;">Packaging</th> <th style="text-align: left;">Comment</th> </tr> </thead> <tbody> <tr> <td>000387</td> <td>0.0</td> <td>4.0</td> <td>REC</td> <td>None</td> <td></td> </tr> <tr> <td>000388</td> <td>4.0</td> <td>4.2</td> <td>WC-Fld</td> <td>Unknown</td> <td></td> </tr> <tr> <td>000389</td> <td>4.2</td> <td>6.0</td> <td>REC</td> <td>None</td> <td></td> </tr> </tbody> </table> <p style="margin-top: 20px;">Special Instructions: _____</p> <p>_____</p>	Box ID	Number	Of	Borehole	Top	Bottom	00501	1	56	Example	0.0	6.0	Sample ID	Top	Bottom	Status	Packaging	Comment	000387	0.0	4.0	REC	None		000388	4.0	4.2	WC-Fld	Unknown		000389	4.2	6.0	REC	None	
Box ID	Number	Of	Borehole	Top	Bottom																																
00501	1	56	Example	0.0	6.0																																
Sample ID	Top	Bottom	Status	Packaging	Comment																																
000387	0.0	4.0	REC	None																																	
000388	4.0	4.2	WC-Fld	Unknown																																	
000389	4.2	6.0	REC	None																																	

Example

Title: Physical Processing, Storage, and Examination of Borehole Material at the Field Support Facility	No.: SOP-XXX	Page 2 of 5
	Revision: 0	Effective Date:


ATTACHMENT B	
EP-DIV-SOP-XXX-1  CORE MARKINGS	Records Use only 

Core Markings

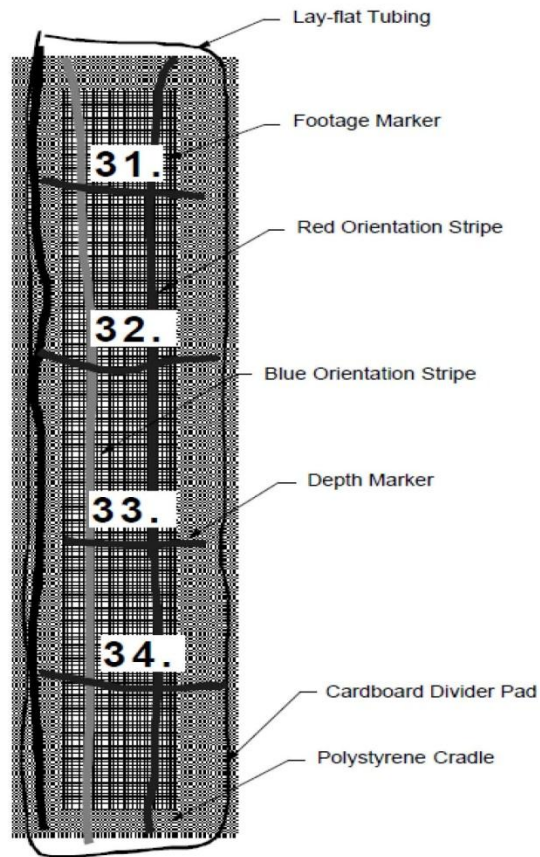


ORIENTATION STRIPES

Title: Physical Processing, Storage, and Examination of Borehole Material at the Field Support Facility	No.: SOP-XXX	Page 3 of 5
	Revision: 0	Effective Date:

ATTACHMENT C	
EP-DIV-SOP-XXX-1  MARKS ON LAY-FLAT TUBING	Records Use only 


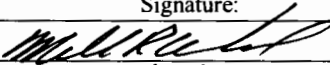

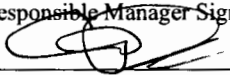
**Marks on Lay-Flat Tubing**









<b>Document Action Request</b>			
<b>Section 1 – Originator Request</b>			
Document No.: EP-DIR-SOP-20020		Revision No.: 0	
Title: Physical Processing, Storage, and Examination of Borehole Material at the Field Support Facility		Page <u>1</u> of <u>2</u>	
Description of requested action (Attach numbered additional sheets if needed.): Editorial and technical changes to procedure. This new document supersedes SOP-12.04			
Originator Name (print): Mike Clevenger	Z#: 101789	Organization: BPS-SLS	Date: 7/11/12
<b>Section 2 – Approval for Processing - Responsible Manager</b>			
<input checked="" type="checkbox"/> New Document	<input type="checkbox"/> Minor Revision	<input type="checkbox"/> Deactivation	<input type="checkbox"/> Perform Concurrent Periodic Review?
	<input type="checkbox"/> Major Revision	<input type="checkbox"/> Cancellation	
Superseded Document(s) and Revision Number:		SOP 12.04, R2	
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved (return to originator)	Comments:	PCRs N/A
Signature: 	Print Name, Title: Craig Douglass, RLM	Z#: 216051	Date: 8/29/12
<b>Section 3 – Hazard Determination – Responsible Manager</b>			
Hazard Determination:	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> High/Complex <input type="checkbox"/> N/A
Document is authorized to serve as IWD?	<input type="checkbox"/> Part I only	<input type="checkbox"/> Full IWD	<input type="checkbox"/> N/A
<b>Section 4 – Required Reviews (see P315, Ch 16, Section 16.5.3)</b>			
Discipline:	Name:	Signature:	Date:
CAP-FS	Mike Alexander		9-20-12
QPA-IQ	Paul E. Lowe Robert A. Injells	151 Robert A. Injells	12-13-12
ET-EI	Danny Katzman	151 Danny Katzman	9-13-12
Validation Required (SME):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Waive	Comment:	
Scope of Validation:	<input checked="" type="checkbox"/> Entire Procedure	<input type="checkbox"/> Change Only	
Validation Method:	<input type="checkbox"/> Walkdown <input type="checkbox"/> Simulation	<input checked="" type="checkbox"/> Tabletop	<input type="checkbox"/> First Time Use
Training Determination completed?:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	Completed by: Craig Douglass	
USQ/USI Number (if needed): N/A	Signature: /s/ Lance Platter	Z#: 236299	Date: 8/28/12
Derivative Classifier: <input checked="" type="checkbox"/> Unclassified <input type="checkbox"/> OOU <input type="checkbox"/> UCNI <input type="checkbox"/> Classified	Signature: 	Z#: 115164	Date: 8-29-12
<input type="checkbox"/> DUSA DUSA # <u>N/A</u>	Signature <u>N/A</u>	Z# <u>N/A</u>	Date <u>N/A</u>
<b>Section 5 – Final Approvals – Responsible Manager</b>			
<input type="checkbox"/> Release <input type="checkbox"/> Hold	Details:		
Responsible Manager Signature: 	Print Name, Title: Craig Douglass, RLM	Z#: 216051	Date: 12/5/12
Additional Approval Signature: <u>N/A</u>	Print Name, Title: <u>N/A</u>	Z#: <u>N/A</u>	Date: <u>N/A</u>

Attachment 1  
EP-DIR-AP-10001, R5

<b>DAR Continuation</b>			
Document No.: EP-DIV-SOP-20020			Revision No.: 0
Title: Transportation & Admittance of Borehole Materials to the Field Support Facility			Page <u>2</u> of <u>2</u>
<b>Description of Requested Action (continued from Section 1)</b>			
<b>Approval/Disapproval Comments (continued from Section 2)</b>			
<b>Required Reviews (continued from Section 4)</b>			
Discipline:	Name:	Signature:	Date:
CAP-FS	Steve Pearson	<i>151 Steve Pearson</i>	9/13/12
<b>Validation Comments (continued from Section 4)</b>			
<b>Release/Hold Details (continued from Section 5)</b>			