

ROSEBUD SIOUX TRIBE
Resolution No. 2020-26

WHEREAS, the Rosebud Sioux Tribe is a federally recognized Indian tribe organized pursuant to the Indian Reorganization Act of 1934 and all pertinent amendments thereof; and

WHEREAS, the Rosebud Sioux Tribe is governed by the Tribal Council made up of elected representatives who act in accordance with the powers granted to it by its Constitution and By-Laws; and

WHEREAS, BIA has funded two projects (1) Continuation of the Groundwater Monitoring Network - \$44,000.00 (2) Stream gauging - \$44,160.00; and

WHEREAS, the projects will be carried out in conjunction with USGS; and

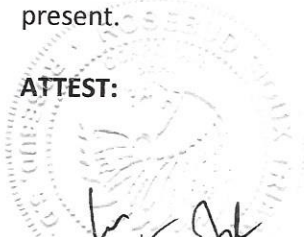
WHEREAS, the project descriptions (attached) were reviewed by RST Land and Natural Resources Committee and they have recommended approval to Tribal Council; and

NOW THEREFORE BE IT RESOLVED, that the Tribal Council approved the Committee's recommendation and directs the Tribal President and Director Water Resources for implementation

CERTIFICATION

This is to certify that the above Resolution No. 2020-26 was duly passed by the Rosebud Sioux Tribal Council in session on February 18, 2020, by a vote of thirteen (13) in favor, zero (0) opposed and two (2) not voting. The said resolution was adopted pursuant to authority vested in the Council. A quorum was present.

ATTEST:



Wayne Boyd, Secretary
Rosebud Sioux Tribe

Rodney M. Berdeaux, President
Rosebud Sioux Tribe

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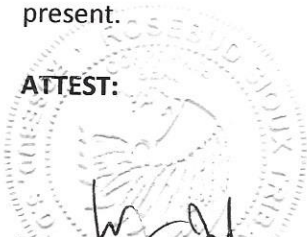
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Wayne Boyd, Secretary
Rosebud Sioux Tribe

Rodney M. Bordeaux, President
Rosebud Sioux Tribe



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Rosebud Agency
Post Office Box 228
Mission, South Dakota 57555

IN REPLY REFER TO:
Office of the Superintendent

MAR 02 2020

Honorable Rodney Bordeaux
President, Rosebud Sioux Tribe
Post Office Box 430
Rosebud, South Dakota 57570

Attention: Louis Wayne Boyd, RST Secretary

Dear President Bordeaux:

The following resolutions, received in this office on 02/27/2020 have been reviewed and re-routed to the appropriate branches.

Resolution No. 2018-301 (Reconsider and Amended: 02/18/2020)
Resolution No. 2019-179 (Amended: 02/18/2020)
Resolution No. 2019-279 (Amended: 02/19/2020)
Resolution No. 2019-292
Resolution No. 2019-293
Resolution No. 2020-06
Resolution No. 2020-07
Resolution No. 2020-08
Resolution No. 2020-19
Resolution No. 2020-20
Resolution No. 2020-22
Resolution No. 2020-23
Resolution No. 2020-24
Resolution No. 2020-26
Resolution No. 2020-27

Resolution No. 2020-41
Resolution No. 2020-42
Resolution No. 2020-44
Resolution No. 2020-45
Resolution No. 2020-46
Resolution No. 2020-47
Resolution No. 2020-48
Resolution No. 2020-49
Resolution No. 2020-50
Resolution No. 2020-56
Resolution No. 2020-57
Resolution No. 2020-58
Resolution No. 2020-59
Resolution No. 2020-60
Resolution No. 2020-61

Sincerely,

Acting Delores Springer
Superintendent

Enclosure

ROSEBUD SIOUX TRIBE
Resolution No. 2020-26

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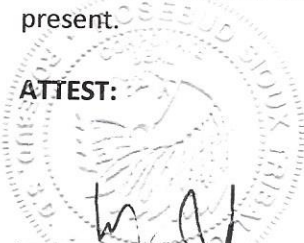
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ATTEST:



Wayne Boyd, Secretary
Rosebud Sioux Tribe

A handwritten signature in black ink, appearing to read "Rodney M. Bordeaux".

Rodney M. Bordeaux, President
Rosebud Sioux Tribe



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Rosebud Agency
Post Office Box 228
Mission, South Dakota 57555

IN REPLY REFER TO:
Office of the Superintendent
Self-Determination

NOV 04 2019

Honorable Rodney Bordeaux
President, Rosebud Sioux Tribe
Post Office Box 430
Rosebud, South Dakota 57555

Dear President Bordeaux:


Enclosed is a funding document informing us of available money, in the amount of \$88,160.00 for the following two water management projects:

1. Continuation of the RST and USGS Groundwater Monitoring Network - \$44,000.00
2. RST Surface Water Quantification Project and Streamflow Gauging - \$44,160.00

Regarding project number 2, please have water resources submit a scope of work with deliverables, budget for the available amount, and budget justifications to the local Bureau of Indian Affairs for incorporation into the contract file. This same information was previously submitted and received for project number 1. We will also need an authorizing resolution for the projects since the dollar amount is over \$9,999.00.

If you have any questions, you may contact Andrea Waln, Self-Determination Specialist, at (605) 856-2375.

Sincerely,


Lee A. Beardt
Superintendent

Enclosures

cc: Syed Huq, Director, Water Resources
Ken LaDeaux, Director, Sicangu Resource Development
Diana Spotted Tail, 638 Finance Monitor
Gerald Dillon, Awarding Official's Technical Representative

**BUREAU OF INDIAN AFFAIRS
FY 2019 FUNDING REQUEST
WATER MANAGEMENT, PLANNING, & PRE-DEVELOPMENT (N34)
GREAT PLAINS REGIONAL OFFICE, ABERDEEN, SD**

- 1. DATE OF REQUEST:** August 16, 2018 Modified Sept. 20, 2019
- 2. TRIBE AND RESERVATION NAME:** Rosebud Sioux Tribe; Rosebud Reservation, South Dakota
- 3. PROJECT NAME AND PURPOSE:** Continuation of Rosebud Sioux Tribe and U.S. Geological Survey Groundwater Monitoring Network. The purpose of this project is continued operation and maintenance of a groundwater monitoring network for the Reservation.
- 4. FUNDING AMOUNT REQUESTED:** \$64,000 Awarded \$44,000
- 5. TYPE OF REQUEST:** Water Resources Management Planning & Pre-Development
- 6. PROJECT MANAGER NAME AND CONTACT INFORMATION:**

Syed Huq (shuq@sicangu.com)
Director of Water Resources
Rosebud Sioux Tribe

P.O. Box 430
Rosebud, SD 57570
Phone (605) 747-2559; Fax (605) 747-5039

7. NAME AND CONTACT INFORMATION OF PERSON PREPARING THE REQUEST:

Syed Huq (*info above*) and
Dan Driscoll, Hydrologist (dgdrisco@usgs.gov)
Hydrologist, U.S. Geological Survey (USGS)

1608 Mt. View Road, Rapid City, SD 57702
Phone (605) 394-3211; Fax (605) 355-4523

8. PROJECT DESCRIPTION:

Background/Need: The Rosebud Reservation comprises all of Todd County (fig. 1). Extensive tribal lands and populations also are located in nearby Gregory, Lyman, Mellette, and Tripp Counties. The primary sources of groundwater for the Rosebud Reservation are the Ogallala and Arikaree aquifers, which compose the High Plains aquifer system that extends as far south as Texas and is the most heavily utilized aquifer system in the United States. Large-scale irrigation development has resulted in dramatically decreased groundwater storage and reduced water levels in some states. Increasing commodity prices are driving dramatic changes towards more intensive agricultural practices aimed at increased crop production, which has potential to increase irrigation demand. The State of South Dakota has jurisdiction for issuing water rights for non-tribal lands both within and beyond the reservation boundaries. Thus, the Rosebud Sioux Tribe (RST) needs quantitative information on water levels in these aquifers, which are critical for municipal, domestic, and agricultural water supplies.

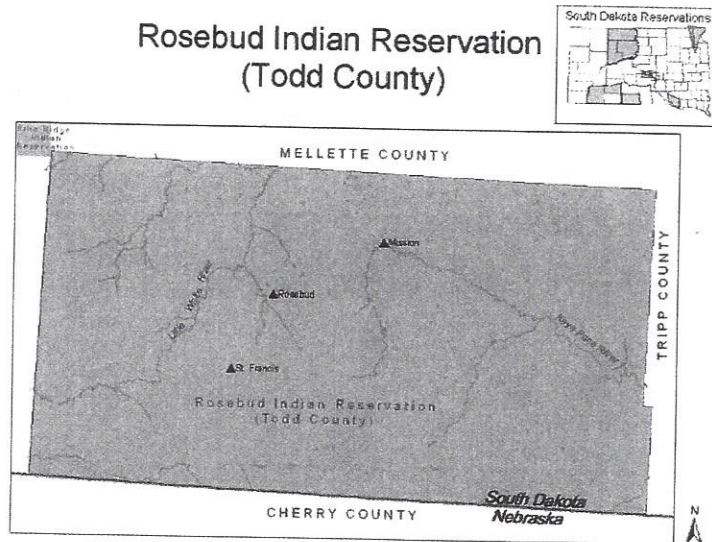


Figure 1. Location of the Rosebud Reservation within south-central South Dakota.

In response, RST began collaborating in 2011 with USGS on a groundwater monitoring network for the High Plains aquifer on the Reservation that currently includes real-time monitoring at nine wells. The availability of base-line data is critical for decision-making on tribal water management, and may be the basis for possible future litigation needs. The data will assist RST in moving towards future water-rights quantification for irrigation withdrawals, help in developing a groundwater regulating program for irrigation wells, contribute to tribal water-management planning, and provide data to quantify tribal water availability for irrigation or for possible future litigation. Continued network operation is needed to provide a more complete understanding of effects of irrigation and can be used toward future water-rights quantification. Another benefit will be to provide a better understanding of area water resources for the South Dakota Department of Environment and Natural Resources, state issuers of water permits for non-tribal land parcels. The data will help in developing a better understanding of effects of irrigation and to identify appropriate amounts to allow for withdrawals.

A. Scope of Work:

Task 1 – Operation of Network: USGS will collaborate with RST personnel to operate, maintain, and conduct manual field measurements for all network sites through the end of water year 2020 (ends Sept. 30, 2020). Data will be transmitted to USGS, where it will be checked for quality-assurance/quality-control purposes and served via the publicly available USGS National Water Information System (NWIS) website as real-time data, where data are updated every four hours. Water-level records for nine wells will be worked, checked, and reviewed and will be permanently stored in NWIS. Precipitation gages at seven sites were added during 2014 as part of a separate cooperative program between RST and USGS. Future operation, maintenance, and data compilation for these precipitation gages will be performed, with precipitation records for no ~~two~~ gages to be worked only for April 15 through October 15 of each year. Water-level records for the observation wells will be worked for the entire year.

Task 2 – Technical Assistance on Compilation of Hydrologic Data: A previous component with FY 2016 and 2017 funding involved an effort to characterize effects of climate conditions and withdrawals on water levels in observation wells within the Reservation. This effort is scheduled for completion by December 31, 2018 (see item 8D below), and will be accomplished by publication of a USGS report. This proposed task would involve USGS providing technical assistance to RST staff in performing similar efforts internally, which would allow RST to compile and view updated information on an annual basis. This effort would involve (1) USGS developing documentation on computer scripting that was developed as a primary tool in accomplishing this effort and (2) providing training to RST staff in use of the computer scripting and other associated needs for obtaining and compiling necessary datasets. This task cannot be performed with the reduced funding levels. The other two tasks will be completed as planned, except precipitation records will not be published online for any of the sites.

Task 3 – Project Management: Routine project management activities will be conducted on an ongoing basis.

B. Proposed Methodology: USGS will collaborate with RST personnel to operate, maintain, and conduct manual field measurements for existing all network sites (Task 1). USGS will have primary responsibility for working the water-level records and for serving data to the World Wide Web (web). Water-level and precipitation data will be collected, worked, and archived through the end of water year 2020. Task 2 would involve USGS developing documentation on computer scripting providing training to RST staff in use of the computer scripting and other associated needs for obtaining and compiling necessary datasets.

C. Project Deliverables: The real-time water-level data and precipitation data will be served via the NWIS websites for groundwater (<https://waterdata.usgs.gov/sd/nwis/current/?type=gw>) and precipitation (<https://waterdata.usgs.gov/sd/nwis/current/?type=precip>). Long-term data also can be accessed via the USGS NWIS website.

D. Description of Past Accomplishments: The water-level monitoring network was first implemented with funding from the FY 2011 proposal call. Continuous-monitoring equipment was installed at three sites, one of which included a real-time transmitter. Funding during subsequent fiscal years has allowed expansion of the network to

a total of nine wells, with real-time transmitters at all, and with precipitation gages operated at seven of the sites. FY 2016 and 2017 funds allowed initiation of efforts to characterize effects of climate conditions and withdrawals on water levels. Completion of this effort is planned for December 31, 2018; efforts are progressing well and completion within the planned schedule is anticipated. FY 2018 funding levels were markedly reduced, which resulted in a decrease in the operation and maintenance of the precipitation network, but with no modifications to the groundwater network.

E. Current Status of Litigation/Negotiation Case: N/A

9. BUDGET JUSTIFICATION: The proposed project budget is shown in the following table.

Tasks	Tribal portion	USGS portion	Total
Task 1: Operation of nine real-time GW sites and 7 precipitation sites; serve data to the web; publish the groundwater-level data and 20 precipitation sites data online after USGS review.	\$10,000	\$48,000 \$44,000	\$58,000 \$54,000
Task 2: Technical assistance on compilation of hydrologic data	\$2,000	\$15,000	\$17,000
Task 3: Project management	\$3,000	\$3,000	\$6,000
Project Totals:	\$15,000 \$13,000	\$66,000 \$47,000	\$81,000 \$60,000
			-\$17,000
			-\$16,000
<i>Less USGS Contributing Funds, contingent on availability:</i>			\$64,000
Total Requested:			\$44,000

The total funding request to BIA is for \$44,000 ~~\$64,000~~, of which \$13,000 ~~\$15,000~~ will be retained by RST for involvement in all project phases. Funding of \$31,000 ~~\$49,000~~ will be used for matching with USGS, which will provide \$16,000 ~~\$17,000~~ in matching funds, contingent on availability of matching funds.

10. HISTORY OF FUNDING AND ACCOMPLISHMENTS:

- a. FY 2018 - \$29,000 for GW network; \$32,000 for streamgaging; \$21,000 for naturalized streamflow estimation
- b. FY 2017 - \$89,000 for GW network; \$50,000 for streamgaging; \$40,000 for naturalized streamflow estimation
- c. FY 2016 - \$60,000 for the GW network; \$40,000 for streamgaging; \$41,903 for GW model with Oglala Sioux Tribe; \$60,000 for water resources management plan; \$60,000 for naturalized streamflow estimation
- d. Past Years Accomplishments: See item 8D above for accomplishments on the groundwater (GW) network. The streamgaging network has been ongoing, with more details described in the proposal for that project. Streamflow data are served to the USGS NWIS database on an ongoing basis. RST and the neighboring Oglala Sioux Tribe have collaborated with USGS on a joint project for development of a numerical groundwater flow model for the High Plains Aquifer System, which will be completed with funds from the FY 2017 award. A project for estimation of naturalized streamflows was initiated with FY 2016 funding and FY 2017 and is progressing as planned. A water resources management planning project was initiated with FY 2016 funding and is progressing as planned.
- e. Past 3 Years UDO's (Undelivered Orders): N/A, there have been no Undelivered Orders.

11. WATER RIGHTS FUNDING REQUEST INFORMATION: This is not a Water Rights Funding Request.

12. ENDORSEMENT OF TRIBAL LEADERSHIP: A letter of support from the Tribal Chairman is attached.

Dennis
on file
Q14
18/3/19

BUREAU OF INDIAN AFFAIRS
FY 2019 FUNDING REQUEST
WATER RIGHTS LITIGATION/NEGOTIATION (R3120)
WATER MANAGEMENT PLANNING & PRE-DEVELOPMENT (N3420)
GREAT PLAINS REGIONAL OFFICE

- 1. DATE OF REQUEST:** August 31, 2018 (Modified 7/16/19)
- 2. TRIBE AND RESERVATION NAME:** Rosebud Sioux Tribe of South Dakota, Rosebud Indian Reservation, South Dakota
- 3. PROJECT NAME AND PURPOSE:** Rosebud Sioux Tribe Surface Water Quantification Project and Streamflow Gaging

The project goal is to provide sufficient streamflow information such that the Tribe can verify and update their Water Management Plan through the operation, maintenance, and archival of streamflow data from four sites on select streams on or near the Rosebud Indian Reservation.

- 4. FUNDING AMOUNT REQUESTED:** \$53,600 \$44,160
- 5. TYPE OF REQUEST:** Water Resource Management Planning & Pre-development

The Tribe will work with other Federal and local agencies to obtain data to document the natural variability within the streams on the Reservation. As part of this project, the Tribe will also receive training on the operation, maintenance, and archival of streamflow data from select sites on or near the Rosebud Indian Reservation. This data will be used by the tribe to evaluate changes in water use by upstream parties, to monitor any long-term impacts from groundwater withdrawal, and to facilitate decisions on water use within the Reservation as they work towards the refinement of a Water Management Plan.

6. PROJECT MANAGER NAME & CONTACT INFORMATION

Syed Huq
Water Resources Program Director
Rosebud Sioux Tribe
BIA Rd 903, IHS Complex
Rosebud, SD 57570
Phone (605) 747-2559; Fax (605) 747-5039

7. NAME AND CONTACT INFORMATION OF PERSON PREPARING REQUEST

Syed Huq
Water Resources Program Director
Rosebud Sioux Tribe
BIA Rd 903, IHS Complex
Rosebud, SD 57570
Phone (605) 747-2559; Fax (605) 747-5039

8. PROJECT DESCRIPTION

a. Scope of Work: The primary surface water sources for the Rosebud Indian Reservation are the Little White, White, and the Keya Paha Rivers. The Little White is a tributary to the White River, which is a tributary to the Missouri River. The Keya Paha River flows southeasterly into Nebraska to the Niobrara River and into the Missouri River. Both the Little White and the Keya Paha receive flows from surface water run-off and spring flow recharge primarily from the Ogallala and Arikaree Formations. The White River primarily receives flows from surface water run-off.

The Reservation has been utilizing the Little White and Keya Paha Rivers waters for municipal and residential uses as well as agricultural and recreation uses since the Reservation's inception in 1868. During the past 140 years, these rivers have been depleted by non-tribal uses including upstream irrigation and depletion of groundwater recharge from large pivot-system farms. The Tribe proposes to contract with the U.S. Geological Survey (USGS) to collect streamflow data at the proposed sites and to assist with training of Tribal staff. Tribal staff will accompany USGS staff at the various site visits when available.

- b. Proposed Methodology:
Task 1.

The Rosebud Sioux Tribe and the US Geological Survey propose to operate and maintain continuous discharge stations at the Little White River near Vetal, Little White River near Rosebud, Keya Paha River near Keyapaha, and White River near the town of White River for the time period October 1, 2019 through September 30, 2020. Ongoing data collected at these sites is very important to quantify water volume entering and leaving the Reservation as well as to assess impacts from groundwater withdrawals, climate change, and changes in upstream and tribal land uses. Long-term historical data is needed for the Tribe to fully understand streamflow characteristics as the Tribe works towards refinement of their Water Management Plan. The monitoring also provides insight into how the area responds to climatic changes, including very wet years like 2018 as well as drought years like 2004-2006. (With decreased funding, 2 full time gages will be operated (Little White River near Vetal and White River near White River) as well as assistance for tribal precipitation gages.)

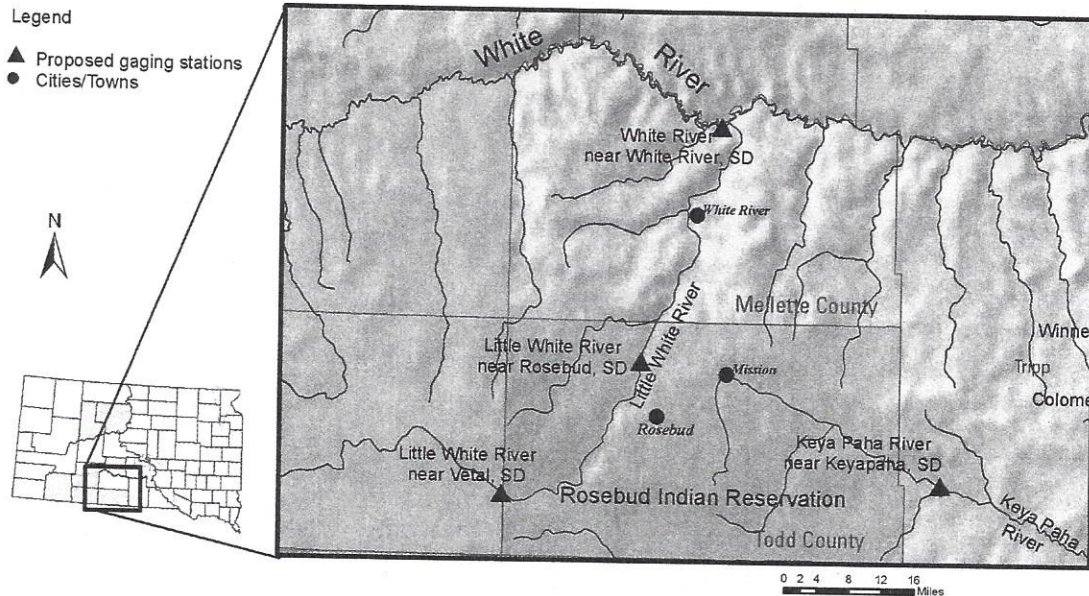


Figure 1. Location of proposed streamflow gaging station on or near the Rosebud Indian Reservation.

Sampling locations are all within or near the Reservation boundary.

If the Tribe would decide to take final steps towards Water Rights Qualification and Quantification, having historical data is imperative. Much of the flow from these streams is springflow based. One of the concerns for the Tribe is that extensive groundwater withdrawals may begin to diminish springflow and base flow in the rivers and streams. The long-term streamflow record provides a strong base for the Tribe to tease out which changes may be more strongly influencing the surface water on the Reservation.

c. Project Deliverables: Results from this activity will include daily discharge values for the time frame of Oct. 1, 2019 through September 30, 2020 as well as a staff that is better trained in the collection and evaluation of streamflow data. All data will be available in realtime via the web at <http://waterdata.usgs.gov/sd/nwis/>.

d. Description of Past Accomplishments: The work performed from 2005 through 2019, as well as the work proposed here, has forwarded the research and data needed to complete the goals of the Tribes Water Department for refinements and modifications to the Water Resources Management Plan. The gaging stations have been funded in the past by various means or with assistance from other partners including the State of South Dakota, West River Water Development District, and the US Geological Survey. Those partners continue to support this effort.

e. Current Status of Litigation/Negotiation Case: N/A

9. BUDGET JUSTIFICATION

a. Project Cost by Category/Task

Task 1 - Stream Gaging and Training:	
Contracting US Geological Survey Gaging Station operation for 1 year:	\$63,200
(October 1, 2019 – September 30, 2020) 4 2 sites	\$31,360
Technical assistance for operation of Tribal gages	\$ 5,000
Tribal employee assistance and training - 520 hours at \$30 per hour:	\$17,000
Total project cost:	\$85,200
	\$53,360
Contributions by other parties including USGS matching funds:	\$31,600
	\$9,200
Total amount requested:	\$53,600
	\$44,160

b. Phase of Project Completion: This is a single-phase project to be completed in entirety in FY2020. Total funding requested to BIA is for ~~\$53,600~~ \$44,160 awarded of which \$17,000 would be retained by RST for assistance in data collection and coordination of activities.

c. Other Costs Considered Necessary for Project Success: Contributions by other parties is necessary for the completion of this project. Contributions of USGS matching dollars are also contingent on availability.

10. HISTORY OF FUNDING:

Fiscal year	Project name	Funded amount	Deliverable	Status
a. 2018	Surface Water Quantification Project	\$32,000	Inclusion in NWIS, available realtime	Complete 09/30/2019
a. 2018	Estimation of Naturalized or Pre-development flows	\$21,000	Funding received to begin task 2	Estimated completion 09/30/19
a. 2018	Groundwater Monitoring Network	\$29,000	Operation of continuous network	Monitoring complete 09/30/2019;
b. 2017	Surface Water Quantification Project	\$50,000	Inclusion in NWIS	Complete
b. 2017	Estimation of Naturalized or Pre-development flows	\$40,000	Estimated natural/pre-dam flows for tributaries to the Missouri River	Complete: Task 1
b. 2017	Groundwater Monitoring Network	\$89,000	Operation of continuous groundwater levels, report on groundwater conditions	Network monitoring complete, report in progress
c. 2016	Streamflow gaging	\$40,000	Inclusion in NWIS	Complete
c. 2016	Groundwater flow model	\$41,903	Model for Oglala Aquifer	Complete in 2019
c. 2016	Groundwater Monitoring Network	\$60,000	Expansion of Network, continuous groundwater levels and report	Water levels complete, report in progress
c. 2016	Estimation of streamflow and pre-dam conditions on the Missouri River	\$60,000	Estimated natural/pre-dam flows for tributaries to the Missouri River	Complete
c. 2016	Development and implementation of Tribal Water Resources Management Plan	\$60,000	A Tribal Water Resources Management Plan	Complete

d. Past years accomplishments: Data is available to the Tribe and the public on the Wide World Web (<http://waterdata.usgs.gov/sd/nwis/>). Groundwater levels are available via NWISWeb at <http://waterdata.usgs.gov/sd/nwis/current/?type=gw>. Task 1 of Naturalized flows project complete.

e. Past 3 Years UDO's (Undelivered Orders): N/A, there have been no Undelivered Orders.

11. WATER RIGHTS FUNDING REQUEST INFORMATION: This is not a Water Rights Funding request.

12. ENDORSEMENT OF TRIBAL LEADERSHIP: The project is endorsed by the Rosebud Sioux Tribal Council, Rosebud, SD and a letter of support from the Tribal Chairman is attached.