

ROCKY FLATS PLANT
 EMD OPERATING
 PROCEDURES MANUAL

Manual No 5-21000-OPS-GT
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 Effective Date: 07/27/92
 Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET
 WHICH INCLUDES.

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GT 02	Drilling and Sampling Using Hollow Stem Auger Techniques	2	05/12/92
DCN 92 01	Superseded by DCN 92 03	2	07/27/92
DCN 92 02	Superseded by DCN 92 03	2	07/27/92
DCN 92 03	Addition of the Drum Characterization	2	07/27/92
GT 03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
DCN 92 03	Alternate Method of Installing Surface Casing	2	06/04/92
GT 04	Rotary Drilling and Rock Coring	2	05/12/92
GT 05	Plugging and Abandonment of Boreholes	2	05/12/92
GT 06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 92 05	Schematic Diagram Land Fill Methane Wells	2	06/04/92

DOCUMENT CLASSIFICATION REVIEW WAIVER
 PER R.B. HOFFMAN, CLASSIFICATION OFFICE
 JUNE 11, 1991

ADMIN RECORD

A-SW-000398

RFD 8/19/92

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GT 24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

This is a
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 EG&G - ROCKY FLATS PLANT
 ENVIRONMENTAL MANAGEMENT **DOCUMENT CHANGE NOTICE (DCN)**
 This is a RED Stamp

Procedure Number 5-21000-OPS-GT 2, Rev 1a
cm.

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Title Drilling and Sampling Using Hollow-Stem Auger Techniques	Date 7/27/92	DCN Number 5-21000-OPS-GT.02,R2 DCN 92.03 <i>cm.</i>
Expires _____	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Scope Limitation <u>Drilling operations</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	11 of 14	5.3.4	<p>This DCN will replace DCNs GT2 02,R2 92 01 and 92 02</p> <p>5.3.4 Drum Characterization When obtaining geochemical samples strictly for the purpose of characterizing the environmental materials present in drums, the following procedures will apply</p> <p>During drilling operations, environmental materials accumulate in a mud pit and are then shoveled into drums. As drums are being filled, samples will be collected from the material filling the bottom, middle and upper portion of the drum. The samples will be composited in a stainless steel bowl kept in a safe location out of the sun. The materials from up to four drums from a given borehole will be composited in this manner. The samples will then be placed in the appropriate containers for analytical testing.</p> <p>When obtaining geochemical samples from drummed mixtures of bedrock and water resulting from drilling operations, a bailer will be used to obtain a sample from the bottom, middle and upper portion of a drum. Materials from up to four drums from a given borehole will be composited in this manner. The samples will then be placed in the appropriate containers for analytical testing.</p>

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)

Environmental samples generated during rotary drilling operations are in constant contact with circulating fluids as they are generated, move up the borehole, and accumulate. Compositing these samples is representative of what is in the drums.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	7/27/92	<i>[Signature]</i>	User	X	7/27/92
<i>[Signature]</i>	EOM	X	7/27/92				
Approval of Responsible Manager <i>[Signature]</i>	Date 7/27/92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date?	Date Posted			