OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

*1. Type of Submission:	*2. Type of Application	* If Revision, select appropriate letter(s)
☐ Preapplication	☒ New	
☒ Application	☐ Continuation	*Other (Specify)
☐ Changed/Corrected Application	☐ Revision	

3. Date Received:	4. Applicant Identifier:

5a. Federal Entity Identifier:	*5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:	7. State Application Identifier:

8. APPLICANT INFORMATION:

*a. Legal Name: North Side Canal Company, LTD.

*b. Employer/Taxpayer Identification Number (EIN/TIN):	*c. Organizational DUNS:
82-0149880	008787830

d. Address:

*Street 1: 921 N. Lincoln
Street 2:
*City: Jerome
County: Jerome
*State: Idaho
Province:
*Country: United States
*Zip / Postal Code 83338

e. Organizational Unit:

Department Name:	Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Mr. *First Name: Alan
Middle Name: Wayne
*Last Name: Hansten
Suffix:

Title: Assistant Manager

Organizational Affiliation:

*Telephone Number: 208-324-2319 Fax Number: 208-324-8906

*Email: ahansten@cableone.net

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

***9. Type of Applicant 1: Select Applicant Type:**

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

*Other (Specify)
Non-Profit 501(c) (12)

***10 Name of Federal Agency:**
Bureau of Reclamation

11. Catalog of Federal Domestic Assistance Number:

15.507

CFDA Title:
Water 2025/WaterSMART

***12 Funding Opportunity Number:**

R10SF80157

*Title:
WaterSMART: Water and Energy Efficiency Grants for FY2010

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Gooding County, Idaho

***15. Descriptive Title of Applicant's Project:**

2010 NSCC Spill Water Re-use Projects

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Application for Federal Assistance SF-424 Version 02

16. Congressional Districts Of:

*a. Applicant: ID-002 *b. Program/Project: ID-002

17. Proposed Project:

*a. Start Date: 11/1/2010 *b. End Date: 3/31/2011

18. Estimated Funding ($):

*a. Federal	598,894.58
*b. Applicant	160,000.00
*c. State	See e. below
*d. Local	
*e. Other	438,894.58 (State, local stake holders)
*f. Program Income	
*g. TOTAL	1,197,789.16

***19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on _____

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E. O. 12372

***20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)**

☐ Yes ☒ No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U. S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions

Authorized Representative:

Prefix: Mr. *First Name: Alan

Middle Name: Wayne

*Last Name: Hansten

Suffix:

*Title: Assistant Manager

*Telephone Number: 208-324-2319 Fax Number: 208-324-8906

* Email: ahansten@cableone.net

*Signature of Authorized Representative: Alan W. Hansten *Date Signed: 5/3/2010

Authorized for Local Reproduction

Standard Form 424 (Revised 10/2005)

Prescribed by OMB Circular A-102

ASSURANCES - CONSTRUCTION PROGRAMS

OMB Approval No.4040-0009
Expiration Date 04/30/2008

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant:, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.

4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.

5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.

6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based pain in construction or rehabilitation of residence structures.

10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29) U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statue(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statue(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.

14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).

18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

* SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	* TITLE
Alan N. Hanata	Assistant Manager
* APPLICANT ORGANIZATION	* DATE SUBMITTED
North Side Canal Co., LTD.	5/3/2010

SF-424D (Rev. 7-97) Back

2010 North Side Canal Company, Ltd. (NSCC)

Spill Water Re-Use Projects

May 4, 2010

Applicant:

North Side Canal Company, Ltd.

921 N. Lincoln

Jerome, ID 83338

Project Manager:

Alan W. Hansten, P.E.

Assistant Manager, NSCC

Phone: (208) 324-2319

Fax: (208) 324-8906

Email: ahansten@cableone.net

Table of Contents

Executive Summary

The North Side Canal Company (NSCC) proposal for water management, water quality improvement, and reductions in aquifer depletion includes four (4) parts identified as, the J8/N10, S-Coulee, W-9, and S-19. Each of these parts or sub-projects, of the overall plan, entails the utilization of operational spill or waste currently being spilled from the NSCC canal system to improve water management on the open channel system. The project will allow for greater efficiency in the delivery and use of water diverted through the NSCC system through the improvement of water supplies to NSCC lands as well as the conversions of ground water irrigated acres to surface water irrigated acres.

All of the sub-projects depend upon the implementation of state-of-the-art SCADA equipment including field water level and discharge sensors and a central computer control to be installed under the J8/S10 subproject. It is estimated that approximately 14,200 acre feet of operational spill can be developed with the total project with a potential for converting approximately 3,406 acres of ground water irrigated land using the developed operational spill. Conversion of the 3,406 acres of ground water irrigated land will decrease depletion from the Eastern Snake Plain Aquifer (ESPA) by approximately 14,200 acre-feet per year. The projects will improve spring flows, water quality in the Snake River and it tributaries, and help to meet TMDL goals as well as enhance habitat for ESA listed snail species in the Thousand Springs area.

Improved water management and utilization of operational spill will improve the NSCC's ability to provide more adequate and timely deliveries in the S-Coulee system which is near the downstream end of the service area, provide flexibility in distribution throughout the system, and can potentially decrease requirements for storage use from reservoirs in the Upper Snake River system above Milner Dam (American Falls, Palisades, and Jackson Lake Reservoirs).

In addition, it is estimated that the energy savings as a result of conversion of ground water irrigated lands could be as much as $168,327 per year

Funding for the project will be provided by the USBR through this project, North Side Canal Ltd in-kind funds, the State of Idaho through the Comprehensive Aquifer Management Plan (CAMP), the North Snake and Magic Valley Ground Water Districts, irrigation water users, and spring users (Clear Springs Food, Inc.). Total cost of the project is estimated at $1,197,789.16.

Construction and implementation of the project will be supervised for the North Side Canal Company by Alan Hansten, PE. project engineer.

Background Data

The North Side Canal Company, LTD (NSCC) was established in 1907 as a Carey Act irrigation company and provides irrigation water to lands along the north side of the Snake River in southern Idaho. The water supply for the company consists of natural flow rights from the Snake

River and irrigation storage rights in Jackson, Palisades and American Falls reservoirs. The NSCC service area includes approximately 160,000 acres in Jerome, Gooding, and Elmore Counties. Ground water irrigated areas with private water rights lie within the service area of the NSCC and provide primary or supplemental ground water from the Eastern Snake River Plain Aquifer (ESPA) to some areas that were formerly irrigated with surface water. Supplemental ground water is utilized when the surface water is not adequate due to water supply conditions.

The proposed project will provide infrastructure to allow better water management and increased water use efficiency of existing water supplies and prevent operational spills. The improved water management may also result in savings of storage water use, thereby increasing carryover and improving water supplies in Reclamation reservoirs upstream of Milner Dam. The re-use of operational spills within the NSCC project, will allow conversion of currently ground water irrigated areas to surface water and increase the reliability of deliveries from the canal system to a significant number of acres. Currently, the operational spill water returns to the Snake River and this project will minimize these return flows thereby reducing the contribution of sediment and associated nutrients to the river and allow reuse of the water. The project, including the conversion of ground water irrigated areas to surface water will decrease energy requirements, increase water conservation through improved water management, and provide significant water quality improvement in the Snake River and benefit various listed snail species under the Endangered Species Act.

A primary benefit of the project will be the enhancement of spring flows from the ESPA which have decreased markedly from historical discharge levels and which are the subject of water administration conflicts. The State of Idaho, through the Idaho Water Resource Board, is currently pursuing a Comprehensive Aquifer Management Plan (CAMP) for the aquifer and developing projects which are aimed at improving the water budget on the ESPA, including ground water levels and spring flows. This project comports with the objectives of the CAMP effort.

This project will be operated by the North Side Canal Company in an effort to improve NSCC water deliveries as well as improve aquifer water levels and spring flows. Financing will include in-kind contributions by NSCC using project equipment and personnel, additional State funding through the CAMP program, contributions from the North Snake and Magic Valley Ground Water Districts, and potential funding from spring water users including Clear Springs Foods Inc.

NSCC has worked with the USBR on many projects in the past. Since NSCC is a space holder in the Minidoka and Palisades projects, NSCC has a long history of cooperative projects with USBR, such as raising the dam at Jackson Lake, American Falls Dam Reconstruction, and the construction of Palisades Dam. In addition, NSCC contracts with USBR for bank stabilization and rip-rapping at the American Falls Reservoir and cooperates with USBR on water management projects and water education endeavors.

Technical Project Description

The proposed project consists of four (4) parts or sub-projects within the western part of the service area of NSCC in Jerome and Gooding Counties. All of these sub-projects have essentially the same major elements and objectives, namely: water conservation, improved water management, energy conservation, and aquifer improvement. The four projects are all located on the west side of the NSCC service area and are on or adjacent to laterals which flow into the S-Coulee service and drainage area (Figure 1). These subprojects are: 1. J-8/N-10 project, 2. S-Coulee project, 3. W-9 project, and 4. S-19 project.

J-8/N10 Project

This subproject is being developed to utilize tail water spill to improve deliveries to NSCC lands served from the N-10 lateral which will minimize spill from the J-8 pond complex (Figure 2). The reduced spill will also be used to replace groundwater irrigation on lands located above the Snake River canyon near Crystal Springs. This reach of the Snake River is termed the Devil's Washbowl to Buhl reach.

Specifically, the project entails installation of SCADA water level monitoring equipment on the J-8 pond and spread-spectrum telemetering equipment to an automated control gate on lateral N-9 and a pipeline to the existing Standing Hat return flow pond (Figure 2). The J-8 and Standing Hat existing ponds will not be altered. An existing pumping station on the Standing Hat pond would be used to pump water to existing fields now receiving ESPA ground water and/or NSCC water. A central control computer located at the North Side Canal Company office in Jerome would provide monitoring and control of the system via spread spectrum radio telemetry. <u>This subproject includes the installation of SCADA equipment, including the control equipment at the Jerome NSCC office and automatic gate telemetering equipment at the N-9 diversion to Standing Hat. This subproject is necessary to fully implement the other three subprojects and achieve the full potential of increased water management</u>

Engineering design to date has identified the major components of the project to be constructed and includes:

- J-8 pond water level monitoring and telemetry.
- N-9 lateral automated gate and control and discharge measurement equipment.
- Installation of 2,500 feet of 21 inch diameter PIP pipe to the holding pond which flows into the Standing Hat pond.
- Rock excavation for pipeline installation.
- Engineering design- Alan Hansten, P.E. North Side Canal Company

Engineering design would begin immediately and construction of the project would begin in September 2010 and be completed by April of 2011. NSCC project personnel would provide

portions of the earth and rock work as in-kind services. No easements will be required to install the project infrastructure and the project can easily be completed during the non-irrigation season.

Project Benefits

Estimated water conservation will include reduction of up to 1,300 acre feet of spill (operational waste) annually. Water saved and/or reused on NSCC lands will help reduce NSCC's requirements for storage water from upstream Reclamation reservoirs. The water made available from spill reduction will also be utilized on existing lands irrigated with NSCC water or for conversion of ground water irrigated areas.

Ground water depletions from the ESPA will be reduced. There are approximately 400 ground water irrigated acres potentially convertible to canal operational spill water from the Standing Hat pond and J8 pond, however, with 1,300 acre feet of operational spill available, it is estimated that the resulting ground water depletion reduction would be no more than 1,300 acre- feet per year.

Energy savings from ground water pumping are estimated at $18,595 or more annually so that on-farm operating costs are reduced accordingly.

Water supply and delivery reliability will be improved with the installation of the SCADA system with central computer control at the NSCC office. This will allow the operators to monitor and control the flow of water in the N-9/J-8 delivery area to minimize or eliminate completely the spill associated with the J-8 pond. Elimination of the J-8 spill will likely improve water quality in the Snake River by reducing sediment and associated nutrients. The SCADA field equipment will be solar powered.

Reduction of depletion from the ESPA will improve discharge from the springs issuing from the aquifer, including those that are utilized for aquaculture. Improvements in spring flows as a result of the project, as indicated by the ESPA ground water model, would be Crystal Springs, Clear Lakes Springs, and Box Canyon Springs (Figure 1).

S-Coulee Project

This subproject objective is to improve water management by minimizing operational spill from the S-Coulee drainage (Figure 3) and utilize the tail water spill to improve deliveries to NSCC lands served from the S lateral. The reduced spill will also be used to replace groundwater irrigation on lands located above the Snake River canyon. This reach of the Snake River is termed the Buhl to Thousand Springs reach.

Specifically, the project entails utilization of SCADA water level monitoring equipment on existing ponds and spread-spectrum telemetering equipment to an automated control gate on lateral S (Figure 3). The existing J/S on-project reservoir will be expanded. Existing diversion structures on the laterals will be improved to provide canal water to convert ground water irrigated areas and improve deliveries to existing surface irrigated areas. A central control computer located at the North Side Canal Company office in Jerome would provide monitoring and control of the system via spread spectrum radio telemetry.

Engineering design to date has identified the major components of the project to be constructed and includes:

- Expand the J/S on-project storage reservoir
- Construct a new pump diversion from the S Coulee tail water pond
- Construct water level monitoring SCADA equipment at the S Coulee tail water pond
- Install flow measuring equipment and SCADA discharge sensor at the Moyle diversion on the S Coulee
- Engineering design- Alan Hansten, P.E. North Side Canal Company

Engineering design would begin immediately and construction of the project would tentatively begin in September 2010 and be completed by April of 2011. No easements will be required to install the project infrastructure and the project can easily be completed during the non-irrigation season.

Project Benefits

Estimated water conservation will include reduction of up to 11,000 acre feet of spill (operational waste) annually. Water saved and/or reused on NSCC lands will help reduce NSCC's requirements for storage water from upstream Reclamation reservoirs. The water made available from spill reduction will also be utilized on existing lands irrigated with NSCC water or for conversion of ground water irrigated areas.

Ground water depletions from the ESPA will be reduced; however, the volume of depletion reduction cannot be estimated at this time. There are approximately 3,100 ground water irrigated acres potentially convertible to canal operational spill water from the proposed project service area. However, with 11,000 acre-feet of potential operational spill available, approximately 2,564 acres of ground water irrigated land can be converted.

Energy savings from ground water pumping on the 2,564 acres of potentially convertible land are estimated at $126,147 annually so that on-farm operating costs are reduced accordingly.

Water supply and delivery reliability will be improved with the installation additional on-project storage and computer control at the NSCC office. This will allow the operators to regulate fluctuations in outflow and monitor and control the flow of water in the S-lateral delivery area to

minimize or eliminate completely the spill associated with the S-Coulee. Elimination of the operational spill will likely improve water quality in the Snake River.

Reduction of depletion from the ESPA will improve discharge from the springs issuing from the aquifer, including those that are utilized for aquaculture. Improvements in spring flows as a result of the project, as indicated by the ESPA ground water model, would be Box Canyon, Clear Lakes Springs and Crystal Springs (Figure 1).

W-9 Project

This sub-project objective is to improve water management by minimizing operational spill from the W-9-Coulee drainage (Figure 3) and utilize the tail water spill to improve deliveries to NSCC lands served from the S lateral. The reduced spill will also be used to replace groundwater irrigation on lands located above the Snake River canyon. This reach of the Snake River is termed the Buhl to Thousand Springs reach.

Specifically, the project entails utilization of an existing spill pond and installation of a new pumping plant. The expansion of the existing J/S on-project reservoir, under the J8/N10 subproject, and the central control computer located at the North Side Canal Company office in Jerome will provide monitoring and control of the system via spread spectrum radio telemetry to enhance this sub project. The pumping plant will provide operational spill water to convert ground water irrigated areas and improve deliveries to existing surface irrigated areas.

Engineering design to date has identified the major components of the project to be constructed and includes:

- Install flow measuring equipment on the W-9 pond inlet
- Construct new pump and pipeline from the existing W-9 pond
- Engineering design- Alan Hansten, P.E. North Side Canal Company

Engineering design would begin immediately and construction of the project would begin tentatively in September 2010 and be completed by April of 2011. No easements will be required to install the project infrastructure and the project can easily be completed during the non-irrigation season.

Project Benefits

Estimated water conservation will include reduction of up to 700 acre feet of spill (operational waste) annually. Water saved and/or reused on NSCC lands will help reduce NSCC's requirements for storage water from upstream Reclamation reservoirs. The water made available

from spill reduction will also be utilized on existing lands irrigated with NSCC water or for conversion of ground water irrigated areas.

Ground water depletions from the ESPA will be reduced. There are approximately 500 ground water irrigated acres potentially convertible to canal water from the proposed project service area however with 700 acre-feet of operational spill available, 163 acres of ground water irrigated area can be converted and the net decrease in aquifer depletion is about 700 acre-feet per year.

Initial energy savings, if the700 acre-feet of operational spill are utilized on the estimated 163 acres currently served from ground water are estimated at $8,689 or more annually so that on-farm operating costs are reduced accordingly.

Water supply and delivery reliability will be improved with the installation of additional on-project storage and computer control at the NSCC office. This will allow the operators to regulate fluctuations in outflow and monitor and control the flow of water in the S-lateral delivery area to minimize or eliminate completely the spill associated with the S-Coulee. Elimination of the operational spill will likely improve water quality in the Snake River by reducing sediment and associated nutrients.

Reduction of depletion from the ESPA will improve discharge from the springs issuing from the aquifer, including those that are utilized for aquaculture. Improvements in spring flows as a result of the project, as indicated by the ESPA ground water model, would be Box Canyon, Clear Lakes springs and Crystal Springs (Figure 1).

S-19 Project

This subproject is similar in concept to the W-9 subproject with the objective to improve water management by minimizing operational spill from the S-19 lateral system (Figure 3) and utilize the tail water spill to improve deliveries to NSCC lands served from the S-19 lateral. The reduced spill will also be used to replace groundwater irrigation on lands located above the Snake River canyon. This reach of the Snake River is termed the Buhl to Thousand Springs reach.

Specifically, the project entails utilization of an existing spill pond and installation of a new pumping plant. The expansion of the existing J/S on-project reservoir, under the J8/N10 subproject, and the central control computer located at the North Side Canal Company office in Jerome will provide monitoring and control of the system via spread spectrum radio telemetry to enhance this sub project. The pumping plant will provide operational spill water to convert ground water irrigated areas and improve deliveries to existing surface irrigated areas.

Engineering design to date has identified the major components of the project to be constructed and includes:

- Install flow measuring equipment on the S-19 pond inlet
- Construct new pump and pipeline from the existing S-19 pond
- Engineering design- Alan Hansten, P.E. North Side Canal Company

Engineering design would begin immediately and construction of the project would begin in September 2010 and be completed by April of 2011. No easements will be required to install the project infrastructure and the project can easily be completed during the non-irrigation season.

Project Benefits

Estimated water conservation will include reduction of up to 1,200 acre-feet of spill (operational waste) annually. Water saved and/or reused on NSCC lands will help reduce NSCC's requirements for storage water from upstream Reclamation reservoirs. The water made available from spill reduction will also be utilized on existing lands irrigated with NSCC water or for conversion of ground water irrigated areas.

Ground water depletions from the ESPA will be reduced. There are approximately 320 ground water irrigated acres potentially convertible to canal water from the proposed project service area. With 1,200 acre-feet of operational spill available, 279 acres can be converted at this time.

Initial energy savings, if the1,200 acre-feet of operational spill are utilized on the estimated 279 acres currently served from ground water, are estimated at $14,896 or more annually so that on-farm operating costs are reduced accordingly.

Water supply and delivery reliability will be improved with the installation of additional on-project storage and computer control at the NSCC office. This will allow the operators to regulate fluctuations in outflow and monitor and control the flow of water in the S-lateral delivery area to minimize or eliminate completely the spill associated with the S-Coulee. Elimination of the operational spill will likely improve water quality in the Snake River by reducing sediment and associated nutrients.

Reduction of depletion from the ESPA will improve discharge from the springs issuing from the aquifer, including those that are utilized for aquaculture. Improvements in spring flows as a result of the project, as indicated by the ESPA ground water model, would be Box Canyon, Clear Lakes springs, and Crystal Springs (Figure 1).

Description of Performance Measures

Performance measures for the projects included are planned to quantify the actual amount of water and energy saved along with the reduction in sediment and phosphorous loading to the Snake River. The influence of the projects on the Eastern Snake Plain Aquifer will also be determined. The following quantifiable elements will be monitored and compared to historical information:

1. The amount of water spilled at the J-8 pond, the Standing Hat Pond, and the S-Coulee Pond will continue to be monitored with existing equipment and the amount of water spilled will be compared to historical values.
2. Historical power usage information will be obtained and compared to energy usage once the projects improvements are operational on lands benefitting from the projects.
3. Sediment and phosphorus loading in the spill water to the Snake River will be monitored and compared to historical values.
4. Computer modeling will be performed to determine the benefits of reduced groundwater pumping on the Eastern Snake Plain Aquifer. The modeling will be used to estimate the theoretical reach gains associated with the springs along the Snake River.
5. Compile and review available spring discharge data.

Description of Potential Environmental Impacts

The projects proposed in this application are not expected to have any adverse impacts on the environment. It is expected that the water quality of the Snake River will improve do to the decrease in spill water flows that contain sediment and phosphorous that impact the water quality of the Snake River.

Minimal earthwork is planned at the J&S pond in order to improve the existing concrete structure. This work will be completed while the pond is dry and therefore will not have any significant impact on surface water quality.

Activities associated with the installation of pumps, pipeline, and SCADA control systems will have minimal impacts on air and water quality and will have no significant impacts on wildlife habitat.

The Bliss Rapids Snail and Banbury Lanx are the only known endangered species that may experience any impact associated with the projects, which will be beneficial. The habitat for the snails is expected to be improved as a result of the projects proposed in this application by improving spring flows and improving the water quality of the river due to the decrease in spill water flows from the NSCC system.

The construction of the water delivery system for the North Side Canal Company was started in 1908 with the last laterals being completed in 1911. Approximately 1,000 miles of canals and ditches are operated by the North Side Canal Company.

The only structure planned to be modified as a part of the project is the concrete structure at the J&S Pond. This structure was constructed in 2005 and has no historical value. No other structures are planned to be modified as part of the projects. The Milner Dam is listed on the National Register of Historic Places and the North Side Main Canal and associated named laterals are eligible for listing. The work contemplated for the projects included in this

application will have no significant impact on any historic features within the project area. There are also no known archeological sites within the areas of the projects.

Required Permits and Approvals

No water rights or NSCC water shares will be negatively impacted by these projects. The projects included in this application seek to decrease and reclaim operational spill waters and to use them on lands that are currently being irrigated by NSCC surface water or acres irrigated with ground water in an effort to decrease energy usage and water usage on the Eastern Snake Plain Aquifer.

Local highway district approval and permits will be required to cross local roads with piping for the individual projects. NSCC has a very good working relationship with the local highway districts and will be able to obtain the necessary permits for the roadway crossings.

Funding Plan

Funding for the projects included in this application is expected to be provided by North Side Canal Company, Ltd. (NSCC), the North Snake and Magic Valley Ground Water Districts, landowners benefitting from the individual projects, spring users, municipalities interested in phosphorous credits, the State of Idaho, and the United States Bureau of Reclamation (USBR).

The NSCC will provide in-kind match in the form of the management, accounting, equipment, and labor needed to complete the projects. No in-kind costs have been accrued prior to this application that are being sought to be included as match towards the federal funds anticipated for the projects.

The Landowners who will benefit from the decrease in pumping lift may participate in their respective project with funds to match the federal contribution.

The State of Idaho has allocated funds to the Eastern Snake Plain Aquifer (ESPA) Comprehensive Aquifer Management Plan (CAMP) to be used for the development of projects that aim to enhance the water supply associated with the ESPA. The projects included in this application will be submitted to the State of Idaho for review for determination of funding. These funds will be used to match the federal funds for these projects.

Federal monies awarded in association with this application will be combined with federal funds that have been tentatively awarded through the USBR's Water Conservation Field Services Program for the J-8 Pond Tail Water Reuse Project. Total federal contribution from both programs is expected to be 50% of the total costs associated with the projects. The 50% remaining funds needed to complete the projects will be provided from NSCC as in-kind match, the North Snake and Magic Valley Ground Water Districts, the landowners, spring users (including Clear Springs Foods, Inc.) and the State of Idaho CAMP program.

Projects included in this application will be prioritized based on the level of funding received from the sources listed above in the event of partial funding.

Commitment Letters

Final Funding Commitment letters will be obtained from non-federal funding sources and submitted to the USBR by September 1, 2010 to the following address:

Bureau of Reclamation
Acquisition Operations Group
Attn: Stephanie Bartlett
Mail Code: 84-27810
P.O. Box 25007
Denver, CO 80225

Commitment letters will be completed that address the elements outlined on page 25 of the funding opportunity announcement.

Official Resolution

An official resolution will be presented to the board of directors of the NSCC at the regular monthly meeting on May 21, 2010. A copy of the resolution will be forwarded to the address above for inclusion in the application.

Budget Proposal

Operational costs associated with the energy used for pumping irrigation water for the individual landowners using the operational spill water, should be decreased as a result of these projects. Other annual operation and maintenance costs associated with the canal system are expected to remain the same with little change in costs as a result of these projects.

The following pages detail the proposed budgets for the subprojects included in this application. A separate budget has been prepared for each subproject to more effectively allocate the costs.

OMB Approval No. 4040-0008
Expiration Date 07/30/2010

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	$ 2,310.00	$	$ 2,310.00
2. Land, structures, rights-of-way, appraisals, etc.	$	$	$ 0.00
3. Relocation expenses and payments	$	$	$ 0.00
4. Architectual and engineering fees	$ 9,780.00	$	$ 9,780.00
5. Other architectural and engineering fees	$	$	$ 0.00
6. Project inspection fees	$	$	$ 0.00
7. Site work	$	$	$ 0.00
8. Demolition and removal	$	$	$ 0.00
9. Construction	$ 1,012,322.66	$	$ 1,012,322.66
10. Equipment	$ 45,076.50	$	$ 45,076.50
11. Miscellaneous	$ 22,300.00	$	$ 22,300.00
12. SUBTOTAL *(sum of lines 1-11)*	$ 1,091,789.16	$ 0.00	$ 1,091,789.16
13. Contingencies	$ 106,000.00	$	$ 106,000.00
14. SUBTOTAL	$ 1,197,789.16	$ 0.00	$ 1,197,789.16
15. Project (program) income	$	$	$ 0.00
16. TOTAL PROJECT COSTS *(subtract #15 from #14)*	$ 1,197,789.16	$ 0.00	$ 1,197,789.16

FEDERAL FUNDING

17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	Enter eligible costs from line 16c Multiply X 50 %	$ 598,894.58

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BUDGET NARRATIVE FOR J-8 Tail Water Reuse Project

BUDGET ITEM DESCRIPTION		$/UNIT	QUANTITY	UNIT	RECIPIENT FUNDING	RECLAMATION FUNDING	TOTAL COST
SALARIES AND WAGES							
	Supervisor	$ 28.41	110	HR	$ 3,125.10	$ -	$ 3,125.10
	Const. Crew (4 employees @ 12.50/hr.)	$ 98.10	440	HR	$ 43,164.00	$ -	$ 43,164.00
	Equipment Operator	$ 25.00	488	HR	$ 12,200.00	$ -	$ 12,200.00
	Engineer	$ 60.00	83	HR	$ 4,980.00	$ -	$ 4,980.00
	Adminstrative Assistant	$ 33.00	30	HR	$ 990.00		$ 990.00
FRINGE BENEFITS		Included in Hourly Employee Rate Above					
TRAVEL		$ -	0		0	0	0
EQUIPMENT USE							
	JD 350 Excavator	$ 125.00	109	HR	$ 13,625.00	$ -	$ 13,625.00
	Hitachi 120 Excavator	$ 55.00	66	HR	$ 3,630.00	$ -	$ 3,630.00
	Dump Truck	$ 47.50	181	HR	$ 8,597.50	$ -	$ 8,597.50
	Loader	$ 57.00	19	HR	$ 1,083.00	$ -	$ 1,083.00
	D-5 Cat	$ 50.00	28	HR	$ 1,400.00	$ -	$ 1,400.00
	2 Tampers	$ 124.00	9	DAY	$ 1,116.00	$ -	$ 1,116.00
	Rock Drill	$ 125.00	91	HR	$ 11,375.00	$ -	$ 11,375.00
SUPPLIES/MATERIALS							
	Explosives and Accessories	$ 11,000.00	1	EA	$ -	$ 11,000.00	$ 11,000.00
	Trench Soil Import	$ 3.00	1400	CY	$ -	$ 4,200.00	$ 4,200.00
	21" 100 psi PIP pipe	$ 18.00	2500	LF	$ -	$ 45,000.00	$ 45,000.00
	30" Corrugated Metal Pipe Sleeve	$ 25.00	60	LF	$ -	$ 1,500.00	$ 1,500.00
	Concrete Headwall	$ 500.00	1	EA	$ -	$ 500.00	$ 500.00
	21" Electrically operated slide gate	$ 12,000.00	1	EA	$ -	$ 12,000.00	$ 12,000.00
Contractual							
	Gate Controls and Site Telemetry (materials)	$ 11,000.00	1	EA	$ -	$ 11,000.00	$ 11,000.00
	J-8 Pond level sensing and Telemetry (materials)	$ 5,900.00	1	EA	$ -	$ 5,900.00	$ 5,900.00
	Central Computer control and Telemetry (materials)	$ 4,000.00	1	EA	$ -	$ 4,000.00	$ 4,000.00
	SCADA System Installation and Set-up (Labor)	$ 5,600.00	1	EA	$ -	$ 5,600.00	$ 5,600.00
Other							
	Contingencies (10%)	$ 20,000.00	1	LS	$ 20,000.00		$ 20,000.00
	Environmental/Regulatory Compliance					$ 5,000.00	$ 5,000.00
Total Direct Costs							$ 230,985.60
Indirect Cost							0
Total Costs					$ 125,285.60	$ 105,700.00	$ 230,985.60 *

***-USBR Maximum funding level is 50% of costs.**

BUDGET NARRATIVE FOR S COULEE WATER CONSERVATION IMPROVEMENTS PROJECT

BUDGET ITEM DESCRIPTION	$/UNIT	QUANTITY	UNIT	RECIPIENT FUNDING	RECLAMATION FUNDING	TOTAL COST
SALARIES AND WAGES						
Supervisor	$ 28.41	16	HR	$ 454.56	$ -	$ 454.56
Const. Crew (4 employees @ 12.50/hr.)	$ 98.10	40	HR	$ 3,924.00	$ -	$ 3,924.00
Equipment Operator	$ 25.00	30	HR	$ 750.00	$ -	$ 750.00
Engineer (Alan Hansten)	$ 60.00	20	HR	$ 1,200.00	$ -	$ 1,200.00
Adminstrative Assistant	$ 33.00	20	HR	$ 660.00		$ 660.00
FRINGE BENEFITS	Included in Hourly Employee Rate Above					
TRAVEL	$ -	0		0	0	0
EQUIPMENT USE						
JD 350 Excavator	$ 125.00	30	HR	$ 3,750.00	$ -	$ 3,750.00
Hitachi 120 Excavator	$ 55.00		HR	$ -	$ -	$ -
Dump Truck	$ 47.50		HR	$ -	$ -	$ -
Loader	$ 57.00		HR	$ -	$ -	$ -
D-5 Cat	$ 50.00		HR	$ -	$ -	$ -
2 Tampers	$ 124.00		DAY	$ -	$ -	$ -
Rock Drill	$ 125.00	4	HR	$ 500.00	$ -	$ 500.00
SUPPLIES/MATERIALS						
Redi-Mix Concrete	$ 77.00	15	CY	$ -	$ 1,155.00	$ 1,155.00
Reinforcing Steel	$ 500.00	1	EA	$ -	$ 500.00	$ 500.00
Catwalk Grating and safety rails,	$ 750.00	1	EA	$ -	$ 750.00	$ 750.00
Contractual						
J&S Pond Telemetry (materials)	$ 3,600.00	1	EA	$ -	$ 3,600.00	$ 3,600.00
J&S Pond Site Telemetry (Labor)	$ 3,200.00	1	EA	$ -	$ 3,200.00	$ 3,200.00
Flow Measurement on S Coulee at Moyle's (Materials)	$ 10,500.00	1	EA	$ -	$ 10,500.00	$ 10,500.00
Flow Measurement on S Coulee at Moyle's (Labor)	$ 3,200.00	1	EA	$ -	$ 3,200.00	$ 3,200.00
S-Tail Water Pond Level Measurement (Materials)	$ 5,900.00	1	EA	$ -	$ 5,900.00	$ 5,900.00
S-Tail Water Pond Level Measurement (Labor)	$ 3,200.00	1	EA	$ -	$ 3,200.00	$ 3,200.00
S-Tail Water Pump Station	$ 214,000.00	1	LS		$ 214,000.00	$ 214,000.00
S-Tail Water Pipeline	$ 43.00	5800	LF		$ 249,400.00	$ 249,400.00
Engineering, permitting, legal	$ 20,000.00	1	LS		$ 20,000.00	$ 20,000.00
Idaho Power Connection	$ 20,000.00	1	LS		$ 20,000.00	$ 20,000.00
Other						
Contingencies (10%)	$ 55,000.00	1	LS	$ -	$ 55,000.00	$ 55,000.00
Environmental/Regulatory Compliance	$ 11,000.00	1	LS	$ -	$ 11,000.00	$ 11,000.00
Total Direct Costs						$ 612,643.56
Indirect Cost						0
Total Costs				$ 11,238.56	$ 601,405.00	$ 612,643.56 *

***-USBR Maximum funding level is 50% of costs**

BUDGET NARRATIVE FOR W-9 POND WATER REUSE PROJECT

BUDGET ITEM DESCRIPTION	$/UNIT	QUANTITY	UNIT	RECIPIENT FUNDING	RECLAMATION FUNDING	TOTAL COST
SALARIES AND WAGES						
Supervisor	$ 28.41	0	HR	$ -	$ -	$ -
Const. Crew (4 employees @ 12.50/hr.)	$ 98.10	0	HR	$ -	$ -	$ -
Equipment Operator	$ 25.00	0	HR	$ -	$ -	$ -
Engineer	$ 60.00	20	HR	$ 1,200.00	$ -	$ 1,200.00
Adminstrative Assistant	$ 33.00	10	HR	$ 330.00		$ 330.00
FRINGE BENEFITS	Included in Hourly Employee Rate Above					
TRAVEL	$ -	0		0	0	0
EQUIPMENT USE						
JD 350 Excavator	$ 125.00		HR	$ -	$ -	$ -
Hitachi 120 Excavator	$ 55.00		HR	$ -	$ -	$ -
Dump Truck	$ 47.50		HR	$ -	$ -	$ -
Loader	$ 57.00		HR	$ -	$ -	$ -
D-5 Cat	$ 50.00		HR	$ -	$ -	$ -
2 Tampers	$ 124.00		DAY	$ -	$ -	$ -
Rock Drill	$ 125.00		HR	$ -	$ -	$ -
SUPPLIES/MATERIALS						
	$ -			$ -	$ -	$ -
	$ -		LF	$ -	$ -	$ -
				$ -	$ -	$ -
				$ -	$ -	$ -
				$ -	$ -	$ -
				$ -	$ -	$ -
Contractual						
Pump Station (materials)	$ 111,000.00	1	EA	$ -	$ 111,000.00	$ 111,000.00
Pump Station (labor)	$ 73,000.00	1	LS	$ -	$ 73,000.00	$ 73,000.00
Pipeline (materials)	$ 12.00	2000	LF	$ -	$ 24,000.00	$ 24,000.00
Pipeline (labor)	$ 24,000.00	1	LS	$ -	$ 24,000.00	$ 24,000.00
Idaho Power Electrical Service	$ 20,000.00	1	LS	$ -	$ 20,000.00	$ 20,000.00
Engineering	$ 10,500.00	1	LS		$ 10,500.00	$ 10,500.00
Other						
Contingencies (10%)	$ 26,000.00	1	LS			$ 26,000.00
Environmental/Regulatory Compliance	$ 5,300.00	1	LS			$ 5,300.00
Total Direct Costs						$ 295,330.00
Indirect Cost						0
Total Costs				$ 1,530.00	$ 262,500.00	$ 295,330.00 *

***-USBR Maximum funding level is 50% of costs.**

BUDGET NARRATIVE FOR S-19 POND WATER REUSE PROJECT

BUDGET ITEM DESCRIPTION	$/UNIT	QUANTITY	UNIT	RECIPIENT FUNDING	RECLAMATION FUNDING	TOTAL COST
SALARIES AND WAGES						
Supervisor	$ 28.41	0	HR	$ -	$ -	$ -
Const. Crew (4 employees @ 12.50/hr.)	$ 98.10	0	HR	$ -	$ -	$ -
Equipment Operator	$ 25.00	0	HR	$ -	$ -	$ -
Engineer	$ 60.00	40	HR	$ 2,400.00	$ -	$ 2,400.00
Adminstrative Assistant	$ 33.00	10	HR	$ 330.00		$ 330.00
FRINGE BENEFITS	Included in Hourly Employee Rate Above					
TRAVEL	$ -	0		0	0	0
EQUIPMENT USE						
JD 350 Excavator	$ 125.00		HR	$ -	$ -	$ -
Hitachi 120 Excavator	$ 55.00		HR	$ -	$ -	$ -
Dump Truck	$ 47.50		HR	$ -	$ -	$ -
Loader	$ 57.00		HR	$ -	$ -	$ -
D-5 Cat	$ 50.00		HR	$ -	$ -	$ -
2 Tampers	$ 124.00		DAY	$ -	$ -	$ -
Rock Drill	$ 125.00		HR	$ -	$ -	$ -
SUPPLIES/MATERIALS						
	$ -			$ -	$ -	$ -
	$ -		LF	$ -	$ -	$ -
				$ -	$ -	$ -
				$ -	$ -	$ -
				$ -	$ -	$ -
				$ -	$ -	$ -
Contractual						
Pump Station: 2-50Hp Pumps (materials)	$ 23,000.00	1	EA	$ -	$ 23,000.00	$ 23,000.00
Pump Station (labor)	$ 15,000.00	1	EA	$ -	$ 15,000.00	$ 15,000.00
Pipeline (materials)	$ 8.00	200	LF	$ -	$ 1,600.00	$ 1,600.00
Pipeline (labor)	$ 2,500.00	1	LS	$ -	$ 2,500.00	$ 2,500.00
Idaho Power Connection	$ 8,000.00	1	LS		$ 8,000.00	$ 8,000.00
Other						
Contingencies (10%)	$ 5,000.00	1	LS		$ 4,000.00	$ 5,000.00
Environmental/Regulatory Compliance	$ 1,000.00	1	LS		$ 1,000.00	$ 1,000.00
Total Direct Costs						$ 58,830.00
Indirect Cost						0
Total Costs				$ 2,730.00	$ 55,100.00	$ 58,830.00 *

***-USBR Maximum funding level is 50% of costs.**

NORTHSIDE CANAL COMPANY LTD.
WATERSMART: WATER & ENERGY EFFICIENCY PROGRAM
SPILL WATER REUSE PROJECT
FIGURE 1

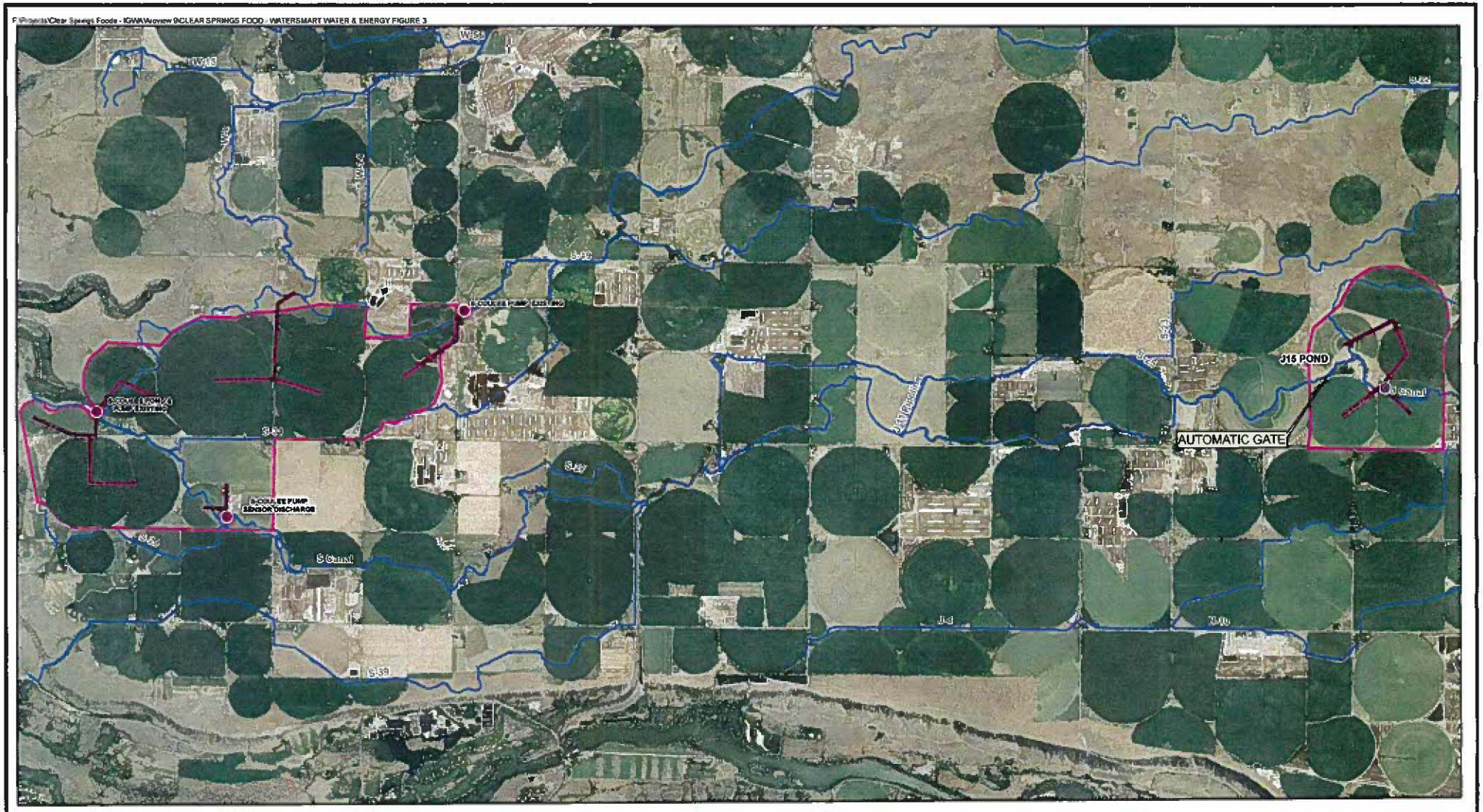
BROCKWAY ENGINEERING PLLC
KLR - MAY 5, 2010

1 inch equals 1,200 feet
NAIP 2009 AERIAL

NORTHSIDE CANAL COMPANY LTD.
WATERSMART: WATER & ENERGY EFFICIENCY PROGRAM
N10/J8 SPILL WATER REUSE PROJECT

BROCKWAY ENGINEERING PLLC
ALR -MAY 3, 2010

FIGURE 2



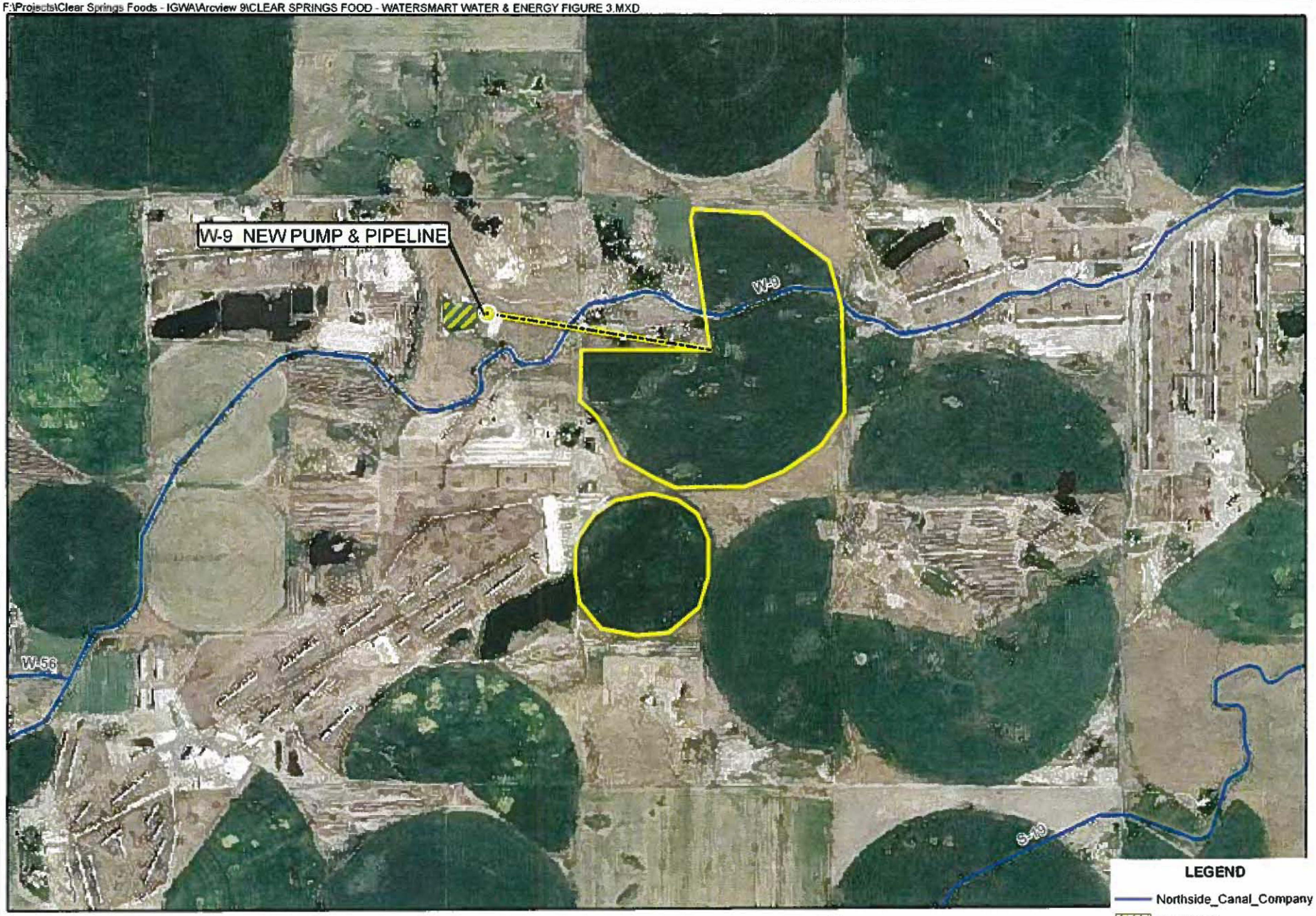
1 inch equals 2,600 feet
NAIP 2009 AERIAL

NORTHSIDE CANAL COMPANY
WATERSMART: WATER & ENERGY EFFICIENCY PROJECT

FIGURE 3

BROCKWAY ENGINEERING PLLC
ALR - APRIL 30, 2010

F:\Projects\Clear Springs Foods - IGWA\Arcview 9\CLEAR SPRINGS FOOD - WATERSMART WATER & ENERGY FIGURE 3.MXD



1 inch equals 1,200 feet
NAIP 2009 AERIAL

NORTHSIDE CANAL COMPANY LTD.
WATERSMART: WATER & ENERGY EFFICIENCY PROGRAM
W-9 SPILL WATER REUSE PROJECT

N

LEGEND

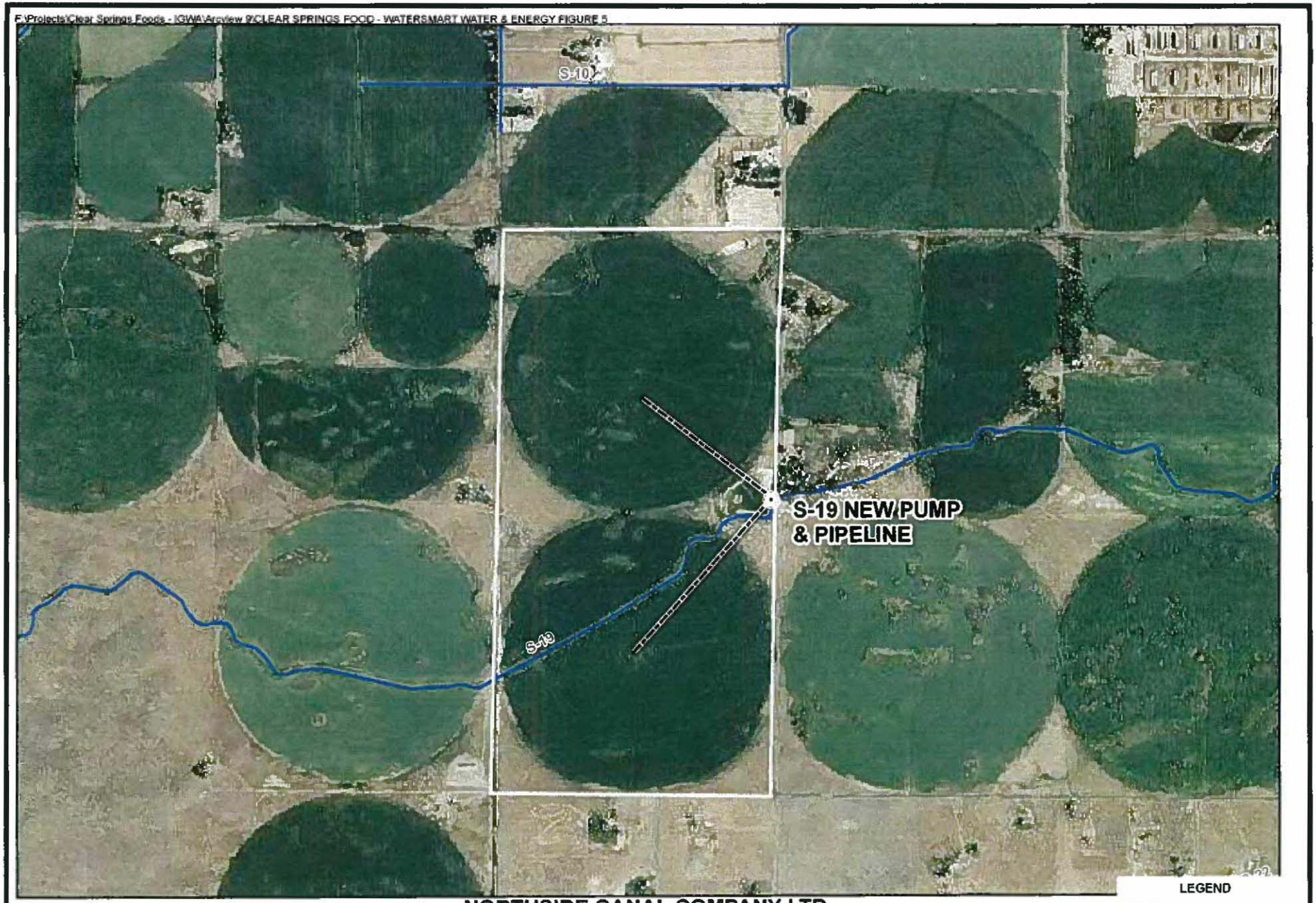
- Northside_Canal_Company
- W-9 POND
- W-9 PUMP
- W-9 PIPELINE

Project Estimated Service Area

- W-9

BROCKWAY ENGINEERING PLLC
ALR - MAY 3, 2010

FIGURE 4



1 inch equals 1,200 feet
NAIP 2009 AERIAL

NORTHSIDE CANAL COMPANY LTD.
WATERSMART: WATER & ENERGY EFFICIENCY PROGRAM
S-19 SPILL WATER REUSE PROJECT

BROCKWAY ENGINEERING PLLC
ALR - MAY 3, 2010

FIGURE 5