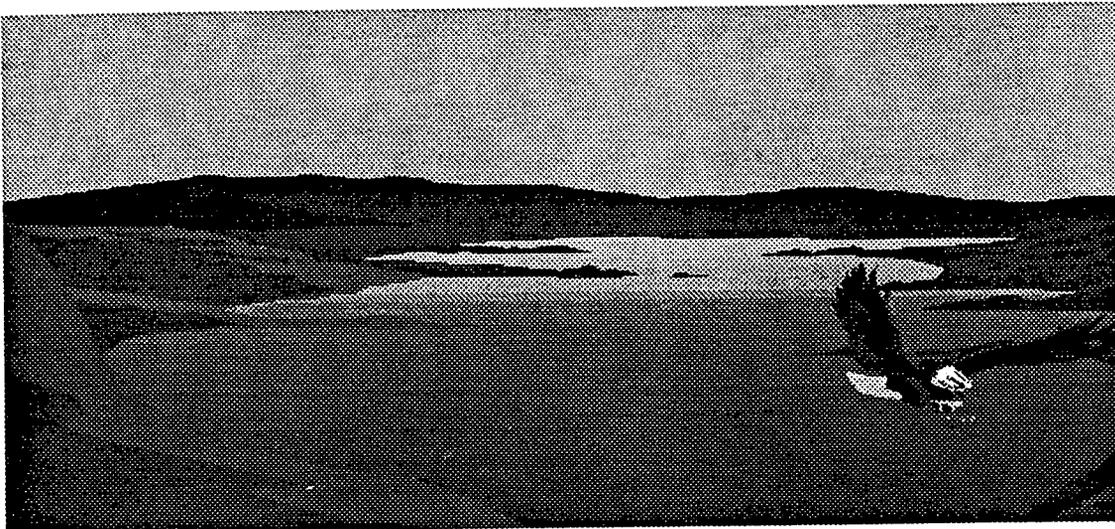


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ENVIRONMENTAL RESTORATION SERVICES

Monthly Report For
January, 1991



February 20, 1991

 **EG&B ROCKY FLATS**

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EG&G ROCKY FLATS PLANT
ENVIRONMENTAL RESTORATION

MONTHLY REPORT FOR
JANUARY 1991

INTRODUCTION

This Monthly Status Report presents the technical achievements of the Rocky Flats Environmental Restoration Program for January, 1991. This Program implements the Interagency Agreement between the U.S. Department of Energy, the U.S. Environmental Protection Agency, and the State of Colorado to investigate, assess, and remediate, where required, contaminated areas at or adjacent to DOE's Rocky Flats Plant in Golden, Colorado. This Agreement was signed on January 22, 1991. The work is being performed for DOE by EG&G Rocky Flats, Inc.

Section I of the report, the Executive Summary, highlights significant achievements, and summarizes the milestones completed during January. It also presents any major unresolved issues of the program. Technical progress, schedule status, and milestone status for each operable unit, and other program activities are presented in Section II. Operable units in which no FY91 activity is planned are not included. Section III contains the schedules for routine environmental sampling as required by paragraph 210 of the Interagency Agreement.

I. EXECUTIVE SUMMARY

A. ACTIVITY AND MILESTONE STATUS

Technical Achievements

The Interagency Agreement (IAG) was signed by DOE, EPA, and the Colorado Department of Health on January 22, 1991. By entering into this Agreement, the DOE and the regulatory agencies ensure that environmental impacts associated with activities at the RFP will continue to be thoroughly investigated and that appropriate response action is taken to protect public health and the environment. This Agreement also establishes a procedural framework and schedule for developing, implementing, and monitoring response and clean-up actions in accordance with CERCLA, RCRA, and CHWA.

The Responsiveness Summary for the OU2 - 903 Pad Surface Water IRAP was finalized, and conditional approval was received from EPA/CDH.

The Annual Report, in response to the Settlement Agreement for the OU3 - Offsite Lands, was submitted to Jefferson County in January. This report discusses completing remediation and revegetation efforts on the settlement lands. Activities include weed control, reseeding, and mulching.

The subcontracts for preparing the Quality Assurance Project Plan (QAPP) and the Standard Operating Procedures (SOP) were approved by DOE on January 24, 1991. Resolution of issues and incorporation of comments are in progress. A revised milestone date of March 1, 1991 has been requested for submittal of the final QAPP and SOP documents.

The final Community Relations Plan (CRP) incorporating EPA and CDH comments was completed and submitted to the agencies on the milestone date of January 22, 1991. The CRP will undergo a public comment period in February and March.

Problems

The March 6, 1991 milestone date to begin fieldwork per the OU1 - 881 Hillside RI Plan is in jeopardy. Revised security procedures and recent changes in the procurement policies which have affected construction of a temporary decontamination pad have contributed to this delay.

Construction of the OU1 - 881 Hillside Phase I-B Treatment Building is

experiencing delays due to the revised security procedures and the requirement that all uncleared contractors be escorted by RFP personnel. The extent of these delays is being evaluated by RFO. Design of the Phase II-B Diversion Structure is continuing on schedule.

The OU2 - 903 Pad Phase II RFI/RI alluvial field work, originally scheduled to begin on February 5, will be delayed until mid-April. This delay is a result of increased security requirements relative to the Desert Storm Operations and revised DOE procurement procedures. Completion of a Temporary Decontamination Pad is also required before initiation of the fieldwork.

The remediation and revegetation efforts required by the OU3 - Offsite Lands Settlement Agreement may be in conflict with CERCLA. DOE and the regulatory agencies will meet to discuss this concern.

Extensive comments were received from EPA/CDH on the draft Plan for the Prevention of Contaminant Dispersion. Many of these comments are considered out-of-scope and will be further discussed with the agencies. Incorporation of these additional requests may jeopardize the February 21 milestone for submittal of the final plan.

The February 25, 1991 milestone date for submittal of the Final Sitewide Treatability Study Plan has been impacted by recent revisions to the DOE procurement policy and the large number of substantive comments from the regulatory agencies. EG&G and DOE are evaluating the impact and will meet with EPA/CDH early in February to resolve the issue.

B. IAG MILESTONES - JANUARY AND FEBRUARY

<u>OU#</u>	<u>Milestone Description</u>	<u>Scheduled</u>	<u>Actual</u>
SW*	Submit Final Community Relations Plan	22 Jan 91	22 Jan 91
OU1	Submit IM/IRA Implementation Document	22 Feb 91	
OU2	Begin Phase II RI Fieldwork (Alluvial)	05 Feb 91	**
OU2	Submit Draft Phase II RFI/RI Workplan (Bedrock)	05 Feb 91	
OU2	IRA Field Treatability Unit: Ready for Construction	08 Feb 91	**
SW	Submit draft Plan for Prevention of Contaminant Dispersion	21 Feb 91	
SW	Submit Final Sitewide Treatability Study Plan	25 Feb 91	
SW	Submit Final Quality Assurance Project Plan	1 Mar 91***	
SW	Submit Final Standard Operating Procedures	1 Mar 91***	

* Sitewide

** Will be rescheduled when procurement and security issues are resolved.

*** Requested revised date

C. PROGRAMMATIC ISSUES

IAG Status

The IAG was signed on January 22, 1991.

Increased Security Requirements

Increased security concerns at all government facilities, as a result of the Desert Storm activities, require that all uncleared contractors be escorted at RFP. This requirement is causing a severe impact on all ER field work and construction activities. If the restrictions continue, all milestones for field work and construction will be delayed.

II. PROJECT STATUS

OU 1 - 881 Hillside Area

DESCRIPTION: The soil and ground water at the 881 Hillside Area, Operable Unit 1 (OU1), located north of Woman Creek in the southeast section of RFP, were contaminated in the 1960s and 1970s with solvents and radionuclides. The various waste management sites that comprise OU1 are being investigated and treated as high priority sites because of elevated concentrations of organic compounds in the ground water and proximity of the contamination to a drainage system leading to a municipal drinking water supply. The selected Interim Remedial Action (IRA) at OU1 involves construction of an underground drainage system (french drain) which will intercept and contain contaminated ground water flowing from the OU1 area. The contaminated water will be treated and released back into the interceptor trench alongside Woman Creek.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submit Draft Proposed IM/IRA Decision Document	18 Sep 89
Submit Proposed IM/IRA Decision Document	06 Oct 89
Submit Final IM/IRA Decision Document	05 Jan 90
DOE Issues Final Decision	10 Jan 90
Begin Phase I-A IM/IRA Construction	15 Jan 90
Restart Phase I-A Const. after shutdown	28 Jun 90
Submit Draft Phase III RFI/RI Workplan	06 Feb 90
Begin Phase I-B IM/IRA Construction (ahead of schedule)	28 Sep 90
Submit Final Phase III RFI/RI Workplan	30 Oct 90

JANUARY WORK ACTIVITY STATUS:

Design activities for the Phase II-B diversion structure continued through January.

Procurement activities for the Phase II-A effluent storage tanks and the Phase II-A ion exchange system continued through January.

Phase I-B IM/IRA construction of the treatment building and influent tank foundation continued through January.

Preparation of the Construction Contract Package for the Phase II-A Treatment System began in January and is experiencing a one month schedule slip due to revised security procedures. This activity was originally scheduled for completion in April, 1991.

Annual groundwater monitoring activities are continuing and will occur through the duration of the project.

PLANNED WORK FOR FEBRUARY:

Design activities for the Phase II-B diversion structure will continue into February. These activities are on schedule for a February 22, 1991 completion.

The procurement package for the Phase II-A Effluent Storage Tanks will be released for bids in mid-February. Bids will be opened in mid-March.

Bid proposals for the Phase II-A Ion Exchange System will be evaluated in early February. It is anticipated that, if a bid is found acceptable, the May 31, 1991 completion date will be met.

Phase I-B IM/IRA construction of the treatment building and influent tank foundation will also continue through February.

PROBLEMS:

Construction of the OU1 - 881 Hillside Phase I-B Treatment Building is experiencing delays due to the revised security procedures and the requirement that all uncleared contractors be escorted by RFP personnel. The extent of these delays is being evaluated by RFO.

The March 6, 1991 milestone date to begin RI fieldwork has been adversely affected by recent changes in procurement policy which has also affected the construction on a temporary decontamination pad. A temporary decontamination pad is required to be operational prior to initiation of fieldwork activities. Fieldwork will be rescheduled.

OPEN ITEMS: None

OU 2 - 903 Pad, Mound, and East Trenches

DESCRIPTION: The contamination at the 903 Pad and Mound areas is largely attributed to the storage in the 1950s and 1960s of waste drums that corroded over time, allowing hazardous and radioactive materials to leak into the surrounding soil. Additional contamination may have resulted from wind dispersion during removal and soil movement activities. The East Trenches Area was used for the disposal of plutonium- and uranium-contaminated waste and sanitary sewage sludge from 1954 to 1968. Two areas adjacent to the trenches were used for spray irrigation of sewage treatment plant effluent, some of which may have contaminants that were not removed by the treatment system.

The IM/IRA Plan provides for surface water in source areas of contamination to be treated and discharged to the surface water system. DOE expects to start up a field-scale treatability unit in 1991. The effectiveness of the treatment process will be evaluated at three points: at the entrance to the treatment facility, at several points within the facility, and at the discharge point. After completion of the field-scale treatability tests, the unit is anticipated to remain in service for about six years, by which time the final remedial action is expected to be in service.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: EG&G has proposed that the Interim Remedial Action activities for OU2 will be split into two separate projects. Revised draft schedules will be submitted to EPA for comments in February, 1991, for the South Walnut Creek and Woman Creek projects.

MILESTONE ACCOMPLISHMENTS:

Submit Draft Phase II RFI/RI Workplan (Alluvial)	21 Dec 89
Submit Final Phase II RFI/RI Workplan (Alluvial)	12 Apr 90
Submit Proposed Plan IM/IRA Decision Document	06 Oct 90
Submit Responsiveness Summary and Finalize IRAP/EA	13 Dec 90

JANUARY WORK ACTIVITY STATUS:

The Surface Water IRAP Responsiveness Summary was finalized and conditional approval has been received from EPA/CDH.

Status on the Interim Remedial Action will be updated after the revised schedules are discussed with EPA/CDH.

Agency comments on the draft RFI/RI Plan (Bedrock) have been incorporated and the draft plan is on schedule to be submitted to EPA/CDH on the February 5, 1991 milestone date.

PLANNED WORK FOR FEBRUARY:

Procurement activities associated with the IRA will continue through February.

PROBLEMS:

Phase II RFI/RI alluvial field work, originally scheduled to begin on February 5, will be delayed until late April. This delay is a result of increased security requirements and revised procurement procedures. Completion of a Temporary Decontamination Pad is also required before initiation of the fieldwork. This construction activity has not yet been started because of delays caused by revised procurement procedures.

OPEN ITEMS: None

OU 3 - Offsite Areas

DESCRIPTION: OU3 can be divided into two categories based on the two drivers of the activities. The Interagency Agreement (IAG) directs activities according to CERCLA and NEPA. This involves assessment of released contamination to offsite areas: Contamination of the Land Surface (SWMU 199), Great Western Reservoir (SWMU 200), Stanley Lake (SWMU 201) and Mower Reservoir (SWMU 202). The second category responds to a 1985 out-of-court Lawsuit Settlement, McKay vs. U.S., which directed that the surface soil contamination be remediated. Remediation activities began in 1985. The disturbance resulting from remediation is being revegetated as directed by the Settlement Agreement. The overall schedule for this activity is determined by the year-to-year success of the revegetation effort and requirements of the land owners.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submit Draft Past Remedy Report	21 Dec 89
Submit Draft Historical Information/ Preliminary Health Risk Assessment Report	09 Nov 90

JANUARY WORK ACTIVITY STATUS:

The EPA/CDH review of the SWMU 199 draft Past Remedy Report and the draft Historical Information/Preliminary Health Risk Assessment Report continued through January.

Preparation of procurement documentation for the Phase I Remedial Investigation (RI) Plan continued through January.

The Annual Report to Jefferson County, in response to the Settlement Agreement, was submitted in January. This report discusses completing remediation and revegetation efforts on the settlement lands. Activities include weed control, reseeding, and mulching.

PLANNED WORK FOR FEBRUARY:

EPA/CDH review of the SWMU 199 draft Past Remedy Report and the draft Historical Information and Health Risk Assessment Report is on

schedule for completion in February.

Preparation of procurement documentation for the Phase I RI Plan is continuing. This activity was scheduled to be completed in December. The technical evaluation of the subcontractor's proposal is complete. Negotiations are pending DOE approval of the subcontractor. If further delays are experienced because the procurement issues are not resolved, the May milestone will be in jeopardy.

PROBLEMS:

The remediation and revegetation efforts required by the Settlement Agreement may be in conflict with CERCLA. DOE and the regulatory agencies will meet to discuss this concern.

OPEN ITEMS: None

OU 4 - Solar Ponds Assessment

DESCRIPTION: Five evaporation ponds were used for the storage of low level radioactive process waste, sanitary treatment plant effluent, and contaminated groundwater collected downgradient of the ponds. The ponds are RCRA interim status regulated units that are currently under closure. Leakage from the ponds has contaminated soils and groundwater with various contaminants, including heavy metals and uranium.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submit Draft Phase I RFI/RI Workplan

08 Jun 90

JANUARY WORK ACTIVITY STATUS:

EPA/CDH will begin the review of the Draft Phase I RFI/RI Work Plan (IM) on July 3, 1991, and will finish on September 30, 1991. The time lag between the submittal date and the scheduled review period is a result of the reprioritization of Operable Units which occurred in June 1990.

PLANNED WORK FOR FEBRUARY:

No scheduled activities.

PROBLEMS: None

OPEN ITEMS: None

OU 5 - Woman Creek

DESCRIPTION: This activity encompasses the assessment and remediation at the Woman Creek Drainage, to include: Original Landfill; Ash Pits 1-4, Incinerator, and Concrete Wash Pad; Retention Ponds C-1 and C-2; and the surface disturbance southeast of Building 881.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

The first IAG milestone is scheduled for April 1991.

JANUARY WORK ACTIVITY STATUS:

Preparation of the preliminary Draft Phase I RI Plan continued through January.

PLANNED WORK FOR FEBRUARY:

Preparation of the preliminary Draft Phase I RI Plan is on schedule for a February completion.

PROBLEMS: None

OPEN ITEMS: None

OU 6 - Walnut Creek

DESCRIPTION: This activity encompasses assessment and remediation at the Walnut Creek Drainage, to include: Sludge Dispersal; Retention Ponds A-1, A-2, A-3, A-4, A-5, B-1, B-2, B-3, B-4, B-5; Old Outfall; Triangle Area; Trenches A, B, and C; North, East, South, and Pond Spray Field Areas.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

The first IAG milestone is scheduled for April 1991.

JANUARY WORK ACTIVITY STATUS:

Preparation of the preliminary Draft Phase I RI Workplan continued through January.

PLANNED WORK FOR FEBRUARY:

Preparation of the preliminary Draft Phase I RI Workplan is on schedule for a February completion.

PROBLEMS: None

OPEN ITEMS: None

OU 7 - Present Landfill Assessment

DESCRIPTION: The Present Landfill began operation in 1968. The landfill provided a means of disposing nonradioactive and nonhazardous solid waste. In accepting solid waste from the plant, some of the waste inadvertently contained hazardous waste and/or hazardous constituents. Although currently operating as a nonhazardous sanitary landfill, the facility is considered an inactive hazardous waste disposal unit.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submittal of Draft Phase I RFI/RI Work Plan

08 Jun 90

JANUARY WORK ACTIVITY STATUS:

No activities are scheduled until the EPA/CDH review of the work plan is completed in July 1991. EPA has provided EG&G with preliminary comments on the RFI/RI Work Plan.

PLANNED WORK FOR FEBRUARY:

A modification for the OU7 RFI/RI Workplan will be initiated.

PROBLEMS: None

OPEN ITEMS: None

OU 8 - 700 Area

DESCRIPTION: This activity involves assessment of the 700 Area, which includes the following several Solid Waste Management Units. These units include multiple solvent spills, a valve vault west of Building 707, several liquid waste storage tanks, several cooling tower blowdown facilities, and numerous potential chemical and/or process waste leaks.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

The first milestone for this activity is scheduled for September 1992.

JANUARY WORK ACTIVITY STATUS:

No activities are scheduled until October 1991. However, the Draft RFI Workplan was submitted to EG&G by the contractor. EG&G will begin review of this document in October 1991.

PLANNED WORK FOR FEBRUARY:

No activity is planned.

PROBLEMS: None

OPEN ITEMS: None

OU 9 - Original Process Waste Lines

DESCRIPTION: This activity involves characterizing a series of tanks and associated process waste lines. The system was constructed to transport and temporarily store aqueous process wastes. An interim status closure plan was submitted to CDH in November 1986 and October 1988. Soil characterization studies will determine the need for soil removal and/or treatment. The subsequent EPA/CDH review of the Work Plan has been rescheduled to July 1991 due to the reprioritization of IAG activities in June 1990.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submit Draft Phase I RFI/RI Work Plan	08 Jun 90
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JANUARY WORK ACTIVITY STATUS:

No activities are scheduled until July 1991, when EPA/CDH will begin review of the draft RFI/RI work plan.

PLANNED WORK FOR FEBRUARY:

No activity is planned.

PROBLEMS: None

OPEN ITEMS: None

OU 10 - Other Outside Closures

DESCRIPTION: An RFI/RI Work Plan is currently in the preparation stages. Operable Unit 10 consists of 13 SWMUs consisting of various hazardous waste units. The primary components of the RFI/RI Work Plan for OU 10 will be a field sampling plan (FSP), baseline risk assessment plan (BRAP), and an environmental evaluation (EE) Work Plan.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

This first milestone for this activity is scheduled for November 1991.

JANUARY WORK ACTIVITY STATUS:

EG&G will issue the Draft RFI/RI Workplan for internal review in October 1991.

PLANNED WORK FOR FEBRUARY:

The environmental evaluation (EE) workplan for OU10, which will be incorporated into the RFI/RI Workplan, is expected to be initiated in February or March.

PROBLEMS: None

OPEN ITEMS: None

OU 11 - West Spray Field

DESCRIPTION: The West Spray Field is located within Rocky Flats property boundary just west of the plant security area. The West Spray Field was in operation from April 1982 to October 1985. During operation, excess liquids from the solar evaporation ponds 207-B North and Center (contaminated groundwater in the vicinity of the ponds and treated sanitary sewage effluent) were pumped periodically to the West Spray Field for spray application. The spray field boundary covers an area of approximately 105.1 acres, 38.8 of which received direct application of hazardous waste.

A Closure Plan for the West Spray Field was submitted to CDH in November 1986 and resubmitted September 1, 1988. The RFI process will entail field studies to determine the presence and level of hazardous constituents in the soils and groundwater.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submit Draft Phase I RFI/RI Work Plan

08 Jun 90

JANUARY WORK ACTIVITY STATUS:

No activities are scheduled until July 1991 when EPA/CDH will begin review of the draft RFI Work Plan. The time lag between submittal of the work plan and EPA/CDH review is a result of the reprioritization of IAG activities in June 1990.

PLANNED WORK FOR FEBRUARY:

No activity is planned.

PROBLEMS: None

OPEN ITEMS: None

SITEWIDE ACTIVITIES

DESCRIPTION: The sitewide programs assessment includes several tasks which encompass a wide variety of plans, procedures, reports, studies and other activities required by the IAG that apply to the Rocky Flats Plant (RFP) in general.

SCOPE OF WORK CHANGES: None

TECHNICAL APPROACH CHANGES: None

MILESTONE ACCOMPLISHMENTS:

Submit Draft Background Study Report (Water)	15 Dec 89
Submit Draft Background Study Report (Soils)	15 Dec 89
Installation of Additional Groundwater Monitoring Wells Complete	22 Dec 89
Submit Draft Community Survey Plan	23 Jan 90
Annual Groundwater Monitoring Report	28 Feb 90
Submit Final Community Survey Plan	22 Mar 90
Submit Draft Health and Safety Plan	15 Aug 90
Submit Draft Quality Assurance Project Plan	29 Aug 90
Submit Draft Standard Operating Procedures	30 Aug 90
Submit Draft Plan for Prevention of Contaminant Dispersion	19 Sep 90
Submit Draft Treatability Study Plan	21 Sep 90
Submit Draft Community Relations Plan	01 Nov 90
Submit Final Health and Safety Plan	12 Nov 90
Submit Revised Background Study Report	21 Dec 90
Submit Final Community Relations Plan	22 Jan 91

JANUARY WORK ACTIVITY STATUS:

The Final Community Relations Plan (CRP) was submitted to the agencies on the January 22, 1991 milestone date. A 60-day public comment period began January 30, 1991.

Preparation of procurement documentation for the Historical Release Report (HRR) was scheduled to be completed November 13, 1991. Proposals from two solicited subcontractors have been evaluated and determined unacceptable, thus creating scheduling delays. Another proposal has been received and will be evaluated in February.

The EPA/CDH comments on the draft plan for the Prevention of Contaminant Dispersion (PPCD) were received on December 22, 1990. The majority of comments requested activities which are out-of-scope. DOE/EG&G has met with EPA/CDH to discuss a revised technical approach to the PPCD.

Preparation of the Radionuclides Discharge Limits Plan (RDLP) began in December and is on schedule for submittal on the March 18, 1991 milestone date.

Resolution of issues on the Quality Assurance Project Plan (QAPP) and the Standard Operating Procedures (SOP) continued to be delayed due to the revised DOE procurement policy. The subcontractor performing these services was approved by DOE on January 24, 1991 and a request for a revised completion date of March 1, 1991 has been submitted to EPA/CDH by DOE.

EPA/CDH review of the Treatability Study Plan (TSP) was completed on December 20, 1990. The February 25, 1991 submittal date for the final plan is being impacted by agency comments as well as by the revised DOE procurement policy which is delaying award of a contract modification to complete the work. EG&G and DOE evaluated this impact and plan to meet with EPA/CDH in early February to resolve the issue.

Annual groundwater monitoring activities are continuing and will occur throughout the duration of the project.

PLANNED WORK FOR FEBRUARY:

A public meeting on the Rocky Flats Community Relations Plan (CRP) will be hosted by DOE on Thursday, February 21. This is the first of two public meetings planned for the plan. The second public meeting is scheduled for March 13, 1991.

Evaluations of a new proposal for preparation of the Historical Release Report (HRR) will continue into February. It is anticipated that a contract will be signed in mid-February and work on the HRR will begin immediately. This delay is not expected to impact the scheduled completion milestone date of January 8, 1992 for submittal of the Draft HRR.

Technical discussions will continue between EG&G/DOE and EPA/CDH to discuss the scope of work for the Plan for the Prevention of

Contaminant Dispersion (PPCD). A revised schedule will be issued once a final determination of the approach has been made.

Preparation of the draft Radionuclide Discharge Limits Plan (RDLP) will continue through February.

Resolution of issues on the Quality Assurance Project Plan (QAPP) and the Standard Operating Procedures (SOP) will continue and comments will be incorporated. Submittal of the Final QAPP and SOP documents are on schedule for the revised completion date of March 1, 1991.

EG&G/DOE will meet with the EPA/CDH in early February to resolve the numerous issues associated with the Treatability Study Plan (TSP), discuss revisions to the scope of work, and revise milestone dates for the deliverables.

PROBLEMS:

The February 25, 1991 milestone date for submittal of the Final Treatability Study Plan has been impacted by recent revisions to the DOE procurement policy and the large number of substantive comments from the regulatory agencies. EG&G and DOE are evaluating the impact and will meet with EPA/CDH early in February.

OPEN ITEMS:

None

III. ROUTINE ENVIRONMENTAL MONITORING

The following generalized sampling schedule for Routine Environmental Monitoring is provided as requested in Section 210 of the IAG. The EPA and the State may contact EG&G to arrange for an EPA- or State-authorized representative to observe field work and to take split or duplicate samples. Field teams are continually taking these samples and a further breakdown of the sample schedule would not be productive.

SURFACE WATER AND SEDIMENTS:

Each of the Surface Water Stations (approximately 120 stations) are sampled monthly.

Each of the Sediment Stations (approximately 40 stations) are sampled quarterly.

Each Surface Water and Sediment sample is analyzed for the following parameters:

CLP TCL VOAs	Major Anions
CLP TAL Metals	Radionuclides
plus Cesium	Indicator Parameters
Lithium	Field Parameters
Molybdenum	pH
Strontium	Temperature
Tin	Specific Conductivity
	Dissolved Oxygen (DO)

SOILS:

Each of the Soil Stations (located at 1 and 2 mile radii from the plant center) are sampled annually.

Each soil sample is analyzed for plutonium and americium.

GROUNDWATER:

Each of the Groundwater Stations (approximately 346) are sampled quarterly; this includes 187 alluvial wells, 103 bedrock wells, and 56 pre-1986 wells. Approximately 116 of the wells are monitored monthly for water levels.

Each Groundwater sample is analyzed for the following parameters:

Radiochemical Parameters

Gross Alpha
Gross Beta
Tritium
Uranium
Plutonium
Americium
Strontium
Cesium

CLP TCL VOAs

CLP TAL Metals

Inorganic Parameters

Nitrate/Nitrite
Total Phosphorous
Ortho-Phosphate
Ammonia