

This is a RED Stamp

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GT
Procedure No.: Table of Contents, Rev 39
Page: 1 of 3
Effective Date: 04/13/93
Organization: Environmental Management**

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

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VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
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**DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991**

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GT.06	Monitoring Wells and Piezometer Installation	2	05/12/92
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GT.08	Surface Soil Sampling	2	05/12/92
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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
DCN 93.02	Offsets	1	03/17/93
GT.24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

Title <u>Surface Soil Sampling</u>	Date <u>4-13-93 dr</u>	DCN Number <u>93.05 dr</u>
Expires <u>4-13-94 dr</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	14	Step #4	Substitute the following text for existing text in Step #4: 4. Remove soil sample from interior of jig with scoop/trowel and place it in a 10-mesh metal sieve that has a plastic bag attached to the bottom to receive the soil that passes through the sieve. After all 10 samples (5 samples from each of the two 1-meter square templates) have been placed into sieve, attach sieve cover and seal with tape. Sieving may be done in stages if all 10 soil samples cannot be placed into sieve at same time.
2	14	Step #5	Renumber existing Step 5 as Step 9 and modify (<u>underlined</u>) as follows: "Label <u>both the analytical sample can and residual sample can</u> with the following" Add as <u>new</u> Step 5: 5. Shake sieve for several minutes. If soil is moist, gently crush soil aggregate with fingers and continue shaking until all soil matrix has passed through sieve. Discard large particles (cobbles, stones, etc.) that do not pass through sieve into original disturbed area.

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

Justification (Reason for change - Provide numbers to reference corresponding items above.)

Items 1-5: To clarify current sampling practice. Laboratories cannot handle large volumes/weights (> 1 kg) of soil material.

Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
<i>[Signature]</i>	QAPM	X	4/12/93	<i>[Signature]</i>	User		3/22/93
<i>[Signature]</i>	EOM	X	4-4-93	<i>[Signature]</i>	EQS		3/15/93
				<i>[Signature]</i>	EQS		3-23-93

Approval of Responsible Manager <i>[Signature]</i>	Date	Is Posting required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, by what date? upon receipt	Date posted
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APR 12 1993

DOCUMENT CHANGE NOTICE (DCN)
(Continuation Sheet)

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DCN No. 93.05 *ds*

Procedure no. 5-21000-OPS-GT.8, Rev. 2	Title <u>Surface Soil Sampling</u>
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Scope Limitation: None

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
3	14	Step #6	Substitute the following for existing Step 6: 6. Place <u>all</u> sieved soil into stainless steel bowl. Mix soil thoroughly with a scoop/trowel. Divide sieved soil into quarters. Subsample each quarter equally (total amount of subsampled soil to be used for <u>analysis</u> will not exceed 1 kg or one 1-gal paint can). Place the 4 subsamples (one subsample segregated from each quarter) into one plastic bag. Place plastic bag in metal, 1-gal paint can. Leave about 1 inch headspace in paint can.
4	14	new	Add as new step 7: 7. Place <u>residual</u> sieved soil from quartering inside plastic bag, and place bag inside another paint can. If residual soil exceeds volume of one 1-gal paint can, place excess residual sieved soil back into original disturbed area.
5	14	new	Add as new Step 8: 8. Store <u>residual</u> sieved soil for potential use at a later date.

Justification (Reason for change - Provide numbers to reference corresponding items above.)