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CORRES CONTROL
OUTGOING LTR NO

93 RF 11113

EG&G ROCKY FLATS

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

| DIST | TR | INC |
|------------------|----|-----|
| 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 | | |
| LEE E M | | |
| MANN H P | X | |
| MARX G E | | |
| MCDONALD M M | | |
| M KENNA, F G | | |
| MONTROSE J K | | |
| MORGAN R V | | |
| POTTER G L | | |
| PIZZUTO V M | | |
| RILEY J H | | |
| SANDLIN N B | | |
| SHEPLER R L | | |
| STEWART D L | | |
| SULLIVAN M T | | |
| SWANSON E R | | |
| WILKINSON R B | X | |
| WILLIAMS S (ORC) | | |
| WILSON J M | | |
| ZANE J O | | |
| <i>MAST ECM</i> | | |
| <i>Busby WSX</i> | | |

September 8 1993

93 RF 11113

Richard J Schassburger
Acting Director
Environmental Restoration Division
DOE RFO

Attn J Pepe

OPERABLE UNIT (OU) 5 MEETING MINUTES WSB 345 93

This letter transmits meeting minutes (Attachment 1) for a September 2, 1993 meeting regarding the Operable Unit (OU) 5 Technical Memorandum No 1 (TM 1) Revised Network Design for the Field Sampling Plan Also attached are the sampling locations listed on Figure 8 of TM 1 (Attachment 2) and the baseflow and partial storm events chart (Attachment 3)

This meeting was attended by individuals from EG&G Rocky Flats Inc the Department of Energy Rocky Flats Office (DOE RFO) the Environmental Protection Agency (EPA) and the Colorado Department of Health (CDH) If you have any questions regarding this transmittal please contact E C Mast of Remediation Project Management at extension 8589

W S Busby
Acting Director
ERM/Remediation Project Management

ECM dmf

Orig and 1 cc R J Schassburger

Attachments
As Stated (3)

CORRES CONTROL x x
ADMIN RECORD
TRAFFIC
Records Clerk

| CLASSIFICATION | |
|----------------|--|
| UCNI | |
| UNCLASSIFIED | |
| CONFIDENTIAL | |
| SECRET | |

AUTHORIZED CLASSIFIER
SIGNATURE
DOCUMENT CLASSIFICATION
REVIEW WAIVER P-R
CLASSIFICATION OFFICE

IN REPLY TO RFP CC NO
N/A

ACTION ITEM STATUS
 OPEN CLOSED
 PARTIAL

LTR APPROVALS
WSB W/ECM
ORIG & TYPIST INITIALS
ECM/dmf

ADMIN RECORD

MEETING MINUTES
OPERABLE UNIT NO 5
TECHNICAL MEMORANDUM NO 1
REVISED NETWORK DESIGN FIELD SAMPLING PLAN

September 2 1993

Attendees David Johncox USGS
 Bonnie Lavelle EPA
 Greg Litus SMS
 Jeb Love CDH
 Ed Mast EG&G
 Loys Parrish EPA
 Jen Pepe DOE
 Tim Steele ASI
 Greg Wetherbee EPM/SWD

The meeting began with a status update of the surface water collection activities [Technical Memorandum No 1 (TM 1)] at Woman Creek by Greg Wetherbee of the EG&G Surface Water Division. In summary there are four synoptic surface water sampling events that were to occur along Woman Creek and the South Interceptor Ditch (SID) in support of the Remedial Investigation (RI) at Operable Unit (OU) 5. Two of the events are base flow sampling events and two are storm events.

The two base flow sampling events were successfully completed with all sampling stations listed in the TM as having been sampled. In addition to the sampling locations listed on Figure 8 of TM 1 (Attachment 2) two additional sites were sampled because they were identified as contributing water to Woman Creek. These two additional sites are SW50193 which is located in the original channel of Woman Creek (the creek had been diverted because the toe of the original landfill was slumping into the creek in that area) and SW50293 the apple orchard spring which was also observed in the field to be a contributor of water to Woman Creek.

The storm events for Woman Creek have not yet been collected. The SID has been successfully sampled. The original intent was to collect two storm events in the Woman Creek drainage. Storm event sampling has not yet been completed because

 during the two major storm events that occurred during the spring of 1993 a number of the automated samplers (ISCO) failed to collect samples. The samplers were changed out with older models that are dependable in June of 1993 and

 since June 1993 there have no storms of consequence therefore no storm samples have been collected.

The automated samplers are coupled with temporary flumes. Seven of the 10 proposed sampling sites have this instrumentation in place. Three do not. The three locations without instrumentation are SW040, SW041 and SW033 (See attached Figure 8 from TM 1 for locations). Technical Memorandum No 1 specified that these three locations would have flumes installed. Discussions ensued between DOE, EPA and CDH on these three locations and it was agreed that the flow information from these stations is

not critical to the RI and that their removal from the storm sampling program would have minimal effect on the quality of the investigation [Note SW033 may have a flume installed but the decision to install a flume would be delayed until the collected data can be reviewed These three flumes have not been installed because of logistical (wetland mitigation) and funding concerns]

It was also agreed that DOE should continue to make a good faith attempt at collecting two storm events for inclusion in the RCRA Facilities Investigation/Remedial Investigation (RFI/RI) Report and if that proves to be unattainable then the historical data along with the information from the baseflow and the partial storm events (Attachment 3) that have been collected will form the data base for which the RI will be based

The partial storm events that have been collected over the past year in OU 5 are part of a study initiated by the Surface Water Division of EG&G This data (historical baseflow events and partial storm data) is currently being evaluated This evaluation will be used in the decision making process as to whether flow data from SW033 will be critical to the OU 5 RI

Bonnie Lavelle (EPA) raised the issue of impact to the schedule if the storm event data was collected later than has been previously scheduled The impact to the schedule will be evaluated by DOE but cannot be fully determined until the current data has been evaluated and the needs for the additional storm data accessed The logical time for this determination is December 1993 when the unvalidated data for the entire RI is available and the scope and schedule of additional field investigations at individual hazardous substance sites (IHSSs) 115 and 133 1 through 133 6 are evaluated

Metals for the collected storm data were analyzed for using the graphite furnace atomic absorption technique which achieves lower detection limits for select metals copper cadmium lead silver and arsenic This work was done in the 881 analytical laboratory on site at Rocky Flats Plant

Along with the list of analytes and analytical procedures currently in TM 1 the analytical suite for the remaining synoptic sampling of storm events will include graphite furnace analysis of selected metals

Ed Mast of EG&G Remediation Project Management pointed out that TM 1 is still conditionally approved and is waiting for a decision by the regulatory agencies on analytical detection limits It had been determined last October that this issue was a program issue and not specific to OU 5 This issue relates to the Benchmark Tables this has been an outstanding issues since conditional approval of the TM on October 19 1992

There was some discussion on the ASCII baseflow data files that have been received by both the regulatory agencies The agencies are having difficulty reading the files Tim Steele Advanced Sciences Inc has been working with the data and has it in Lotus files A disk delivery will be provided to DOE EPA and CDH during the week of September 7 1993

Jeb Love CDH expressed concern on the accuracy of the current flow measurements as well as the timing impact of construction of the permanent flumes Mr Love was concerned that the construction activities would increase loading to the water quality of Woman Creek Greg Wetherbee responded that a few of the earlier flow measurements at two or three of the flumes might be off because the creek overflowed the flumes but that was the exception that it happens very infrequently and has a very small impact on the overall integrity of the data As for the loading into the stream from the installation of the permanent flumes increased loading is possible but this is something that will have to be acknowledged if flumes are to be installed

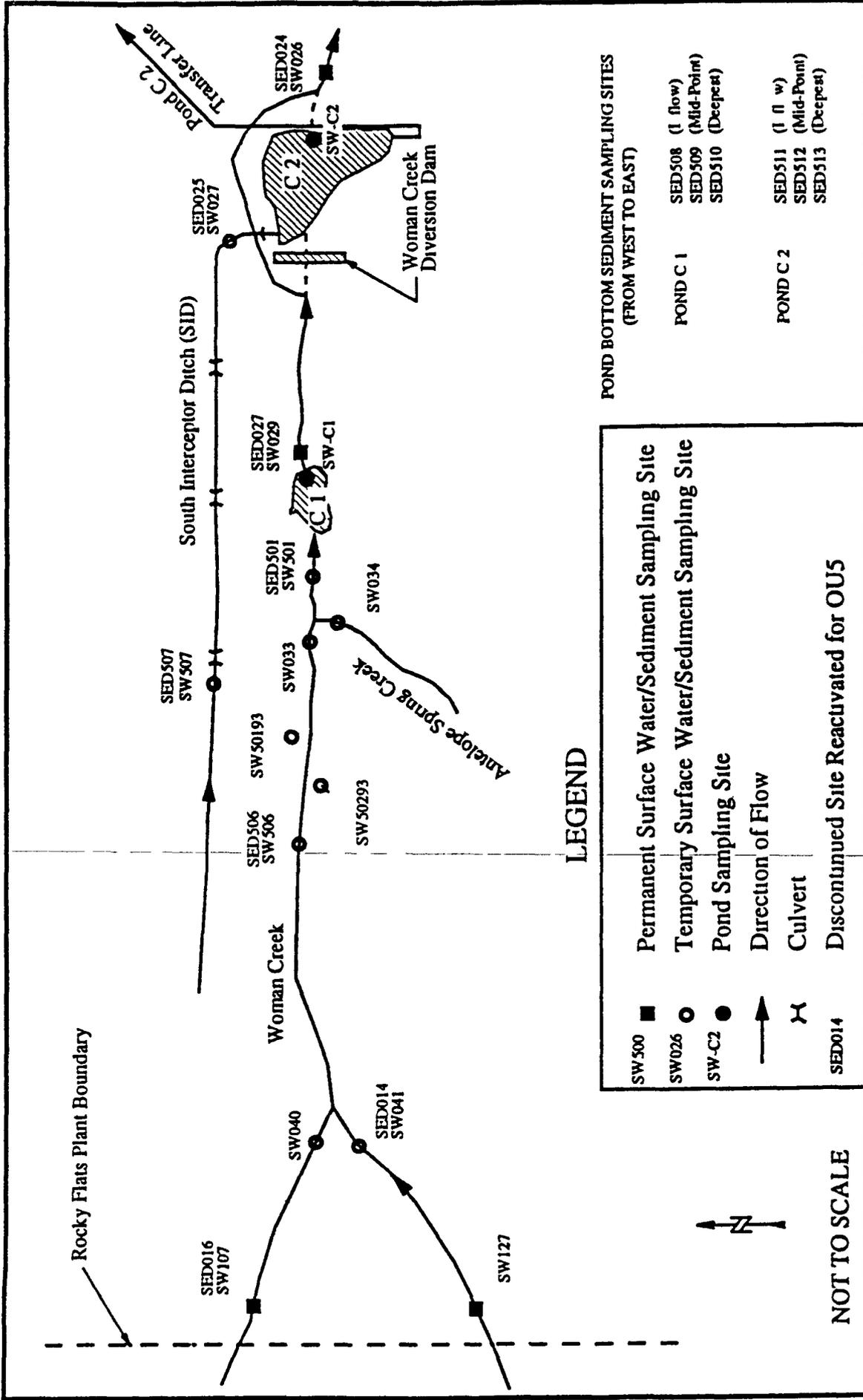
Mr Love requested the survey coordinates for the newly installed sampling location for the state GIS Greg Wetherbee will supply this information to Mr Love

Technical Memorandum No 1 will be changed to reflect the action agreed upon in this meeting and include

reduction in the number of storm event sampling sites and

using the graphite furnace method for lower analytical detection limits on selected metals

Attachment 2



LEGEND

| | |
|--------|--|
| SW 500 | Permanent Surface Water/Sediment Sampling Site |
| SW026 | Temporary Surface Water/Sediment Sampling Site |
| SW-C2 | Pond Sampling Site |
| → | Direction of Flow |
| X | Culvert |
| SED014 | Discontinued Site Reactivated for OU5 |

POND BOTTOM SEDIMENT SAMPLING SITES
(FROM WEST TO EAST)

| | | | |
|----------|-----------------|--------------------|------------------|
| POND C 1 | SED508 (I flow) | SED509 (Mid-Point) | SED510 (Deepest) |
| POND C 2 | SED511 (I fl w) | SED512 (Mid-Point) | SED513 (Deepest) |

NOT TO SCALE



FSP Related Surface Water Monitoring Sites
Woman Creek Drainage Basin



FILE: F03-REV1.DRW

ROCKY FLATS PLANT OU 5 RFI/RI
WOMAN CREEK PRIORITY DRAINAGE

ASI Project No 9208.15

FIGURE 8

STATUS 04/06/93

Attachment 3

OU5SAMP XLS

| W m C | kSt | mw | S | mpl | N | S | S d | T t P | U,Am | T t M t t | D i | M t t | A i | P m t | P u U Am | S lld | T r t l m | G r o | T t P | L b l r y |
|-------|--------|----|------|-----------|---|---|-----|-------|------|-----------|-----|-------|-----|-------|----------|-------|-----------|-------|-------|-----------|
| GS05 | 821005 | T | 2207 | SW01370ST | | | | X | | X | | | X | X | | | | | X | Off Sit |
| GS05 | 821025 | T | 2011 | SW01363ST | | | | X | | X | | | X | X | | | | | X | Off Sit |
| GS07 | 821025 | T | 2100 | SW01401ST | | | | X | | X | | | X | X | | | | | X | Off Sit |
| GS15 | 821026 | T | 1142 | SW01413ST | | | | X | | X | | | X | X | | | | | X | Off Sit |
| GS05 | 830413 | | 1200 | SW50030JE | X | | | | | | | | | | | | | | | Off Sit |
| GS01 | 930413 | | 2000 | SW50024JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS02 | 930413 | | 1800 | SW50025JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS07 | 930413 | | 2231 | SW50027JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS05 | 930424 | | 1446 | SW70014JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS16 | 930424 | | 1245 | SW70015JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS17 | 930424 | | 1346 | SW70016JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS05 | 930507 | | 1908 | SW70026JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS05 | 930515 | | 2042 | SW70032JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS05 | 930517 | | 1210 | SW70033JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS06 | 930517 | | 1353 | SW70034JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS16 | 930517 | | 1345 | SW70038JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS18 | 930517 | | 1454 | SW70039JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS16 | 930617 | | 800 | SW70053JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS16 | 930617 | | 2000 | SW70059JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS17 | 930617 | | 1705 | SW70056JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS18 | 930617 | | 1800 | SW70058JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS14 | 930618 | | 400 | SW70060JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS17 | 930618 | | 1745 | SW70063JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS08 | 930618 | | 1556 | SW70065JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS02 | 930618 | | 1256 | SW70066JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |
| GS05 | 930714 | | 32 | SW70084JE | | | | X | | X | | | X | X | X | | X | | | RFP 881 |

NOTES A lo F,Cl,S04, NO2/NO3 P m t ISS,IDS, CONDUCTIVITY, pH, ALKALINITY