

**Colorado River
Basinwide and Basin States
Salinity Control Programs**

Salt Load Reduction Worksheet

PROJECT NAME & LOCATION

Applicant Name

Date

A.1 WORKSHEET SUBMITTAL INSTRUCTIONS & SCHEDULE

Applications for salt load reduction **must** be emailed to the Grant's Office at:

bor-sha-uc-foasaltloadreduction@usbr.gov

Point of Contact:
Richard Pew
rpew@usbr.gov
801-524-3740

A request for salt numbers will only be accepted, by email, from the proposing entity that is eligible to apply. Reclamation will carbon copy response to engineers at the request of the entity.

Deadline:

Applicants are encouraged to submit the Salt Load Reduction Worksheet as early as possible following the release of the FOA, especially if applicants anticipate submitting a revised version of the Salt Load Reduction Worksheet. **Final submissions of Salt Load Reduction Worksheet must be received by Reclamation no later than August 1, 2019.**

A.2 PROPOSED SALINITY CONTROL

A.2.A IRRIGATION DELIVERY SYSTEM IMPROVEMENTS

Prior to preparing the responses for the Worksheet, applicants proposing salinity control projects through irrigation delivery system improvements should contact the appropriate Reclamation Technical Contact listed in Section B to learn if salt load reduction estimates are available for your area. Salt load reduction estimates for agricultural areas can only be provided where Reclamation has been able to make estimates from Reclamation, Natural Resources Conservation Service (NRCS), or United States Geological Survey (USGS) salinity studies. For proposed salinity control projects through irrigation delivery system improvements, applicants must complete and submit the Worksheet including Part D.1 of the Background & Information section describing the facilities to be improved or replaced and Appendix B detailing the facility data. Describe plans for abandoning any facilities. If the project plan does not remove or fill in the canal, please describe why this will be left open. (Leaving a ditch/canal open will decrease the salt loading and will increase cost effectiveness)

A.2.B OTHER TYPES OF SALINITY CONTROL

Applications for other types of salinity control (non-irrigation related) will be accepted for evaluation in the FOA. Applicants proposing other types of salinity control must complete and submit the Worksheet including Part D.2 of the Background & Information section and Appendix C. The Worksheet is to include relevant information and data regarding the salinity source and proposed salinity control process and must quantify the salt load reduction. Reclamation will review the information regarding the salinity source and control process and

may request additional information. In the response letter to the applicant, Reclamation will either confirm and accept the applicant's estimated salt load reduction or provide a revised estimate based on Reclamation's analysis of the information.

A.2.C WATER IMPOUNDMENT STRUCTURES

This section contains special provisions for applications involving new pond or reservoir construction.

It is allowable to include the construction of a new pond or reservoir in a salinity control proposal if that structure is needed for the operation of a piped irrigation water delivery system or for other essential purposes. Justification for the pond or reservoir must be provided in the application. To be acceptable the design and construction must meet standards developed by Reclamation. The standards are aimed at providing the impoundment structure liner and other components sufficient to last for the life of the entire project (50 years if coupled with buried pipelines) and that they are built to acceptable standards. Applicants contemplating a new pond or reservoir can obtain these standards from the appropriate Technical Contact listed in Section B. A successful applicant's funding agreement will require a complete Reclamation review and approval of the proposed design, specification, and construction standards.

Additional seepage will likely occur from the new pond or reservoir and must be accounted for in the application's overall salt load reduction estimate. This seepage must be identified and multiplied by the appropriate local salt loading rate to estimate new salt loading which will then be deducted from the application's total salt load reduction estimate. Applicants proposing new water impoundment structures as part of a salinity control project must obtain a salt load reduction estimate from Reclamation by completing and submitting the Salt Load Reduction Worksheet.

SECTION B - RECLAMATION SALINITY TECHNICAL CONTACTS

Colorado River Basin Salinity Control Program Manager

Mr. Kib Jacobson

125 South State Street, Room 8100
Salt Lake City, UT 84138
Phone: 801-524-3753
Email: kjacobson@usbr.gov

Colorado River Basin Salinity Control Program Basinwide Coordinator

Mr. Brad Parry

125 South State Street, Room 8100
Salt Lake City, UT 84138
801-524-3723
bjparry@usbr.gov

Colorado River Basin Salinity Control Program Basin States Coordinator

Ms. Marcie Bainson

125 South State Street, Room 8100
Salt Lake City, UT 84138
801-524-3747
mbainson@usbr.gov

Western Colorado & Southwest Colorado, New Mexico, and Arizona

Mr. Andrew Limbach

Bureau of Reclamation
445 West Gunnison Ave Suite 221
Grand Junction CO 81501-5711
Phone: 970-248-0644
Email: alimbach@usbr.gov

Eastern Utah and Western Wyoming

Mr. Ben Radcliffe

Bureau of Reclamation
302 East 1860 South
Provo UT 84606
Phone: 801-379-1213
Email: bradcliffe@usbr.gov

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REQUESTOR INFORMATION		
<p>This worksheet may only be submitted by the owner/operator of the facilities proposed to be improved or constructed. The owners may, at their discretion, designate an engineering/consulting company or individual as their representative in an email to bor-sha-uc-foasaltloadreduction@usbr.gov</p> <p>Salt load reduction estimates will be provided directly to the Entity Manager with a copy to any designated representative.</p>		
A.	REQUESTING ENTITY NAME:	
	<p>City/town, State</p> <p>Response:</p>	
B.	PROJECT NAME:	
	<p>Response:</p>	
C.	WORKSHEET PREPARED BY:	
	<p>Response:</p>	
D.	ENTITY MANAGER CONTACT INFORMATION:	
	Name:	
	Title:	
	Address:	
	Telephone:	
	Fax:	
	E-mail:	

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BACKGROUND & INFORMATION FOR SALT LOAD REDUCTION ESTIMATE	
<p>IN ORDER TO OBTAIN SALT LOAD REDUCTION ESTIMATES FOR FOA APPLICATIONS, THIS WORKSHEET MUST BE SUBMITTED TO BOR-SHA-UC-FOASALTLOADREDUCTION@USBR.GOV</p>	
<p>Provide a brief narrative or tabular data responding to each of the following sections that apply to the proposed salinity control project. All information must be entered into the response boxes provided in the application, with the exception of data tables which may be inserted in Appendix B. Additional instructions for completing this worksheet are provided in Section A. (It is important to confer with or contact the appropriate Technical Contact listed in Section B, prior to preparing the responses for this worksheet)</p>	
A.	<p>BACKGROUND & DESCRIPTION OF PROJECT AREA: Describe project setting and geographic location. For irrigation-related applications, include general hydrology, geology, soils, climate (average rainfall, temperature, and growing season), water storage facilities, existing irrigation facilities (total mileage of canals & laterals and number of users), irrigated acreage, types of crops, etc.</p> <p>Response:</p>
B.	<p>PROJECT MAP(S): Attach a detailed map(s) as Appendix A scaled appropriately to easily identify the project area, existing facilities, and major geographic features including roads, streams, reservoirs, towns, etc. If the proposed project is irrigation related, the map should show locations of canals, laterals, and irrigated lands and land ownership (Federal, state, Tribal, private etc). Those canals or laterals proposed for improvement or abandonment under this application should be identified. Existing lined or piped sections of canals or laterals should also be clearly identified.</p>
C.	<p>WATER RIGHTS AND SUPPLY: Describe the water rights for both diversion and storage. Describe irrigation water supply and water shortages.</p> <p>Response:</p>
D.	<p>DESCRIPTION OF PROPOSED SALINITY CONTROL: Describe proposed process or changes (in parts D.1, D.2, or D.3) anticipated by the proposed project that will lead to salt load reductions to the Colorado River system. This would include improvements to or elimination of existing facilities or operations. Describe plans for abandoning any facilities. If the project plan does not remove or fill in the canal, please describe why this will be left open. (leaving a ditch/canal open will raise cost effectiveness) If the application does not contemplate changes in one of the three categories below, please indicate by entering "NA" or "Not Applicable".</p>
D.1	<p>IRRIGATION DELIVERY SYSTEM (CANALS, LATERALS, DITCHES) IMPROVEMENTS: If specific facilities are to be improved or replaced, include a detailed description of the facilities and complete Appendix B.</p> <p>Response:</p>
D.2	<p>OTHER TYPES OF SALINITY CONTROL (NON-IRRIGATION RELATED): For desalinization, evaporation or other salinity control measures, clearly describe the proposed project, identify the salinity sources and quantify the salt (in tons/year) that will be controlled or eliminated. Include data that defines the salt loading and control in tabular format in Appendix C.</p> <p>Response:</p>
D.3	<p>NEW WATER IMPOUNDMENT STRUCTURES: If new ponds, reservoirs, settling basins, or other water impoundment structures are to be constructed for any purpose (e.g., re-regulation, evaporation pond, etc.) as part of this application, address the requirements listed in Section IV.C.1.b. If the size of a proposed or existing water impoundment structure increases later a new salt load calculation will be developed and funding may be reduced, and/or the application ranking may change. Modifications to the structures would require Reclamation review and approval of the proposed design, specification, and construction standards".</p> <p>Response:</p>

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APPENDIX A: EXISTING IRRIGATION DELIVERY FACILITIES DATA SHEET (Use
required format)

APPENDIX B: PROJECT MAPS

**APPENDIX C: SUPPLEMENTAL DATA TABLES AND/OR DATA FOR OTHER
TYPES OF SALINITY CONTROL (NON-IRRIGATION RELATED)**