

CORRESP CONTROL  
OUTGOING LTR NO

DOE ORDER  
93 RF 11762



EG&G ROCKY FLATS INC  
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402-0464 (303) 966 7000

September 23 1993

93 RF 11762

Richard J Schassburger  
Acting Director  
Environmental Restoration Division  
DOE RFO

Attn J Pepe

OPERABLE UNIT (OU) 5 WOMAN CREEK COLLECTION OF ADDITIONAL DUPLICATE  
SAMPLES WSB 406 93

The recent review of the Rocky Flats Environmental Database System Borehole data by the Department of Energy Rocky Flats Office (DOE RFO) audit team revealed that there was a paucity of duplicate samples collected during the Remedial Investigation (RI) borehole drilling Additional core remains that can be collected and sampled without exceeding the six month holding times for radiological and metal (except mercury) analyses Holding times will not be exceeded until mid November

Additional duplicates needed by individual hazardous substance site (IHSS) are as follows

IHSS	COLLECTED COMPOSITES	COLLECTED DUPLICATES (No/%)	COLLECTED RINSATES (No/%)	ADDITIONAL DUPLICATES REQUIRED
115	67	4/6 0	8/11 9	3
133	145	7/4 8	7/4 8	8
142	6	0/0 0	4/66 7	0
209	12	2/16 7	1/8 3	0

In IHSS 115 three additional duplicate samples are required The number of rinsates is adequate however the number of duplicate samples for volatile organic analyses (VOAs) are zero

No VOA duplicate samples were collected Standard Operating Procedure (SOP) GT 2 Rev 2 Section 6 0 states Sample collection procedures will be the same as those described in Section 5 0 for duplicates VOA samples are currently collected in a 3 brass sleeve at the bottom of every two foot core and the brass sleeve is capped and packaged for shipment to an analytical laboratory SOP GT 2 Rev 2 Section 6 0 goes on to say These samples [duplicates] are intended to be as close to exact replicates of the original samples as possible They are obtained immediately adjacent to the planned samples that they are intended to duplicate A sample collected immediately adjacent to a

DIST	NC
AMARAL, M E	
BENEDETTI, R L	X
BENJAMIN, A	
BERMAN H S	
BRANCH D B	
CARNIVAL G J	
COPP R D	
DAVIS J G	
FERRERA D W	
HANNI B J	
HARMAN L K	
HEALY T J	
HEDAHL, T	
HILBIG J G	
KIRBY W A	
KUESTER A W	
MANN H P	X
MARX G E	
M DONALD M M	
M KENNA F G	
MONTROSE J K	
MORGAN R V	
POTTER G L	
PIZZUTO V M	
RILEY, J H	
RISING, T L	
SANDLIN N B	
SETLOCK G H	
STEWART D L	
SULLIVAN M T	
SWANSON E R	
WILKINSON R B	X
WILLIAMS S (ORC)	
WILSON J M	
WYANT R B	
MST EC X	
Bushby WS X	

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Richard J Schassburger  
September 23 1993  
93 RF 11762  
Page 2

sample is not a duplicate sample The procedure needs to be modified to reflect the logistical difficulties of collecting a true duplicate boring sample in the field The procedure as it currently reads cannot be considered a duplicate sample

In IHSS 133 eight additional duplicate samples are required The number of rinsates is adequate The VOA samples are not a contaminate of concern at these IHSSs

The number of duplicates and rinsates at IHSSs 142 and 209 meet or exceed the required frequency Field Preservative Blanks and Trip Blanks were not taken for solid medias because they are not applicable or are not a requirement of the Operable Unit (OU) 5 Work Plan (see attached Table 7 11 from the OU 5 Work Plan)

A total of 12 duplicate samples were collected on September 20 1993 eight of the samples were from IHSS 133 and four were from IHSS 115 The duplicate samples were collected from the core remaining from the original samples collected An additional equipment rinsate sample was also collected for IHSS 133

The duplicate samples were collected using as closely as possible the same sampling technique employed during the original sampling All activities will be documented in field log books and on the appropriate forms required by applicable SOPs Each duplicate sample will consist of a radiation screening aliquot and aliquots for analysis of metals and radionuclides

This action has been taken in response to an issue that will be a part of the yet to be completed DOE audit The DOE audit debriefing was held on September 14 1993 The final DOE audit document has not yet been released

If you have any questions regarding this letter please contact E C Mast of Remediation Project Management at extension 8589

  
W S Busby  
Acting Director  
ERM/Remediation Project Management  
EG&G Rocky Flats Inc

ECM dmf

Orig and 1 cc R J Schassburger

Attachment  
As Stated

**TABLE 7 11**  
**FIELD QC SAMPLE FREQUENCY**

Sample Type	Type of Analysis	Media	
		Solids	Liquids
Duplicates	Organics	1/10	1/10
	Inorganics	1/10	1/10
	Radionuclides	1/10	1/10
Field Preservation Blanks	Organics	NA	NA
	Inorganics	NA	1/20
	Radionuclides	NA	1/20
Equipment Rinsate Blanks	Organics	1/20	1/20
	Inorganics	1/20	1/20
	Radionuclides	1/20	1/20
Trp Blanks	Organics (Volatiles)	NR	1/20
	Inorganics	NR	NR
	Radionuclides	NR	NR

NA = Not Applicable  
 NR = Not Required