

Hanford Natural Resource Trustee Council Technical Assistance

0076397

COST ACCOUNT PLAN

KEY PROJECT TEAM MEMBERS

ERC Project Manager: TBD
Task Lead (CAM): HNRTC
RL: Steve Wisness
Project Engineer: TBD
Field Support: TBD
S&H: TBD
Project Controls: TBD
Other: TBD



WORK DESCRIPTION (Provide general work description)

General Description:

This cost account covers the work to be performed by the Hanford Natural Resource Trustee Council (HNRTC) to provide technical assistance for Ecological Risk Assessments, to provide input on studies required for ecological risk assessment and injury assessment, to plan and identify opportunities to integrate studies, to conduct identified studies, and to establish and maintain a Hanford Natural Resource Trustee Administrative Record. There are seven trustee organizations coordinating and participating in this work scope -- two States, three Native American tribes, and two Federal Agencies other than the US DOE.

Task to be Performed in FY-2005

- TASK 1A - Provide Technical Assistance for Ecological Risk Assessments
- TASK 1B - Develop HNRTC Study matrix-bibliography crosswalk
- TASK 1C - Ecological Risk Assessment and Injury Assessment Integration
- TASK 1D - Establish and Maintain Trustee Administrative Record

Task to be Performed in FY-2006

- TASK 1A - Provide Technical Assistance for Ecological Risk Assessments
- TASK 1B - Complete HNRTC Study matrix-bibliography crosswalk
- TASK 1C - Ecological Risk Assessment and Injury Assessment Integration
- TASK 1D - Maintain Trustee Administrative Record

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TASK 1A - Provide Technical Assistance for Ecological Risk Assessments

The Hanford Natural Resource Trustees will provide technical assistance to DOE-RL for the development of Ecological Risk Assessments. This task is integrated with other tasks to develop a more comprehensive view of the long-term impacts to the Hanford site by historical DOE operations and ongoing remedial actions under the Tri Party Agreement.

Planning Basis for FY-2005

River Corridor Baseline Risk Assessment (RCBRA) Columbia River Component Work Plan

- Jan to May 2005 Review of Individual Sections
- Jun to Aug 2005 Review Draft A

RCBRA Columbia River Component DQO

- Jan, 2005 Trustee Interview
- Feb, 2005 Matrix Workshop
- Feb, 2005 Conceptual Model Workshop
- Mar, 2005 Workshop #2
- Mar, 2005 Workshop #3
- Mar, 2005 Draft DQO Review

RCBRA Columbia River Component SAP

- Jun – Aug 2005 Review Draft SAP
- Sep 2005 Review Final SAP

RCBRA 100/300 Area Ecological Risk Assessment DQO

100 NR 2 Ecological Risk Assessment SAP

100 BC Pilot Area Ecological Risk Assessment

Central Plateau Ecological Risk Assessment (includes 200 Area)

Key Assumptions

- Scope is based on work levels described by DOE-RL in the RCBRA Columbia River Component Trustee Communication Plan.
- Scope and resources are transferable between projects, one FTE is ~175 hours per month.
- One FTE has approximate annual cost of \$100,000 fully burdened.
- All values are rounded.
- The 100/300-Area ERA (included in the RCBRA), including the 100 B/C pilot, and the 100 NR 2 ERA will require approximately twice the trustee resources as the RCBRA River Component tasks described.

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- The Central Plateau, 200-Area ERA, will require approximately the same amount of trustee resources as the RCBRA task described.
- Coordination with the 400, 600, and other areas will require approximately the same amount of trustee resources as the RCBRA task described.
- Funding for FY-05 is available in January 2005.
- FTE hours may be by direct or contract staff.
- Dollar cost hours may be for capital or subcontract purchases.
- DOE resources will be provided under a separate cost account.

Planning Basis for FY-2006

Tasks will focus on providing technical assistance to ongoing ecological risk assessments including River Corridor Baseline Risk Assessment (100 Area, and 300 Area and the Columbia River Component), and the Central Plateau (200 Area). Additional areas would require change order processing.

Task will include the scoping development and review of DQO products, sampling and analysis plans, study plans and conclusion documents, along with the review of existing studies and reports.

Key Assumptions

- The 100/300 Area RCBRA ERA, 100 B/C pilot, and the 100 NR 2 ERA will require approximately twice the trustee resources as the RCBRA Columbia River Component tasks described.
- The 200-Area, Central Plateau ERA will require approximately the same amount of trustee resources as the RCBRA task described.
- DOE-RL provides initial funds to trustees organizations by October 1, 2005.
- Scope and resources are transferable between projects, one FTE is ~175 hours per month.
- One FTE has approximate annual cost of \$100,000 fully burdened.
- All values are rounded.
- FTE hours may be by direct or contracted staff.
- Dollar cost hours may be for capital or subcontracted purchases.
- DOE resources will be provided under a separate cost account.

FY-05 Deliverables

- Review and critique of ERA documents.
- Participation in the ERA DQO process.

FY-06 Deliverables

- Review and critique of ERA documents.
- Participation in ERA DQO and SAP process.

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TASK 1B - Develop HNRTC Injury Study Matrix-Bibliography Crosswalk

To develop an understanding of the available information, the trustees will crosswalk the most recent version of the Injury Studies Matrix with the ecological studies bibliographies and ecological risk assessment proposals. This crosswalk will identify the portions of the Injury Studies Matrix that are unnecessary because the information has already been provided or will be provided by the ecological risk assessments. This task is integrated with other tasks to develop a more comprehensive view of the long-term impacts to the Hanford site by historical DOE operations and ongoing remedial actions under the Tri Party Agreement.

Planning Basis for FY-2005 and FY-2006

1. Acquire existing ecological bibliographies, studies, and other related information. This will include historical and current studies and datasets such as Hanford Environmental Information System (HEIS), Hanford Environmental Dose Reconstruction (HEDR), and databases compiled for the Columbia River Comprehensive Impact Assessment. (1040 hours)
2. Evaluate and categorize the ecological information obtained using a multidisciplinary team of experts. This analysis will screen, index, classify the existing information, individual studies, and data sets according to the topics indicated by the Injury Study Matrix. Topical classification will include biotic resources (fish, birds, mammals, plants), non-biotic media (surface water, soil, groundwater, air), contaminants covered (organic, inorganic, radio-nuclides), endpoints addressed, and geographic area. (8320 hours)
3. Evaluate the information that has been or is expected to be available as a result of the ongoing DOE ecological risk assessments. This evaluation will include the information from the River Corridor Baseline Risk Assessment and Central Plateau Risk Assessment efforts. (2080 hours)
4. Compare the information available from the ecological studies with the information that will be collected or that has been collected to support the ecological risk assessments. Evaluate the available information with respect to the matrix categories to identify data gaps. (1040 hours)
5. Use the gaps as a guide to determine portions of the Injury Studies Matrix that are unnecessary because the information has been otherwise determined or provided. (2080 hours)
6. Compile, quality assure and quality control the trustee information database. (8400 hours).

Key Assumptions

- DOE and contract staff will be available to help identify and discuss past studies should questions arise.
- DOE resources to participate in this effort will be provided under a separate cost account.
- In order to meet scheduled milestones, DOE provides funds by February 15, 2005.

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- This task will be conducted under existing NOAA contracts.
- Scope and resources are transferable between projects, one FTE is ~175 hours per month.
- One FTE has approximate annual cost of \$100,000 fully burdened.
- All values are rounded.

FY05 Deliverables

- Provide a completed matrix and initiate a related database for existing and planned studies in collaboration with DOE staff and contractors in FY05.
- Preliminary indication of data gaps for trustees to prioritize.
- This does not include completion of database, proposed for FY06.

FY-06 Deliverables

- Compile database (will require ongoing additions to maintain).
- Complete Injury Study Matrix bibliography crosswalk.
- List of data gaps (injury studies) for trustees to prioritize.

TASK 1C - Ecological Risk Assessment and Injury Assessment (IA) Integration

The Hanford Natural Resource Trustees will provide ERA and IA integration assistance to DOE-RL for the development of appropriate ecological risk assessment study plans. This task is integrated with other tasks to develop a more comprehensive view of the long-term impacts to the Hanford site by historical DOE operations and ongoing remedial actions under the Tri-Party Agreement.

Planning Basis for FY-2005 and FY-2006

- Detailed review of fundamental studies needed to assess injury to natural resources, for example: air emissions models, river sediment transport, COPEC screening. (Will review studies already conducted by DOE from an "injury" perspective and will recommend adjustments as necessary.)
- Review of HNRTC STUDIES MATRIX-BIBLIOGRAPHY CROSSWALK (see task 1B) to identify data gaps for risk and injury assessment.
- Review and critique will lead to the definition of workscope to be performed by DOE and their contractors and injury studies to be performed by trustee resources. See Task 2 for injury study estimates.
- Identification of key injury assessment studies required to fill data gaps.
- Coordination with ecological risk assessment review process to provide recommendations on how studies planned by DOE can be modified to collect needed injury assessment data.
- Scoping needs and developing an injury assessment plan.
- Development of specific work scopes for injury assessment studies.

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Key Assumptions

- DOE and contract staff will be available to discuss past studies should questions arise.
- DOE resources to participate in this effort will be provided under a separate cost account.
- Some sub-tasks will be subcontracted .
- One FTE is ~ 175 hours per month.
- All values are rounded.
- One FTE has approximate annual cost of \$100,000 fully burdened.
- DOE-RL submits budget placeholder for out-year work scope by February 7, 2005.
- DOE-RL provides initial funds to trustees organizations by February 15, 2005.
- Sampling will be opportunistic to support risk and injury assessment.
- Sampling for risk and injury to the same receptors will occur simultaneously when possible.
- Investigation derived waste management tasks will be performed by DOE.
- DOE will coordinate use of government owned equipment to support field actions.
- DOE will coordinate sample shipping tasks, such as sample screening for offsite shipment, if required.
- All post-sample analysis materials will be considered suitable for disposal in ERDF.
- Sampling and analysis will provide independent verification of DOE specific sampling.

Deliverables

- Injury assessment plan.
- Recommendations for changes or additions to fundamental studies (for example, sediment dynamics or air deposition evaluations).
- Identification of priority data gaps for risk and injury purposes.
- Comments/recommendations for adjusting risk studies to incorporate injury endpoints.
- Work scopes for specific injury studies.

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TASK 1D - Establish and Maintain Trustee Administrative Record

To develop a basis for future decision making the non-RP Hanford natural Resource Trustees will establish an administrative record to contain information and data relevant for future decision making. To effectively operate the non-RP trustees require a minimal amount of administrative support to coordinate meetings, develop minutes and provide consistent communications.

Planning Basis

- Identify needs.
- Develop the trustee administrative record.
- Scan and enter documents into the trustee administrative record.
- Provide regular updates of documents added to administrative record.
- Acquire necessary hardware, peripherals, and software to manage electronic portion of the trustee administrative record.
- Acquire necessary storage facilities and supplies to house the trustee administrative record.
- Staff will provide general administrative report to the trustee council (~0.2 FTE)

Key Assumptions

- DOE will provide both hard copies and electronic copies of requested documents.
- Existing resources for file maintenance and storage will be used to the extent possible.
- DOE resources to participate in this effort will be provided under a separate cost account.
- Scope and resources are transferable between projects, one FTE is ~175 hours per month.
- One FTE has approximate annual cost of \$100,000 fully burdened.
- All values are rounded.

Deliverables

- Meeting minutes and quarterly status reports.

Summary Cost Table

Task	FY-2005	FY-2006
Task 1A	\$840,000	\$735,000
Task 1B	\$735,000	\$745,000
Task 1C	\$726,250	\$726,250
Task 1D	\$74,375	\$105,000
TOTAL	\$2,375,625	\$2,311,250

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**Appendix
 Basis of Cost Estimates**

TASK 1A - Provide Technical Assistance for Ecological Risk Assessments

Summary of work scope requiring trustee focus and resources is on-going, including but not limited to

- River Corridor Baseline Risk Assessment – scaled as one week/month.
- 100/300 Area ERA, 100 BC Pilot, and 100 NR 2 ERA – scaled as two weeks/month. Known impacts, multiple sites, ongoing characterization and remedial work, numerous primary and secondary source areas, and ongoing interim measures.
- 200 Area ERA – scaled as one week/month. Focus on planning future field work and necessary supporting studies through the DQO or ERAGS process.
- Other Miscellaneous Actions – scaled at one week/month. Focus on the management of emerging issues and integration between the various projects (400 Area, 600 Area, R&D).
- Coordination of trustee resources will be the responsibility of the Hanford Natural Resource Trustee Council, estimated elsewhere.
- At minimum, quarterly presentations of results to the Hanford Natural Resource Trustee Council and other stakeholders will be made by technical staff as directed by the Hanford Natural Resource Trustee Council.

Task 1A - Resource Requirements FY-2005

Month	Resources	Comment
Jan	8 FTE	1400 hours
Feb	12 FTE	2100 hours
Mar	12 FTE	2100 hours
Apr	12 FTE	2100 hours
May	8 FTE	1400 hours
Jun	12 FTE	2100 hours
Jul	12 FTE	2100 hours
Aug	12 FTE	2100 hours
Sep	8 FTE	1400 hours
	Total	16,800 hrs ~ \$840,000

The summary estimate is five times the River Corridor Baseline Risk Assessment (RCBRA) (see below) to account for the other projects listed.

This estimate does not include

- Development of the FY-06 Scope statements and resource estimate.

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- Development of the annotated Injury Study Matrix/bibliography crosswalk. See task 1B.
- Any injury assessment specific work scope. See tasks 1C and 2.
- Coordination with out of scope tasks.

Estimate of resource needs for RCBRA Project Columbia River Component, used for scaling.

(Duration of activities is based on past projects with similar requirements and complexity)

Month	Trustee Resources	Total Hours
Jan	1.6 FTE Work Plan review	280 (40 hours per trustee)
Feb	2.4 FTE WP review/workshop	420 (60 hours per trustee)
Mar	2.4 FTE WP review/workshop	420
Apr	2.4 FTE WP review/DQO review	420
May	1.6 FTE WP review	280
Jun	2.4 FTE Draft A Rev/SAP rev	420
Jul	2.4 FTE Draft A Rev/SAP rev	420
Aug	2.4 FTE Draft A Rev/SAP rev	420
Sep	1.6 FTE Final SAP rev	280
	Total	3380 ~ \$169,000

The tabulated information above presents a rough estimation of the effort required to address ecological risk work scope in RCBRA Columbia River component and will be used to scale to the entire scope envisioned for this work package.

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Task 1A - Resource Requirements FY-2006

Month	Resources		Comment
	FTE	Dollar Cost	
Oct	7 FTE		1225 hrs
Nov	7 FTE		1225 hrs
Dec	7 FTE		1225 hrs
Jan	7 FTE		1225 hrs
Feb	7 FTE	5000	1225 hrs
Mar	7 FTE	17500	1225 hrs
Apr	7 FTE	17500	1225 hrs
May	7 FTE	35000	1225 hrs
Jun	7 FTE	70000	1225 hrs
Jul	7 FTE	70000	1225 hrs
Aug	7 FTE	35000	1225 hrs
Sep	7 FTE	17500	1225 hrs
	Total (Additional direct sampling costs)		14700hrs ~ \$735,000 (Dollar Costs) \$267,500

This estimate is for all risk assessment components and is based on FY05 estimates for the RCBRA Columbia River component and trustee communications plan schedule.

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TASK 1B - Develop HNRTC Injury Study Matrix-bibliography crosswalk

Scope Statements

- (1B1) Acquire existing ecological bibliographies, studies, and other related information. This will include historical and current studies and datasets such as HEIS, HEDR, and databases compiled for the Columbia River Comprehensive Impact Assessment. (1040 hours)
- (1B2) Evaluate and categorize the ecological information obtained using a multidisciplinary team of experts. This analysis will screen, index, classify the existing information, individual studies, and data sets according to the topics indicated by the Injury Study Matrix. Topical classification will include biotic resources (fish, birds, mammals, plants), non-biotic media (surface water, soil, groundwater, air), contaminants covered (organic, inorganic, radio-nuclides), endpoints evaluated, and geographic area. (8320 hours)
- (1B3) Evaluate the information that has been or is expected to be available as a result of the ongoing DOE ecological risk assessments. This evaluation will integrate the information from the River Corridor Baseline Risk Assessment and Central Plateau Risk Assessment efforts. (2080 hours)
- (1B4) Compare the information available from the ecological studies with the information that will be collected or that has been collected to support the ecological risk assessments. Evaluate the available information with respect to the matrix categories to identify data gaps. (1040 hours)
- (1B5) Use the data gaps as a guide to determine portions of the Injury Study Matrix that are unnecessary because the information has been otherwise determined or provided. (2080 hours)
- (1B6) In FY 2006, continue with the above activities and develop a supporting database.

Resource Requirements

(Duration of activities is based on past projects with similar requirements and complexity)

Task	FY-2005	FY-2006
Task 1B1	1100	600
Task 1B2	8400	2100
Task 1B3	2100	1100
Task 1B4	1100	600
Task 1B5	2100	2100
Compile & QA Database	NA	8400

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Task 1B - Resource Requirements FY-2005

Month	Resources – FTE	Comment
Jan	4	700 hours
Feb	10	1750 hours
Mar	10	1750 hours
Apr	10	1750 hours
May	10	1750 hours
Jun	10	1750 hours
Jul	10	1750 hours
Aug	10	1750 hours
Sep	10	1750 hours
	Total	14700 hours = \$735,000

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Task 1B - Resource Requirements FY-2006

Month	Resources – FTE	Comment
Oct	10	1750 hours
Nov	10	1750 hours
Dec	10	1750 hours
Jan	10	1750 hours
Feb	10	1750 hours
Mar	8	1400 hours
Apr	6	1050 hours
May	6	1050 hours
Jun	4	700 hours
Jul	4	700 hours
Aug	4	700 hours
Sep	3	525 hours
	Total	14900 hours = \$745,000
	Direct Sampling Costs	\$267,500

Scope of the project is based on the complexity of information presented at the January 5 ecological data workshop.

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TASK 1C - Ecological Risk Assessment and Injury Assessment Integration

Summary of work scope requiring trustee focus and resources is on-going, including but not limited to ;

- Review of fundamental studies – estimated at 1050 hours.
- Review of matrix as it is completed – estimated at 3000 hours.
- Scoping needs and developing an injury assessment plan. – estimated at 3000 hours.
- Recommendations for injury studies – estimated at 3500 hours.
- Development of work scopes for injury studies -- estimated 4000 hours.
- Coordination of trustee resources will be the responsibility of the Hanford Natural Resource Trustee Council, estimated elsewhere.
- At minimum, quarterly presentations of results to the Hanford Natural Resource Trustee Council and other stakeholders will be made as directed by the Hanford Natural Resource Trustee Council.

Task 1C - Resource Requirements FY-2005

(Duration of activities is based on past projects with similar requirements and complexity)

Month	Resources	Comment
Jan	3 FTE	525 hours
Feb	4 FTE	700 hours
Mar	6 FTE	1050 hours
Apr	7 FTE	1225 hours
May	11 FTE	1925 hours
Jun	11 FTE	1925 hours
Jul	15 FTE	2625 hours
Aug	15 FTE	2625 hours
Sep	11 FTE	1925 hours
	Total	14525 = \$726,250

This estimate does not include;

- Development of the FY-06 Scope statements and resource estimate.
- Development of the annotated Injury Study Matrix/bibliography crosswalk (see task 1B).

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Task 1C - Resource Requirements FY-2006

Month	Resources	Comment
Oct	7 FTE	1225 hours
Nov	5 FTE	875 hours
Dec	4 FTE	700 hours
Jan	4 FTE	700 hours
Feb	4 FTE	700 hours
Mar	6 FTE	1050 hours
Apr	6 FTE	1050 hours
May	8 FTE	1400 hours
Jun	8 FTE	1400 hours
Jul	12 FTE	2100 hours
Aug	12 FTE	2100 hours
Sep	7 FTE	1225 hours
	Total	14525 = \$726,250

The listing of tasks is based on

- the draft RCBRA Columbia River Component Work Plan that includes a DQO process,
- limited knowledge of other ongoing DOE-RL Ecological Risk Assessments,
- past experience of similar projects, and
- the complexity of information presented at the January 5, 2005 ecological data workshop.

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TASK 1D - Establish and Maintain Trustee Administrative Record

Task 1D - Resource Requirements FY-2005

Month	Resources	Comment
Jan	0.5 FTE	87.5 hours
Feb	1 FTE	175 hours
Mar	1 FTE	175 hours
Apr	1 FTE	175 hours
May	1 FTE	175 hours
Jun	1 FTE	175 hours
Jul	1 FTE	175 hours
Aug	1 FTE	175 hours
Sep	1 FTE	175 hours
		1487.5 hrs ~\$74,375

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Task 1D - Resource Requirements FY-2006

Month	Resources	Comment
Oct	1FTE	175 hours
Nov	1 FTE	175 hours
Dec	1 FTE	175 hours
Jan	1 FTE	175 hours
Feb	1 FTE	175 hours
Mar	1 FTE	175 hours
Apr	1 FTE	175 hours
May	1 FTE	175 hours
Jun	1 FTE	175 hours
Jul	1 FTE	175 hours
Aug	1 FTE	175 hours
Sep	1 FTE	175 hours
		2100 hrs ~\$105,000

Scope of the project is based on past experience on similar projects

Hanford Natural Resource Trustee Council Injury Integration Studies

COST ACCOUNT PLAN

KEY PROJECT TEAM MEMBERS

ERC Project Manager: TBD
Task Lead (CAM): HNRTC
RL: Steve Wisness
Project Engineer: TBD
Field Support: TBD
S&H: TBD
Project Controls: TBD
Other: TBD

WORK DESCRIPTION (Provide general work description)

General Description:

This cost account covers the studies to be performed by the Hanford Natural Resource Trustee Council (HNRTC) to provide data and information necessary to inform the Ecological Risk Assessment process and to support the Injury Assessment process. There are seven trustee organizations coordinating and participating in this work scope -- two States, three Native American tribes, and two Federal Agencies other than the US DOE.

The basis for determining needed studies is being conducted under a separate cost account plan in FY-05 and will continue into FY-06 (Providing Technical Assistance for the Ecological Risk Assessment Process-Task 1). The HNRTC assumes that studies will take several years and this cost account plan reflects initial studies required.

Tasks To Be Performed In FY 2005:

None, however technical assistance provided by the trustees under Task 1 will provide the basis for work in FY2006.

Tasks To Be Performed In FY 2006:

Specific studies are to be determined and would be selected and refined as part of Task 1C of the Technical Assistance for Risk Assessment Cost Account Plan. We expect that five to seven studies would be conducted during FY2006 evaluating sensitive aquatic, near-shore, and terrestrial receptors and sub-lethal endpoints (possibly including tissue residues, DNA damage, kidney lesions, reproductive organ lesions, lipid peroxidation, and/or immunohistochemistry, in addition to growth and survival). Also, we may undertake studies that are deemed appropriate in establishing threshold levels for remedial decision-making.

Hanford Natural Resource Trustee Council Injury Integration Studies

Examples of the studies that might be needed include:

- 2A) Predicting future groundwater and seep concentrations.
- 2B) Effects of Hexavalent Chromium on several fish species of different trophic levels and developmental stages.
- 2C) Effects of Sr90 on several fish species of different trophic levels and developmental stages.
- 2D) Effects of site contaminants on amphibians.
- 2E) Effects of site contaminants on several terrestrial small mammal and reptile species.
- 2F) Effects of site contaminants on native plant species/shrub steppe habitat.
- 2G) Effects of Uranium (chemical toxicity and radionuclide effects) to aquatic organisms.
- 2H) Effects of site contaminants on several different avian species.

MAJOR PRODUCTS AND DELIVERABLES (Including Readiness Assessment, AHA, Characterization, Demolition, DQO, Milestones – Tri-Party Agreement and others.)

Date

FY06 Deliverables

- Specific project work-plans to include dates of progress reports and final deliverables
- Progress reports for each study
- Final reports from each study

BASIS/ASSUMPTIONS (Include key assumptions/constraints and qualifications.)

- Costs of these studies are estimated based on past experience with similar studies and current proposals for future biological effects studies.
- The Trustees Joint Technical Team (JTT) may be composed of existing staff, new staff and contracted staff.
- Specific study/project teams will provide DQO, ERA, and Study documents to all parties in a timely manner for review.
- DOE will provide necessary support for field sampling teams (IH, RADCON, Security, Waste Management, Sample Transport).

Hanford Natural Resource Trustee Council Injury Integration Studies

- Task conducted in this CAP will be coordinated with studies detailed in the HNTRC Study Task 1 CAP.
- DOE will provide funding to Trustees to support sub-contractor activities; such as technical resources and offsite analytical services.
- Trustee hours can be moved between trustee resources as needed and agreed. A lead trustee will be assigned for each study, and will require about 480 hours to oversee each study. Each of the other trustees will require an estimated 120 hours to participate in study development and implementation.
- Identified studies will be conducted in FY-06 and beyond.
- Studies of interest to non-PRP trustees are not being addressed through the ecological risk assessment process.
- Sampling will be to support risk and injury assessment.
- Sampling for risk and injury to the same receptors will occur simultaneously when possible.
- Studies will attempt to identify threshold levels that can aid risk and remedial managers in remedial action decisions.
- Management of investigation derived waste will be performed by DOE.
- DOE will coordinate use of government owned equipment to support field actions.
- Where applicable, DOE will coordinate and provide sample screening tasks to determine shipping requirements.
- All post-sample analysis materials will be considered suitable for disposal in ERDF.
- One FTE has approximate annual cost of \$100,000 fully burdened.
- All values are rounded .
- FTE hours may be by direct or contracted staff.
- DOE resources will be provided under a separate cost account.
- DOE will submit a budget placeholder in February, 2005.
- DOE will provide initial funding notification by August, 2005.
- DOE-RL provides initial funds to trustees organizations by October 1, 2005.

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2A) Predicting future groundwater and seep concentrations

Type of Resource	FY 2006 (hours)	FY 2007
Federal Resources (2)	240	TBD
State Resources (2)	600	TBD
Tribal Resources (3)	360	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type.

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$700,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$70,000)

WORK ORDERS List major work orders including fiscal year.

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2B) Effects of Hexavalent Chromium on several fish species of different trophic levels and developmental stages

Type of Resource	FY 2006 (hours)	FY 2007
Federal Resources (2)	600	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	360	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$900,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$320,000)

WORK ORDERS List major work orders including fiscal year.

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue (3600 tissue samples)	TBD	TBD
Other		

PBS#: RL-0XXX
HQ/ERC WBS#: HNRTC Task 2 Studies
TITLE: Natural Resource Trustee Council Injury Integration Studies

Subproject Strategy

January, 2005

Hanford Natural Resource Trustee Council Injury Integration Studies

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2C) Effects of Sr⁹⁰ on several fish species of different trophic levels and developmental stages

Type of Resource	FY 2006 (hours)	FY 2007
Federal Resources (2)	240	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	720	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$900,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$420,000)

WORK ORDERS List major work orders including fiscal year.

Hanford Natural Resource Trustee Council Injury Integration Studies

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2D) Effects of site contaminants on amphibians

Type of Resource	FY 2006 (hours)	FY 2007
Federal Resources (2)	600	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	360	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$990,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$320,000)

WORK ORDERS List major work orders including fiscal year.

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2E) Effects of site contaminants on several terrestrial small mammal species

Type of Resource	FY 2006(hours)	FY 2007
Federal Resources (2)	600	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	360	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$750,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$320,000)

WORK ORDERS List major work orders including fiscal year.

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2F) Effects of site contaminants on native plant species/shrub step habitat

Type of Resource	FY 2006(hours)	FY 2007
Federal Resources (2)	240	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	720	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$1,100,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$225,000)

WORK ORDERS List major work orders including fiscal year.

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2G) Effects of Uranium (chemical toxicity and radionuclide effects) to aquatic organisms

Type of Resource	FY 2006(hours)	FY 2007
Federal Resources (2)	360	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	600	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY (i.e., office trailer setup, tp&l.) List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$900,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$420,000)

WORK ORDERS (i.e., work to be performed by FH or Hanford Utilities Group.) List major work orders including fiscal year.

Hanford Natural Resource Trustee Council Injury Integration Studies

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

TASK 2H) Effects of site contaminants on several avian species.

Type of Resource	FY 2006(hours)	FY 2007
Federal Resources (2)	600	TBD
State Resources (2)	240	TBD
Tribal Resources (3)	360	TBD

Hours are required to participate in and oversee study components and review and contribute to draft deliverables.

SUBCONTRACT STRATEGY List major subcontracts and scope including fiscal year and type (FP or FUP).

Subcontract	FY	Type of Contract	Scope
Technical Resources	06	TBD	Planning and execution of technical studies (\$900,000)
Offsite Analytical	06	TBD	Offsite analytical services (\$320,000)

WORK ORDERS List major work orders including fiscal year.

Company	FY	Scope
TBD	06	Sampling Support and Sample Management

WASTE DISPOSAL (ERDF) QUANTITIES (Provide quantities in metrics.)

Type of Material	FY 2006	FY 2007
ERDF - Bulk Waste		
Lab Packs	TBD	TBD
ERDF - Special Handling		
Analytical Waste and Residue	TBD	TBD
Other		

Hanford Natural Resource Trustee Council Injury Integration Studies

Task 2 Summary Cost Table

Task	FY-2006	FY-2007
Task 2A	\$770,000	TBD
Task 2B	\$1,280,000	TBD
Task 2C	\$1,380,000	TBD
Task 2D	\$1,370,000	TBD
Task 2E	\$1,070,000	TBD
Task 2F	\$1,325,000	TBD
Task 2G	\$1,380,000	TBD
Task 2H	\$1,280,000	TBD
TOTAL	\$9,855,000	TBD



IN REPLY TO:
AES-EC

United States Department of the Interior

FISH AND WILDLIFE SERVICE

911 NE 11th Avenue
Portland, OR 97232-4181



Steve Wisness
US Department of Energy
Richland Operations Office
P.O. Box 550, A2-15
Richland, Washington 99352

Dear Mr. Wisness:

As a follow-up to our recent meetings and to support all our continuing efforts to work cooperatively on Hanford CERCLA-related issues, the other federal, state, and tribal natural resource trustees have combined efforts and offer you the attached options for the "three point agreement". This document was first discussed at the September, 2004 Trustee Council meeting. At the most recent Trustee Council meeting in December, 2004, there were differences of opinion among the trustees regarding the second point of agreement dealing with injury assessment. The DOE representatives appeared to prefer one version, and several other trustees preferred another option. In order to clarify the apparent differences and keep lines of discussion open, we are providing two options for further discussion.

Option A is the version we prefer. The second bullet provides for more shared decision-making by all the trustees to identify and conduct injury assessment studies. In Option B, the language for the second bullet is similar to what DOE preferred at the December Trustee Council meeting but includes a caveat that not all trustees agree with this approach and may choose to seek judicial relief. Except for the second bullet, we think the language in both versions is consistent with what we all agreed to at the December Trustee Council meeting. We submit these recommendations as a way of clarifying and resolving the issues where we may disagree, and are fully committed to continuing to work with you to reach a common resolution.

TAKE PRIDE[®]
IN AMERICA 

Steve Wisness 2

Please review these options and plan for all the Trustee Council to jointly complete this task in the near future. In response to your request in mid-December, additional justifications and descriptions for the budget proposal in Tasks 1 and 2 are also being developed. This product is nearing completion and will be forwarded to you as soon as possible. Please let me or any of the other trustees know if you have any questions. As chair of the Trustee Council, I'd be happy to set up any future conference calls or meetings to discuss this issue.

Sincerely,

Donald W. Steffek
Chair, Hanford Natural Resource Trustee Council

Enclosures

HANFORD NATUAL RESOURCE TRUSTEES COUNCIL

SIGNATURE PAGE

Signature indicates the vote of the trustee organization with the following:

RESOLUTION 2005-01 adopting a three point proposal for Hanford Natural Resources Trustees coordination and cooperation.

Support

Object

Abstain

Support with separate opinion (below)

Signature: _____

Name (Print): _____

Trustee Organization: _____

Date: _____



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

05-AMRC-0229

APR 21 2005

Mr. Donald W. Steffeck, Chair
Hanford Natural Resources Trustee Council
U.S. Department of the Interior
Fish and Wildlife Service
911 NE 11th Avenue
Portland, Oregon 97232-4181

Dear Mr. Steffeck:

HANFORD NATURAL RESOURCES TRUSTEE COUNCIL RESOLUTION NO. 05-01 FOR COUNCIL ACTION

We are in receipt of Resolution No. 05-01, transmitted by electronic mail on April 11, 2005, for formal council action. The U.S. Department of Energy, Richland Operations Office's (RL) position on this resolution was reiterated at the March 24, 2005, Senior Trustee meeting and the April 7, 2005, special Trustee Council meeting in Portland, Oregon. As stated previously in our March 23, 2005, letter to you, RL objects to the resolution as written due to significant policy and legal issues. Therefore, RL votes to object to this resolution as written.

It is disappointing that a formal action is being taken on this resolution considering the Trustees were still working on a resolution that would be mutually agreeable to all participants. In fact, one of the actions from the March 24, 2005, Senior Trustee Meeting was to work together on a revised alternative.

The enclosed alternate resolution, which was also provided to you by letter dated March 23, 2005, is the proposal that RL would prefer the council support.

If you have any questions, you may call me or your staff may contact Leif Erickson, Assistant Manager for the River Corridor on (509) 376-7272.

Sincerely,

A handwritten signature in black ink, appearing to read "Keith A. Klein".

Keith A. Klein
Manager

AMRC:DCW

Enclosure

cc w/encl: See Page 2

Mr. Donald W. Steffek
05-AMRC-0229

-2-

cc w/encl:

M. Baker, NOAA

L. Gadbois, EPA

L. Goldstein, Ecology

S. Hughs, ODOE

S. Harris, CTUIR

D. Landeen, Nez Perce

J. McConnaughey, YN

J. Price, Ecology

L. Vigue, WFWS

HANFORD NATUAL RESOURCE TRUSTEES COUNCIL

SIGNATURE PAGE

Signature indicates the vote of the trustee organization with the following:

RESOLUTION 2005-01 adopting a three point proposal for Hanford Natural Resources Trustees coordination and cooperation.

Support

Object

Abstain

Support with separate opinion (below)

Signature: 

Name (Print): KEITH A. KLEIN

Trustee Organization: DOE-RL

Date: 4/21/05

CERTIFICATION

Resolution 05-01 (was adopted by consensus of/not adopted by) the Hanford Natural Resource Trustees Council on _____, ____, 2005, with ____ abstentions and ____ separate opinions.



Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

05-AMRC-0229

APR 21 2005

Mr. Donald W. Steffek, Chair
Hanford Natural Resources Trustee Council
U.S. Department of the Interior
Fish and Wildlife Service
911 NE 11th Avenue
Portland, Oregon 97232-4181

Dear Mr. Steffek:

HANFORD NATURAL RESOURCES TRUSTEE COUNCIL RESOLUTION NO. 05-01 FOR COUNCIL ACTION

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It is disappointing that a formal action is being taken on this resolution considering the Trustees were still working on a resolution that would be mutually agreeable to all participants. In fact, one of the actions from the March 24, 2005, Senior Trustee Meeting was to work together on a revised alternative.

The enclosed alternate resolution, which was also provided to you by letter dated March 23, 2005, is the proposal that RL would prefer the council support.

If you have any questions, you may call me or your staff may contact Leif Erickson, Assistant Manager for the River Corridor on (509) 376-7272.

Sincerely,

Keith A. Klein
Manager

AMRC:DCW

Enclosure

cc w/encl: See Page 2

Mr. Donald W. Steffeck
05-AMRC-0229

-2-

cc w/encl:

M. Baker, NOAA

L. Gadbois, EPA

L. Goldstein, Ecology

S. Hughs, ODOE

S. Harris, CTUIR

D. Landeen, Nez Perce

J. McConnaughey, YN

J. Price, Ecology

L. Vigue, WFWS

**HANFORD NATURAL RESOURCES TRUSTEE COUNCIL
RESOLUTION No. 05-01**

WHEREAS, the United States Department of Energy (DOE) at the Hanford Site is both a Natural Resource Trustee and lead cleanup agency;

WHEREAS, to enhance coordination and cooperation among Trustees early in the Hanford cleanup, DOE established the Hanford Natural Resources Trustee Council;

WHEREAS, other natural resource trustees include the State of Washington (Washington), State of Oregon (Oregon), United States Department of the Interior, United States Department of Commerce, Nez Perce Tribe, Confederated Tribes of the Umatilla Indian Reservation (Umatilla Tribe), and the Confederated Tribes and Bands of the Yakama Nation (Yakama Nation), collectively referred to as the Non-DOE Trustees;

WHEREAS, the Trustees desire to accomplish their respective Trustee responsibilities at the Hanford Site in a cooperative and coordinated manner;

NOW, THEREFORE BE IT RESOLVED that the Non-DOE Trustees, in coordination with DOE, will participate in and focus on the various Ecological Risk Assessments (ERA) being conducted by DOE. The Trustees are developing a matrix of potentially affected natural resources and potential studies to identify data gaps that may need to be addressed to ensure that remedial decisions are protective of natural resources. The potential studies and data gaps identified by the Trustees will be considered by DOE for inclusion in ERAs through the Data Quality Objective process. DOE may provide funding, subject to availability, and determination of need to the Trustees for technical assistance in fulfilling DOE's ERAs and other cleanup responsibilities. Specific tasks and deliverables for technical assistance by the Non-DOE Trustees will be identified in individual cooperative agreements or other appropriate funding mechanisms with the Trustees.

BE IT FURTHER RESOLVED that during the ERA process the Non-DOE Trustees may identify additional data gaps related to potential natural resource injury. With agreement and approval of DOE as to the need and feasibility of collection of additional data, such collection may be integrated into the ERA process. DOE may also fund, subject to availability and DOE determination of need and feasibility, technical assistance to DOE by the Non-DOE Trustees to accomplish such additional data collection.

BE IT FURTHER RESOLVED that data collection or studies that exclusively support the natural resource damage assessment process will be addressed later.

HANFORD NATUAL RESOURCE TRUSTEES COUNCIL

SIGNATURE PAGE

Signature indicates the vote of the trustee organization with the following:

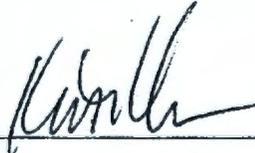
RESOLUTION 2005-01 adopting a three point proposal for Hanford Natural Resources Trustees coordination and cooperation.

Support

Object

Abstain

Support with separate opinion (below)

Signature: 

Name (Print): KEITH A. KLEIN

Trustee Organization: DOE-RL

Date: 4/21/05

E-STARS

Page 1 of 2

Task# DOE-AMRC-C-2005-0229

E-STARS™ Report
 Task Detail Report
 04/18/2005 0739

TASK INFORMATION			
Task#	DOE-AMRC-C-2005-0229		
Subject	concur: Hanford Natural Resources Trustee Council Resolution No. 05-01 for Council Action		
Parent Task#		Status	Open
Reference		Due	
Originator	Angulo, Carole E	Priority	High
Originator Phone	(509) 376-6628	Category	CLO
Origination Date	04/14/2005 0907	Generic1	
Remote Task#		Generic2	
Deliverable	None	Generic3	
Class	None	View Permissions	Normal
Instructions	<p>KA Klein will be signing this letter.</p> <p>bcc: AMRC Off File AMRC Rdg File D. C. Ward, AMRC J. H. Zeisloft, AMRC</p> <p>Record Note: Although DOE representatives tried to dissuade the Trustees at the April 7 Portland, Oregon, meeting from going formal with the 05-01 resolution it was overridden by the majority of the attendees. DOE submitted to the Trustees an alternative resolution which more closely matches the intent of the original Lowell, Idaho, 3 point agreement. DOE will place our March 23rd resolution on the agenda for the next quarterly meeting of the Trustee Council.</p> <p>4/15/05 Added the signature page per SH Wisness' comments.</p>		

ROUTING LISTS

1	Signature Route List	Active
	<ul style="list-style-type: none"> Weis, Michael J - Approve - Awaiting Response <i>Instructions:</i> Klein, Keith A - Approve - Awaiting Response <i>Instructions:</i> <p><i>Done for Michael Weis 4/19/05 3:20PM</i></p>	
4	Route List	Inactive
	<ul style="list-style-type: none"> Ward, Dana C - Approve - Approved - 04/14/2005 1056 <i>Instructions:</i> Zeisloft, Jamie - Approve - Approved with comments - 04/14/2005 1725 <i>Instructions:</i> Wisness, Steven H - Approve - Approved with comments - 04/14/2005 1251 <i>Instructions:</i> Erickson, Leif - Approve - Approved with comments - 04/18/2005 0736 <i>Instructions:</i> <p>↳ <i>Routing List: Route List - Inactive</i> <i>Instructions: Ofelia: please "respond" to this ESTARS, by "Noting" AFTER Jamie has approved. This will kick it back to AMRC.</i></p>	

Task# DOE-AMRC-C-2005-0229	
	<ul style="list-style-type: none"> Gloria, Ofelia T - Review - Concur - 04/14/2005 1411 <p><i>Routing List:</i> Route List - Inactive <i>Instructions:</i></p> <ul style="list-style-type: none"> Zeisloft, Jamie - Approve - Approved with comments - 04/14/2005 1721
ATTACHMENTS	
Attachments	<ol style="list-style-type: none"> 05-AMRC-0229 DCW (Steffeck).doc 05-AMRC-0229 encl.doc
COLLABORATION	
COMMENTS	
Poster	Wisness, Steven H (Wisness, Steven H) - 04/14/2005 1204
	Approve
	Please add the resolution signature page as an attachment to this letter. The signature page will need to be signed and "objection" box checked indicating DOE's vote.
Poster	Zeisloft, Jamie (Zeisloft, Jamie) - 04/14/2005 0504
	Approve
	I attended the meeting referenced in the letter, reviewed the resolution submitted by the trustees and have discussed our response with members of AMRC's Closure Team. I agree with the response presented in RL's letter and support RL's alternate resolution.
Poster	Zeisloft, Jamie (Zeisloft, Jamie) - 04/14/2005 0504
	Approve
	I attended the meeting referenced in the letter, reviewed the resolution submitted by the trustees and have discussed our response with members of AMRC's Closure Team. I agree with the response presented in RL's letter and support RL's alternate resolution.
Poster	Erickson, Leif (Gloria, Ofelia T) - 04/18/2005 0704
	Approve
	Kevin Bazzell reviewed and approved for Leif Erickson.
TASK DUE DATE HISTORY	
<i>No Due Date History</i>	
SUB TASK HISTORY	
<i>No Subtasks</i>	

-- end of report --

RECEIVED
 APR 21 2005
 1055
 DOE-RL/ALCC