

EAB 2/12/93 This is a #14

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EG&G — ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT DEPARTMENT

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ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GT
Procedure No.: Table of Contents, Rev 36
Page: 1 of 3
Effective Date: 02/11/93
Organization: Environmental Management

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

- VOLUME I: FIELD OPERATIONS (FO)
- VOLUME II: GROUNDWATER (GW)
- VOLUME III: GEOTECHNICAL (GT)
- VOLUME IV: SURFACE WATER (SW)
- VOLUME V: ECOLOGY (EE)
- VOLUME VI: AIR (AP)

TABLE OF CONTENTS FOR VOLUME III: GEOTECHNICAL

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.01	Logging Alluvial and Bedrock Material	2	05/12/92
DCN 92.01	Specialized Logging Form	2	11/13/92
DCN 93.01	Logging	2	01/15/93
DCN 93.02	Logging Deliverables Standard Practices	2	01/25/93
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DCN 92.01	Superseded by DCN 92.03	2	07/27/92
DCN 92.02	Superseded by DCN 92.03	2	07/27/92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
DCN 92.04	Prevention of Down Hole Contamination	2	08/26/92
DCN 92.05	Field Modification	2	12/04/92
DCN 93.01	Analytical Samples	2	01/25/93
GT.03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
DCN 92.03	Expired	2	09/03/92
*DCN 93.01	Data Quality Objectives for PLF Investigations	2	02/10/93

ADMIN RECORD

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

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GT.04	Rotary Drilling and Rock Coring	2	05/12/92
GT.05	Plugging and Abandonment of Boreholes	2	05/12/92
DCN 92.01	Field Modification	2	12/09/92
DCN 93.01	5.2 Revision	2	02/04/93
GT.06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 92.05	Schematic Diagram Land Fill Methane Wells	2	06/04/92
DCN 92.06	EXPIRED (replaced with DCN 93.01)	2	
DCN 92.07	Provide Consistency	2	12/17/92
DCN 93.01	Borehole Advancement	2	01/04/93
DCN 93.02	Well Point Installation	2	01/28/93
DCN 93.03	Piezometer Logging Modification	2	02/04/93
*DCN 93.04	Wells - 5.3.2.2 Revised	2	02/10/93
*DCN 93.05	Temperatures - 5.3.2.3 Revised	2	02/10/93
GT.07	Logging and Sampling of Test Pits and Trenches	2	05/12/92
GT.08	Surface Soil Sampling	2	05/12/92
DCN 92.01	Clarification of Soil Sampling	2	09/03/92
DCN 92.02	Consistency Change	2	10/12/92
DCN 93.01	Work Plan Consistency	2	01/05/93
DCN 93.02	New Section-Surficial Profiling	2	01/15/93
DCN 93.03	CDH Compliance	2	01/25/93
GT.09	Soil Gas Sampling and Field Analysis	2	05/12/92
GT.10	Borehole Clearing	2	05/12/92
GT.11	Plugging and Abandonment of Wells	2	05/12/92
GT.15	Geophysical Borehole Logging	2	05/12/92
GT.17	Land Surveying	2	05/12/92

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<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.18	Surface Geophysical Surveys	2	05/12/92
DCN 92.01	Surface Magnetic Surveys Procedure	2	09/30/92
DCN 92.02	Modification to Stacking Requirements	2	10/15/92
DCN 92.03	Modification to Method of Taking Readings	2	10/15/92
DCN 93.01	5.4 Field Procedure Revisions	2	01/25/93
GT.19	Field Gas Chromatographs	2	05/12/92
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
GT.21	Cone Penetrometer Testing	1	05/12/92
DCN 93.01	CPT Rods	1	01/15/93
GT.24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

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EG&G — ROCKY FLATS PLANT ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

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Procedure Number 5-21000-OPS-GT.3 Rev. 2

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Title Isolating Bedrock from Alluvium with Grouted Surface Casing	Date <i>MLB 2/4/93</i> <i>2/10/93</i>	DCN Number 5-21000-OPS-93.01
Expires <u>2/10/94</u>	Procedure Revision Required	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>MLB 2/9/93</i>
Scope Limitation <u>Present Landfill OU7</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	5 of 10	5.1.1	Add to the end of the paragraph: ^{present} "8 inch PVC casing may be used when isolating bedrock from landfill materials in boreholes that are for the purpose of sampling weathered bedrock only."
2	6 of 10	5.2	Add to the end of the second paragraph: ^{present} "When isolating bedrock from landfill materials, the casing will be embedded 6 inches to two feet into the bedrock."

Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)
 Data Quality Objectives for the PLF investigations are to obtain representative samples without causing contamination of the underlying materials. To accomplish these objectives, the following justifications are used:

1. The 8" PVC casing will be installed at shallow depths and will permit the use of augers to collect the weathered bedrock samples.
2. Emplacing the surface casing near the bedrock contact will prevent contamination of the weathered bedrock by landfill materials.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	2/10/93	<i>[Signature]</i>	User	X	2/5/93
<i>[Signature]</i>	EOM	X	2/8/93	<i>[Signature]</i>	EQS	X	2/9/93

Approval of Responsible Manager <i>[Signature]</i>	Date 5-Feb-93	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? UDON receipt	Date Posted
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