

This is a RED Stamp

ROCKY FLATS PLANT
 EMD OPERATING
 PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GT
 Procedure No.: Table of Contents, Rev 24
 Page: 1 of 2
 Effective Date: 08/31/92
 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 |
| 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| DCN 92.01 | Superseded by DCN 92.03 | 2 | 07/27/92 |
| DCN 92.02 | Superseded by DCN 92.03 | 2 | 07/27/92 |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 |
| 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 |

REVIEWED FOR CLASSIFICATION/UCN
 By: *[Signature]*
 Date: 10/8/92 *[Signature]*

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

ADMIN RECORD

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

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Page: 2 of 2
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| <u>Procedure No.</u> | <u>Title</u> | <u>Rev. No.</u> | <u>Effective Date</u> |
|----------------------|--|-----------------|-----------------------|
| GT.07 | Logging and Sampling of Test Pits and Trenches | 2 | 05/12/92 |
| GT.08 | Surface Soil Sampling | 2 | 05/12/92 |
| 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 |
| GT.18 | Surface Geophysical Surveys | 2 | 05/12/92 |
| 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 |
| GT.24 | Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs) | 0 | 05/12/92 |

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

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

Page 1 of 1

| | | |
|---|-----------------------------|---|
| Title Drilling and Sampling Using Hollow-Stem Auger Techniques | Date 8/26/92 | DCN Number 9204 KLM |
| Expires <u>11/26/92</u> | Procedure Revision Required | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Scope Limitation <u>none</u> | | |

| Item Number | Page | Step or Paragraph | Changes (Use DCN CONTINUATION SHEET for Additional Space) |
|-------------|---------|---|--|
| 1 | 8 of 14 | 5.2 add new paragraph at end of section | Efforts will be made to prevent the cross-contamination between hydrostratigraphic units ^{down hole contamination EOM} during drilling operations. In the event any debris, drums, free phase product, or a significant increase in OVM readings above background are encountered during drilling, the operation will be terminated immediately. The site geologist will report the borehole condition to the subcontractor's site manager and EG&G's project manager for completion instructions. |

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

Drilling activities must avoid cross-contamination between hydrostratigraphic units and prevent the vertical migration of contaminants.

| Concurrence | Organization | Req | Date | Concurrence | Organization | Req | Date |
|--------------------|--------------|-----|---------|--------------------|--------------|-----|---------|
| <i>[Signature]</i> | QAPM | X | 8/26/92 | <i>[Signature]</i> | User | X | 8/26/92 |
| <i>[Signature]</i> | EOM | X | 8/28/92 | <i>[Signature]</i> | USER | X | 8/26/92 |
| | | | | | | | |

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|---|-----------------|--|-----------------------|-------------|
| Approval of Responsible Manager <i>[Signature]</i> | Date 8/26/92 | Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If Yes, By What Date? | Date Posted |
|---|-----------------|--|-----------------------|-------------|