

September 5, 1991



Don Ferrier
Project Manager
EG&G Rocky Flats, Inc.
Rocky Flats Plant, Bldg. 750
P. O. Box 464
Golden, Colorado 80402-0464

Subject: Waste Characterization Sampling
RF-HED-91-0064

Dear Mr. Ferrier:

HALLIBURTON NUS requests that Waste Characterization Sampling be resumed the week of September 16 for the purpose of flocculation/clarification testing.

It is in the best interests of the project to begin this testing as soon as possible. This testing will help determine our ability to thicken fine particles (-325 mesh) which will be discharged from the cyclone to the clarifier as part of our low water ratio processing method.

Flocculation sampling will be required on Ponds 207A, 207BN, 207BC, and 207BS. The testing will require that 10 gallons of composite sludge and 40 gallons of composite water be collected from each of the aforementioned ponds in accordance with Procedure II A of Deliverable (Combined) 212A and 212E (Pondsludge Sampling Procedure and Clarifier Sampling Procedure) with the following modifications.

- Eliminate Step 2.
- In Step 3, the sample containers for sludge will be either 15-gallon poly with threaded-plug closure - DOT 34 or 15-gallon poly removal heads with lock ring - DOTE 7768. The sample containers for water will be either 55-gallon poly with threaded-plug closure - DOT 34 or 55-gallon poly removal head with lock ring - DOTE 7768.
- In Step 5, eliminate sample collection bottles, stainless steel bowl, measuring rod or tape, coliwasa and sample containers for coliwasa. Sampling will require five stainless steel buckets instead of four.
- In Step 8, eliminate collection of VOA samples for sludge and water.
- In Step 9, eliminate second paragraph.
- Replace Step 10 with the following: Collect water sample by lowering a 5-gallon bucket with a rope. Collect water sample and repeat as necessary to fill 4 of the 5 gallon stainless steel buckets two-thirds full.
- Eliminate Step 11.
- Modify Step 12, so that 2.5 gallons of sludge are placed in a 5-gallon stainless steel bucket. Sludge and water samples will be placed in the appropriate containers after returning to shore. Repeat steps 9 thru 13 for each quadrant.

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Attention: Mr. Don Ferrier
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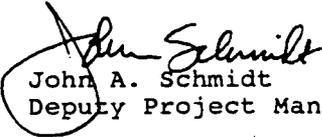
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- Modify Step 13. Sample personnel should transfer water and sludge samples into containers prior to removing protective clothing.
- Eliminate Steps 14, 15, 16, 17, 18 and 19.

Samples will be sent to the HALLIBURTON NUS Pittsburgh Laboratory for analysis in accordance with Procedure II J. Chemical coagulants (polymers) will be added to the samples to accelerate settling of the fine particles. Up to twenty different coagulants will be tested to determine the optimum mixture. Clarification testing will involve testing for an optimum flow rate through the clarifier by measuring the bulk settling rate.

Sincerely,

HALLIBURTON NUS ENVIRONMENTAL
CORPORATION


John A. Schmidt
Deputy Project Manager

JAS/jg

cc: D. Brenneman
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Project File 100 (2)

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