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U.S. DEPARTMENT OF ENERGY
INTERAGENCY AGREEMENT FACE PAGE

<p>FUNDS-OUT INTERAGENCY AGREEMENT (IA) Pursuant to Economy Act of 1932 (31 U.S.C. 1535)</p>	<p>1. IDENTIFICATION a. DOE IA No.: DE-AI06-97RL13570 b. Other agency IA No.: c. Modification No.: A000 d. Task order No.:</p>
<p>2. TYPE OF ACTION: <input checked="" type="checkbox"/> New Award <input type="checkbox"/> Modification <input type="checkbox"/> Extension <input type="checkbox"/> Other</p>	<p>3. PROJECT TITLE/DESCRIPTION: Prepare Volume 1 (Aquatic Resources) of the Hanford Site 100 Area Damage Assessment Plan and a detailed pathway and injury determination study plan for potentially impacted aquatic resources IAW attached SOW</p>
<p>4. AGREEMENT PERIOD (month, day, year) From: To: 09/30/98 See block 10 below</p>	<p>5. DOE PROGRAM OFFICER Name: J. H. Zeisloft Address: U.S. Department of Energy Envir. Assurance, Permits & Policy P.O. Box 550, H0-12 Richland, WA 99352 Telephone No.: (509) 372-0188</p>
<p>5. FINANCIAL</p> <p>a. Accounting and Appropriation Data: Appropriation No. 89X0242.91 B&R# EW2010302</p> <p>b. Funding sources</p> <p>RECEIVED SEP 06 2003</p> <p>DOE Agency EDMC</p> <p>Total Funding \$ 120,000.00</p> <p>c. Method of Payment: <input type="checkbox"/> Advance <input checked="" type="checkbox"/> Reimbursement <input type="checkbox"/> Progress</p> <p>d. Amount obligated this action: \$ 120,000.00</p> <p>e. Invoices, if any, submit to: DEPARTMENT OF ENERGY Financial Services Division P.O. Box 550: A7-88 Richland, WA 99352</p> <p>f. Voucher Form to be used: SF 1081</p>	<p>7. PERFORMING AGENCY</p> <p>a. Name: U.S. Dept of the Interior</p> <p>b. Address: U.S. Fish & Wildlife Service 11103 E. Montgomery Dr., Suite 2 Spokane, WA 99206-4779</p> <p>Attention: Dan Audet</p> <p>c. PROGRAM DIRECTOR Name: Dan Audet Address: Same as above</p> <p>Telephone No.: (509) 891-0450</p>
<p>9. PERFORMING AGENCY ACCEPTANCE:</p> <p><i>William F. Shake</i> _____ Name (typewritten): ARD-Columbia Basin Ecoregion Title (typewritten): (503) 872-2761 Telephone:</p> <p>9/24/97 _____ (date)</p>	<p>8. ISSUING AGENCY: Department of Energy (DOE) Richland Operations Office Richland, WA 99352</p> <p>10. DOE CONTRACTING OFFICER:</p> <p><i>P. E. Rasmussen</i> _____ Name (typewritten): P. E. Rasmussen Contracting Officer Title (typewritten):</p> <p>9/24/97 _____ (date)</p>

DEPARTMENT OF ENERGY (DOE)
DOE FUNDS OUT
INTERAGENCY AGREEMENT (IA)
DOE IA No. DE-AI06-97RL13570

SCHEDULE

Interagency Agreement (IA) between the United States Department of Energy and the United States Fish and Wildlife Service. This IA is established on behalf of the Hanford Natural Resource Trustee Council.

I. Purpose

This IA is between the U.S. Department of Energy (DOE), Richland Operations Office (RL), and the U.S. Fish and Wildlife Service (USFWS). The purpose of this IA is to authorize USFWS to perform two separate tasks. Task 1 initiates the development of a multi-volumed natural resource damage assessment plan for the Hanford Site 100 Area. Specifically, Task 1 is the preparation of the first volume of the damage assessment plan, which shall address Columbia River aquatic resources and potential injury to those aquatic resources from hazardous substances released from the Hanford Site 100 Area. Additional volumes of the damage assessment plan will be developed separately from this IA on an as-needed basis. Task 2 is the preparation of a detailed pathway and injury determination study plan addressing the potential injuries to Columbia River aquatic resources identified in the first volume of the damage assessment plan. Both plans are to be prepared for the Hanford natural resource trustees and at the direction of the Hanford Natural Resource Trustee Council.

II. Statement of Work

Please see Attachment A.

III. Cost

Please see Attachment B, Item 1.

IV. Deliverables/Reports:

Deliverables - See Attachment B, Item 2.

V. Termination Agreement

RL or USFWS may terminate this agreement upon thirty (30) days written notice to the other party and the Hanford Natural Resource Trustee Council. In the event of such termination, USFWS will be reimbursed for any

obligations actually incurred to the effective date of termination, and for commitments extending beyond the effective date of termination. All materials prepared by USFWS prior to the effective date of termination shall be provided to the Hanford Natural Resource Trustee Council.

VI. Duration of Agreement

This IA is valid from the date of execution through September 30, 1998. The IA shall establish the work requirements as well as the period of performance.

VII. Program Officers

Mr. Dan Audet, Project Manager, USFWS
Mr. Philip Laumeyer, Field Office Supervisor, USFWS
Ms. Darla Smith, Reimbursable Project Coordinator, USFWS
Mr. James Zeisloft, Project Manager, DOE
Mr. Peter E. Rasmussen, Contracting Officer, DOE

VIII. Obligation of Funds

The IA ceiling is Not To Exceed \$184,419.32. RL has obligated \$120,000.00 for the work to be commenced by USFWS under this IA. This amount represents the total available funding for FY97, and additional FY98 funds will be obligated to the IA on a unilateral basis by RL when they come available.

IX. Payment

Payment will be made on actual cost incurred. The performing agency shall submit a Standard Form 1081, Transfer of Funds (original and 2 copies), or other authorized document, with the following information:

- A. DOE Accounting Appropriation Data, see Block 5(a), Face Page.
- B. DOE Interagency Agreement Number, see Block 1(a), Face Page and mail to DOE address in Block 5(e), Face Page.

Method of payment will be Electronic Funds Transfer. The OPAC billing number for RL is ALC 89-00-2001.

X. Documents Attached and Part of this Agreement

Any document incorporated by reference in this IA has the same force and effect as if physically included within the agreement.

- A. Statement of Work
- B. General Provisions
- C. Assessment Plan Review Documents
- D. Study Plan Review Documents
- E. Project Schedule

STATEMENT OF WORK
for
DE-AI06-97RL13570

1.0 ORDER TITLE: Preparation of Volume 1 (Columbia River Aquatic Resources) of the Hanford Site 100 Area Damage Assessment plan and a detailed pathway and injury determination study plan for potentially impacted Columbia River aquatic resources.

2.0 OBJECTIVE/WORK TO BE PERFORMED

The U.S. Fish and Wildlife Service (USFWS) shall prepare: 1) the first volume of a multi-volumed damage assessment plan, which shall address Columbia River aquatic resources and potential injury to those aquatic resources from hazardous substances released from the Hanford Site 100 Area, and 2) a detailed pathway and injury determination study plan specifying procedures for determining any injury to Columbia River aquatic resources from hazardous substances released from the Hanford Site 100 Area. The aquatics resources portion of the damage assessment plan shall be titled as Volume 1 of the Hanford Site 100 Area Damage Assessment Plan. Additional volumes of the damage assessment plan (e.g. terrestrial or riparian resources) will be developed separately from this IA on an as-needed basis.

USFWS shall prepare the assessment and study plans for the Hanford Natural Resource Trustees. The plans shall be prepared at the direction of the Hanford Natural Resource Trustee Council (NRTC) and shall be compliant with the damage assessment requirements of the U.S. Department of the Interior regulations at 43 CFR 11. Tasks involved in the preparation of the plans include document reviews, site visit/work group meetings, NRTC meetings and the preparation of draft, draft final and final plans. Implementation of the work specified in the plans is not an objective and is not part of the work to be performed. USFWS shall performed the work included in this statement of work in accordance with the schedule listed in Attachment E.

2.1 Assessment Plan

2.1.1 Document Review

USFWS will be provided the documents listed in Appendix C for the purpose of preparing the required assessment plan. USFWS shall complete their review of the documents as specified in Attachment E.

2.1.2 Site Visit/Work Group Meetings

USFWS shall visit the Hanford Site to familiarize themselves with the environment in the vicinity of the 100 Area contaminant releases to the Columbia River. In conjunction with that visit, USFWS shall spend several days meeting with the

NRTC 100 Area Assessment Work Group (hereafter referred to as the Work Group). The purpose of these meetings shall be for USFWS to learn about the previously performed CERCLA activities and miscellaneous Columbia River aquatics studies performed within the 100 Area. The documents generated as a result of these activities and studies are included in the data review specified in Paragraph 2.1.1. During these meetings, USFWS shall familiarize themselves with the results of these activities and studies and the applicable requirements for health and safety and quality assurance/quality control. For the purpose of cost estimation, USFWS shall assume one trip to the Hanford Site, with the trip requiring the participation of four people for four working days.

USFWS shall also meet separately with the Work Group to develop the conceptual scope of work for the assessment plan and the data quality objectives for that scope. This scope shall include any additional contaminant pathway studies deemed necessary, along with the methodologies for performing specific pathway and injury determinations. DOE-RL shall be responsible for scheduling the above referenced meetings. For the purpose of cost estimation, USFWS shall assume one trip to the Hanford Site, with the trip requiring the participation of two people for three working days.

2.1.3 Draft Assessment Plan

USFWS shall prepare the Draft Assessment Plan referenced in Section 2.0 in compliance with the pathway and injury determination requirements of 43 CFR 11. USFWS shall provide copies of the draft plan to the trustees as specified in Attachment E. USFWS shall present the draft plan to the NRTC in January, 1998 and highlight issues of interest to the NRTC. For the purpose of cost estimation, USFWS shall assume one trip to Richland, WA, with the trip requiring the participation of two people for two working days. Individual trustees will provide USFWS with their consolidated comments on the Draft Assessment Plan within twenty working days after receipt of the review copies.

2.1.4 Draft Final Assessment Plan

USFWS shall incorporate trustee comments and other needed changes into a Draft Final Assessment Plan. USFWS shall provide copies of the draft final plan to the trustees as specified in Attachment E. USFWS shall present the draft final plan to the NRTC in March, 1998. During that presentation, USFWS shall show how trustee comments and other needed changes were incorporated into the plan. For the purpose of cost estimation, USFWS shall assume one trip to Richland, WA, with

the trip requiring the participation of two people for two working days.

2.1.5 Final Assessment Plan

USFWS shall incorporate any additional trustee comments and other needed changes into a Final Assessment Plan. USFWS shall prepare a Final Assessment Plan and provide that document to the trustees as specified in Attachment E.

2.1.6 Public Review/Response to Public Comments

USFWS shall attend the public meeting held during the thirty day public comment period for the Final Assessment Plan. For the purpose of cost estimation, USFWS shall assume one trip to Richland, WA, with the trip requiring the participation of two people for two working days. USFWS shall also prepare responses to comments resulting from the thirty (30) day public review. USFWS shall only be responsible for responses to comments which pertain to the technical details of the plan. The responses shall be submitted by USFWS to the Washington State Department of Ecology within ten working days of receipt of the comments.

2.1.7 Final Assessment Plan Revision

USFWS shall revise the Final Assessment Plan as required by the public comments. The revised Final assessment Plan shall be completed as specified in Attachment E, provided that trustee comments are submitted to USFWS at least two weeks prior to the revision deadline.

2.2 Study Plan

2.2.1 Document Review

USFWS will be provided the documents listed in Appendix D for the purpose of preparing the required study plan. The review period shall be as specified in Attachment E.

2.2.2 Work Group Meetings

USFWS shall spend several days meeting with the Work Group to develop the conceptual scope of work and data quality objectives to be specified in the study plan. This scope shall include any additional contaminant pathway studies deemed necessary, along with the methodologies for performing the study specific pathway and injury determinations. DOE-RL shall be responsible for scheduling the above referenced meetings. For the purpose of cost estimation, USFWS shall assume one trip to the Hanford Site, with the trip requiring the participation of three people for four working days.

2.2.3 Draft Study Plan

USFWS shall prepare the Draft Study Plan referenced in Section 2.0 in compliance with the pathway and injury determination requirements of 43 CFR 11. USFWS shall provide copies of the draft plan to the trustees as specified in attachment E. USFWS shall present the draft plan to the NRTC in May and highlight issues of interest to the NRTC. For the purpose of cost estimation, USFWS shall assume one trip to Richland, WA, with the trip requiring the participation of two people for three working days. Individual trustees shall provide USFWS with their consolidated comments on the Draft Study Plan within twenty working days after receipt of the review copies.

2.2.4 Draft Final Study Plan

USFWS shall incorporate trustee comments and other needed changes into a Draft Final Study Plan. USFWS shall provide copies of the draft final plan to the Trustees as specified in Attachment E. USFWS shall present the draft final plan to the NRTC in July. During that presentation, USFWS shall show how trustee comments and other needed changes were incorporated into the plan. For the purpose of cost estimation, USFWS shall assume one trip to Richland, WA, with the trip requiring the participation of two people for two working two days.

2.2.5 Final Study Plan

USFWS shall incorporate any additional trustee comments and other needed changes into a Final Study Plan. USFWS shall prepare a Final Study Plan and provide that document to the trustees as specified in Attachment E.

3.0 ADMINISTRATION

- 3.1 Technical direction will be provided by Chris Burford, Confederated Tribes of the Umatilla Indian Reservation, (541) 278-5209.
- 3.2 Administrative support will be provided by James Zeisloft, DOE Project Manager, (509) 372-0188. This support will include providing the review documents listed in Attachments C and D and a distribution list for the deliverables specified in Attachment B. Mr. Zeisloft will also coordinate site visit/work group meetings and requests for additional technical information.
- 3.3 Peter E. Rasmussen, Contracting Officer, DOE, (509) 376-7437.

Funds-Out Interagency Agreement General Provisions/Requirements

Department of Energy Interagency Agreement No. DE-AI06-97RL13570

1. **Incurrence of Costs.** The recipient performing agency is not authorized to expend or commit funds in excess of the amount obligated. If it is anticipated that the funds provided by this Agreement will be insufficient to complete the work requirements, the written approval of the DOE Contracting Officer must be obtained prior to the Incurrence of costs in excess of the amount provided.

2. **Delivery Requirements (if any).**

<u>Deliverable</u>	<u>Date Due</u>
1. Cost & Performance Report - Eight (8) hard copies	Bi-Monthly
2. Draft Assessment Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
3. Draft Final Assessment Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
4. Final Assessment Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
5. Response to Comments - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
6. Revised Final Assessment Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
7. Draft Work Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
8. Draft Final Work Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required
9. Final Work Plan - Twenty-four (24) hard copies and one (1) electronic copy (format to be specified by CO)	As Required

3. **Reporting Requirements.** If checked, ___ a final technical report shall be submitted to DOE which documents and summarizes all of the work completed under this Agreement. ___ copy(ies) shall be submitted to the DOE Contracting Officer (Face Page, Item 10) at the address in Item 8, and ___ copy(ies) shall be submitted to the DOE Program Officer (Item 6). If checked, ___ two copies of research reports or formal publications should also be sent to the DOE's Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, TN 37831, or, if electronic submission is desired for any publicly releasable, unlimited report, contact OSTI to coordinate the submission process and exchangeable electronic formats (e.g., SGML, HTML, Postscript, or TIFF4) (phone: 423-576-8342; electronic mail address: bob.donahue@cmail.osti.gov).

Additional reporting requirements (if any):

4. Patents and Technical Data. Disposition of rights to inventions made in any contract, grant, or cooperative agreement under this Agreement with any small business firm or domestic nonprofit organization will be in accordance with 35 U.S.C. § 200-212. In all other contracts, grants, or cooperative agreements under this Agreement, the performing agency shall coordinate the disposition of rights to inventions with the DOE Patent Counsel.
5. Issue Resolution. Unless otherwise indicated below, it is expected that programmatic guidance will be handled through discussions between the staff of the Performing Agency's Program Director listed in Item 7c and the DOE Program Officer listed in Item 6. Any administrative issues including billing questions, unresolved items, or issues requiring a formal change to this Agreement shall be addressed to the DOE Contracting Officer listed in Item 10.
6. Termination. See Paragraph V of the Schedule.
7. Financing. See Paragraph VIII of the Schedule.
8. Other Provisions. None.

DOCUMENTS FOR 100 AREA ASSESSMENT PLAN

- Antonio, E.J., T.M. Poston, and W.H. Rickard, Jr. (1993). *Radiological Survey of Shoreline Vegetation from the Hanford Reach of the Columbia River, 1990-1992*, PNL-8797, Pacific Northwest Laboratory, Richland, Washington
- Beasley, T.M., L.A. Ball, and J.E. Andrews (1981). *Hanford-Derived Plutonium in Columbia River Sediments*, *Science*, 214(20), 913-915.
- Becker, C.D. (1973). *Aquatic Bioenvironmental Studies in the Columbia River at Hanford 1945-1971 A Bibliography with Abstracts*, BNWL-1734, Pacific National Laboratories, Richland, Washington
- Becker, C.D., Gray, R.H. (1989). *Abstracted Publications Related to the Hanford Environment, 1980-1988*. PNL-6905, Pacific Northwest Laboratories, Richland, Washington.
- Becker, C.D., 1990, *Aquatic Bioenvironmental Studies: The Hanford Experience 1944-84*, *Studies in Environmental Science* 39, Elsevier, New York, 306 pp (might not be available)
- Becker, J.M., C.A. Brandt, D.D. Dauble, A.D. Maughan, and T.K. O'Neil (1996). *Species for the Screening Assessment; Columbia River Comprehensive Impact Assessment*, DOE/RL-96-16-b, Rev. 0 (Draft), U.S. Department of Energy, Richland, Washington
- Blanton, M.L., W.W. Gardiner, and R. L. Dirkes (1995). *Environmental Monitoring of Columbia River Sediments: Grain-Size Distribution and Contaminant Associations*, PNL-10535, Pacific Northwest Laboratory, Richland, Washington
- Blus, L.J., C.J. Henny, A. Anderson and R.E. Fitzner (1985). *Reproduction, Mortality, and Heavy Metal Concentrations in Great Blue Heron from Three Colonies in Washington and Idaho*, *Colonial Waterbirds*, 8(2):110-116
- Coeur D'Alene Tribe, U.S. Dept. Of Agriculture, U.S. Dept. Of Interior (1993). *Coeur D'Alene Basin Natural Resource Damage Assessment Plan, Injury Determination - Phase I* (check for correct citation)(NEW)
- Cushing, C.E., Jr. (1979). *Trace Elements in a Columbia River Food Web*, *Northwest Science*, 53:118-125
- Cushing, C.E., D.G. Watson, A.J. Scott, and J.M. Gurtisen (1981). *Decrease of Radionuclides in Columbia River Biota Following Closure of Hanford Reactors*, *Health Phys.*, 41:59-67
- Dauble, D.D., T.M. Poston, and R.L. Newell (1988). *Assessment of Aquatic Organisms as Bioindicators of Historical Radionuclide Release to the Columbia River*, PNL-6795, Pacific National Laboratory, Richland, Washington
- Dauble, D.D., K.R. Price, and T.M. Poston (1992). *Radionuclide Concentrations in White Sturgeon from the Columbia River*, PNL-8221, Pacific Northwest Laboratory, Richland, Washington
- Dirkes, R.L., and R. W. Hanf (1996). *Hanford Site Environmental Report for Calendar Year 1995*, PNNL-11139, Pacific Northwest National Laboratory, Richland, Washington (This 300+ page document has been revised and published annually for many years to provide a summary of each year's sampling and surveillance; the report cited is only an

example. In addition, a companion document [e.g, Bisping, L.E., 1996, *Hanford Site Environmental Data Report for Calendar Year 1995*, PNNL-11140] provides complete analytical results).

- Dirkes, R.L. (1990). *1988 Hanford Riverbank Springs Characterization Report*. PNL-7500, Pacific Northwest Laboratory, Richland, Washington
- Dirkes, R.L., G.W. Patton, B.L. Tiller (1993). *Columbia River Monitoring: Summary of Chemical Monitoring Along Cross Sections at Vernita Bridge and Richland*. PNL-8654, Pacific Northwest Laboratories, Richland, Washington
- DOE-RL (1992). *Columbia River Impact Evaluation Plan*, DOE/RL-92-28, Draft A, United States Department of Energy, Richland, Washington
- DOE-RL (1992). *Sampling and Analysis of 100 Area Springs*. DOE/RL-92-12, United States Department of Energy, Richland, Washington
- Environmental Protection Agency (EPA) (1995). *Declaration of the Record of Decision, USDOE Hanford 100 Area, 100-BC-1, 100-DR-1, and 100-HR-1 Operable Units*, Richland, Washington
- Environmental Protection Agency (EPA) (1997). *Amended Record of Decision, Decision Summary and Responsiveness Summary*, U.S. Department of Energy, Hanford Site - 100 Area, Benton County, Washington
- Environmental Protection Agency (EPA) (1995). *Declaration of the Record of Decision, US DOE Hanford 100 Area, 100-HR-3 and 100-KR-4 Operable Units*, Richland, Washington
- Eberhardt, L.E, L.L. Cadwell, K.R. Price, and D.W. Carlile (1989). *Trends in Radionuclide Concentrations For Selected Wildlife and Food Products Near the Hanford Site From 1971 Through 1988*, PNL-6992, Pacific Northwest Laboratory, Richland, Washington
- Embrey, S.S, and E.K. Block (1995). *Reconnaissance Investigation of Water Quality, Bottom Sediment, and Biota Associated with Irrigation Drainage in the Columbia Basin Project, Washington, 1991-92*, U.S. Geological Survey, 95-4007
- Eslinger, P.W, L.R. Huesties, A.D. Maughan, T.B. Miley, and W.H. Walters (1994). *Data Compendium for the Columbia River Comprehensive Impact Assessment*, PNL-9785, Pacific Northwest National Laboratory, Richland, Washington
- Fickeisen, D.H, R.E. Fitzner, R.H. Sauer, and J.L. Warren (1980). *Wildlife Usage, Threatened and Endangered Species and Habitat Studies of the Hanford Reach, Columbia River, Washington*, BNW 2311104244, Pacific Northwest National Laboratory, Richland, Washington
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- Foster, R.F. (1971). *Effects of Hanford Reactors on Columbia River and Adjacent Land Areas*, BNWL-SA-3679; Presentation to State of Washington Ecological Commission, Richland, Washington
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- Hartman, M.J. and P.E. Dresel (1997). *Hanford Site Groundwater Monitoring for Fiscal Year 1996*, PNNL-11470, Pacific Northwest National Laboratory, Richland, Washington (NEW)
- Henderson, C, R.G. Gordon, and R.C. Palange (1956) *Effects of Low-Level Radioactivity in the Columbia River*, Public Health Reports, 71:7-14
- Johnson, V.G, J.J. Wagner, and N.H. Cutshall (1994). *Sediment Quality and Ecorisk Assessment Factors for a Major River System*, WHC-SA-1989-FP, Westinghouse Hanford Company, Richland, Washington
- Landeen, D.S., Sackschewsky, M.R., Weiss, S. (1993). *100 Areas CERCLA Ecological Investigations*. WHC-EP-0620, Westinghouse Hanford Company, Richland, Washington
- Lodge, J.D. (1966). *Radiation Survey of the Columbia River Shoreline Near the Hanford Reactor Areas*, BNWL-CC-835, Pacific Northwest Laboratory, Richland, Washington
- Napier, B.A, N.C. Batishko, D.A. Neise-Craff, M.F. Jarvis (1995). *Identification of Contaminants of Concern, Columbia River Comprehensive Impact Assessment*, PNL-10400, Pacific Northwest Laboratory, Richland, Washington
- Neitzel, D.A, T.L. Page, and R.H. Hanf, Jr. (1982). *Mid-Columbia River Zooplankton*, Northwest Sci, 57:112-118
- Neitzel, D.A, T.L. Page, and R.W.Jr. Hanf (1982). *Mid-Columbia River Microflora*, Freshwater Ecol, 1:495-506
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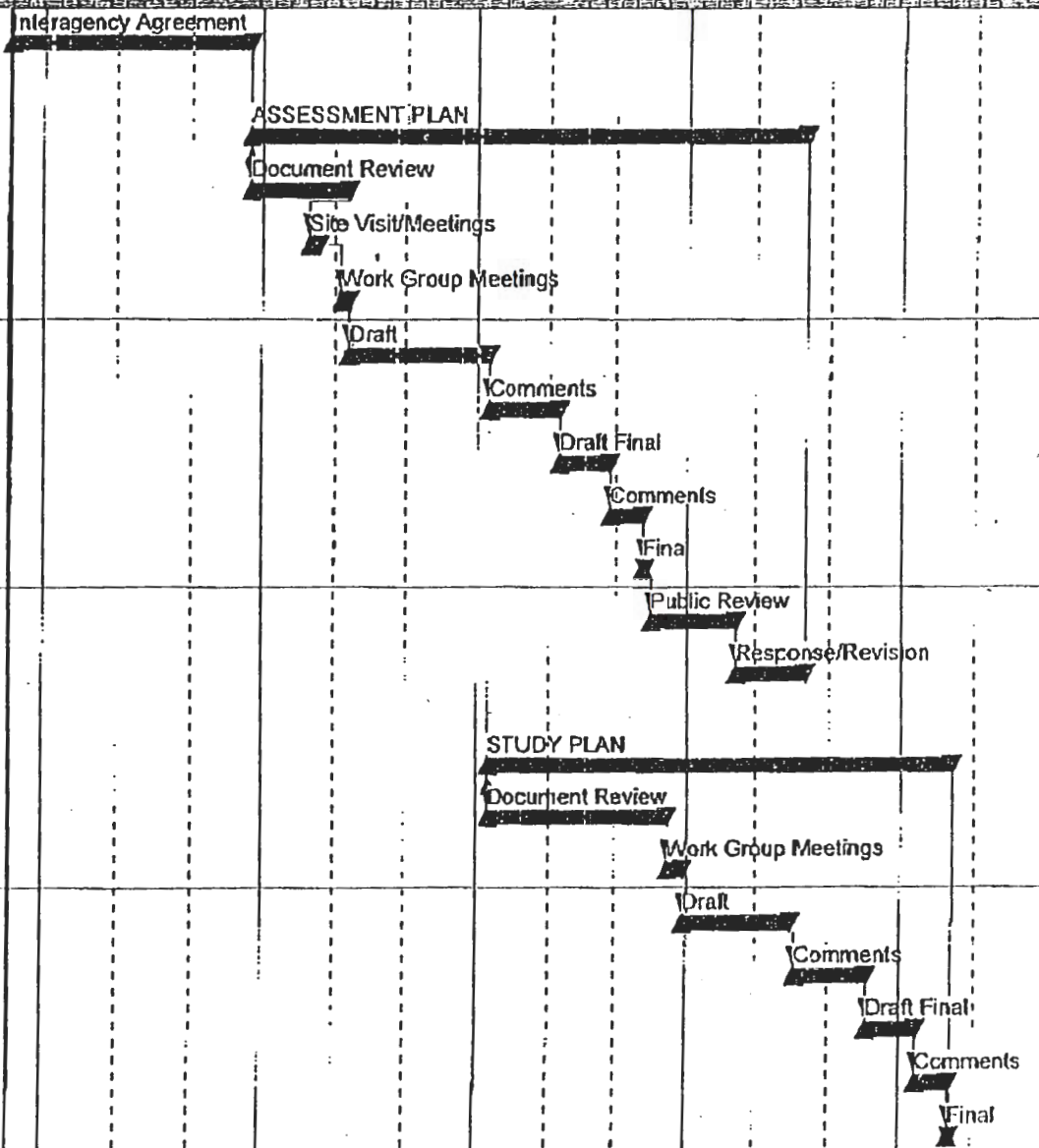
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- Weiss, S.G., R.M. Mitchell (1992). *A Synthesis of Ecological Data from the 100 Areas of the Hanford Site*. WHC-EP-0601, Westinghouse Hanford Company, Richland, Washington
- Wells, D. (1994). *Radioactivity in Columbia River Sediments and their Health Effects*, Environmental Radiation Program Special Report, Washington State Department of Health, Olympia, Washington
- Wilson, R.H. (1962). *The Columbia River Environmental Monitoring Program*, HW-75076, Hanford Atomic Products Operation, Richland, Washington

CHROMIUM/SALMON DOCUMENTS FOR STUDY PLAN

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- Becker, C. D. (1973). *Food and Growth Parameters of Juvenile Chinook Salmon, *Oncorhynchus tshawytscha*, in Central Columbia River*, Fisheries Bulletin, vol. 71, no. 2, pp. 387-400
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ID	Description	Dur	DUr	Start	Finish
300005	Interagency Agreement	72	72	0 16JUN97	25SEP97
SK1	ASSESSMENT PLAN	166*	166*	0 26SEP97	21MAY98
SK1.1	Document Review	30	30	0 26SEP97*	06NOV97
SK1.2A	Site Visit/Meetings	4	4	0 21OCT97	24OCT97
SK1.2B	Work Group Meetings	3	3	0 04NOV97	06NOV97
SK1.3A	Draft	39	39	0 07NOV97	05JAN98
SK1.3B	Comments	22	22	0 06JAN98	04FEB98
SK1.4A	Draft Final	15	15	0 05FEB98	26FEB98
SK1.4B	Comments	10	10	0 27FEB98	12MAR98
SK1.5	Final	1	1	0 13MAR98	13MAR98
SK1.6A	Public Review	27	27	0 16MAR98	21APR98
SK1.6B	Response/Revision	22	22	0 22APR98	21MAY98
SK2	STUDY PLAN	141*	141*	0 06JAN98	22JUL98
SK2.1	Document Review	54	54	0 06JAN98	23MAR98
SK2.2	Work Group Meetings	5	5	0 24MAR98	30MAR98
SK2.3A	Draft	34	34	0 31MAR98	15MAY98
SK2.3B	Comments	22	22	0 18MAY98	16JUN98
SK2.4A	Draft Final	15	15	0 17JUN98	07JUL98
SK2.4B	Comments	10	10	0 08JUL98	21JUL98
SK2.5	Final	1	1	0 22JUL98	22JUL98



Project Start	02JUN97		Empty Bar
Project Finish	22JUL98		Progress Bar
Start Date	16JUN97		Critical Activity
End Date	19SEP97		

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100A

Attachment E

100 Area Assessment/Study Plans

Project Schedule

Sheet 1 of 1