



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Upper Columbia River Basin Field Office
11103 East Montgomery Drive, Suite # 2
Spokane, Washington 99206

RECEIVED

DEC - 1 1997

WDFW REGION TWO
EPHRATA OFFICE

cc: Tracy Cloyd

Tony Eldred

David Mudd

Marc Hallet

Memorandum

GLV

November 19, 1997

RECEIVED

DEC 10 1997

To: Project Manager, Bureau of Reclamation, Grand Coulee, Washington WDFW Habitat Mgmt

From: ~~For~~ Field Supervisor, Fish and Wildlife Service, Spokane, Washington *Kurt R Campbell*

Subject: Washington Flats Management Area

This Planning Aid Memorandum addresses Bureau of Reclamation's (Bureau) mitigation efforts at the Washington Flats Management Area (WFMA). We commend the Bureau's Grand Coulee staff for their efforts to achieve full mitigation for the Downstream Riverbank Stabilization Program and improve the fish and wildlife resource values and efficiency of operations at the WFMA.

The Fish and Wildlife Service's (Service) 1982 Coordination Act Report addressing the WFMA called for re-evaluation of mitigation efforts every five years. The original WFMA mitigation plan was implemented in 1989. In September, 1994, the Service provided the Bureau with a Planning Aid Report that evaluated the first five years of mitigation at the WFMA. Various changes to the original mitigation plan were considered to increase the efficiency of operations, reduce operating costs, and improve the fish and wildlife resource values being produced. In addition, the Service recommended that any changes to the original mitigation plan be phased-in over several seasons. Over the last three years, the following changes to the WFMA mitigation plan have been achieved:

- 1) After identifying the most effective plantings to retain, the total number of irrigated blocks has been reduced from 15 to 9, while their overall dispersion along the length of the WFMA has been maintained.
- 2) Drip-lines to the shrub/tree plantings were replaced with hand-lines and sprinkler heads.
- 3) Pump #1 has been overhauled and the distribution lines have been shored-up to increase total output and the efficiency of irrigation efforts. Pump #1 now accommodates all of the irrigated blocks.
- 4) Pump #2 has been retired and dismantled, and its fuel tank is no longer a contamination threat to the Columbia River. A permanent fueling point, using the fuel tank from pump #2, has been established in the maintenance area located adjacent to block #7. This fueling point includes spill prevention, containment, and hazard control measures.
- 5) Temporary fencing to reduce deer damage to the shrub/tree plantings has been installed on blocks #1, #3, #5, #8, and #9.
- 6) New shrub/tree and food crop plantings have been established to reduce the outstanding

balance of the 25-30 acre mitigation requirement. The new shrub/tree plantings have been concentrated within the fenced areas (blocks #1, #3, #5, and #9), while various "extra" shrubs have been planted in block #7. Improvements in the species selection and planting techniques have been undertaken on the existing food crop plots, and new plots have been established on blocks #1, #4, #5, and #9.

- 7) Efforts to restore native shrub steppe cover and control weeds and erosion on abandoned blocks or other disturbed areas are ongoing. This work has included additional native grass plantings on block #1 and the establishment of winter wheat plots on blocks #1 and #6.

The Service provides the following recommendations for future work at the WFMA:

- 1) Complete the conversion of pump #1 to use an electric power source. This modification will further improve irrigation rates by allowing for longer watering sets, address the concern of excessive noise from the diesel motor, and remove the potential for contamination from the motor's exposed fuel tank that is adjacent to the Columbia River. Conversion of pump #1 will become increasingly important as the irrigation blocks are expanded (or new blocks are added) to achieve full mitigation. In addition, conversion of pump #1 will help safeguard the irrigated blocks against extended periods of drought that can affect the region, and which have been a concern at the WFMA in the past.
- 2) Develop a more comprehensive proposal for grazing portions of the WFMA. A grazing strategy was suggested by the Bureau's maintenance contractor during the July 10, 1997, interagency field tour. While the Service concurs that grazing can be used as a management tool on public lands, the concept needs to be more fully developed to evaluate its potential for the WFMA. More detailed information needs to be provided regarding areas to be grazed, type and number of stock to be grazed, intensity and timing of use, fencing requirements, trailing and watering procedures, et cetera. In addition, such a proposal needs to describe more than just the potential benefits to stock operations or measures to ensure that no degradation of habitat conditions will occur. Considering the broader goals of the WFMA, the proposal should be expressed in terms of how such a strategy could improve habitat conditions and how it will move the project towards the desired goals for the WFMA's fish and wildlife resources.
- 3) With completion of 1998 field season and interagency evaluation report, return to a 5-year interagency evaluation interval for the WFMA.

Further coordination on mitigation efforts at the WFMA between the Bureau, the Service, and the Washington Department of Fish and Wildlife is planned for the 1998 season. The Service will provide another Planning Aid Memorandum addressing operations at the WFMA by September 30, 1998. Again, the Bureau's Grand Coulee staff should be commended for making the WFMA and natural resource stewardship on public water projects a high priority.

If you have any questions or comments regarding this memorandum or our work at the WFMA, please contact me or Chris Warren at the letterhead address or call: (509) 891-6839.

cc: BR, Boise, ID (Sept)
WDFW, Ephrata, WA (LaVoy)
FWS, Portland, OR (Dunn, Weaver)



United States Department of the Interior

BUREAU OF RECLAMATION
GRAND COULEE PROJECT OFFICE
P.O. BOX 620
GRAND COULEE, WASHINGTON 99133

FEB 03 1988

IN REPLY 1021
REFER TO

160.

AUG 10 1988

RECEIVED
FEB 16 1988
ENGINEERING LANDS

RD 2/5/88
cc: Archer
Dice
Quinn (this copy)
File - USBR - WA. FIATS

Mr. Ray Duff, Regional Manager
Washington State Department of Wildlife
P.O. Box 850
Ephrata, Washington 98823

Dear Mr. Duff:

Subject: Memorandum of Understanding, Washington Flats Wildlife Mitigation Area - Grand Coulee, Washington

Enclosed for your records is a fully executed original of the above-referenced Memorandum of Understanding. Before work is commenced in the mitigation area, we need to reach an agreement on your final design and cost. Please send us your final designs showing the location of facilities and final estimated cost of the equipment and mitigation area development.

If you have any questions, please contact Mr. Fay Eaton of my staff at (509) 633-9541 (FTS 446-9541).

Sincerely yours,

Donald E. Tracy
Project Manager

Enclosure

cc: Charles A. Dunn, Field Supervisor
U.S. Fish and Wildlife Service
2625 Parkmont Lane SW, Bldg. B
Olympia, Washington 98502 (w/enclosure)

Does the 364,000 include operation of the site.

MEMORANDUM OF UNDERSTANDING

Between

THE UNITED STATES OF AMERICA
and
THE STATE OF WASHINGTON

For Development and Administration of the Washington Flats
Wildlife Mitigation Area
Grand Coulee Project, Washington

THIS AGREEMENT, Made this *29th* day of *January*, 19 *88*, pursuant to the Act of June 17, 1902 (32 Stat. 388), and acts amendatory thereof or supplementary thereto, the Fish and Wildlife Coordination Act of August 12, 1958 (72 Stat. 563), as amended, the Act of Congress approved June 23, 1936 (49 Stat. 1894), Sections 3 and 4 of the Act of Congress of August 14, 1946 (60 Stat. 1080), and subsections 10942(8) and 5992-39 of Remington's Revised Statutes of Washington, between the UNITED STATES OF AMERICA, hereinafter referred to as the United States, acting through the Bureau of Reclamation, hereinafter referred to as the Bureau and THE STATE OF WASHINGTON, acting by and through its Department of Wildlife, hereinafter referred to as the State, pursuant to the laws of the State of Washington.

WITNESSETH THAT:

2. WHEREAS, the proposed development of the Washington Flats Wildlife area will mitigate for losses of wildlife habitat resulting from the Downstream Riverbank Stabilization Program; and

3. WHEREAS, The completed development requires continuing management to ensure maintenance of the developed lands to promote use by wildlife; and

4. WHEREAS, The State desires to accomplish the development, operation, and maintenance of the acquired lands and associated features and facilities with funding provided by the Bureau.

5. WHEREAS, it has been determined that mitigation of such habitat losses should include the construction of irrigation facilities, feeding stations, and planting the area with a grass seed mixture.

NOW, THEREFORE, in consideration of the mutual covenants and stipulations herein stated, the parties hereto do mutually agree as follows:

6. The State, with funds provided by the Bureau, shall perform all the construction and purchasing associated with development of the Mitigation Area and acquire the equipment identified herein.

Development consists of habitat improvement through use of irrigation, water control, and planting.

a. The irrigation system will consist of pumps, ~~above ground~~ main lines and laterals, and all necessary valves and sprinklers. The system will be capable of irrigating twenty-eight (28) acres. The Bureau's existing wells will be improved with vaults and riprap and act as the water source. Ob
KLP

b. Wildlife habitat improvements will include construction of water checks in the draws, placement of guzzlers, planting trees, shrubs, and grasses, installation of feeders, and administrative improvements such as fences.

Equipment required for development and operation and maintenance follows:

40 hp tractor	front-end loader
disc	sprayer
packer	fertilizer spreader
rotary cutter	miscellaneous tools
grain drill	all-terrain vehicle

The total estimated cost of the equipment and mitigation area development is \$364,000. Expenditures for development and equipment over the above figure requires the approval of the Bureau.

7. Lands. Lands acquired in fee by the Bureau located in the Washington Flats Area, hereinafter referred to as the Mitigation Area, as shown on the map marked Exhibit A attached hereto and by this reference made a part hereof, are hereby placed under the jurisdiction of the State for administration of wildlife resources. The Mitigation Area is further defined as follows:

A tract of land lying and being in Sections 7, 18, 19, and 30 in Township 29 North, Range 31 East, Willamette Meridian, Douglas County, Washington. Said tract lies northerly and easterly of the following described line and westerly of the GLO meander line on left bank of the Columbia River.

COMMENCING at the west quarter corner of said Section 30; THENCE S87°02'49"E for a distance of 1920.76 feet to the POINT OF BEGINNING; THENCE N57°40'W for 605.0 feet; THENCE N43°34'14"W for 1152.77 feet to the USBR boundary line; THENCE in a northerly direction along said boundary line as shown on USBR Drawing No. 222-117-15718, N30°01'23"E for 1570.63 feet to a point between Sections 19 and 30; THENCE N30°01' 23"E for 1392.25 feet; THENCE N38°54'58"E for 4426.33 feet to a point between Section 18 and 19; THENCE N38°45'41"E for 1464.12 feet; THENCE N11°44'25"E for 3998.27 feet to a point between Section 7 and 18; THENCE N41°40'43"W for 4968.03 feet to a point on the west line of

CORRECT AS TO ENGINEERING DATA

William L. Booth

BUREAU OF RECLAMATION

said Section 7; THENCE N11°10'30"E along the west line of said Section 7 for 1485.16 feet, more or less, to the meander corner and point of terminus. Containing 500 acres, more or less.

All bearings are based on the Grand Coulee Dam A & B grid system.

The pipeline route from well A to the Mitigation Area is defined as follows:

A strip of land lying and being in Section 30, Township 29 North, Range 31 East, Willamette Meridian, Douglas County, Washington, said strip of land being ~~15~~¹² feet in width, ~~7.5~~¹² feet each side of the following described centerline: D.A.K.R.

COMMENCING at the west quarter corner of said Section 30, THENCE N30°01'23"E for 1224.80 feet; THENCE S43°34'14"E for 628.74 feet to the POINT OF BEGINNING; THENCE S28°19'07"W for 1755.06 feet; THENCE S56°06'31"E for 90.03 feet; THENCE S48°45'00"E for 115.14 feet; THENCE S38°02'13" for 109.89 feet; THENCE S39°17'02"E for 193.60 feet; THENCE S74°14'49"E for 84.68 feet; THENCE N75°33'45"E for 24.59 feet; THENCE N64°54'37"E for 29.09 feet; THENCE N58°53'46"E for 168.18 feet; THENCE S42°47'14"E for 32.05 feet to the well site and point of terminus.

All bearings are based on the Grand Coulee Dam A & B grid system.

8. Reservation. There is reserved to the Bureau the right of its officers, agents, and employees in connection with their official activities to have full ingress to, passage over, and egress from the land described herein.

9. Administration Activities. Administration of the Mitigation Area by the State will consist of operation and maintenance of the facilities and lands developed for wildlife. Activities will include, but not be limited to, maintenance of structures, roads, wells, fences, signs, and habitat through vegetation, range management, and agriculture.

10. Payment. Work performed by the State under this agreement will be reimbursed by the Bureau. Reimbursement by the Bureau will encompass direct expenditures made for the above activities and indirect costs determined in accordance with the Indirect Cost Negotiation Agreement as approved by the Office of Audit and Investigation. The State will annually provide the Bureau with a copy of said Indirect Cost Negotiation Agreement. Payment will be made within the limitation set forth in Articles 7 and 12, upon monthly submission of itemized statements by the State.

11. Annual Work Plans and Budgets. In July of each year, the parties hereto will meet to discuss the current fiscal year's work plan and associated budget prepared by the State. In addition, preliminary work

CORRECT AS TO ENGINEERING DATA

William L. Burt

BUREAU OF RECLAMATION

plans and budgets for the current fiscal year plus one, two, and three years hence will be reviewed. Approval of the work plans and the budgets are the responsibility of the Bureau.

The State may at their option budget up to \$2,000 each fiscal year for purchasing items which cost less than \$500. These items should be listed in the annual budget.

The Bureau's financial obligation each year is limited to the approved annual budget. Annual cost overruns incurred by the State shall not be the responsibility of the Bureau, unless the increased expenditure has received the prior approval of the Bureau. In the event of an emergency, the Bureau with proper justification can reimburse the State for their expenditures.

12. Administration of Mitigation Area. Pursuant to the terms of this Agreement:

a. The State shall make and enforce, or provide for the enforcement of, such rules and regulations for the use of the Mitigation Area, consistent with the terms of this Agreement and with Federal, State, County, and local laws and regulations, as are necessary and desirable; to protect the health and safety of persons using the Mitigation Area; to preserve the scenic, scientific, and esthetic values; to preserve historic and archaeological resources of the Mitigation Area; to comply with Federal cultural resources laws; and for the preservation of law and order in the interest of public safety.

b. The State shall administer the Mitigation Area in a manner consistent with proper wildlife management. The State shall permit access to the Mitigation Area by the general public for hunting, fishing, and related outdoor activities within existing regulations, and consistent with the primary purpose of the Mitigation Area.

c. The State will carry out an adequate presuppression fire control program which includes placing appropriate fire extinguishers in all buildings and vehicles, taking adequate precautions at fuel storage areas, and giving sufficient notice to the public indicating prohibited activities. Such presuppression activities will be reimbursed by the Bureau.

d. Entrance signs to be erected on or in connection with the Mitigation Area shall be approved jointly by the Bureau and the State as to placement, design, and wording.

e. The use of herbicides and pesticides on lands covered by this Agreement shall comply with all applicable provisions of Federal and State laws, amendments thereto, and Department of the Interior's policies. The State is prohibited from using chemicals listed on the Department of the Interior's current prohibited list: chemical toxicants for killing predator

mammals or birds; and chemical toxicants which cause secondary poisoning for killing mammals, birds, and reptiles. Written approval by the Bureau is required prior to any use of herbicides and other pesticides on lands covered under this Agreement.

f. The State shall take appropriate measures for conservation of soil and moisture resources within the Mitigation Area, including control of noxious weeds and other harmful growth, development of vegetative cover, and control of soil erosion in a manner consistent with good land management practice.

13. Assignment Limitation. The State shall not assign or transfer its rights or obligations without prior written consent of the Bureau.

14. Contingent on Appropriation or Allotment of Funds. The expenditure of any money or the performance of any work herein provided for, which may require appropriations of money by the Congress or the allotments of Federal funds, shall be contingent on such appropriations or allotments being made.

15. Equal Employment Opportunity. This Agreement is subject to the Equal Employment Opportunity provisions set forth in Exhibit B attached hereto.

16. Officials Not to Benefit. No Member of or Delegate to the Congress or Resident Commissioner shall be admitted to any share or part of this Agreement or to any benefit that may arise herefrom. This restriction shall not be construed to extend to this Agreement if made with a corporation or company for its general benefit.

17. Accounts, Records, and Audits. During the performance of work under this Agreement the State shall maintain books of accounts separate and apart from any other of its books of accounts, and so keep them, and all other books, records, and memoranda which support in any way the entries in such books of accounts as to be able to readily furnish full information as to any item included in any account. Each entry shall be supported by such detailed information as will permit a ready identification, analysis, and verification of all of the facts relevant thereto. Any costs which are not so supported will be deducted by the Bureau from reimbursement requests of the State. The books and records shall be retained by the State for three (3) years after completion of all work called for in the agreement or until written permission for their destruction is given by the Bureau. The books of accounts maintained by the State and by the United States relating to matters covered by this Agreement, shall be open to inspection and audit by representatives of the United States and the State at all times during regular office hours.

18. Liability. The Bureau does not assume any liability for death, injury, or damage to persons or property incidental to or that may arise during and in consequence of the State's activities provided for herein.

The State does not assume any liability for death, injury or damage to persons or property incidental to or that may arise during and in consequence of the Bureau's activities provided for herein.

19. Leases, Licenses, and Permits. The State will issue and administer leases, licenses, and permits affecting lands and facilities within the Mitigation Area. The State will consult with the Bureau prior to issuance of all such instruments. Leases, licenses, and permits shall not be issued for periods exceeding ten (10) years nor beyond the termination date of this Agreement. Revenues from leases, licenses, and permits will be utilized for administration of the mitigation areas and accounted for in normal bookkeeping procedures.

20. Term of Agreement. The term of this Agreement shall be for a period of twenty-five (25) years from the date hereof, unless sooner terminated, and, with the mutual consent of the parties, may be renewed for an additional period of twenty-five years.

21. Equipment. The State shall determine, in consultation with the Bureau, the equipment needed to accomplish wildlife management on the mitigation lands described herein. Although the State makes the initial determination and justification of equipment needs for the mitigation project, it is the Bureau's responsibility to determine the validity of the request and whether rental, acquisition, or another means is used to obtain use of equipment. Consideration shall be given to amount of use, season needed, availability of others to do the work, equipment uniqueness, and benefits/cost.

Arrangements for equipment or leasing (including use of other State equipment) shall be accomplished by the State working within their regulations. Consideration will be given to existing Government surplus equipment. Appropriate equipment records shall be kept by the Bureau with assistance from the State for the Government furnished equipment.

Bureau equipment located at other sites may be made available for use on the mitigation area as scheduling permits. The State will outline their needs in the annual work plan which will be discussed at the annual meeting.

The title to all Bureau-furnished equipment or equipment acquired by the State on a reimbursable basis, shall vest in the United States. Title to Bureau property shall not be affected by its incorporation into or attachment to any property not owned by the Bureau, nor shall Bureau property become a fixture or lose its identity by being attached to any real property.

Title to each item of property acquired by the State for the Bureau shall pass and vest in the United States when this agreement commences or when the Bureau has paid for it, whichever is earlier.

The State shall establish and maintain a program for the use, maintenance, repair, protection, and preservation of Bureau property in accordance with Bureau of Reclamation's provisions, policies, and guidelines. Federal Property Management Regulations, Reclamation Instructions Part 1145-74 provides detailed guidance for property in possession of contractors, Grantees, and cooperators. The State assumes the risk of an shall be responsible for any loss, destruction, or damage to Bureau property upon its delivery to the State.

22. This Agreement shall terminate and all rights of the State hereunder shall cease:

a. At the expiration of the term as provided in Article 21.

b. At the expiration of six (6) months after service of written notice by either party hereto of its desire for termination of this Agreement.

c. Upon the failure of the State to observe any of the conditions, exceptions or reservations set out in this Agreement, the Bureau shall give written notice to the State of the obligations that are in default or the provisions of the Agreement that have been violated; and the State shall have ninety (90) days in which to correct the default or violation. This Agreement shall terminate on the ninety-first (91st) day following service of a written notice on the State of its default or violation and its failure to correct such default or violation.

In the event of termination of the Agreement for any cause, the licensees, permittees, and concessioners of the State shall be permitted to continue the exercise of the privileges granted by their licenses, permits, or contracts, under the supervision of a new administering agency or an arrangement for continued operations or for sale or removal of improvements within a reasonable time, which shall be permitted by the Bureau.

23. Convict Labor. In connection with the performance of work under this Agreement, the State agrees not to employ any person undergoing sentence of imprisonment at hard labor except as provided by Public Law 89-176, September 10, 1965 (18 U.S.C. 4082(c) (2), and Executive Order No. 11755, December 29, 1973.

24. Equal Opportunity Clause. The State agrees that it and its employees will not discriminate because of race, color, religion, sex, or national origin against any person by refusing to furnish such person any accommodation, facility, service, or privilege offered to or enjoyed by the general public. Nor shall the State or its employees publicize the accommodation facilities, services, or privileges in any manner that would directly or by implication reflect upon or question the acceptability of the patronage of any person because of race, color, religion, sex, or national origin. The State agrees to include and require compliance with provisions similar to the foregoing provision in any contract made with respect to the operations to be carried out hereunder.

25. Certification of Nonsegregated Facilities. By signing this Agreement, the State certifies that it does not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The State agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract attached hereto and by this reference made a part hereof.

26. Coordination of Responsibilities. The State shall cooperate with the Bureau to achieve coordination of the State's responsibilities under this Agreement with the State's similar responsibilities under separate agreements.

27. Notices. Any notice required or authorized by this Agreement shall be deemed properly given if mailed postage prepaid or delivered to the Regional Director, Pacific Northwest Region, Bureau of Reclamation, Box 043, 550 West Fort Street, Boise, Idaho, 83724, or his designed representative at the Grand Coulee Project Office, on behalf of the United States, and to the Director, Washington Department of Game, Olympia, Washington, 98501, on behalf of the State. The designation of the addressee or the address may be changed by notice given in the same manner in this article for other notices.

28. Civil Rights Act of 1964. The State, in carrying out the provision of this agreement, hereby agrees to comply with Title VI (Section 601) of the Civil Rights Act of July 2, 1964 (78 Stat. 241), which provides that "No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance," and to be bound by the regulations of the Department of the Interior for the effectuation thereof as set forth in 43 CFR 17.

29. Water and Air Pollution Control. The State shall, within its legal authority, comply fully with all applicable Federal and State laws, orders, and regulations, all as administered by appropriate authorities, concerning the pollution of streams, reservoirs, ground water, or water courses with respect to thermal pollution or the discharge of refuse, garbage, sewage effluent, industrial waste, oil, mine tailings, mineral salts, or other pollutants, and concerning the pollution of the air with respect to radioactive materials or other pollutants.

IN WITNESS WHEREOF, the parties hereto have executed this agreement the day and year first written above.

STATE OF WASHINGTON
THROUGH THE DEPARTMENT
OF WILDLIFE

BUREAU OF RECLAMATION

By Jaune Linton
for Director

By Kimberly R. Pedde
Acting Regional Director
Pacific Northwest Region
Boise, Idaho

STATE OF Washington
:ss
County of Thurston

I certify that I know or have satisfactory evidence that Jane
Fontana, R. T. Wier signed this instrument, on oath stated that
she was authorized to execute the instrument and acknowledged it as the
Assistant Director of Law Dept of Washington to be
the free and voluntary act of such party for the uses and purposes
mentioned in this instrument.

Dated: Jan 6, 1987

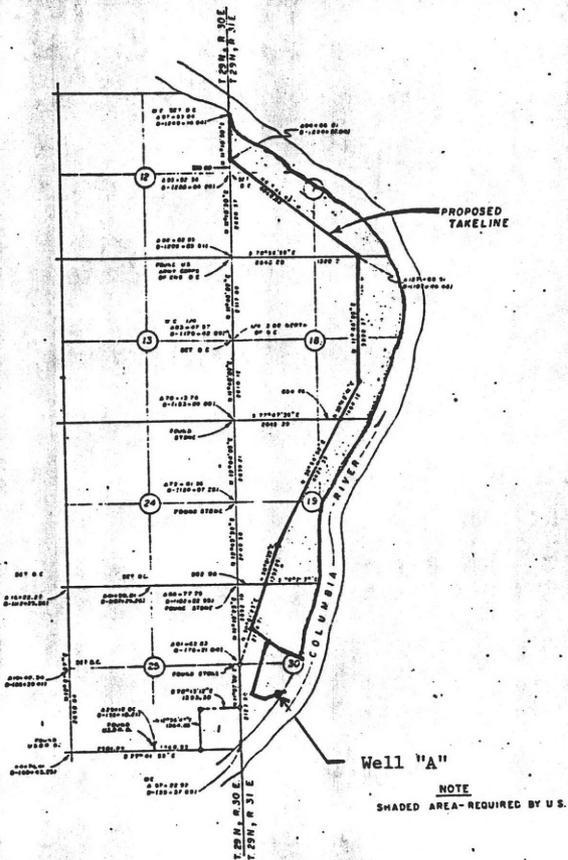
Klaus T. Bernick
Notary Public in and for the
State of Washington
Residing at Seattle
My commission expires: 11-14-94

STATE OF Idaho
:ss
County of Ada

I certify that I know or have satisfactory evidence that _____
Kenneth R. Pedde signed this instrument, on oath stated that
he was authorized to execute the instrument and acknowledged it as the
Acting Regional Director of U.S. Bureau of Reclamation to be
the free and voluntary act of such party for the uses and purposes
mentioned in this instrument.

Dated: January 29, 1988

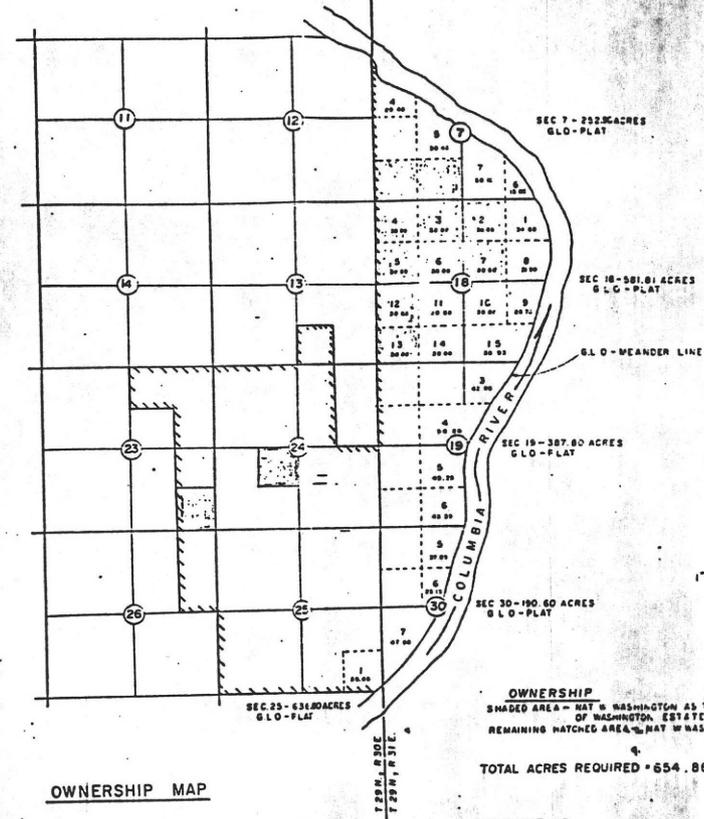
Nancy Vinsonhale
Notary Public in and for the
State of Washington Idaho
Residing at Boise
My commission expires: 4-1-92



TAKELINE MAP

NOTE
ALL BEARINGS AND DISTANCES ARE BASED
ON THE GRAND COULEE DAM A-D
COORDINATE SYSTEM.

-  Washington Flats
Wildlife Mitigation Area
-  Pipeline
-  Well "A"



OWNERSHIP MAP

OWNERSHIP
SHADED AREA - NAT W WASHINGTON AS TRUSTEE
OF WASHINGTON ESTATE.
REMAINING HATCHED AREA - NAT W WASHINGTON.

TOTAL ACRES REQUIRED = 654.86

CONTRACT NO.

APPROVED FOR ACQUISITION

[Signature] DATE: 12-12-72
REGIONAL DIRECTOR

T 29 N - R 30 E

SEC.	ACRES REQUIRED
25	36.90 Ac

T 29 N - R 31 E

SEC.	ACRES REQUIRED	ACRES REMAINING
7	122.31	469.21
18	160.10	242.96
19	159.34	27.49
30	175.71	

INCLUDES AREA BETWEEN G.L.O. MEANDER LINE AND MEAN HIGH WATER LINE

10-16-81 REVISE ACRES TO INCLUDE AREA BETWEEN G.L.O. MEANDER LINE AND MEAN HIGH WATER LINE. (MHP)

ALWAYS THINK SAFETY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
COLUMBIA BASIN PROJECT-WASH
GRAND COULEE PROJECT OFFICE
WASHINGTON FLATS
OWNERSHIP AND TAKELINE MAP
T. 29 N., R. 30 E. AND T. 29 N., R. 31 E.

DESIGNED BY: J.C.C. DATE: 12-12-72
DRAFTED BY: J.C.C. DATE: 12-12-72
CHECKED BY: J.C.C. DATE: 12-12-72

GRAND COULEE, WASH SEPTEMBER 10, 1978 **222-117-15718**



United States Department of the Interior

FISH AND WILDLIFE SERVICE

*Upper Columbia River Basin Field Office
11103 East Montgomery Drive, Suite 2
Spokane, Washington 99206*

FAX TRANSMITTAL

TO: Tony Eldred
AGENCY: WDFW
OFFICE: Wenatchee, WA
FAX: (509) 662-0490

FROM: Chris Warren
PHONE: (509) 921-0160
FAX: (509) 891-6748
DATE: June 2, 1997

NUMBER OF PAGES TO FOLLOW: 4

REMARKS: Tony;

As discussed in our phone call this morning, I'm forwarding our latest planning aid memorandum that was sent to the BOR in December, 1996, regarding the Washington Flats Management Area. Please call if you have any questions or comments concerning the information provided.

Chris

- File -



United States Department of the Interior

FISH AND WILDLIFE SERVICE

*Upper Columbia River Basin Field Office
11103 East Montgomery Drive, Suite # 2
Spokane, Washington 99206*

December 4, 1996

Memorandum

To: Project Manager, Bureau of Reclamation, Grand Coulee, Washington
Attention: Dan Guptill

From: Field Supervisor, Fish and Wildlife Service, Spokane, Washington

Subject: Washington Flats Management Area

This Planning Aid Memorandum addresses Bureau of Reclamation (BR) mitigation efforts at the Washington Flats Management Area (WFMA). We commend BR's Grand Coulee staff for their efforts to achieve full mitigation for the Downstream Riverbank Stabilization Program (DRSP) and improve the wildlife values and efficiency of operations at the WFMA.

The WFMA was acquired by BR in the early 1980's as partial mitigation for the DRSP. Under a Memorandum of Understanding with BR, and through coordination with the Fish and Wildlife Service (FWS), the Washington Department of Fish and Wildlife (WDFW) implemented a mitigation plan at the WFMA in 1989. The central feature of the mitigation plan was development of 15 irrigated habitat blocks, each consisting of wildlife food and cover plantings, totaling approximately 30 acres. Operation of the WFMA reverted to BR in 1994.

Pursuant to the Fish and Wildlife Coordination Act of 1958, as amended, the FWS has provided comments and recommendations regarding the WFMA since its inception. The 1982 FWS Coordination Act Report addressing the WFMA called for re-evaluation of mitigation efforts every five years. In September, 1994, FWS provided BR with a Planning Aid Report that evaluated the first five years of mitigation at the WFMA. Various changes to the original mitigation plan were examined to increase the efficiency of operations, reduce operating costs, and improve the wildlife habitat values being produced. In addition, FWS recommended that any changes to the original mitigation plan be phased-in over several seasons. The following changes for the WFMA were considered:

- 1) After identifying the most effective plantings to retain, reduce the total number of irrigated blocks from 15 to approximately 9, while maintaining their dispersion along the length of the WFMA.
- 2) Temporarily fence the shrub/tree plantings most susceptible to deer damage and concentrate future plantings within these fenced areas.

- 3) Shore-up the distribution lines and upgrade pump #1 with an electric power source to increase irrigation efficiency and total output.
- 4) De-emphasize the grass/legume plantings and divide the balance of the 25-30 acre mitigation requirement between the shrub/tree and food crop plots.
- 5) Restore abandoned blocks and other disturbed areas through weed control and establishment of native shrub steppe cover.

On September 11, 1996, FWS and BR personnel visited the WFMA to review 1995-1996 accomplishments and plan for the 1997 field season. A number of significant improvements were noted in the operations and wildlife habitats at the WFMA, including:

- ▶ better irrigation rates with reduction of the total number of blocks to 9, a more efficient distribution system, and modification of pump #1 to accommodate all the blocks (see Figure 1 for new block configuration);
- ▶ enclosure fencing on blocks #1, #3, #5, #8, and #9;
- ▶ additional shrub/tree plantings on blocks #1, #3, and #5;
- ▶ replacement of the drip-lines to the shrub/tree plantings with hand-lines and sprinkler heads;
- ▶ and successful establishment of food crop plantings on blocks #1 through #5, #7, and #9.

In addition, plans to upgrade pump #1 with an electric power supply and to permanently retire pump #2 are proceeding. These changes will further improve irrigation rates by allowing for longer watering sets, address the concern of excessive noise from the diesel motor on pump #1, and remove the potential for contamination from the diesel pumps' exposed fuel tanks that are adjacent to the Columbia River. We understand that the new pump system could be in operation for the 1997 irrigation season.

The following recommendations are provided for additional improvements at the WFMA.

- 1) Refine future shrub/tree and food crop plantings to emphasize successful species and/or experiment with new varieties.
- 2) Move "trouble" food crop plots from excessively rocky or hard soils to areas better suited to tillage; yet maintain the plots adjacent to sufficient cover, such as the shrub/tree plantings or dense patches of native shrub steppe.
- 3) Conduct weed control measures and establish native shrub steppe cover (grasses) on abandoned plots and other disturbed areas.

Further coordination on mitigation efforts at the WFMA between BR, FWS, and WDFW is planned for the 1997 season. The FWS will provide another Planning Aid Memorandum addressing operations at the WFMA by September 30, 1997.

If you have any questions or comments regarding this memorandum or our work at the WFMA, please contact me or Chris Warren at the letterhead address or call: (509) 891-6839.

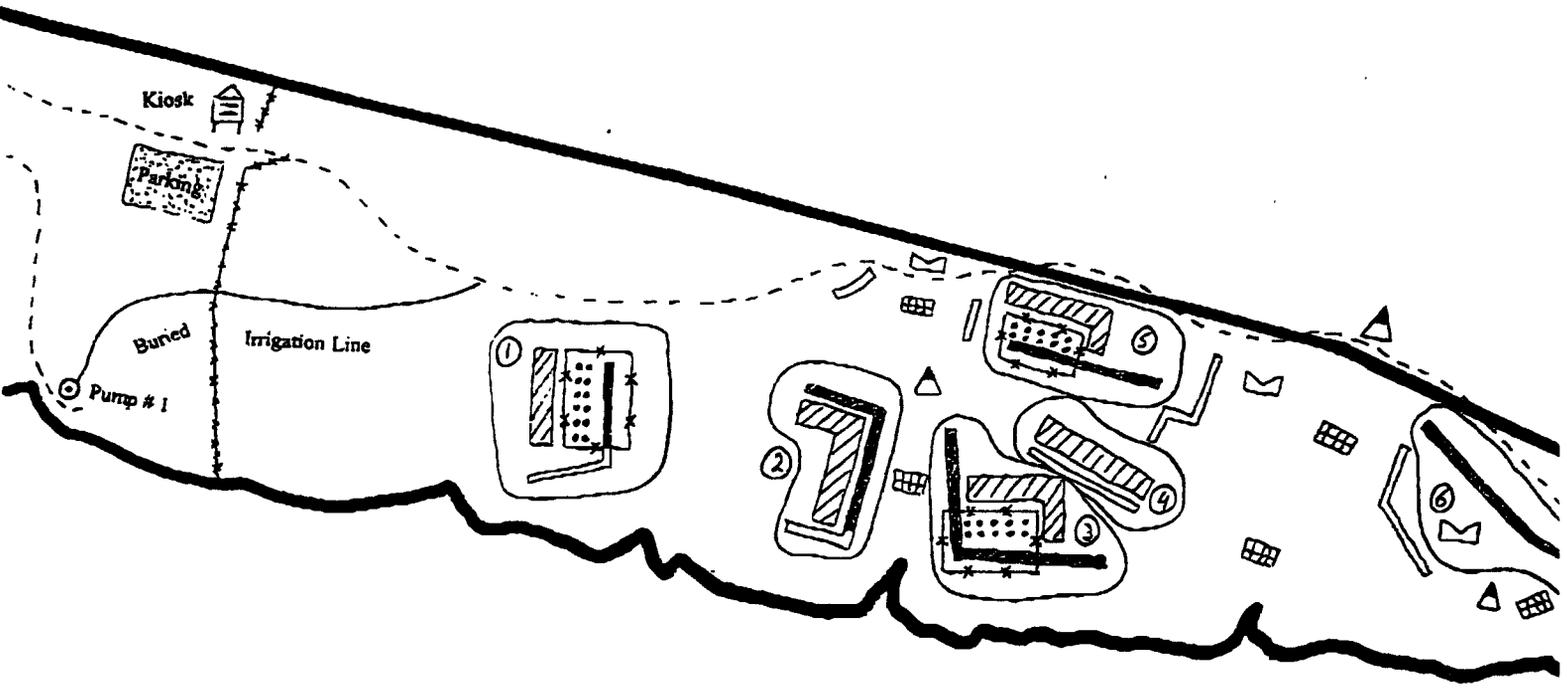
Attachment

cc: BR, Boise, ID (Sept)
WDFW, Ephrata, WA (LaVoy)
FWS, Portland, OR (Dunn, Weaver)

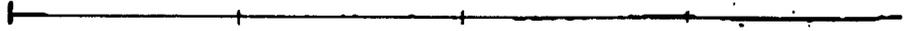
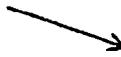


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WASHINGTON FLATS MAP



Columbia River



5,000 Feet

2

GEMENT AREA

Key

--- Access Road and Main Irrigation Line

✱✱✱✱ Enclosure Fencing

▲ Upland Bird Feeder

☐ Guzzler

☐ Rock Crib

Ⓝ Block Number

○ Wellhead and Pump

▬ Original Shrub/Tree Planting

▬ Irrigated Shrub/Tree Planting

⋯⋯⋯ New Shrub/Tree Planting (1996)

▨ Food Plots (1996)

