Sanitary / Storm Sewer Facilities Applications
September 2014

September 26, 2014
Item 7

TITLE: Sanitary/Storm Sewer Facilities Funding Applications

EXPLANATION: The following applications have been received by DENR for funding consideration at this meeting. The projects are listed in priority point order as shown in the Intended Use Plan, and the points are listed in parentheses.

a. Pierre (18)
b. Eagle Butte (15)
c. Saint Lawrence (4)

COMPLETE APPLICATIONS: Application cover sheets and WRAP summary sheets with financial analysis have been provided as part of the board packet. Complete applications are available online and can be accessed by typing the following address in your internet browser:

http://denr.sd.gov/bwnrapps/BWNRappssssf0914.pdf

If you would like hard copies of the applications, please contact Dave Ruhnke at (605) 773-4216.

WRAP Review Sheet
Sanitary/Storm Sewer Facilities Funding Application
Applicant: City of Pierre

Project Title:	Cell #3 Construction
Funding Requested:	$1,171,136
Other Proposed Funding:	$600,000 – Local Cash
Total Project Cost:	$1,771,136
Green Reserve Amount:	$0
Project Description:	The city of Pierre recently submitted a permit renewal application which contains landfill design changes. Construction of cell #3 will provide uninterrupted disposal options for customers. Changes will also be made to the leachate collection system to make it more environmentally efficient. These improvements will allow the landfill to continue to serve current customers as well as any interested communities in the future.
Alternatives Evaluated:	The "No Action" alternative was not selected as this alternative will not extend the useful life of the landfill or address the changes proposed in the permit application. The city chose construct an additional cell to extend the useful life of the landfill, provide uninterrupted disposal, and make the system more environmentally efficient.
Implementation Schedule:	The city anticipates that construction will start October 1, 2014 with a completion date of November 30, 2015.
Service Population:	39,000
Current Domestic Rate:	NA
Proposed Domestic Rate at Project Completion:	NA

Interest Rate: 2.25% Term: 10 years Security: Sales Tax

DEBT SERVICE CAPACITY

Coverage at Maximum Loan Amount:	If all funding is provided as loan, the city of Pierre would have 392% coverage based upon sales tax receipts from March 2013 through February 2014.

ENGINEERING REVIEW COMPLETED BY: DREW HUISKEN

FINANCIAL REVIEW COMPLETED BY: JON PESCHONG

RECEIVED
JUN 2 3 2014
Division of Financial
& Technical Assistance

Sanitary/Storm Sewer Facilities Funding Application

Consolidated Water Facilities Construction Program (CWFCP)
Clean Water State Revolving Fund Program (CWSRF)

Applicant	**Proposed Funding Package**	
City of Pierre - Regional Landfill		
Address	CWFCP / CWSRF	$1,172,000
City of Pierre PO Box 1253 222 E Dakota Pierre, SD 57501	Local Cash	$600,000
	Other	
	Other	
Subapplicant	Other	
DUNS Number 070745583	**TOTAL**	$1,772,000

Project Title: Regional Landfill - Cell #3 Construction

Description:

The City of Pierre, Solid Waste Department operates a regional municipal solid waste landfill under permit #10-06 issued by DENR - Waste Management Program. We currently have a renewal application submitted which contains landfill design changes. Plans include the approval/issuance of the permit renewal by Fall 2014 so that design for cell #3 construction can be completed. Request for bids on the construction is anticipated for January 2015 with construction at the new landfill is to begin in the Spring 2015.

This regional landfill services approximately 39,500 people. The City of Pierre is committed to baling the solid waste that goes to the regional landfill. This project is to construct Cell #3 to provide uninterrupted disposal options for our customers. Through a new master plan for the Regional Landfill a review of the leachate collection system showed changes should be made to make the system more environmentally efficient. These changes will be incorporated with the construction of Cell #3.

The Applicant Certifies That:

I declare and affirm under the penalties of perjury that this application has been examined by me and, to the best of my knowledge and belief, is in all things true and correct.

Leon Schochenmaier, City Administrator

Name & Title of Authorized Signatory (Typed) | Signature | Date 6-23-14

Professional Consultants

Application Prepared By: City of Pierre

Contact Person: Valerie Keller

Mailing Address: PO Box 1253 - 222 E Dakota

City, State, and Zip: Pierre SD 57501

Telephone Number: (605) 773-7434 Fax: (605) 773-7436

Email address: valerie.keller@ci.pierre.sd.us

Consulting Engineering Firm: HDR Engineering Inc.

Contact Person: Brent Erickson

Mailing Address: 1611 E Century Ave, Suite 302

City, State, and Zip: Bismarck, ND 58503

Telephone Number: (701) 557-9608 Fax: (701) 557-9640

Email address: brent.erickson@hdrinc.com

Legal Counsel's Firm: Riter, Rogers, Wattier, Northrup, LLP

Legal Counsel: Lindsey Riter-Rapp

Mailing Address: PO Box 280

City, State, and Zip: Pierre SD 57501

Telephone Number: (605) 224-5825 Fax: (605) 224-7102

Email address: lindsey@riterlaw.com

Bond Counsel's Firm: City of Pierre

Bond Counsel: Twila Hight

Mailing Address: PO Box 1253 - 222 E Dakota

City, State, and Zip: Pierre, SD 57501

Telephone Number: (605) 773-3063 Fax: (605) 773-7406

Email address: twila.hight@ci.pierre.sd.us

BUDGET SHEET

Cost Classification	A CWFCP / DWSRF	B	C	D	E	Total Funds
1. Administrative Expenses						
A. Personal Services						
B. Travel						
C. Legal including Bond Counsel						
D. Other						
2. Land, Structure, Right-of-Way						
3. Engineering						
A. Bidding and Design Fees						
B. Project Inspection Fees						
C. Other						
4. Construction and Project Improvement						
5. Equipment						
6. Contractual Services						
7. Other						
8. Other						
9. Subtotal (Lines 1-8)						
10. Contingencies						
11. Total (Lines 9 and 10)						
12. Total %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Columns A - E: Identify each funding source and enter the amounts budgeted by cost category.

Comments:

Method of Financing

Source Header	Secured Funds	Unsecured Funds (Date Anticipated)
Local Cash (Identify Source)		
Other (Explain) _____		
Other (Explain) _____		
Other (Explain) _____		
Other (Explain) _____		
Other (Explain) _____		
TOTAL		

Comments:

7.4.1 Repayment Information

Interest rate and term you are applying for: _____ %, _____ years.

What security is being pledged toward the repayment of this loan?

- ☐ 1. General Obligation bond (requires bond election)
- ☐ 2. Wastewater Revenue bond
- ☐ 3. Storm Sewer Revenue bond
- ☐ 4. Project Surcharge Revenue bond
- ☐ 5. Sales Tax Revenue bond

7.4.2 Documents That Must Be Submitted With Application

Financial Documents

1. Most recent audit or unaudited financial statement to include specific accounting of fund pledged for repayment.
2. Current year's budget.

Planning and Legal Documents

1. Governing user charge ordinance or resolution and its effective date.
2. Resolution of authorized signatory for submission of Clean Water SRF application and signing of payment requests. This resolution must also include the maximum loan amount requested, interest rate and term being applied for, description of proposed project, and security pledged towards repayment of the loan.

Facilities Plan (See section 8.4.16 for a detailed outline.)

7.4.3 General Information

The month and day your fiscal year begins: _____

Population Served

Current _____ 2000 _____ 1990 _____

Top Five Employers Within 30 Miles	Number of Employees	Type of Business

Please indicate employers within boundary of issuing entity with an asterisk (*).

7.4.4 Wastewater Utility Information

Current Wastewater Utility Debt

Year							
Purpose							
Security Pledged							
Amount							
Maturity Date (mo/yr)							
Debt Holder							
Debt Coverage Requirement							
Avg. Annual Required Payment							
Outstanding Balance							

Use additional sheets if more room is required to list all current wastewater utility debt.

Wastewater Utility Cash Flow

Fiscal Year	Prior Year	Prior Year	Current Year Budgeted	Future Year #
OPERATING CASH FLOW				
Wastewater Sales				
Surcharge Fee				
Other (Explain) _____				
_____				
OPERATING PAYMENTS				
Personal Services				
Chemical, Material & Supplies				
Electric & Other Utilities				
Other (Explain) _____				
_____				
NET CASH FROM OPERATIONS				
NONOPERATING CASH FLOW				
Interest Income				
Other Revenue (Explain) _____				
_____				
Transfers In (Explain) _____				
_____				
Fixed Asset Sale (Explain) _____				
_____				
Transfers Out (Explain) _____				
_____				
Fixed Asset Purchases (Explain) _____				
_____				
Debt Payment (Principal Only)				
Debt Payment (Interest Only)				
Other Expenses (Explain) _____				
_____				
NET CASH FROM NONOPERATING				
Net Increase (Decrease) in Cash				
Beginning Cash Balance				
Ending Cash Balance				
RESTRICTED BALANCE				
UNRESTRICTED BALANCE				

Future Year: First full year after project completion.

Restricted Funds Breakdown:

Amount	Anticipated Expense	Method Used to Encumber

Wastewater Fees:

Attach current and proposed rate ordinances or resolutions and rate schedules.

Municipal or Sanitary District - monthly rates at 5,000 gallons (670 cubic feet)

Others Systems - monthly rates at 7,000 gallons (935 cubic feet)

Check one: ____ Incorporated Municipality or Sanitary District

or

____ Other System

Monthly:	Current Rate	Proposed Rate	# of Accounts	Average use gallons/cubic feet
Domestic				
Business				
Other:				
Other:				

Are fees based on usage or flat rate? _____

When is proposed fee scheduled to take effect? _____

When did the current fee take effect? _____

What was the fee prior to the current rate? _____

Attach current and proposed rate ordinances or resolutions and rate schedules.

Five Largest Customers	Type of Business	% of System Revenues

Storm Sewer Projects:

Does sponsor have a separate storm water fee? Yes _____ No _____

If yes, attach the current and proposed rate ordinances or resolutions and rate schedules. Identify below the rate charged and explain how fee is calculated.

7.4.5 Property Tax Information

(Complete this section only if General Obligation bond is pledged to repay your loan.)

Three year valuation trend:

Year			
Assessed Valuation			
Full & True Valuation			

Three year levies and collection trend:

Year			
Amount Levied			
Collected			
Penalties/Interest			
Late Payments			

Three Largest Taxpayers	Description	Assessed Valuation

List all current debt secured by General Obligation bond:

Year					
Purpose					
Security Pledged					
Amount					
Maturity Date (mo/yr)					
Debt Holder					
Debt Coverage Requirement					
Avg. Annual Required Payment					
Outstanding Balance					

Use additional sheets if more room is required to list all current G.O. debt.

7.4.6 Sales Tax Information

(Complete only if sales tax is pledged to repay your loan.)

Sales tax revenue history for the most current fifteen months:

Month/Year	Amount Collected

List all current debt secured by sales tax:

Year Issued									
Purpose									
Amount									
Maturity Date (mo/yr)									
Debt Holder									
Debt Coverage Requirement									
Avg. Annual Required Payment									
Outstanding Balance									

Use additional sheets if more room is required to list all current sales tax debt.

7.4.7 Facilities Plan Checklist

Before submitting the application, please take a few moments to complete the following checklist. Addressing these items prior to submitting the application will help expedite the review process.

Checklist of SRF Facilities Plan Requirements

Have the following items been addressed?

- Submission of a Facilities Plan to the department that addresses those items found in section 8.4.16. _____
- A public hearing held discussing the project and the use of an SRF loan to finance the project. (See section 8.4.15) _____
- Minutes of the public hearing prepared and submitted to the department for inclusion into the final Facilities Plan. _____
- The affidavit of publication of the public hearing received and submitted to the department for inclusion into the final Facilities Plan. (See section 8.4.15) _____
- The four review agencies contacted and responses received for inclusion into the final Facilities Plan. (See section 8.4.16) _____

The Cultural Resources Effects Assessment Summary and supporting documentation, such as an archaeological survey or Historic Register database search. (See section 8.4.18) _____

7.4.8 Certification of Point Source Needs Categories

Identify the loan amount associated with the needs categories described below. If the loan addresses needs in more than one category, please break down the total amount into estimated amounts for each category.

Category	Definition	Proposed Loan Amount
I	Secondary Treatment and Best Practicable Wastewater Treatment Technology. Costs for facilities to achieve secondary levels of treatment, regardless of the actual treatment levels required at the facility site. Incremental costs for treatment levels above secondary are to be reported in Category II. For purposes of the Survey, "best practicable wastewater treatment technology" and secondary treatment are considered synonymous. Identified alternative conveyance systems (e.g., small diameter gravity, pressure and vacuum sewers) are to be included in Category I.	_____
II	Advanced Treatment. Incremental costs above secondary treatment for facilities which require advanced levels of treatment. This requirement generally exists where water quality standards require removal of such pollutants as phosphorus, ammonia, nitrates, or organic and other substances. In addition, this requirement exists where removal requirements for conventional pollutants exceed 85 percent.	_____
III A	Infiltration/Inflow Correction. Costs for correction of sewer system infiltration/inflow (I/I) problems. Costs should also be reported for the preparation of preliminary I/I analysis or for a detailed sewer system evaluation survey.	_____
III B	Major Sewer System Rehabilitation. Replacement and/or major rehabilitation of existing sewer systems. Costs are reported if the corrective actions are necessary to the total integrity of the system. Major rehabilitation is considered to be extensive repair of existing sewer beyond the scope of normal maintenance programs (i.e., where sewers are collapsing or structurally unsound).	_____

Category	Definition	Proposed Loan Amount
IV A	New Collectors and Appurtenances. Costs of construction of new collector sewer systems and appurtenances designed to correct violations caused by raw discharges or seepage to waters from septic tanks, or to comply with Federal, State or local actions.	_____
IV B	New Interceptors and Appurtenances. Costs for new interceptor sewers and pumping stations necessary for the bulk transmission of clean water.	_____
V	Correction of Combined Sewer Overflows. Costs for facilities, including conveyance, storage, and treatment, necessary to prevent and/or control periodic bypassing of untreated wastes from combined sewers to achieve water quality objectives and which are eligible for Federal funding. It does not include treatment and/or control of storm waters in separate storm and drainage systems.	_____
VI	New Construction or Rehabilitation of Storm Sewer Systems and Appurtenances. Cost of new construction or rehabilitation associated with the bulk transmission or detention of storm sewer flows. This category includes only runoff projects in communities with Phase I or Phase II storm water permits.	_____
TOTAL		_____

City of Pierre, S.D
Name of Applicant

Signature of Authorized Representative

6-23-14
Date

7.4.9 Certification of Nonpoint Source Needs Categories

Identify the loan amount associated with the needs categories described below. If the loan addresses needs in more than one category, please break down the total amount into estimated amounts for each category.

Category	Definition	Loan Amount
VII-A	NPS pollution - agricultural activities. Plowing, pesticide spraying, irrigation, fertilizing, planting, and harvesting. Example BMPs include conservation tillage, nutrient management, and irrigation water management.	_____
VII-B	NPS pollution - animal production. Confined animal facilities and grazing. Example BMPs include animal waste storage, animal waste nutrient management, composting, and planned grazing.	_____
VII-C	NPS pollution - forestry. Removal of streamside vegetation, road construction and use, timber harvesting, and mechanical preparation for the planting of trees. Example BMPs include preharvest planning, streamside buffers, road management, and revegetation of disturbed areas.	_____
VII-D	NPS pollution - new or existing development in urban or rural setting. Erosion, sedimentation, and discharge of pollutants (e.g., inadequately treated wastewater, oil grease, road salts, and toxic chemicals) into water resources from construction sites, roads, bridges, parking lots, and buildings. Example BMPs include wet ponds, construction site erosion and sedimentation controls, sand filters, and detention basin retrofit. This category includes only runoff projects in communities without phase I or phase II storm water permits.	_____
VII-E	NPS pollution - ground water protection. Wellhead and recharge protection areas. Activities attributed to specific causes are included in a later, more specific category.	_____
VII-F	NPS pollution - boating and marinas. Poorly flushed waterways, boat maintenance activities, discharge of sewage from boats, and physical alteration of shoreline, wetlands, and aquatic habitat during operation or construction of a marina. Example BMPs include pumpout systems and oil containment booms.	_____

Category	Definition	Loan Amount
VII-G	NPS pollution - mining and quarrying activities. Example BMPs: detention berms and seeding or revegetation.	
VII-H	NPS pollution - abandoned, idle, and underused industrial sites. All pollution control activities at these sites regardless of activity. Example BMPs include ground water monitoring wells, in situ treatment of contaminated soils and ground water, capping to prevent storm water infiltration, and storage tank activities at brownfields.	
VII-I	NPS pollution - tanks designed to hold chemicals, gasoline, or petroleum products. Tanks may be located either above or below ground. Example BMPs include spill containment, in situ treatment of contaminated soils and ground water, and upgrade, rehabilitation, or removal of petroleum/chemical storage tanks.	
VII-J	NPS pollution - sanitary landfills. Example BMPs include leachate collection or on-site treatment, gas collection and and control, and capping and closure.	$1,172,000
VII-K	NPS pollution - channel modification, dams, streambank and shoreline erosion, and wetland or riparian area protection or restoration. Example BMPs include conservation easements, swales or filter strips, shore erosion control, wetland development and restoration, and bank and channel stabilization.	
VII-L	NPS pollution - rehabilitation or replacement of individual or community sewerage disposal system. Construction of collector sewers to transport wastes to a cluster septic tank or other decentralized facilities.Collection sewers and expansion of existing or construction of new centralized treatment facilities that replace individual or community sewerage disposal system are included on Point Source Category table.	
TOTAL		$1,172,000

City of Pierre, S.D.

Name of Applicant

Signature of Authorized Representative

6-23-14

Date

7.4.10 Preaward Compliance Review

FORM Approved By OMB: No. 2030-0020 Expires 12-31-2011

United States Environmental Protection Agency
Washington, DC 20460

Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note : Read instructions on other side before completing form.

I. Applicant/Recipient (Name, Address, State, Zip Code).	DUNS No.

II. Is the applicant currently receiving EPA assistance?

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7. See instructions on reverse side.)

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective action taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7. See instructions on reverse side.)

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3)).

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable bypersons with disabilities, explain how a regulatory exception (40 C.F.R. § 7.70) applies.

VII.* Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex,age, or disability in its programs or activities? (40 C.F.R. § 5.140 and § 7.95)

a. Do the methods of notice accommodate those with impaired vision or hearing? b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications? c. Does the notice identify a designated civil rights coordinator?

VIII.* Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. § 7.85(a))

IX.* Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166)

X.* If the applicant/recipient is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator.

XI* If the applicant/recipient is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet address for, or a copy of, the procedures.

For the Applicant/Recipient I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official	B. Title of Authorized Official	C. Date

For the U.S. Environmental Protection Agency I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preawardcompliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisionsof 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized EPA Official See ** note on reverse side.	B. Title of Authorized EPA Official	C. Date

EPA Form 4700-4 (Rev. 03/2008). Previous editions are obsolete.

Instructions for EPA FORM 4700-4 (Rev. 03/2008) General

Recipients of Federal financial assistance from the U.S.Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 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 subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment).

Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities.

Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities.

The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission.

Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution.

40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972.

40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973.

The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items

"Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25.

"Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25.

"Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed.

"Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability.

Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission.

If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable."

In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification.

* Questions VII – XI are for informational use only and will not affect an applicant's grant status. However, applicants should answer all questions on this form. (40 C.F.R. Parts 5 and 7).

** Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.

Approval indicates, in the reviewer's opinion, questions I – VI of Form 4700-4 comply with the preaward administrative requirements for EPA assistance.

"Burden Disclosure Statement"

EPA estimates public reporting burden for the preparation of this form to average 30 minutes per response. This estimate includes the time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to U.S. EPA, Attn: Collection Strategies Division (MC 2822T), Office of Information Collection, 1200 Pennsylvania Ave., NW, Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

The information on this form is required to enable the U.S.Environmental Protection Agency to determine whether applicants and prospective recipients are developing projects, programs and activities on a nondiscriminatory basis as required by the above statutes and regulations.

7.4.11 Certification Regarding Debarment, Suspension, and Other Responsibility Matters

The prospective participant certifies to the best of its knowledge and belief that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) Have not within a three year period preceding this application/ proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 U.S.C. §1001, a false statement may result in a fine of up to $10,000 or imprisonment for up to 5 years, or both.

Leon Schochenmaier, City Administrator

Name & Title of Authorized Representative

Leon Schochenmaier 6-23-14

Signature of Authorized Representative Date

____ I am unable to certify to the above statements. Attached is my explanation

South Dakota
Department of Environment and Natural Resources
Solid Waste Permit Renewal Application
December 2013

Received
DENR
JAN 3 2014
Waste Management
Program

For

City of PIERRE
on the river • on the move

Pierre Regional Landfill
Pierre, South Dakota

By
HDR Engineering, Inc.

HDR

PIERRE REGIONAL LANDFILL
PERMIT RENEWAL APPLICATION
PERMIT NUMBER 10-06

CITY OF PIERRE, SOUTH DAKOTA

DECEMBER 2013

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota. **By:** MATTHEW J. EVANS **Registration Number:** 8246 **Date:** 12-30-13	REGISTERED PROFESSIONAL ENGINEER REG. NO. 8246 MATTHEW J. EVANS SOUTH DAKOTA 12-30-13

City of Pierre, South Dakota
Pierre Regional Landfill

Solid Waste Permit Renewal Application
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APPENDIX M – CONSTRUCTION QUALITY ASSURANCE PLAN (Supersedes 2009 plan)
APPENDIX N – SOURCE REDUCTION PLAN 2012 UPDATE
APPENDIX O – HELP MODELING (Supplements Appendix F and H of Phase II Permit Application)
APPENDIX P – SOIL LOSS CALCULATIONS (RUSLE2)
APPENDIX Q – PIERRE REGIONAL LANDFILL AS-CONSTRUCTED PLANS 2004

SD EForm - 1616 V2

STATE OF SOUTH DAKOTA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RENEWAL OR AMENDMENT APPLICATION TO OPERATE A SOLID WASTE DISPOSAL FACILITY

Return to: PMB 2020
SD Department of Environment and Natural Resources
Waste Management Program
523 East Capitol - Joe Foss Building
Pierre, South Dakota 57501-3182
Telephone: (605) 773-3153

Received
DENR
JAN 6 2014
Waste Management Program

1.0 General Information:

Is this a: renewal of permit [✓]
amendment of permit [ ]

What is the permit number? 10-06

1.01 Landowner Information: (ARSD 74:27:09:03)
Name: City of Pierre
Mailing Address: PO Box 1253
City, Zip Code: Pierre SD 57501-1253
Telephone Number: (605) 773-7341

1.02 Operator Information: (ARSD 74:27:09:03)
Name: Valerie Keller, Solid Waste Manager City of Pierre
Mailing Address: PO Box 1253
City, Zip Code: Pierre SD 57501-1253
Telephone Number: (605) 773-7341

1.03 Applicant/Permit Holder Information: (ARSD 74:27:09:03)
Name: City of Pierre
Mailing Address: PO Box 1253
City, Zip Code: Pierre SD 57501-1253
Telephone Number: (605) 773-7341

1.04 Lien Holder of Public Record: (ARSD 74:27:09:03)
Name: NA
Mailing Address:
City, Zip Code: SD
Telephone Number:

1.05 Legal description of facility (quarter-quarter, section, township, range, county; if subdivided, indicate lots and subdivision): (ARSD 74:27:09:03)

Lot 1 of Landfill Subdivision in the West 1/2 of Section 32, T111N, R77W, in Hughes County, South Dakota.

1.06 Type of facility (ARSD 74:27:09:03): [✓] Landfill [ ] Industrial
[ ] Monofill (specify)
[ ] Other (specify)

1.07 Estimated annual tonnage: (ARSD 74:27:09:03) 24,000 tons MSW

1.08 Type(s) of waste: (check all that apply) (ARSD 74:27:09:03)

- [x] Rubble
- [x] Construction/demolition debris
- [x] Household waste
- [x] Industrial waste
- [x] Petroleum contaminated soil
- [x] Pesticide containers
- [x] Regulated asbestos-containing material
- [ ] Lead-acid batteries
- [ ] Waste oil
- [x] Household or conditionally exempt small quantity generator hazardous waste
- [ ] Waste tires
- [x] Noninfectious medical waste
- [x] Sludge
- [x] Liquid waste
- [x] Ash
- [x] Yard waste
- [ ] Animal wastes
- [x] White goods/salvageable metal
- [ ] Other_____

1.09 Sources of waste: (ARSD 74:27:09:03)

Counties (both rural areas and the cities listed): Hughes (Pierre, Blunt, Harold), Stanley (Ft. Pierre), Sully (Onida, Agar), Hyde (Highmore), Hand (Miller, St. Lawrence, Polo, Ree Heights), Beadle (Huron), Other counties or cities that the City of Pierre Commission may approve to use the Regional Landfill.

1.10 Population served by facility: (ARSD 74:27:09:03)

Current population using Pierre Regional Landfill is approximately 39,502 based on 2010 census. See Appendix N, attached.

1.11 Are there specific applicable local zoning ordinances which restrict the proposed activity? (ARSD 74:27:08:04)
yes [x] no [ ]
See Phase II Permit Application - Appendix A for Conditional Use Permit
(Attach letter of zoning approval or letter stating there are no ordinances or conditional use permits required.)

1.12 Attach a description of local concerns including summaries of general comments, questions, proceedings of public meetings, and any other environmental reviews. (ARSD 74:27:09:03)
See Phase II Permit Application - Appendix B and Appendix D

1.13 Are other state/local permits required? (ARSD 74:27:08:04 & 74:27:09:03)
yes [x] no [ ]

If yes, describe the permits and their status

1) Title V Air Quality Permit renewal submitted to SD-DENR, Permit #28.1101-36
2) Surface Water Discharge Permit #SD0027961 (expires March 2015)

2.0 Design Information (Note: Design information needs to be updated only if different from previously submitted applications.) See Phase II Permit Application, attached Appendix K - Permit Renewal Drawings, and Appendix Q - Pierre Regional Landfill As-Constructed Plans 2004

2.01 Attach a general description of the type of design, including ground water and surface water protection features, leachate minimization features, and estimated impacts to surface waters and ground waters. (ARSD 74:27:09:03) See Phase II Permit Application - Appendix H for design information and Appendix F for Hydrogeo and Alternate Liner Demonstration

2.02 Describe in an attachment how the facility meets the design and construction requirements of ARSD 74:27:12, including a copy of the construction quality assurance plan. (ARSD 74:27:09:03 & 74:27:12:22)
See Phase II Permit Application - Appendix H for design information and typical specifications, and attached Appendix M - Construction Quality Assurance Plan.

2.03 Describe in an attachment the design methods, design assumptions, data, calculations, and descriptions addressing: (ARSD 74:27:09:03) See Phase II Permit Application - Appendix H and attached Appendices I, J, and N

a) Sources, types, and amounts by weight and volume of solid waste received both monthly and annually
b) Projected life of facility
c) Life expectancy of landfill units, special waste management areas, and a timetable for fill progression
d) Volume of cover required for liner, daily cover and closure
e) Water usage and source See Phase II Permit Application for water usage/source
f) Sedimentation and erosion control plan See Appendix P for soil loss.
g) Sizing for pumps, piping, ditches, culverts, ponds, etc. See Appendix O for HELP modeling.

2.04 Describe the technical details for all aspects of the facility design, including: (ARSD 74:27:09:03 & 74:27:12)
See Phase II Permit Application - Appendices F, G, and H, and attached Appendix I and Appendix K - Permit Renewal Drawings

a) Existing grade, excavation grade, and final grade
b) Surface and subsurface drainage controls
c) Well logs and ground water monitoring well completion details
d) Progressive development of trenches or area fills See attached Appendix I - Operations Plan
e) Cover material stockpile locations
f) Surface water quality monitoring system
g) Trenches and fill areas including special waste areas
h) Borrow and fill areas
i) Cross-sections of the lowest point in the lowest cell relating to ground water elevation
j) Roads
k) Perimeter fencing
l) Access control
m) Litter fence placements
n) Facility boundary and buffer zone
o) Facility buildings for equipment and personnel
p) Liners
q) Ground water monitoring locations
r) Leachate collection, removal and treatment systems See attached Appendix O - HELP modeling.
s) Methane gas monitoring system

2.05 Describe in an attachment miscellaneous information, including a table of the capacity and purpose for each piece of equipment required to operate the facility as designed. (ARSD 74: 27:09:03 & 74:27:13:12)
See attached Appendix I - Operations Plan.

2.06 Include the calculations performed to determine the potential for leachate generation at the site. (ARSD 74:27:12:18)

See Phase II Permit Application - Appendix F and additional HELP Modeling in attached Appendix O

3.0 Site Information (Note: Site information needs to be updated only if different from previously submitted applications.) See Phase II Permit Application and attached Appendix K - Permit Renewal Drawings.

3.01 Attach copies of written correspondence received from contacts on the enclosed permit information sources sheet. See Phase II Permit Application - Appendix C.

3.02 Is the facility within 5,000 feet of any airport runway end used by piston-type aircraft only, or within 10,000 feet of any airport runway end used by turbojet aircraft? (ARSD 74:27:11:04)
yes___ no ☑

Attach copy of written correspondence sent to the Federal Aviation Administration if the facility is within five miles of a public airport. (ARSD 74:27:11:04)

See Phase II Permit Application - Appendix C.

3.03 Is the site within 1,000 feet of: (ARSD 74:27:11:05 & 74:27:11:06)

a) Any occupied dwelling? yes ☐ no ☑
b) Any interstate or primary highway? yes ☐ no ☑
c) Any park/recreation area? yes ☐ no ☑
d) Any classified surface water? yes ☐ no ☑

If yes, describe distance(s) and direction(s) from the boundaries of the facility. Attach additional sheet if necessary.

NA

Is the site located in: (ARSD 74:27:11:03, 74:27:11:07 & 74:27:11:08)

a) A wetland? yes ☐ no ☑
b) A gravel pit or quarry? yes ☐ no ☑
c) An unstable area? yes ☐ no ☑
d) A seismic impact zone? yes ☐ no ☑
e) A fault area? yes ☐ no ☑
f) A 100-year floodplain? yes ☐ no ☑

3.04 Facility size (acres): (ARSD 74:27:12:03)

a) Permitted area 203 Acres
b) Active disposal area 120 ac; includes all disposal areas
c) Other operational areas 83 ac

3.05 Describe the current land use and zoning within a one-mile radius. (ARSD 74:27:12:03)

The current land use within one-mile radius of site is agricultural. The land is zoned Ag-A and is intended for agricultural usage.

3.06 List the occupied dwellings within a one-mile radius. (ARSD 74:27:12:03)

There are two occupied dwellings within one-mile radius of site. One dwelling is in the NW 1/4 of Section 31 and the other is in the SW 1/4 of Sectioin 29.

3.07 Describe the water usage, including sources of water and well depths within a one-mile radius. (ARSD 74:27:12:03)

See Phase II Permit Application - Section III.G

3.08 List surface waters and their classifications, including wetlands within a one-mile radius. (ARSD 74:27:12:03)

See Phase II Permit Application - Section III.H and Appendix G.

3.09 Describe the general topography and drainage patterns within a two-mile radius. (ARSD 74:27:12:03)

See Phase II Permit Application - Section III.I and Appendix G.

3.10 Describe the existing site information, its source, reliability, and extent. (ARSD 74:27:12:03)

See Phase II Permit Application - Section III.J

3.11 Describe in an attachment the soil and geologic conditions at the site, including soil types and characteristics, thickness of unconsolidated material, lithologic profile, fracture patterns, unstable areas, seismic impact zones and fault areas. (ARSD 74:27:12:03)

See Phase II Permit Application - Appendix F

3.12 Describe in an attachment the hydrogeologic conditions at the site including depth of ground water; saturated extent of potentially impacted aquifers; potential for ground water use for domestic water supplies, livestock watering, and irrigation purposes; and horizontal and vertical flow rate, flow gradient, and ambient quality of ground water. (ARSD 74:27:12:03)

See Phase II Permit Application - Appendix F

4.0 Maps (Note: Maps need to be updated only if different from previously submitted applications.)

See Phase II Permit Application and attached Appendix K.

4.01 Attach a United States Geological Survey 7.5 minute quadrangle topographical map of the site area with the facility boundary indicated. (ARSD 74:27:09:03)

See Phase II Permit Application - Appendix G.

4.02 Attach an existing conditions map(s) of the area showing: (ARSD 74:27:09:03)

See Phase II Permit Application - Section IV.B and Appendix G.

a) Section, township, and range (PLAT)
b) Land use and zoning within one mile from all boundaries of the site
c) Land and mineral ownership of permitted site
d) All occupied dwellings within one mile from all boundaries of the site
e) Roads
f) Surface water
g) Ground water wells
h) All other existing and man-made features See attached Appendix K and Appendix Q.
i) Facility layout and boundaries See attached Appendix K
j) 100-year floodplain
k) Wetlands

4.03 Attach a contour map of the shallowest occurrences of ground water, and of any other ground water surface of concern, showing the ground water monitoring locations and disposal areas. (ARSD 74:27:09:03)

See Phase II Permit Application - Appendix F

4.04 Attach site maps showing the locations of soil borings, piezometers, soil tests, existing wells, monitoring wells, and other information completed or obtained for the site characterization required by ARSD 74:27:12:03.

See Phase II Permit Application - Appendix F. See attached Appendix K for groundwater monitoring wells locations.

5.0 Operational Information

5.01 Attach an operations plan that addresses each of the requirements in ARSD 74:27:13, including the sources and amounts of special wastes to be handled. A copy of the recordkeeping log to be used, a copy of the emergency response and remedial action plan, a description of waste screening methods, a description of the personnel training plan, and a description of leachate management practices must be included with the operational plan. See attached Appendix I - Operations Plan and Appendix K - Permit Renewal Drawings.

5.02 Describe miscellaneous information including: (ARSD 74:27:09:03)

a) Fees and collection methods
b) Volume reduction methods used at the site
c) Dust control methods

See attached Appendix I - Operations Plan.

5.03 Attach a ground water monitoring plan as required by ARSD 74:27:19.

See Groundwater Monitoring Plan, approved in 2005.
See Annual Water Quality Plan to be submitted by LBG & Associates.

6.0 Describe in an attachment the closure/postclosure plans required by ARSD 74:27:15.

See attached Appendix J - Closure/Post-Closure Plan and Appendix K.

7.0 Include financial assurance information required by ARSD 74:27:16.

See attached Appendix L - Financial Assurance Plan

8.0 Application Fees: Attach the appropriate fee with the application. The application fee is based on the tonnage of solid waste received by the facility per year. (ARSD 74:27:08:02 & 74:27:08:03)

- ☐ Type I - More than 150,000 tons per year . . . . . $5,000.
- ☑ Type IIA - 25,000 to 149,999 tons per year . . . . . $ 500.
- ☐ Type IIB - 5,000 to 24,999 tons per year . . . . . $ 500.
- ☐ Type III - 500 to 4,999 tons per year . . . . . $ 250.
- ☐ Type IV - Less than 500 tons per year . . . . . .No fee.

9.0 Signatures

This application is submitted in accordance with the provisions of the South Dakota Solid Waste Rules, ARSD 74:27:09. By signing this permit application, the signatory acknowledges that they have read and understand the information contained in the foregoing application and attachments, and to the best of their knowledge, the information is true and accurate.

Landowner's Signature — Date: 12-23-13
Leon Schochenmaier, City Administrator

Operator's Signature — Date: 12-20-2013
Valerie Keller, Solid Waste Manager

Supervising Engineer's Signature — Date: 12-27-2013
Matthew Evans, HDR Engineering, Inc.

NA
Lien Holder's Signature — Date: NA

Department of Environment and Natural Resources
Waste Management Program
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182
Telephone: (605) 773-3153

STATE OF SOUTH DAKOTA
BEFORE THE SECRETARY OF
THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF THE	)	**CERTIFICATION OF**
APPLICATION OF THE PIERRE REGIONAL LANDFILL	)	**APPLICANT**
	)	
STATE OF SD	)	
	)	SS
COUNTY OF HUGHES	)	

I, Leon Schochenmaier, City Administrator, the applicant in the above matter after being duly sworn upon oath hereby certify the following information in regard to this application:

(A) South Dakota Codified Laws Section 1-40-27 provides:

"The secretary may reject an application for any permit filed pursuant to Titles 34A or 45, including any application by any concentrated swine feeding operation for authorization to operate under a general permit, upon making a specific finding that:

(1) The applicant is unsuited or unqualified to perform the obligations of a permit holder based upon a finding that the applicant, any officer, director, partner or resident general manager of the facility for which application has been made:

(a) Has intentionally misrepresented a material fact in applying for a permit;

(b) Has been convicted of a felony or other crime involving moral turpitude;

(c) Has habitually and intentionally violated environmental laws of any state or the United States which have caused significant and material environmental damage;

(d) Has had any permit revoked under the environmental laws of any state or the United States; or

(e) Has otherwise demonstrated through clear and convincing evidence of previous actions that the applicant lacks the necessary good character and competency to reliably carry out the obligations imposed by law upon the permit holder; or

(2) The application substantially duplicates an application by the same applicant denied within the past five years which denial has not been reversed by a court of competent jurisdiction. Nothing in this subdivision may be construed to prohibit an applicant from submitting a new application for a permit previously denied, if the new application represents a good faith attempt by the applicant to correct the deficiencies that served as the basis for the denial in the original application.

All applications filed pursuant to Titles 34A and 45 shall include a certification, sworn to under oath and signed by the applicant, that he is not disqualified by reason of this section from obtaining a permit. In the absence of evidence to the contrary, that certification shall constitute a prima facie showing of the suitability and qualification of the applicant. If at any point in the application review, recommendation or hearing process, the secretary finds the applicant has intentionally made any material misrepresentation of fact in regard to this certification, consideration of the application may be suspended and the application may be rejected as provided for under this section.

Applications rejected pursuant to this section constitute final agency action upon that application and may be appealed to circuit court as provided for under chapter 1-26.

(B) South Dakota Codified Law Section 34A-6-1.10 provides:

"**Responsibility and liability of owner or operator.** The owner or operator of a solid waste disposal facility that is regulated under 34A-6-1.1 to 34A-6-1.38, inclusive, is responsible in perpetuity for the solid waste and liable in perpetuity for any pollution or other detrimental effect caused by the solid waste. No person may dispose of solid waste other than mine wastes in this state until the owner or operator of the solid waste disposal facility executes an agreement with the board acknowledging such perpetual responsibility and liability for the solid waste."

Pursuant to SDCL 1-40-27, I certify that I have read the forgoing provision of state law, and that I am not disqualified by reason of that provision from obtaining the permit for which application has been made. In addition, pursuant to SDCL 34A-6-1.10, I hereby agree to and accept perpetual responsibility and liability for the solid waste disposal at this facility.

Dated this 23rd day of December 2013.

Applicant

Subscribed and sworn before me this 23RD day of Dec 2013.

Notary Public

My commission expires: 3/3/2014

(SEAL)

PLEASE ATTACH SHEET DISCLOSING ALL FACTS PERTAINING TO SDCL 1-40-27 (1) (a) THROUGH (e).
ALL VIOLATIONS MUST BE DISCLOSED, BUT WILL NOT AUTOMATICALLY RESULT IN THE REJECTION OF AN APPLICATION

STATE OF SOUTH DAKOTA

BEFORE THE SECRETARY OF THE
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

IN THE MATTER OF THE SOLID WASTE	)	
APPLICATION OF THE PIERRE REGIONAL LANDFILL	)	**CERTIFICATION OF**
	)	**APPLICANT (SDCL 34A-6-74)**
STATE OF SD	) SS	
COUNTY OF HUGHES	)	

I, Leon Schochenmaier, City Administrator (authorized signatory) for the Pierre Regional Landfill of Pierre, SD in the above matter, hereby certify to the following requirements in regard to this application:

A.) The applicant has completed or is otherwise included in a solid waste source reduction and recycling plan prepared pursuant to SDCL 34A-6-74, and

B.) The applicant has documented compliance with the source reduction and recycling plan pursuant to SDCL 34A-6-76.

Pursuant to SDCL 34A-6-76, I hereby certify that I have read SDCL 34A-6-74 and 34A-6-76 and I am in compliance with both sections.

Dated this 23rd day of December 20 13.

Applicant
Leon Schochenmaier, City Administrator

INFORMATION SOURCES (November 2001)

A. Flood Plain Information

1. U.S. Army Corps of Engineers
   106 S. 15th Street
   Omaha, NE 68102-1618
   Randall Behm, Chief (402) 221-4596

2. Federal Emergency Management Agency (FEMA)
   Flood Map Service Center
   PO Box 1038
   Jessup, MD 20794-1038 1-800-358-9616

3. Contact County Government where located.

4. Division of Emergency Management (605) 773-3231

5. Planning & Development Districts:
   Watertown (605) 882-5115
   Aberdeen (605) 626-2595
   Sioux Falls (605) 367-5390
   Yankton (605) 665-4408
   Rapid City (605) 394-2681

B. Wetlands Information

* 1. U.S. Department of the Interior
   Fish & Wildlife Service
   420 S. Garfield
   Pierre, SD 57501 Scott Larson (605) 224-8693

2. Contact local NRCS office

C. USGS Topographic Map Information

1. Contact local NRCS office

2. USGS Map Sales 1-888-275-8747
   Box 25286
   Denver, CO 80225

3. Planning & Development Districts

D. Airport Safety Information

1. Federal Aviation Administration
   Bismarck Airports District Office
   2301 University Drive Bldg 23B
   Bismarck, ND 58504
   Phone: (701) 323-7380
   Fax: (701) 323-7399

2. SD Department of Transportation
   Office of Aeronautics
   700 Broadway Avenue East
   Pierre, SD 57501-2568
   Phone: (605) 773-5037
   Fax: (605) 773-3921

E. Geological & Ground Water Information

1. Contact local NRCS office

2. SD Geological Survey
   USD Science Center
   Vermillion, SD 57069-2390
   Phone: (605) 677-5227

3. US Geological Survey
   Water Resources Division
   1608 Mountain View Road
   Rapid City, SD 57702

4. Contact local well driller(s)

F. Soil Classification Information

1. Contact local NRCS office

G. Surface Water/Wetlands

* 1. Dept. of Environment and Natural Resources
   523 East Capitol - Joe Foss Bldg.
   Pierre, SD 57501-3182
   John Miller - (605) 773-3351
   Also for 401 Certification

2. Resource Conservation and Forestry Division
   Phone: (605) 773-3623
   Note: **For informational purposes only.**

* 3. Game, Fish & Parks
   523 East Capitol - Joe Foss Bldg.
   Pierre, SD 57501-3182
   Leslie Petersen - (605) 773-3387

4. Bureau of Reclamation
   PO Box 226
   Newell, South Dakota 57760
   (605) 456-2695
   For Black Hills area

5. US Army Corps of Engineers
   Pierre Regulatory Office
   Oahe Dam Admin Building
   P.O. Box 1117
   Pierre, South Dakota 57501
   Phone: (605) 224-8531 Fax: (605) 224-5945
   For 404 Permitting

***These people must be contacted for all permits.**

For additional information call the Waste Management Program at (605) 773-3153

PIERRE REGIONAL LANDFILL
PERMIT RENEWAL APPLICATION
PERMIT NUMBER 10-06

CITY OF PIERRE, SOUTH DAKOTA

DECEMBER 2013

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota. By: MATTHEW J. EVANS Registration Number: 8246 Date: 12-30-13	REGISTERED PROFESSIONAL ENGINEER REG. NO. 8246 MATTHEW J. EVANS SOUTH DAKOTA 12-30-13

City of Pierre
Pierre Regional Landfill
Phase II Solid Waste Permit Application (dated October 16, 2001)

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APPENDIX I

OPERATIONS PLAN

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

PIERRE REGIONAL LANDFILL
OPERATIONS PLAN

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PIERRE REGIONAL LANDFILL

OPERATIONS PLAN

This report details the facility operation and contingency plans for the Pierre Regional Landfill as required by South Dakota Department of Environment and Natural Resources Administrative Rules (ARSD) 74:27:13.

1.0 74:27:13:01 APPLICABILITY

The requirements of ARSD 74:27:13 are applicable to all municipal solid waste land fills.

2.0 74:27:13:02 SUPERVISORY PERSONNEL ON DUTY

Supervisory personnel will be present at the Solid Waste Facility and Pierre Regional Landfill during hours of operation. The City of Pierre (City) will operate the Solid Waste Facility at 2800 E. Park in Pierre, South Dakota and the Pierre Regional Landfill site. Waste will either be baled and transferred approximately 14 miles east via roadways from the Solid Waste Facility to the Pierre Regional Landfill (Regional Landfill) located off of 302nd Avenue, or hauled directly to the Regional Landfill for baling or direct disposal.

- When baling operations are located at the Pierre Regional Landfill site, a transfer facility would be located at 2800 E. Park to limit the general public access at the Regional Landfill. The public would be allowed to use roll-off containers at the transfer facility and the City of Pierre will transfer the waste to the Regional Landfill with roll-off containers. Commercial customers would be required to haul their wastes directly to the landfill baling operations.
- When the baling operations are located at the Solid Waste Facility (2800 E. Park), personnel of the City's Solid Waste Department will transport the baled solid waste to the Pierre Regional Landfill. Only municipal solid waste will be accepted at the Solid Waste Facility. Rubble/construction debris or other construction and demolition (C&D) waste items are accepted for disposal at the Pierre Regional Landfill site. The C&D waste disposal area (C&D pit) is located on the west side of the permitted landfill boundaries.

The City of Pierre accepts yard waste, trees, white goods/scrap metal, asphalt, and concrete at a Materials Recovery Site on the east boundary of the City limits located on the closed City Landfill site. There is an electric gate at the entrance to this facility. Remotes to open the gate are given to customers if they need to go to the Materials Recovery Site to unload trees, yard waste, white goods/scrap metal, asphalt and concrete. Additionally, there are roll off boxes for yard waste, trees, white goods/scrap metal, rubble and treated wood at the Solid Waste Facility. City of Pierre employees haul the roll-off-boxes with these items to the Materials Recovery Site. Rubble is hauled to the C&D pit at the Pierre Regional Landfill. The waste placed in the roll-off-boxes is weighed at the time the roll-offs are hauled from the Solid Waste Facility. Compost

from the Materials Recovery Site is available for the general public at the Solid Waste Facility. Compost is weighed before the load is placed at the Solid Waste Facility.

Personnel are shared between the facilities. For the Regional Landfill, typically 3 to 4 supervisory and operating personnel will be at the site during operational hours.

The City of Pierre maintains the following hours of operation at the current Solid Waste Facility and Regional Landfill. These hours of operation will be amended by the City as needed.

TABLE 1 - PIERRE SOLID WASTE FACILITY & REGIONAL LANDFILL OPERATING HOURS

Operating Hours at Solid Waste Facility & Regional Landfill	
Summer	**Winter**
8:00 to 5:30 Monday – Friday	8:00 to 5:00 Monday – Friday
8:00 to 5:00 Commercial Trucks	8:00 to 4:30 Commercial Trucks
9:00 to 1:00 Saturday	9:00 to 1:00 Saturday

The facilities are closed on the following holidays: New Years Day, 4th of July, Thanksgiving Day and Christmas Day. Operations on other holidays are updated annually on the City's website at http://ci.pierre.sd.us/207/Solid-Waste. The Regional Landfill will be secured after hours of operation with locking gate.

3.0 74:27:13:03 DETERMINING THE TONNAGE OF WASTES DELIVERED TO THE FACILITY

The City of Pierre has a scale located at the baling facility. There is also a scale with an unattended system at the Regional Landfill to accommodate charge account customers that utilize the Regional Landfill directly for disposal. All municipal solid waste is weighed as it enters the Solid Waste Facility or prior to disposal at the Regional Landfill. Any other waste (compost, recyclables etc.) that leaves the facility is weighed prior to going to the Materials Recovery Site. The City has records of waste from 2003 to present from scales located at the baling facility and at the Regional Landfill. These tonnages are summarized in the Table 2 below. Over the last five years, the Regional Landfill has accepted an annual average of 24,000 tons of municipal solid waste (MSW) for disposal.

TABLE 2 - MSW REGIONAL LANDFILL MEASURED TONNAGE

Year	MSW Tonnage
2003	1,028
2004	18,593
2005	23,103
2006	22,992
2007	23,299
2008	23,237
2009	23,273
2010	23,966
2011	26,328
2012	23,859
2013	24,694

The City assesses a tipping fee for all waste accepted. The fees are collected at the scale(s) at the time of disposal or they are billed directly to commercial accounts. The fees for 2013 are based on the following weights or unit prices summarized in Table 3.

TABLE 3 - PIERRE SOLID WASTE FACILITY & REGIONAL LANDFILL FEE SCHEDULE (JANUARY 1, 2013)

Landfill Policy: Vehicles hauling refuse must be secured or covered so that no spillage may occur. If the load is not secured a fine up to $20 will be assessed.		
Sales Tax: All loads are charged 6% sales tax		
Commercial Haulers: Commercial solid waste haulers must have an agreement with the City of Pierre prior to using the landfill. The agreements will specify the haulers service area.		
Municipal Solid Waste/Garbage	Car Load	$6.90 per load
	Pickup and/or trailer load / truck With net weight less than 600#	$12.30 per load
	With net weight more than 600#	$41 per ton
Construction Debris & Concrete w/ rebar	Pickup and/or trailer load / truck With net weight less than 600#	$7.77 per load
	With net weight more than 600#	$25.90 per ton
Other Items	White Goods / Scrap Metal (*freon must be removed*)	Incoming - No Charge Outgoing – market
	Trees/Compost Materials	No Charge
	Tree stumps exceeding 24" diameter	$25.90 per ton
Sump Sludge	<2,500 gallons	$29.00 per load
	2,500 – 4,999 gallons	$59.00 per load
	5,000 – 7,500 gallons	$88.00 per load
Asphalt	Not accepted for disposal. Asphalt and concrete (free of rebar and wire mesh) will be accepted and stockpiled for recycling purposes.	No Charge
Concrete	Accepted for recycling, Concrete free of rebar and wire mesh. Concrete with rebar, no free stringers of rebar and maximum of 4' x 6' pieces.	Minimum $3.88
		$12.94 per ton
Contaminated Soil & Fuel Tanks	Contaminated soil and tanks will be received from those entities that have a landfill agreement with the City of Pierre at the following rates:	Minimum Charge of $200 per project with testing
	Gas Contaminated Soil	$10 per ton
	Fuel & Diesel Contaminated Soil	$10 per ton
	Fertilizer/Pesticide Contaminated Soil	$10 per ton
	Underground Fuel Tanks Minimum Charge (based on 1000 gallons)	$100.00 Plus $0.10 per gal.

	Contaminated soil may be received from entities from within the state of South Dakota that do not have a landfill agreement with the City of Pierre at the following rate:	Minimum Charge of $200 per project with testing
	Gas/Fuel/Fertilizer/Pesticide Soils	$16.50 per ton
Regulated Asbestos Materials	Cities and counties within the State of South Dakota that have an agreement with the City for use of our landfill as their solid waste disposal facility.	$29.37 per cubic yard of asbestos material with a minimum charge (based on 1 cubic yard) of $29.375
	Cities and counties within the State of South Dakota that do not have an agreement with the City. Asbestos material will not be accepted where the origin of the material is outside of the state of South Dakota.	$47.05 per cubic yard of asbestos material with a minimum charge (based on 1 cubic yard) of $47.05
Recycling and Yard Waste & Tree Fees	A recycling fee of $0.55 and a $0.61 yard waste & tree fee is assessed to each premises connected to residential electric service.	$1.16 per month total
Out of Service Fee	Items accepted from out of the service area have a per load fee assessed.	$75 per load

4.0 74:27:13:04 UNLOADING OF WASTES

4.1 Solid Waste Facility

Municipal solid waste is brought to the facility in covered trucks or vehicles. The waste is deposited on the concrete floor at the Solid Waste Facility and pushed onto the baler conveyor with a small loader. Load inspections are completed right on the tipping floor at the time the trucks unload. Because of the visibility of the load being dumped, not all load inspections are written up. See Section 74:27:13:19 for screening waste received. Sufficient random inspections are recorded to satisfy the regulatory requirements. The bales are placed directly into the back of a semi-trailer with a walking floor for loading and unloading. The baled waste is tarped and taken to the Regional Landfill facility by a City-owned semi.

4.2 Regional Landfill Facility

The solid waste is deposited in a horseshoe shaped containment area in the active cell. The baled wastes are initially unloaded at the bale pad area located immediately south of the active cell. The baled wastes are handled with a loader equipped with grapple forks to pick up and stack bales in the active working face. The bales are stacked up to 4 high and the top is covered with an earthen material. In April 2010 the EnviroBale system was installed on the City's baler. This system eliminated the wire time and places the compacted waste in a bag. This bag serves as Alternative Daily Cover (ADC). If the bales are not bagged, the sides are sprayed with another ADC such as PosiShell material to contain vectors and/or loose materials. Once the row of bales is completed across the floor of the cell, the side slopes are covered with loose wastes to fill voids and covered with a minimum of 6 inches of earthen material. When placement of waste is above the ground surface elevation, the outer side slopes area are covered with loose wastes to fill voids and covered with earthen material to provide approximately 12-inches of intermediate cover.

During severe wet weather when the active cell(s) are too wet to access, the bales will be temporarily stacked on the bale pad area. Unbagged bales will be sprayed with ADC, as needed. The bales are then hauled to the cell when it dries up enough for equipment access.

A pit for rubble/construction debris was excavated in 2011, with the first acceptance of C&D wastes in this pit December 2011. Permit Drawing 00C-02 (Appendix K) shows the location of the C&D pit.

Asbestos containing material is unloaded at the Regional Landfill in an excavated pit area located west of Cell #1. This separate designated area is the Asbestos Disposal Area at the Regional Landfill as shown on the permit drawings (Appendix K).

Service stations and other sump wastes are unloaded at the Regional Landfill in a designated 'drying' area located west of Cell #4. Once the sump waste is dry enough to pass a paint filter test, the material is moved to the Regional Landfill MSW disposal area for cover material.

5.0 74:27:13:05 SALVAGING

Any salvaging of recyclable materials at the Solid Waste Facility will be conducted in an organized manner and shall not interfere with normal operations. Minimal salvaging of recycled material is done during unloading/loading operations. Rubble/construction debris and metal items are pulled from the waste deposited on the floor of the baling facility. These items are pulled as long as they are safely reached. When these items are not deterred from the waste stream they can cause problems with the baler operations.

Metals and appliances brought to the Materials Recovery Site for temporary stockpiling are separated for recycling. Salvaging and scavenging at the MSW Regional Landfill is not allowed.

6.0 74:27:13:06 LITTER CONTROL

Since the Regional Landfill operates as a balefill, the baling process controls most of the litter. A 10-foot height containment fence is placed around the perimeter of the active cells. Portable containment fences are placed in a horseshoe shape where the bales from City of Huron are unloaded and they catch a good portion of any fall off from these bales. With the operation of the EnviroBale system, Pierre baled waste is contained within a bag which controls litter. Perimeter and containment fencing requires daily inspection and periodic picking and cleaning as needed. A leaf vacuum is used for litter pickup and the Wastewater Department has a Vactor® truck or similar available upon request.

During high winds, the operator shall minimize handling of the bales to minimize breaking the bag and loosening of wastes. Bales with torn or broken bags will be sprayed with ADC to retain any loose materials as quickly as practical after unloading. Bales will be placed in their final position on the active working face.

Cavities are left within the baled waste to dispose of un-baled loose wastes and treated medical waste. These wastes are unloaded as near the open cavities as possible and, if during high wind conditions, be immediately sprayed with ADC and/or ballasted with soil to prevent blowing wastes.

7.0 74:27:13:07 WORKING FACE

The working face of the Landfill is minimized due to stacking of bales in a vertical fashion. The area is minimized to reduce the quantity of cover material required to cover the top of the wastes. There are times when loose solid waste is placed in the Regional Landfill. Loose waste is used for filling in areas on side slopes to fill voids created by the stair-stacked bales and minimize the soil placed in the Regional Landfill. Loose waste is also taken to the Regional Landfill when maintenance is performed on the baler. The working face is minimized for these operations and portable containment fences are placed as close as possible to confine wind blown wastes.

8.0 74:27:13:08 SPREADING AND COMPACTING

The baling facility provides the compaction during normal operations. Spreading and compaction is needed only when the baler is being serviced or when the side slopes are being filled with loose wastes. When loose material is brought on site a Cat 816B compactor or similar can be made available for spreading and compacting the loose waste. The compaction of the wastes shall be conducted in a manner to achieve the maximum compaction with a minimum of effort and shall be done in lifts not exceeding 2 feet in depth. The City has a Cat D8 dozer available as a backup to the compactor if necessary. C&D wastes are also spread and compacted with the Cat 816B compactor on a weekly basis.

9.0 74:27:13:09 DAILY COVER

The tops of the bales are covered periodically with 8 to 12 inches of soil cover for driving stability and fire breaks. The side slopes are covered daily with ADC material when there are baled areas exposed (i.e., not bagged) and to any loose waste that is not covered with soil at the end of the day. Daily soil cover material is stockpiled as close as practical to the work area for use in inclement weather and during winter operation. During regular operations of the Regional Landfill, the cover material is excavated from the open faces of the future landfill cells to reduce excavation for future expansions. Current approved ADC consists of the following:

- EnviroBale bags
- PosiShell
- ConCover

Spray-on ADC such as PosiShell is applied to the side slopes or exposed wastes. Exposed wastes could occur due to disposal of loose wastes, breaks in bale bags, or EnviroBale bags that may have been exposed for extended periods of time and need cover. Additional alternative cover materials may be used upon receipt of approval from the SD-DENR.

10.0 74:27:13:10 COMPLETED LANDFILL UNITS

Each completed landfill unit at the Regional Landfill will be closed according to the Closure/Post-Closure Plan in Appendix J.

11.0 74:27:13:11 OPEN BURNING RESTRICTIONS

Open burning will be conducted at the Pierre Regional Landfill. Open burning is conducted of trees only. Open burning of solid wastes at the Regional Landfill is prohibited. If trees are accepted and burned the following would be notified:

Pierre Fire Department
Pierre Rural Fire Department
Department of Environment and Natural Resources
Pierre Police Dispatch (to notify County officials)
City of Pierre Public Works Office

12.0 74:27:13:12 EQUIPMENT

The minimum equipment for operation of the Pierre Regional Landfill includes a front-end loader (approximately 4 yard bucket) and self-propelled landfill compactor for spreading and compacting loose wastes. Equipment for landfill operations at the Regional Landfill and at the Materials Recovery Site will include the following:

Cat 816B compactor; Cat D8 dozer; Terex 14B scraper; John Deere 644K front-end loader; 724J John Deere front-end loader; Water truck; 2 hook lift trucks; Bobcat - skid steer and Top Turn X53 Compost turner.

This equipment may be replaced from time to time with similar makes and models.

The landfill operator shall establish an alternate source of equipment, in case of breakdowns, to maintain normal landfill operations. Equipment that is available from other City departments as back up equipment or for emergency situations includes:

Front-end loaders (2); Dump trucks (5+); Excavator; Backhoe; Bomag – sheep foot roller and Forklift – 3 ton & 10 ton capacity.

All equipment will be regularly maintained in accordance with manufacturer's recommendations.

13.0 74:27:13:13 VECTOR CONTROL

Vector control will be accomplished through daily cover with soil and/or ADC material. Propane cannons with random firing may be used along with screamers and bangers to be shot to scare away gulls if needed. If necessary, the City can call in a local pest control company to provide additional vector control and extermination services at the Regional Landfill.

14.0 74:27:13:14 SCAVENGING

Scavenging at the Regional Landfill facility is prohibited. The Regional Landfill is not open to the general public.

15.0 74:27:13:15 FIRE PROTECTION PLAN

Fire extinguishers are located at the Solid Waste Facility to include the scale house, Materials Recovery Site, Pierre Regional Landfill and in each piece of equipment. A local fire extinguisher service inspects and services the extinguishers on an annual basis and can be contacted at any time should more frequent servicing would be needed. The extinguishers are inspected monthly by staff to ensure they are in working condition. If a fire emergency occurs 911 is utilized to call out the local Fire Department(s). The Hughes County Rural Fire Department responds to fire emergency calls at the Regional Landfill facility.

16.0 74:27:13:16 MONITORING

16.1 Water Monitoring

Ground water quality and water level monitoring will be conducted on a semi-annual basis as outlined in the Hydrogeological Report. An annual report will be prepared summarizing all water quality.

16.2 Methane Gas Monitoring

Methane gas monitoring will be conducted on a quarterly basis by an outside agency.

16.3 Leachate Pond Monitoring

Leachate samples will be collected and sampled from the leachate pond on a semi-annual basis in the spring and fall of the year. Monitoring of samples will correspond to water quality monitoring for convenience. A qualified testing laboratory will test leachate for the Subtitle D, Appendix I, Table 1 constituents. An annual report will be prepared summarizing all leachate data.

16.4 Facility Inspection

The Regional Landfill facility will be inspected on a monthly basis to determine if any problems with erosion, uncontrolled vegetative growth, vandalism, animal damage, leachate collection, groundwater monitoring equipment, surface water drainage, or damage to the leachate pond liner have occurred. The site will be inspected on a daily basis to determine if litter control is required.

Records of inspections shall be kept in a daily or weekly log for preparation of an annual report. Sample report forms and work logs are provided in Attachment A to this Operations Plan.

16.5 Reporting

An annual report will be prepared by the operator of the Regional Landfill which will include monitoring, testing, and data collection that is required for leachate, methane gas, groundwater, leachate pond liner performance, and any other aspects of the facility design.

17.0 74:27:13:17 SPECIAL WASTES

Hazardous Waste – Not accepted.

Pesticide containers – Pesticide containers are not accepted unless they are triple rinsed and punctured or crushed.

Fertilizer/Pesticide Contaminated Soil – Fertilizer or pesticide-contaminated soil is accepted and used as daily cover at the Pierre Regional Landfill.

Petroleum-Contaminated Soil –

Land Farming:

An area north of cell #1 has been designated for treating contaminated soil. Gasoline, diesel and fuel contaminated soil is accepted and treated. Soil sample analysis is requested from the disposal firm. The contaminated soil is spread and aerated to break down the hydrocarbons. The soil is tested when it is believe to be treated. Once it meets 100 ppm or less TPH it is used as cover material.

The following outlines the procedures for handling and remediation of PCS:

1.) Landfill shall comply with all State of South Dakota requirements.

2.) Require documentation on petroleum-contaminated soils at scale house prior to disposal.

3.) Record area of waste placement on grid or GPS system.

4.) Spread soil evenly over surface area to depths not exceeding six (6) inches loose depth. Equipment will include wheel loader and dozer.

5.) Aeration of soil shall be a minimum of two (2) times per month for the first month and one (1) time per month thereafter. Operations shall be completed with chisel plow or disc.

6.) The frequency for testing of PCS shall be dependent initial levels and/or method of disposal. Test material shall be a representative sample of the entire lot with a minimum of one (1) composite sample per acre of area.

7.) If material is to be removed and used for daily cover, soil shall be remediated to 100 TPH prior to removal from land farming area. Removal of material shall be completed with scraper and material shall be evenly spread on Regional Landfill as a daily cover material.

8.) If material is to be left in place, or removed for purposes other than daily cover, the soil shall be aerated using above described techniques until material is remediated to 10 ppm. Upon completion of remediation processes, the area shall be restored to native vegetation to prevent erosion of soil if left in place.

9.) Runoff from contaminated soil site shall be controlled by berms placed around the facility. Water collected along the east side shall be disposed of by one (1) or more of the following methods:

    a. Water shall be pumped to the leachate tank, or directly into transfer vehicle, for disposal at wastewater treatment facility.

    b. Water shall be applied onto land farm area as per permit requirements.

c. Water shall be tested in accordance with State Requirements. If water meets the requirements set forth by state for discharge, water shall be pumped into sedimentation basin for disposal.

10.) The containment berms shall be inspected on a weekly basis and any deficiencies shall be corrected as soon as possible.

Alternative Daily Cover:

The PCS may be incorporated directly into the Landfill as alternative daily cover.

The following outlines the procedures for handling PCS for alternative daily cover.

1.) Landfill shall comply with all State of South Dakota requirements.

2.) Require documentation on petroleum-contaminated soils at scale house prior to disposal.

3.) Material will be stockpiled within the Regional Landfill disposal area footprint or the existing land farming area where runoff and run-on controls are in place.

4.) The PCS will be spread evenly over waste areas to depths of approximately six (6) inches loose depth. Equipment will include scraper, wheel loader, dozer, and/or compactor.

5.) The areas where PCS is utilized for alternative daily cover will be recorded on a grid or GPS system.

6.) If material is removed for placement of additional wastes, the above procedures will be followed.

7.) Runoff from stockpile areas for PCS shall be controlled by berms placed around the area. Storm water will be diverted from the area and any water collected in the contained area shall be disposed of by one (1) or more of the following methods:

a. Water shall be pumped to the leachate tank, or directly into transfer vehicle, for disposal at wastewater treatment facility.

b. Water shall be applied onto land farm area as per permit requirements.

c. Water shall be tested in accordance with State Requirements. If water meets the requirements set forth by state for discharge, water shall be pumped into sedimentation basin for disposal.

8.) The containment areas shall be inspected on a weekly basis and any deficiencies shall be corrected as soon as possible.

Asbestos Restrictions – Asbestos is buried in a designated area at the Regional Landfill in a separate designated pit located west of the Cell #1/Cell #3 areas. Asbestos was accepted at this Regional Landfill starting in June 2006. A manifest is received at acceptance of the asbestos and kept for each load to designate where the asbestos material came from and who is the removal and disposal firm. Regulated asbestos coming into the Regional Landfill must meet the regulatory requirements for handling and disposal as per the federal regulations.

Regulated Medical Waste – Not accepted.

Treated Medical Waste – Treated medical waste is accepted at the Regional Landfill. The material is weighed at the Solid Waste Facility and then hauled directly to the Regional Landfill

to minimize employee contact with the sharps. A cavity is created within the bales for the unloading of this waste and it is covered with soil (not ADC) by the end of the working day.

Dead Animals – Dead animals normally accepted are small rodents or pets. Any larger animals accepted would be immediately buried along with the loose municipal solid waste at the Regional Landfill.

Bulky Waste - Bulky waste items are brought to the Solid Waste Facility for placement in roll-off boxes or taken directly to the Materials Recovery Site by customers. The scrap metals are taken to nearby private company for baling and recycling or a private contractor can come and bale the scrap metals so that it can be recycled. All freon must be removed from refrigerators, freezers, and air conditioning units prior to being brought to the Solid Waste Facility. The customer must complete a form verifying the freon has been removed. The form includes information such as: name, address, serial # of unit and a dated signature. At such time these items would be stored at the Regional Landfill this plan would be amended.

Waste Tires – Not accepted.

Used Lead Acid Batteries – Not accepted.

Waste Oil – Not accepted.

Liquid Restrictions – Sump waste from car washes and catch basins is unloaded at the Materials Recovery Site in one of two drying beds. When one drying bed is full, then the other one is used and the full one is left to dry. Once the sludge has dried it can be used as cover material at the Regional Landfill.

Service stations and other sump wastes are unloaded at the Regional Landfill in one of two drying beds. When one drying bed is full, then the other one is used and the full one is left to dry. Once the sludge has dried it will be used as cover material over MSW at the Regional Landfill.

Ash – Ash wastes from regulated solid waste incinerators are accepted for disposal within the Regional Landfill. The ash will be incorporated into the layers between bales and immediately covered with baled waste and/or covered with ADC to prevent blowing of ash particles.

Sludge – Sewage sludge from the Sewage Treatment Plant is accepted and spread between layers of the baled MSW. Sludge must be tested or documented that it is not a hazardous waste prior to acceptance.

Industrial Waste – Industrial waste is accepted and spread between layers of the baled MSW. Industrial waste must be tested or documented that it is not a hazardous waste prior to acceptance.

Air Conditioning and Refrigeration Equipment - All freon must be removed from refrigerators, freezers, and air conditioning units prior to being brought to the Solid Waste Facility. The customer must complete a form verifying the freon has been removed. The form includes information such as: name, address, serial # of unit and a dated signature.

18.0 74:27:13:17.01 WASTE TIRES

Waste tires will not be accepted for disposal at the proposed facility. Waste tires shall be directed to local recyclers and/or the nearest restricted use site for each community.

19.0 74:27:13:18 TESTING FOR HAZARDOUS WASTE

Any industry, using the site for disposal that generates hazardous wastes, will be required to submit evidence prior to disposal of solid waste that the waste is not hazardous. The methods and test results to determine waste content will be provided to the landfill operator and will be kept on record at the Solid Waste Facility and shall be included in the annual report.

20.0 74:27:13:19 SCREENING WASTE RECEIVED

The landfill operator has implemented a program at the Solid Waste Facility for detecting and preventing the disposal of regulated hazardous wastes and other unauthorized wastes. Load inspections are completed right on the concrete tipping floor at the time the trucks unload. Because of the visibility of the load being dumped, the solid waste personnel have the opportunity to inspect all wastes prior to baling.

Loose loads of MSW waste accepted directly at the landfill will be randomly inspected by onsite solid waste personnel. MSW loads that are delivered directly to the landfill will be visually observed when unloaded in the active cell. The C&D disposal area will be visually observed on a daily basis when waste has been received.

The solid waste personnel notify the Landfill Operator if unauthorized wastes are encountered or suspected. The training program includes the following:

1. Random inspections of incoming loads.
2. Inspection suspicious loads.
3. Records of inspections.
4. Training of facility personnel to recognize unauthorized wastes. (See 74:27:13:21)
5. Procedures for notification of authorities if an unauthorized waste is discovered at the landfill.

21.0 74:27:13:20 CONTINGENCY PLAN

This Contingency Plan has been prepared for the Pierre Regional Landfill in accordance with ARSD 74:27:13:20. The purpose of the plan is to outline procedures to be used by landfill personnel in the event of an emergency. The plan includes the following information:

1. Identification of emergency situations that could arise at the facility.
2. Notification procedures to be used in an emergency.
3. Names, addresses, and telephone numbers of all persons qualified to act as emergency coordinator.
4. Procedures to use in the event of an emergency.
5. Procedures for cleanup, personnel protection, packaging, and disposal of unauthorized wastes.
6. Remediation procedures.
7. Cost estimates for remediation action.

21.1 Identification and Procedures for Emergency Situations

The following is a list of possible emergency situations and corrective actions that may be encountered during the operation of the Regional Landfill:

1. Severe Rainfall/Severe Erosion

Severe rainfall can threaten the integrity of embankments, clay cap, and storm water control devices. After severe rainfall event, the Regional Landfill should be inspected to determine damage to any of the components of the landfill facility.

Any embankments that have been damaged by severe rainfall shall be repaired to original condition by the placement of soil fill and reseeding of area within 7 days. If weather conditions do not permit permanent repair, temporary shoring of area with sandbags or rip rap until permanent repair can made shall be completed within 7 days of rainfall event. Area shall be inspected weekly for 30 days to monitor embankment stability.

Erosion damage shall be temporarily repaired with hay bales, silt fences, or mulch within 30 days of rainfall event. Area shall be repaired to original condition within 60 days of rainfall event. Clay cap damage shall be inspected by the City's engineering representative to determine extent of damage and to oversee corrective actions.

Damage to storm water control structures and drainage channels shall be temporarily repaired with sand bags, soil fill, mulch, and temporary piping to establish proper drainage. Permanent repairs shall be made within 180 days of the rainfall event.

2. Leachate Spill

The spillage of leachate that can contaminate surface waters or groundwater sources and surrounding soils shall be reported to the Landfill Operator within 24 hours of discovery. SD-DENR representatives shall be notified in writing within 2 weeks of discovery.

Soil contamination by spillage of leachate shall be contained and retrievable leachate collected and disposed of into the active Landfill cells or leachate pond. The remaining leachate shall be collected by using absorptive materials and disposed of in the lined landfill. The spillage shall be evaluated after testing results are available, but within 60 days, for appropriate follow up actions.

Spillage to surface waters and groundwater contamination shall be immediately contained and retrievable leachate collected and disposed of to the active Landfill cells or leachate pond. The remaining leachate shall be collected using absorptive materials. The water shall be sampled and tested to determine impact of spillage. The spillage shall be evaluated after testing results are available, but within 60 days, for appropriate follow up actions.

3. Grass Fire

Grass fires shall be extinguished immediately by placement of soil or water over fire. If fire cannot be easily extinguished in this manner, contact the Fire Department to extinguish fire. After fire has been extinguished, place temporary erosion controls within 10 days and re-vegetate within 60 days, or as weather permits.

4. Landfill Fire

All Landfill operations shall be moved from the affected area for safety of landfill personnel and to prevent damage to equipment. Fires in the Landfill shall be extinguished immediately by placement of soil or water over the fire. If fire cannot be easily extinguished in this manner, contact the Fire Department to extinguish fire. Excavation of burning waste mass may be necessary, if possible, to completely extinguish fire. After fire has been extinguished, assess damage and resume normal operations.

5. Leachate Collection Failure

Failures in the leachate collection piping or pumps can cause a buildup of leachate in the landfill cell. The cause of the buildup needs to be determined to ascertain the remedial procedure. A plugged collection line can be cleaned with conventional cleaning equipment with proper precautions taken to vent any harmful gases in the cleanouts or manholes prior to cleaning. The revised configuration for Cells 3 through 14 has individual sumps (with pumps or gravity flow) and clean-outs for each set of two cells with leachate collection sumps located along the east side of the landfill (see Permit Drawings 00C-02 and 00C-05). Leachate collection clean-outs will be provided at both the east and west side slopes of the landfill.

If a leachate pump fails it will be repaired or replaced. Temporary pumping methods may need to be implemented depending upon timeframe required for repair and leachate generation rate.

If a leachate collection pipe has collapsed, the area of collapse needs to be identified and determined for remedial procedures. The provided cleanouts will be utilized to determine approximate area of collapse if occurring within the landfill cells. An evaluation of the potential for problems will be conducted. With the revised cell configuration (see Permit Drawing 00C-02), every two cells will be serviced by a leachate collection pipe, trench and sump. The leachate collection pipe will be placed within a coarse aggregrate trench (see Permit Drawing 00C-05); thus if a pipe collapse occurred, the leachate should be able to continue to flow through the coarse aggregate towards the collection sump. Monitoring and observation of leachate

amounts from the sump would be able to confirm continuation of leachate flow. Excavation of waste to repair such pipe is not anticipated.

A collapsed or damaged leachate header pipe outside the landfill can cause potential contamination of soil (see 2. Leachate Spill). Temporary piping shall be placed within 30 days, to restore drainage of leachate from the landfill cell. Permanent repairs shall be made within 180 days to the leachate collection header piping.

6. Gas Vent System Failure

Failure of the gas vent system can result in damage to cover vegetation and off-site migration of gases. The damage to vegetation shall be assessed to determine cause of damage. The City's engineering consultant should be consulted to determine the remedial actions necessary. If required, additional gas vents may be installed or system may be redesigned and reconstructed within 180 days of the discovery.

Off-site migration shall be evaluated to determine impact and cause. The City's engineering consultant should be consulted to determine the remedial actions necessary. Design and construction of a system to extract or cutoff the gas migration shall be completed within 180 days of the discovery.

7. Cover Settlement

Cover settlement can be determined by surface water ponding and damaged vegetation. The settlement damage shall be evaluated to determine cause within 2 weeks of discovery. Temporary drainage and erosion control shall be established within 2 weeks and reconstruction of cover and re-vegetating shall be completed within 180 days.

8. Exceeding Groundwater Standards

Exceeding groundwater standards shall be reported to the SD-DENR in writing as specified in the approved Groundwater Monitoring Plan for the Regional Landfill. The sampling data and procedures shall be reviewed to determine whether proper techniques were utilized. Resample to establish if similar results are obtained. If similar results are obtained, an alternate source demonstration may be conducted to determine the source of contamination if at all possible. Refer to the approved Groundwater Monitoring Plan for additional actions.

Remedial action that may be required may include:

A. Continued monitoring of groundwater and surface water and, if necessary, expanding of monitoring system.

B. Repairing the determined cause of the contamination.

C. Installation of groundwater extraction system and/or groundwater flow barrier.

9. Unauthorized Dumping of Wastes

The receipt of wastes, which are considered unauthorized, shall be reported to the operator of the landfill. The unauthorized wastes shall be inspected, using safety precautions as necessary to determine source and type of waste. Notification of SD-DENR representatives shall made within 24 hours of discovery. Unauthorized wastes shall be collected and removed from the Regional Landfill, and disposed of at proper sites. Law enforcement personnel shall be contacted as necessary.

21.2 Notification Procedures

The landfill operator shall be notified of all emergency situations, which arise at the Regional Landfill. The landfill operator will act as primary emergency coordinator. It will be the responsibility of the landfill operator to notify state agencies of the landfill emergency situation. The landfill operator may designate emergency coordinator duties to another qualified landfill personnel if need arises. The landfill operator and contact person is provided below:

Valerie Keller, Solid Waste Manager
Pierre Regional Landfill
Office – 2800 E. Park Street
PO Box 1253
Pierre, SD 57501-1253
Ph. (605) 773-7434
Cell (605) 280-0475

The SD-DENR Representative to contact is provided below:

Steve Kropp
SD-DENR Office of Waste Management
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181
(605) 773-3153

21.3 Cost Estimate for Remedial Action

The cost estimates provided in Table 1, provide a breakdown of the estimated cost for remedial action for the emergencies listed in items 1 - 9 above. The highest, probable, cost remedial action is for the installation of a landfill gas extraction system at an estimated 2014-dollar value of $320,300 plus a five-year operational cost of $40,000. As may be required by ARSD 74:27:16:04, the most expensive remedial cost may be required by the SD-DENR to be included in the financial assurance plan. If necessary, the remedial cost will be included in the financial assurance plan.

TABLE 4 - REMEDIAL ACTION COST ESTIMATE

Item	Description	Quantity & Unit	Unit Cost	Total Cost	Item Cost	Comments
1.	Severe Erosion Repair					
	A. Cover Fill	1200 CY	$3.50	$4,200		
	B. Topsoil	400 CY	$5.00	$2,000		1/2 Acre Affected
	C. Seeding	1/2 Acre	$1500	$ 750		
	Subtotal				***$6,950***	
2.	Leachate Spill:					
2.1	Leachate Extraction					
	A. Install Extraction Wells	2 Each	$10,000	$20,000		
	B. Install Pumps and Appurtenances					
	C. Header Pipe	2 Each	$5,000	$10,000		Clean-up of leachate spills
	D. Electrical Wiring/Connections	1000 LF	$40.00	$40,000		potentially affecting groundwater
	E. Contingency (10%)	1,500 LF	$15.00	$22,500		
	F. Design And Specifications			$ 9,300		
		1 L.S.	$20,000	$20,000		
	Subtotal				***$121,800***	
2.2	Leachate Extraction Operation					
	A. Electrical Cost	10 Year	$1,000	$10,000		10 Yrs. Operation w/2 pumps;
	B. Pump Maintenance	20 Each	$500	$10,000		Maint. Once/Yr; Treatment on-site
	Subtotal				***$20,000***	at Leachate Pond
3.	Grass Fire And Re-Vegetation					
	A. Fire Fighting	4 Hrs	$250	$1,000		Fire Fighting Includes Equip. Cost
	B. Seeding	4 Acres	$1500	$6,000		
	Subtotal				***$7,000***	
4.	Landfill Fire					Includes Additional Equip. and
	A. Fire Fighting	2 Days	$2,500	$5,000	***$5,000***	Monitoring
5.	Leachate Collection Failure:					
5.1	Leachate Pump Replacement					
	A. Temporary Pumping	7 Days	$200	$1,400		
	B. Replace Pump	1 Each	$5,000	$5,000		
	Subtotal				***$6,400***	
5.2	Leachate Collection Pipe Repair					
	A. Replace Collapsed Pipe	50 LF	$40.00	$2,000		
	B. Excavation & Backfill	100 CY	$10.00	$1,000		Assume leachate pipe outside
	C. Mobilization	1 L.S.	$2,000	$2,000		landfill cell
	D. Contingency (10%)			$ 500		
	Subtotal				***$5,500***	
6.	Gas Migration or Vent System Failure:					
	Gas Migration Analysis					
6.1	A. Probe Installation					
	B. Monitoring Cost	1 Each	$3,000	$3,000		
	C. Engineering Report	20 events	$ 300	$6,000		Monitor 4 Times/Year For 5 Years
	Subtotal	5 Years	$4,500	$22,500		
					$31,500	
6.2	Gas Extraction System Installation					
	A. Install Extraction Wells	5 Each	$10,000	$50,000		
	B. Lateral Pipe	1,000 LF	$25.00	$25,000		
	B. Header Pipe	500 LF	$40.00	$20,000		
	C. Blower Skid/Flare Cost	1 Each	$150,000	$150,000		
	D. Electric Wiring/Connections	1,500 LF	$15.00	$22,500		
	E. Contingency (10%)			$27,800		
	F. Design and Specifications	1 L.S.	$25,000	$25,000		
	Subtotal				***$320,300***	

6.3	Gas Extraction System Operation A. Electrical Cost B. Monitoring Cost C. Well Head & Blower Maint. ***Subtotal***	 5 Years 5 Years 5 Years	 $1,000 $2,000 $5,000	 $5,000 $10,000 $25,000	***$40,000***	5 Yrs Operation, General Repair Yearly
8. 8.1	Exceeding Groundwater Standards: Groundwater Contamination Analysis A. Work Plan B. Install Additional Wells C. Sample Collection D. Sample Analysis E. Contingency (10%) F. Evaluation and Report ***Subtotal***	 1 L.S. 2 Each 12 Hrs 8 Each 1 L.S.	 $25,000 $7,000 $100 $500 $25,000	 $25,000 $14,000 $1,200 $4,000 $4,400 $25,000	***$73,600***	Frequency of 4/Yr at 1.5 Hrs/Well
8.2	Groundwater Containment/Extraction System A. Install Additional Wells w/ Pumps B. Submersible Pumps for Existing Wells C. Piping and Appurtenances D. Electric Wiring/Connections E. Contingency (10%) F. Design and Specifcations ***Subtotal***	 2 Each 2 Each 1000 LF 500 LF 1 L.S.	 $10,000 $3,000 $25.00 $15.00 $40,000	 $20,000 $6,000 $25,000 $7,500 $5,900 $40,000	***$104,400***	Groundwater to be treated on-site at Leachate Pond
8.3	Groundwater Containment/Extraction Operating Cost A. Electrical Cost B. Pump Maintenance C. Monitoring D. Contingency (10%) ***Subtotal***	 10 Years 40 Each 40 Events	 $1,000 $500 $2,500	 $10,000 $20,000 $100,000 $13,000	***$143,000***	10 Years of Operation, 4 pumps, yearly maintenance
8.4	Liner Repair (Leachate Pond – Installation of Geomembrane) A. Mobilization B. Clay Liner Repair C. Geomembrane Liner D. Contingency (10%) ***Subtotal***	 1 L.S. 1,600 CY 7,260 SY	 $20,000 $5.00 $8.00	 $20,000 $8,000 $58,080 $8,600	***$94,680***	0.5-acre clay liner damaged; 1.5-acre Leachate Pond

22.0 74:27:13:21 TRAINING OF PERSONNEL

The solid waste manager is required to have and maintain a Manager of Landfill Operations Certification. Employees are sent to training courses sponsored by South Dakota Solid Waste Management Association and other available training that is pertinent to the job. A log is kept of the training courses and the employees that attended the course. The training for all full-time personnel at the Solid Waste Facility and Regional Landfill include at a minimum:

1. Waste screening methods.
2. Facility monitoring plans.
3. Contingency plan procedures.
4. Closure/Post Closure Plan contents.

5. Security measures for landfill.
6. Landfill rules for open burning and scavenging.
7. Maintenance procedures for leachate collection and stormwater drainage structures.
8. On-site safety procedures.
9. Leachate management procedures.

23.0 74:27:13:22 RECORDKEEPING

The landfill operator shall retain copies of the Permit Application, Closure/Post-Closure Plan, Operations Plan, and Financial Assurance Plan on-site and must be available for review by SD-DENR representatives during normal operating hours. The operator shall maintain records at the Solid Waste Facility, and as needed, on-site at the Regional Landfill for the following:

1. Sources, types, and quantities of solid waste received monthly and annually.
2. Any recycling efforts or source separation efforts undertaken by the landfill.
3. Monitoring, testing, or analytical data required for air, groundwater, surface water, methane gas, leachate, liner system, remediation of special wastes, and any other aspects of the facility design.
4. Any records of open burning including dates, types, amounts burned, time, complaints, and other pertinent information.
5. The frequency of waste screening, including test methods and results.
6. The filling progression, completion dates, as-built drawings, and closure methods for each landfill unit.
7. Records of all inspections.
8. Closure certification of each landfill unit.
9. Postclosure certification of each landfill unit.
10. Records and remedial actions for any emergency situations listed in contingency plan.

See Attachment A for miscellaneous forms and logs utilized in record keeping. An annual report summarizing the groundwater monitoring data and surface water data shall be prepared and retained on-site during normal operating hours. The annual groundwater report shall be submitted to the SD-DENR by April 1 of the following year.

24.0 74:27:13:23 EXCAVATION OF CLOSED LANDFILL UNITS

The landfill operator will notify the SD-DENR Department of Waste Management in writing, prior to excavation of waste material from a closed or active portion of the Regional Landfill. Notification will include reason for excavation, area of excavation, lines and grades of excavation, waste disposal area, estimate of time, and reclamation procedures. The excavation shall include best management practices to control erosion.

25.0 74:27:13:24 LEACHATE MANAGEMENT

The operator of the Regional Landfill shall sample and have tested the leachate generated from the facility on a semi-annual basis in the spring and fall of each year. The samples shall be tested for Subtitle D, Appendix I, Table 1 constituents.

Leachate levels in the Regional Landfill may not be allowed to accumulate to a depth greater than 1 foot above the final liner grade at any point in the Regional Landfill. The current leachate collection system consists of 12-inch granular layer on floor of cells, sloped at a 3% grade (east-west direction) to the center of the landfill and a perforated 6-inch diameter HDPE pipe. The center collection pipe, slope at approximately 1% grade to the north, conveys the leachate via gravity outside the landfill lined area to a pump station manhole/lift station. Leachate is pumped from the lift station to the leachate pond. This existing collection pipe will be permanently capped on the south end with the construction of future cells.

Modifications to future leachate collection include grading future cell pairs (e.g., Cells #3/#4, etc.) to slope inwards (north-south direction) at 3% grade to a center leachate collection trench and perforated 6-inch diameter pipe flowing east at approximate 1% grade to an individual leachate sump. The bedding around the leachate collection pipe will be as shown on the details in the revised permit drawings (Appendix K). The three layers of material (i.e., drain sand, pea gravel, and rock) provide a media that filters out solids in the leachate and is less likely to plug compared to a geotextile material. The pea gravel will have a gradation that fits the following two requirements. The requirements ensure that the pea gravel does not wash through the rock, and that the drain sand does not wash through the pea gravel.

- Based on the pea gravel gradation and the rock gradation, the following criteria shall be met using ASTM D422:
  - $D_{15\ (rock)} / D_{85\ (pea\ gravel)} < 4$
  - $D_{15\ (rock)} / D_{15\ (pea\ gravel)} > 5$
- Based on the drain sand gradation and the pea gravel gradation, the following criteria shall be met using ASTM D422:
  - $D_{15\ (pea\ gravel)} / D_{85\ (drain\ sand)} < 4$
  - $D_{15\ (pea\ gravel)} / D_{15\ (drain\ sand)} > 5$

Underneath the rock, and on top of the clay liner, a liner material will be placed to prevent silt from washing into the rock and fouling the leachate collection system. The liner will likely be a geotextile material.

Removal of leachate collected in the individual sumps can occur by (1) gravity collection pipes and manholes installed outside the lined landfill area and inside the perimeter road, or (2) side

slope riser pump systems to a force main or gravity header installed outside of the lined landfill area. A new pump lift station may be required to pump this leachate directly to the leachate pond. Permit Drawing 00C-02 shows the proposed configuration; Permit Drawings 00C-05 and 00C-06 show the leachate collection system details (see Appendix K). The HELP model shows that the modified configuration and spacing will result in less than 12 inches depth of leachate over the liner (see Appendix O). This configuration is also designed to allow for post-closure maintenance of the leachate collection system. Leachate collection piping will be equipped with clean-outs on the east and west side slopes to facilitate maintenance.

Leachate disposal will be accomplished by the use of leachate evaporation pond, surface application over daily or interim cover, or discharge from the pond if the water quality requirements of 40 C.F.R. Part 122 are met and discharged in accordance with the Surface Water Discharge Permit for the Regional Landfill site. General maintenance operations of the leachate pond and collection system are summarized below:

1. Leachate pond will be inspected periodically for weed growth, erosion, water depth, odors, ice cover, and general condition of site. Weed growth shall be controlled by pulling individual weeds, or spraying with USDA approved herbicide. Erosion problems shall be documented and corrective actions taken. The water depth, odors, ice cover, and general conditions shall be noted for the annual report.
2. Leachate piping shall be inspected and/or cleaned as needed based on observation of leachate amounts reaching the leachate extraction pumps and lift station. Leachate piping can be cleaned using cleanout risers. Leachate cleanouts are designed to allow surface access to cleaning of pipes with conventional equipment.
3. Leachate pumps will be regularly maintained in accordance with manufacturer's recommendations.

26.0 74:27:13:25 STORM WATER MANAGEMENT

The Regional Landfill will be constructed with perimeter ditches and culverts to collect and transport storm waters away from the landfill area. As shown on the permit drawings, the eastern half of the permitted landfill area will be collected in a perimeter ditch located just east of the perimeter landfill road, which flows via the natural gradient of the topography from south to north, discharging from the property at the northeast corner of the permitted landfill area (this drainage area is approximately 58 acres in size). Additionally the southwesterly corner of the permitted landfill area and the entire west side of the C&D waste disposal area will be collected in a perimeter ditch located west of the landfill perimeter road. Stormwater collected in this ditch flows south to north and discharges near the landfill shop building (this drainage area is approximately 25 acres in size). The only portion of the landfill within the permitted waste boundary that appears to direct stormwater to the sedimentation pond is the westerly half (this drainage area is approximately 50 acres in size). The City of Pierre has a Surface Water Discharge Permit (Permit No. SD0027961) for the Regional Landfill site and operation. Storm water management will be in accordance with this permit.

The sedimentation pond is designed to contain a 24-hour, 25-year storm event before discharging to the natural drainage area. The sedimentation pond should be periodically checked for erosion damage and plugged drainage structures. The sedimentation pond and drainage channels should

be evaluated on a yearly basis for removal of sedimentation. The sedimentation pond should be sampled during periods of discharge and records maintained of water quality for the landfill operations.

27.0 74:27:13:26 METHANE GAS MONITORING

The City contracts with a third party to measure the methane gas concentration levels in all buildings and at property boundaries on a quarterly basis each year. Methane gas concentration levels may not exceed 25% of the lower explosive limit of the gas within facility structures and may not exceed the lower explosive limit of the gas in soils or air at the property boundary. If methane gas concentrations exceed these levels, the City will immediately take all necessary steps to ensure protection of human health and notify the SD-DENR.

(1) Within seven days of detection, place in the operating record the methane gas levels detected and a description of the steps taken to protect human health; and

(2) Within 60 days of detection, implement a methane gas system which conforms to the requirements of § 74:27:12:20.

Refer to the Contingency Plan (74:27:13:20) for notification and emergency procedures.

28.0 74:27:13 DUST AND ODOR CONTROL

Immediately after construction activities at the Regional Landfill site, the City will establish vegetation on all disturbed areas to reduce the amount of area affected by wind erosion. On areas of operation, roads, unloading areas, stockpiles, etc., the Regional Landfill will use storm water from the stormwater sedimentation pond to periodically wet those areas to reduce dust caused by truck or equipment traffic. Since the Regional Landfill will be accepting wastes from the baling facility, very little traffic will enter or leave the Regional Landfill site, which will also reduce the amount of dust created by landfill operations.

The City will control odors at the Regional Landfill site using proper waste management techniques already mentioned in areas above. To summarize, it will include the placement of wastes on the open working face in an efficient manner, properly covering wastes with ADC and/or soil, and restricting the open areas to as small an area as practical for operation.

Attachment A

Miscellaneous Forms and Logs

City of Pierre Regional Landfill & Solid Waste Facility

VEHICLE LOAD INSPECTION REPORT

Date: _____ Vehicle ID: _____

Vehicle Type: _____

Tires: _____

Concrete: _____

Batteries: _____

Yard Waste: _____

Other: _____

_____

_____

Action Taken (if any): _____

_____

_____

Operator Signature: _____

Hauler Signature: _____

This document complies with ARSD regulations: 74:27:13:22

ASBESTOS MATERIAL DISPOSAL

CITY OF PIERRE REGIONAL LANDFILL

REGIONAL LANDFILL

Asbestos material must be properly contained and clearly labeled.

Date: _____

Landfill Operator: _____

Origin of Material: _____

Disposal Firm: _____

Number of bags: _____

Total cubic yards: _____

CONTAMINATED SOIL

CITY OF PIERRE REGIONAL LANDFILL

Date: _____

Scale Operator: _____

Origin of Material: _____

(Location and City)

Bill To Account:_____

Consulting Firm: _____

Type of contamination (circle one): Gas Fuel / Fertilizer soil

Amount of soil taken: **TOTAL TONS** _____

* Refer to attached report(s)

METHANE GAS MONITORING

(To be done on a quarterly basis)

Date	Location of Monitoring	Results

OPEN BURNING

Date	Size of Pile	Wind Direction	Complaints (if any)

SPECIAL WASTE DISPOSAL

CITY OF PIERRE REGIONAL LANDFILL

**If testing is required, test results should be submitted prior to disposal and are attached.

Date: _____

Landfill Operator: _____

Origin of Material: _____

Contact Person: _____

Disposal Firm: _____

Type of waste: _____

Tons of waste: _____ (attach report)

Comments; _____

_____

_____

TRAINING

DATE	TYPE OF TRAINING	PERSON(S) TRAINED

Monthly Regional Landfill Inspection Record

Month/Day/Year																										
Sedimentation Pond Depth																										
Erosion (Y/N)																										
Outlet Structure																										
Discharge (Y/N)																										
Leachate Pond Depth																										
Erosion (Y/N)																										
Inlet Structure																										
Lift Station																										
Leachate Line Cleanouts																										
Erosion Landfill Slopes (Y/N)																										
Culvert Structures																										
Channel Erosion (Y/N)																										
Clay Cap Erosion (Y/N)																										
Trees																										
Fence																										
Rainfall																										
Snow Fall																										
Remarks: (Repairs, Maintenance, Etc.)																										

Daily Litter Pickup

(To be done on a DAILY basis)

Date	Areas Picked Up	Employees

Surface Water Discharge Permit Inspections - Monthly & Activities

Date	Time	Mnthly	Storm	Status/results/actions of areas		Misc Notes	Inspector Print & Signature
				Culverts			
				Drainage Ditches			
				Ponds			
				Berms			
				Culverts			
				Drainage Ditches			
				Ponds			
				Berms			
				Culverts			
				Drainage Ditches			
				Ponds			
				Berms			

Dirt Quantities Hauled for Cover - REGIONAL Landfill

Month

_____

Day	Loads w/ Scraper	Loads w/ Loader	Comments

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APPENDIX J

CLOSURE/POST-CLOSURE PLAN

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

PIERRE REGIONAL LANDFILL
CLOSURE/POST-CLOSURE PLAN

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1.0 INTRODUCTION

In conformance with South Dakota Department of Environment and Natural Resources Administrative Rules (ARSD) 74:27:15, the following closure plan and post-closure plan details the steps necessary for closure of the Pierre Regional Landfill (Regional Landfill) and post-closure care of the closed Landfill.

2.0 CLOSURE PLAN

This Closure Plan meets the requirements of ARSD 74:27:15:04.

2.1 Maximum Operational Areas

The intent of the design, for operation in the landfill area, is to reduce the area exposed during filling operations of the landfill unit. The construction of each cell proposes a surface area of approximately 6-acres. However, the progression of filling the cells involves a step system with stacked bales about 4 high per lift, or approximately 15 feet in depth. This makes each landfill unit progressively larger as the sloped areas restrict full waste placement upon the footprint of the cell. As the disposal area is built up to final grades the top surface will be covered with an intermediate cover. The side slopes will be stacked bales vertical until reaching the edges of the cell, then the bales will be offset one bale each layer to form steps up a 45° angle. As shown in Table 1, the maximum disposal area ever open at any point in the active life of the Regional Landfill is estimated to occur during the filling of Cell #6. This largest open area requiring final cover will be approximately 41 acres. Intermediate cover will be placed in intervals to reduce the actual open face working area. The intent of the operations plan is to limit the actual working face to less than 1-acre and utilizing stepped filling operations across the working face to cover the entire fill area.

TABLE 1 MAXIMUM OPERATIONAL AREA (IN ACRES)

Cell	Cell Area[1]	Available Area for Capping[2]	Capping Area[3]	Area Open[4]
1	8.3	3.8		8.3
2	8.3	4.6		16.6
3	6.1	3.7		22.7
4	6.1	6.9		28.8
5	6.1	4.4		34.9
6	6.1	7.1		41.0
7	6.1	4.4	30.5	16.6
8	6.1	7.5		22.7
9	6.1	4.5	11.9	16.9
10	6.1	7.7		23.0
11	6.1	4.5	12.2	16.9
12	6.1	7.7		23.0
13	8.2	9.8	12.2	19.0
14	8.2	17.4		27.2
			27.2	0
Total	**94**	**94**	**94**	

Notes:
[1] See Appendix K, Sheet 00C-02 for Cells layout.
[2] See Appendix K, Sheet 00C-04 for cross-sections and approximate areas at final grades.
[3] Equals the sum of Available Area for Capping in previous rows.
[4] Area Open equals the sum of 'Cell Area' constructed less 'Capping Area'.

2.2 Maximum Inventory of Wastes at Site

The Pierre Regional Landfill has a permitted MSW disposal area of 94 acres. Based on final closure contours on Permit Drawing 4 (Appendix K), the Landfill has a total volume available for MSW disposal and daily cover of approximately 11,699,000 cubic yards. Table 2 provides the approximate volume available by Cell development for waste disposal in the Pierre Regional Landfill during the lifespan of the facility.

TABLE 2 MSW CELL AIRSPACE

Cell	Cell Area (Acres)	Total Volume (CY)	Final Cover Volume[1] (CY)	Airspace (CY)
1	8.3	501,000	18,000	482,000
2	8.3	546,000	22,000	524,000
3	6.1	646,000	18,000	628,000
4	6.1	894,000	33,000	860,000
5	6.1	724,000	21,000	703,000
6	6.1	940,000	35,000	905,000
7	6.1	742,000	22,000	720,000
8	6.1	1,012,000	36,000	976,000
9	6.1	750,000	22,000	728,000
10	6.1	1,034,000	37,000	997,000
11	6.1	755,000	21,000	734,000

Cell	Cell Area (Acres)	Total Volume (CY)	Final Cover Volume[1] (CY)	Airspace (CY)
12	6.1	1,045,000	37,000	1,008,000
13	8.2	1,093,000	48,000	1,045,000
14	8.2	1,473,000	84,000	1,389,000
Total	**94**	**12,155,000**	**455,000**	**11,699,000**

Notes:
[1] Assumes 3 feet for intermediate cover/buffer layer and final cover. Final cover volumes are based on available area for capping, not cell area. All volumes rounded to nearest thousand; totals may not match.

The construction and demolition debris (C&D) disposal area shown on the permit drawings (Appendix K) has a capacity of approximately 620,000 cubic yards. This will provide over 60 years of life, assuming an airspace utilization factor of 750 lbs/cy and a growth rate of 0.5%.

2.3 Landfill Site Life

The average in-place waste density calculated for the Pierre Regional Landfill through 2012 was 909 pounds per cubic yard (lbs/cy) based on tonnage receipts and surveys of Landfill volume consumed. These unit weights included the compaction of the bales\waste and daily cover placed in the cells. The following Table 3 estimates the facility site life using an estimate of 900 lbs/cy in-place unit weight, an annual 0.5% MSW waste receipt increase from year 2012 disposal quantities of 23,759 tons, and the per cell airspace volumes listed in Table 2 above. Based on this analysis it was determined that the Pierre Regional Landfill has a total site life of approximately 154 years.

TABLE 3 ESTIMATED PIERRE REGIONAL LANDFILL SITE LIFE

Cell	Estimated Life Span (years) (1)	Estimated Year Full Capacity Reached (2)
1	9	2038
2	9	2028
3	11	2030
4	15	2047
5	10	2057
6	14	2071
7	10	2081
8	12	2093
9	9	2102
10	12	2114
11	8	2122
12	11	2133
13	10	2144
14	14	2157
Total	**154**	

Notes:
[1] A spreadsheet detailing the estimated site life calculation is attached to this Plan
[2] The full capacity of Cells 1 & 2 will not be achieved until after the construction and partial filling of Cells 3&4. .

2.4 Future Use of Closed Site

The future use of the site will be assessed after the actual closure procedures are completed. The most probable use of the closed landfill unit will be to re-establish the land to pastureland for livestock. The area may also be utilized for haying operations after establishment of final cover material.

2.5 Landfill Closure

The closure of each landfill unit will include the placement of an approved closure cover over the waste. The conventional closure cover will consist of a minimum 12-inch buffer layer between the waste and the 18-inch clay cap material (infiltration layer) to be able to obtain the required density. A passive methane gas collection system (i.e. vents) will be used with granular trenches or venting layer installed below the infiltration layer to provide conduits for the landfill gas to reach the vents. A six inch topsoil cover would be placed over the infiltration layer to provide a suitable medium for establishment of grass/vegetative cover.

The clay cap material used in the infiltration layer will be compacted with conventional construction equipment in lifts not to exceed 6 inches in compacted thickness. The clay cap material will be compacted to densities and moisture contents needed to achieve a permeability less than or equal to the permeability of any bottom liner system or natural subsoils present, or permeability of $1x10^{-5}$ cm/sec stated in ARSD 74:27:12:21, whichever is less. Since the in-situ liner has a permeability of $1x10^{-7}$ cm/sec or less, the infiltration layer will need to be constructed to permeability rate of $1x10^{-7}$ cm/sec or less. Clay cap material will be stockpiled material of the same quality as the existing landfill in-situ liner soils.

An alternate to the conventional compacted clay cap would utilize a loosely placed soil barrier cover (infiltration layer) over the intermediate cover. Since the compaction requirements for this soil barrier are in the 82% to 88% range of Standard Proctor, the buffer layer to waste is expected to be reduced to six inches. Based on the closure of the previous Pierre landfill, approximately 24 inches of clay soil material is estimated to be required. However, modeling of the alternative cover would need to be completed and approved prior to design of the closure. A variance would need to be requested per ARSD 74:24:15:11. A six inch topsoil cover would be placed over the infiltration layer to provide a suitable medium for establishment of grass/vegetative cover.

After completion of the infiltration layer a 6-inch topsoil cover shall be placed and seeded over the closed area. The topsoil material will be salvaged topsoil from excavation of the Regional Landfill cells. If additional topsoil is required, a borrow site will be located for the material. The seeding operations will utilize plant varieties recommended by the state for shallow root depths and by the Hughes County Soil Conservation Services (SCS) office for plant varieties that are best suited for the area.

The closure of landfill units will be completed after they reach final grades and filling operations progress into future cells. Table 2 summarizes the life span of the Regional Landfill. Approximately two-thirds of the Regional Landfill will be closed prior to operation in the final cell. The City shall commence final closure activities within 30 days of the last receipt of wastes and shall complete closure activities within 180 days of the last receipt of wastes, unless an

extension is received from SD-DENR. The closure of the final cell will be accomplished within 270 days of the final receipt of wastes in the landfill.

The contours of the closed unit are shown in attached drawings (Appendix K). The side slopes on the Regional Landfill are revised to 25% (4H:1V) up to elevation 1785 and then 5% on the top area slopes. The 5% slope is greater than the minimum 2% slope required by regulations (ARSD 74:27:12:21) to prevent ponding. Soil erosion calculations were completed using the Revised Universal Soil Loss Equation (RUSLE2) model. The model was run after the second year to estimate the amount of soil erosion from a constructed final cap on the Regional Landfill with the proposed slopes and final grades. Results of the modeling showed that the estimated soil loss from erosion as modeled for this scenario is 0.56 tons/acre/year. This meets EPA's recommendation of 2 tons/acre/year or less for allowable erosion. A copy of the RUSLE2 report is included in the permit renewal (Appendix P).

After seeding operations, the slopes will be mulched with straw to help prevent erosion and hold moisture into the soil. Erosion on the side slopes will require biannual maintenance until proper vegetation is established. Storm water drainage from the site will be directed into vegetated perimeter ditches and flow either off-site or into the existing sedimentation pond prior to discharge to remove suspended soil particles.

Access to the site will be limited to operations involving periodic testing, maintenance, and future land uses on the closed site. The entire site will be enclosed in fencing to prevent unauthorized entry into the area. Signs will be posted around the perimeter of the site indicating the site is closed.

2.6 Closure Costs

The closure costs for the Pierre Regional Landfill will be incurred over the lifespan of the Regional Landfill as Cells are graded to plan elevations and closed. ARSD 74:27:16:02 requires a detailed written estimate, in current dollars, of the cost of hiring a third party to close the solid waste facility at the point in its active life when the extent and manner of its operation would make closure the most expensive. This is assumed to occur when the facility has reached its largest area ever requiring final cover during the active life. The largest area requiring final cover at anytime during the active life of the Regional Landfill is estimated to be 41 acres at development and filling operations of Cell #6.

Table 4 below summarizes the estimated construction costs for the closure of all 94 acres of the Pierre Regional Landfill with a conventional compacted clay cover and passive methane gas collection and venting system. Unit prices reflect liner and closure costs bids from other landfills in South Dakota and other states, Cell 2 construction components adjusted for inflation, and cost estimating manuals. The total cost is then divided over the entire 94 acres of MSW disposal area for an average per acre closure cost. This average per acre cost is multiplied by the largest area ever requiring final cover per ARSD 74:27:16:02.

TABLE 4 CONVENTIONAL CLAY COVER SYSTEM CLOSURE COSTS (2014$)

Item	Quantity	Unit	Unit Cost	Total Cost
Mobilization	5	Each	$ 20,000	$ 100,000
Surveying and Staking	5	Each	$ 10,000	$ 50,000
Buffer Layer - Intermediate Cover (12"), grading & compaction	151,653	CY	$ 1.50	$ 227,480
Infiltration Layer - Compacted Clay Cover (18")	227,480	CY	$ 3.90	$ 887,170
Topsoil Cover, from stockpiles	75,827	CY	$ 1.50	$ 113,740
Methane Gas Vents	88	Each	$ 2,500	$ 220,000
Granular Aggregate Material	880	Tons	$ 25	$ 22,000
Geotextile Fabric	34,848	SF	$ 0.25	$ 8,710
Silt Fence	8,100	LF	$ 3.50	$ 28,350
Erosion Control Blankets	174,240	SY	$ 2.00	$ 348,480
Seeding & Fertilizing	94	Acres	$ 1,200	$ 112,800
SubTotal Closure Cost (94 acres) - Conventional Clay Cover System				$ 2,118,730
Contractor Overhead & Profit (10%)				$ 211,870
Subtotal Closure Costs				**$ 2,330,600**
Closure Design/Engineering (8%)				$ 186,450
Construction Observation and Testing (12%)				$ 279,670
Total Closure Cost (94 acres)				**$ 2,796,720**
Total per Acre Closure				$ 29,750
Largest Area Requiring Final Cover	**41**	**Acres**		
Largest Area Closure Costs	**$ 1,219,750**			

Table 5 below summarizes the estimated construction costs for the closure of the entire Regional Landfill with a modified alternative cover. The construction costs itemized below reflect escalation of costs based on bids from other landfill construction projects, Cell 2 construction components adjusted for inflation, and cost estimating manuals.

TABLE 5 ALTERNATIVE COVER SYSTEM CLOSURE COSTS (2014$)

Item	Quantity	Unit	Unit Cost	Total Cost
Mobilization	5	Each	$ 20,000	$ 100,000
Surveying and Staking	5	Each	$ 10,000	$ 50,000
Buffer Layer - Intermediate Cover (6"), grading and compaction	75,827	CY	$ 1.50	$ 113,740
Infiltration Layer - Clay Soil Barrier (24")	303,307	CY	$ 3.00	$ 909,920
Topsoil Cover, from stockpiles	75,827	CY	$ 1.50	$ 113,740
Methane Gas Vents	88	Each	$ 2,500	$ 220,000
Granular Aggregate Material	880	Tons	$ 25	$ 22,000
Geotextile Fabric	34,848	SF	$ 0.25	$ 8,710
Silt Fence	8,100	LF	$ 3.50	$ 28,350
Erosion Control Blankets	174,240	SY	$ 2.00	$ 348,480
Seeding & Fertilizing	94	Acres	$ 1,200	$ 112,800
SubTotal Closure Cost (94 acres) - Alternate Final Cover System				$ 2,027,740
Contractor Overhead & Profit (10%)				$ 202,770
			Subtotal Closure Costs	**$ 2,230,510**
Closure Design/Engineering (8%)				$ 178,440
Construction Observation and Testing (12%)				$ 267,660
			Total Closure Cost (94 acres)	**$ 2,676,610**
			Total per Acre Closure	$ 28,470
Largest Area Requiring Final Cover		**41**	**Acres**	
Largest Area Closure Costs	**$**	**1,167,270**		

The costs for closure of the Regional Landfill with an alternative cover are slightly lower than the conventional clay cover. This is based on an alternative soil barrier cover with an overall thickness of 24 inches and less compaction than the conventional clay cover. The actual thickness and compaction will need to be modeled, and approved by SD-DENR, prior to development of the construction closure planning documents. The conventional clay cover will require more intermediate cover/buffer material to construct the clay cap to the desired density. These are the primary cost differences between the two estimates.

For financial assurance purposes, the most expensive closure cost per acre (Table 4) is multiplied by the largest area requiring final cover. For 41 acres, the total closure cost is estimated to be $1,219,750 in 2014 dollars.

2.7 Closure Notification (74:27:15:05)

The City of Pierre will notify the secretary [SD-DENR] in writing at least 90 days before the estimated date of closure of the Pierre Regional Landfill or any unit.

On-site signs will be posted and regular site users will also be notified approximately 90 days preceding the final date to cease accepting solid waste at the Pierre Regional Landfill.

2.8 Closure Certification (74:27:15:06)

Upon completion of the closure of the Pierre Regional Landfill, the City of Pierre will provide certification that the closed landfill has been closed in accordance with ARSD 74:27:15 and the Closure Plan as stated herein.

2.9 Notation on Deed (74:27:15:07):

Following final closure of the Pierre Regional Landfill, the City of Pierre will record a notation on the deed to the property or on similar instrument that is normally examined during a title search. The notation on the deed will notify any potential purchaser of the property that the land has been used as a municipal solid waste facility and its use is restricted under ARSD 74:27:15:02.

3.0 POST CLOSURE PLAN

3.1 Responsible Parties

The City of Pierre is the responsible party for the post closure care and maintenance of the closed Pierre Regional Landfill during the post-closure care period. The post-closure care period shall be 30 years, unless otherwise shortened or lengthened by SD-DENR. The current City's Solid Waste Manager may be contacted at the address listed below.

Valerie Keller, Solid Waste Manager City of Pierre
PO Box 1253
Pierre, SD 57501
Telephone Number: (605) 773-7434

3.2 Land Use After Closure

Plans for use of the future closed Pierre Regional Landfill will be evaluated at time of closure. The most probable use of the closed Regional Landfill will be to revert the land to pastureland for livestock. The area may also be utilized for haying operations after establishment of final cover vegetation.

3.3 Site Access

Access to the site will be controlled during the post-closure period to ensure proper maintenance and repairs to the landfill cover, fences, leachate collection, and landfill gas venting system. The site is fenced and provided with a locking gate to restrict access. Limiting access to the site will prevent damage to the final cover system and the methane gas collection system, if a conventional clay cover is utilized. Biannual inspection and maintenance will be conducted to repair any erosion or settlement damage to ensure the integrity of the final cover system is not diminished.

3.4 Monitoring and Maintenance of Site

The site will be monitored on a semi-annual basis for the post closure period after vegetation has been established on the site. Site inspections shall be conducted in concurrence with sampling to minimize post closure costs. Inspections shall include a complete inspection of the closed area to determine any damage that may affect the integrity of the clay cap. Maintenance shall be completed as needed on affected areas. General maintenance of the Regional Landfill will also correspond to monitoring requirements on a semi-annual basis. This may be reconsidered in the future based on actual site visit findings.

Maintenance on the slopes shall be conducted on an annual basis to fill and grade any depressions that are caused by settlement or erosion. Reseeding and mulching of repair areas will be conducted as needed.

Serious erosion and settling of the cover material shall be thoroughly inspected to determine if damage to clay cap has occurred. If damage has occurred, topsoil will be removed from the area and the clay cap area recompacted with suitable clay material to the desired grades. The topsoil shall be replaced and revegetated. Erosion control devices, such as straw bales and mulching shall be applied to prevent erosion damage until vegetation has been established. The area will be monitored weekly until vegetation has been reestablished.

3.5 Leachate Collection System Maintenance

The leachate collection system will be maintained until no further leachate is collected for a period of not less than one year. At that time the leachate pumping system will be shut down. The leachate sump pumps and lift station(s) will be utilized to routinely check if leachate exceeds the maximum 1-foot level in the cells. Periodic monitoring of leachate levels will correspond to semi-annual ground water monitoring for the post-closure period as required by ARSD 74:27:15.

3.6 Groundwater Monitoring

Groundwater monitoring equipment is basically maintenance free for the life span of the testing. Groundwater monitoring wells have guard posts (bollards) installed for protection from mobile equipment. Groundwater monitoring is required on a semi-annual basis for the post-closure care period.

3.7 Methane Gas Migration Monitoring

Passive gas vents and monitoring equipment are low maintenance for the life span of the testing. Gas monitoring vents (if required) may require guard posts dependent on the land use after closure. Landfill gas migration monitoring is required on a quarterly basis for the post-closure care period.

3.8 Cost Estimate

The cost estimate for post-closure care costs will utilize annual costs that will be incurred after closure of the Pierre Regional Landfill. The cost estimate is presented in tabular form in Table 6. The estimate assumes outside services will be hired to perform annual inspections, routine maintenance, erosion damage repair, groundwater monitoring, methane gas monitoring, and

administrative reporting. The total annual cost (in 2014 dollars) is estimated at $32,000 for post closure care of the Regional Landfill.

TABLE 6 POST-CLOSURE CARE COSTS (2014$)

ITEM DESCRIPTION	ESTIMATED ANNUAL COST	
Facility Inspection Costs	$	2,000
Routine Maintenance and Repair Costs	$	5,000
Erosion Damage Repair and Reseeding Costs	$	5,000
Groundwater and Methane Monitoring and Reporting Costs	$	17,000
Administrative and Annual Reports	$	3,000
Subtotal Post-Closure Costs	$	32,000
Total Estimate Annual Post Closure Costs	**$**	**32,000**

3.9 Post Closure Certification (74:27:15:10)

Upon completion of the post closure activities of the Pierre Regional Landfill, the City of Pierre will secure the services of a registered professional engineer to certify that the provisions of this Post-Closure Plan have been met.

If changes or modifications are made that will affect this Post-Closure Plan, a revised plan will be submitted to the department for approval 60 days prior to any changes taking place.

PIERRE REGIONAL LANDFILL

SITE LIFE CALCULATION

Year	MSW Tons	Annual % Increase	Annual CY of Waste	Total CY of Waste	Total Capacity	Cell 1 Waste Capacity	Cell 2 Waste Capacity	Cell 3 Waste Capacity	Cell 4 Waste Capacity	Cell 5 Waste Capacity	Cell 6 Waste Capacity	Cell 7 Waste Capacity	Cell 8 Waste Capacity	Cell 9 Waste Capacity	Cell 10 Waste Capacity	Cell 11 Waste Capacity	Cell 12 Waste Capacity	Cell 13 Waste Capacity	Cell 14 Waste Capacity
2003	1,028																		
2004	18,593		41,318	41,318	11,657,790	441,006													
2005	23,103		51,340	92,658	11,606,450	389,666													
2006	22,992	-0.48%	51,093	143,752	11,555,356	338,572													
2007	23,299	1.34%	51,776	195,528	11,503,580	286,796													
2008	23,237	-0.27%	51,639	247,167	11,451,941	235,157													
2009	23,273	0.15%	51,718	298,885	11,400,223	183,439													
2010	23,966	2.98%	53,258	352,143	11,346,965		470,480												
2011	26,328	9.86%	58,507	410,651	11,288,457		411,972												
2012	23,759	-9.76%	52,798	463,449	11,235,659		359,174												
2013	23,878	0.5%	53,062	516,511	11,182,597		306,112												
2014	23,997	0.5%	53,328	569,838	11,129,270		252,784												
2015	24,117	0.5%	53,594	623,433	11,075,675		199,190												
2016	24,238	0.5%	53,862	677,295	11,021,813			574,365											
2017	24,359	0.5%	54,131	731,426	10,967,682			520,233											
2018	24,481	0.5%	54,402	785,828	10,913,280			465,831											
2019	24,603	0.5%	54,674	840,502	10,858,606			411,157											
2020	24,726	0.5%	54,947	895,450	10,803,658			356,210											
2021	24,850	0.5%	55,222	950,672	10,748,436			300,988											
2022	24,974	0.5%	55,498	1,006,170	10,692,938			245,489											
2023	25,099	0.5%	55,776	1,061,946	10,637,162			189,714											
2024	25,225	0.5%	56,055	1,118,001	10,581,107			133,659											
2025	25,351	0.5%	56,335	1,174,336	10,524,772		142,855												
2026	25,477	0.5%	56,617	1,230,952	10,468,156		86,239												
2027	25,605	0.5%	56,900	1,287,852	10,411,256		29,339												
2028	25,733	0.5%	57,184	1,345,036	10,354,072		0	105,814											
2029	25,862	0.5%	57,470	1,402,506	10,296,602			48,344											
2030	25,991	0.5%	57,757	1,460,264	10,238,844			0	851,102										
2031	26,121	0.5%	58,046	1,518,310	10,180,798				793,056										
2032	26,251	0.5%	58,336	1,576,647	10,122,461				734,719										
2033	26,383	0.5%	58,628	1,635,275	10,063,833				676,091										
2034	26,515	0.5%	58,921	1,694,196	10,004,912				617,170										
2035	26,647	0.5%	59,216	1,753,412	9,945,696				557,954										
2036	26,780	0.5%	59,512	1,812,924	9,886,184	123,927													
2037	26,914	0.5%	59,810	1,872,734	9,826,374	64,118													
2038	27,049	0.5%	60,109	1,932,842	9,766,266	4,009													
2039	27,184	0.5%	60,409	1,993,251	9,705,857	0			501,554										
2040	27,320	0.5%	60,711	2,053,963	9,645,145				440,842										
2041	27,457	0.5%	61,015	2,114,977	9,584,131				379,828										
2042	27,594	0.5%	61,320	2,176,297	9,522,811				318,508										
2043	27,732	0.5%	61,626	2,237,924	9,461,184				256,881										
2044	27,871	0.5%	61,935	2,299,858	9,399,250				194,947										
2045	28,010	0.5%	62,244	2,362,102	9,337,006				132,703										
2046	28,150	0.5%	62,555	2,424,658	9,274,450				70,147										
2047	28,291	0.5%	62,868	2,487,526	9,211,582				7,279										
2048	28,432	0.5%	63,183	2,550,709	9,148,399				0	646,962									
2049	28,574	0.5%	63,498	2,614,207	9,084,901					583,464									
2050	28,717	0.5%	63,816	2,678,023	9,021,085					519,648									
2051	28,861	0.5%	64,135	2,742,158	8,956,950					455,513									
2052	29,005	0.5%	64,456	2,806,614	8,892,494					391,057									
2053	29,150	0.5%	64,778	2,871,392	8,827,716					326,279									
2054	29,296	0.5%	65,102	2,936,494	8,762,614					261,177									
2055	29,442	0.5%	65,427	3,001,921	8,697,187					195,750									
2056	29,590	0.5%	65,755	3,067,676	8,631,432					129,995									
2057	29,737	0.5%	66,083	3,133,759	8,565,349					63,912									
2058	29,886	0.5%	66,414	3,200,173	8,498,935					0	902,897								
2059	30,036	0.5%	66,746	3,266,919	8,432,189						836,151								
2060	30,186	0.5%	67,080	3,333,998	8,365,110						769,072								
2061	30,337	0.5%	67,415	3,401,413	8,297,695						701,657								
2062	30,488	0.5%	67,752	3,469,165	8,229,943						633,905								
2063	30,641	0.5%	68,091	3,537,256	8,161,852						565,814								
2064	30,794	0.5%	68,431	3,605,687	8,093,421						497,383								
2065	30,948	0.5%	68,773	3,674,461	8,024,647						428,609								
2066	31,103	0.5%	69,117	3,743,578	7,955,530						359,492								
2067	31,258	0.5%	69,463	3,813,041	7,886,067						290,029								
2068	31,415	0.5%	69,810	3,882,851	7,816,257						220,219								
2069	31,572	0.5%	70,159	3,953,010	7,746,098						150,060								
2070	31,729	0.5%	70,510	4,023,520	7,675,588						79,550								
2071	31,888	0.5%	70,863	4,094,383	7,604,725						8,687								
2072	32,048	0.5%	71,217	4,165,599	7,533,509						0	657,579							
2073	32,208	0.5%	71,573	4,237,172	7,461,936							586,006							
2074	32,369	0.5%	71,931	4,309,103	7,390,005							514,075							
2075	32,531	0.5%	72,290	4,381,394	7,317,714							441,784							
2076	32,693	0.5%	72,652	4,454,046	7,245,062							369,132							
2077	32,857	0.5%	73,015	4,527,061	7,172,047							296,117							
2078	33,021	0.5%	73,380	4,600,441	7,098,667							222,737							
2079	33,186	0.5%	73,747	4,674,188	7,024,920							148,990							
2080	33,352	0.5%	74,116	4,748,304	6,950,804							74,874							
2081	33,519	0.5%	74,486	4,822,791	6,876,317							387							

PIERRE REGIONAL LANDFILL
SITE LIFE CALCULATION

Year	MSW Tons	Annual % Increase	Annual CY of Waste	Total CY of Waste	Total Capacity	Cell 1 Waste Capacity	Cell 2 Waste Capacity	Cell 3 Waste Capacity	Cell 4 Waste Capacity	Cell 5 Waste Capacity	Cell 6 Waste Capacity	Cell 7 Waste Capacity	Cell 8 Waste Capacity	Cell 9 Waste Capacity	Cell 10 Waste Capacity	Cell 11 Waste Capacity	Cell 12 Waste Capacity	Cell 13 Waste Capacity	Cell 14 Waste Capacity
2082	33,687	0.5%	74,859	4,897,649	6,801,459							0	901,083						
2083	33,855	0.5%	75,233	4,972,883	6,726,225								825,849						
2084	34,024	0.5%	75,609	5,048,492	6,650,616								750,240						
2085	34,194	0.5%	75,987	5,124,479	6,574,629								674,253						
2086	34,365	0.5%	76,367	5,200,847	6,498,261								597,885						
2087	34,537	0.5%	76,749	5,277,596	6,421,512								521,136						
2088	34,710	0.5%	77,133	5,354,729	6,344,379								444,003						
2089	34,883	0.5%	77,519	5,432,247	6,266,861								366,485						
2090	35,058	0.5%	77,906	5,510,154	6,188,954								288,578						
2091	35,233	0.5%	78,296	5,588,449	6,110,659								210,283						
2092	35,409	0.5%	78,687	5,667,137	6,031,971								131,595						
2093	35,586	0.5%	79,081	5,746,217	5,952,891								52,515						
2094	35,764	0.5%	79,476	5,825,693	5,873,415								0	701,136					
2095	35,943	0.5%	79,873	5,905,567	5,793,541									621,262					
2096	36,123	0.5%	80,273	5,985,839	5,713,269									540,990					
2097	36,303	0.5%	80,674	6,066,514	5,632,594									460,315					
2098	36,485	0.5%	81,078	6,147,591	5,551,517									379,238					
2099	36,667	0.5%	81,483	6,229,074	5,470,034									297,755					
2100	36,851	0.5%	81,890	6,310,964	5,388,144									215,865					
2101	37,035	0.5%	82,300	6,393,264	5,305,844									133,565					
2102	37,220	0.5%	82,711	6,475,975	5,223,133									50,854					
2103	37,406	0.5%	83,125	6,559,100	5,140,008									0	964,493				
2104	37,593	0.5%	83,540	6,642,641	5,056,467										881,368				
2105	37,781	0.5%	83,958	6,726,599	4,972,509										797,828				
2106	37,970	0.5%	84,378	6,810,977	4,888,131										713,869				
2107	38,160	0.5%	84,800	6,895,776	4,803,332										629,492				
2108	38,351	0.5%	85,224	6,981,000	4,718,108										544,692				
2109	38,542	0.5%	85,650	7,066,650	4,632,458										459,468				
2110	38,735	0.5%	86,078	7,152,728	4,546,380										373,818				
2111	38,929	0.5%	86,509	7,239,237	4,459,871										287,740				
2112	39,124	0.5%	86,941	7,326,178	4,372,930										201,231				
2113	39,319	0.5%	87,376	7,413,554	4,285,554										114,290				
2114	39,516	0.5%	87,813	7,501,367	4,197,741										26,914				
2115	39,713	0.5%	88,252	7,589,619	4,109,489										0	672,482			
2116	39,912	0.5%	88,693	7,678,312	4,020,796											583,789			
2117	40,111	0.5%	89,137	7,767,448	3,931,660											494,653			
2118	40,312	0.5%	89,582	7,857,030	3,842,078											405,071			
2119	40,514	0.5%	90,030	7,947,060	3,752,048											315,041			
2120	40,716	0.5%	90,480	8,037,541	3,661,567											224,560			
2121	40,920	0.5%	90,933	8,128,473	3,570,635											133,628			
2122	41,124	0.5%	91,387	8,219,861	3,479,247											42,240			
2123	41,330	0.5%	91,844	8,311,705	3,387,403											0	958,056		
2124	41,537	0.5%	92,303	8,404,008	3,295,100												865,753		
2125	41,744	0.5%	92,765	8,496,773	3,202,335												772,988		
2126	41,953	0.5%	93,229	8,590,002	3,109,106												679,759		
2127	42,163	0.5%	93,695	8,683,697	3,015,411												586,064		
2128	42,374	0.5%	94,163	8,777,860	2,921,248												491,900		
2129	42,585	0.5%	94,634	8,872,495	2,826,613												397,266		
2130	42,798	0.5%	95,107	8,967,602	2,731,506												302,159		
2131	43,012	0.5%	95,583	9,063,185	2,635,923												206,576		
2132	43,227	0.5%	96,061	9,159,246	2,539,862												110,515		
2133	43,444	0.5%	96,541	9,255,787	2,443,321												13,974		
2134	43,661	0.5%	97,024	9,352,811	2,346,297												0	961,838	
2135	43,879	0.5%	97,509	9,450,320	2,248,788													864,329	
2136	44,098	0.5%	97,997	9,548,317	2,150,791													766,332	
2137	44,319	0.5%	98,487	9,646,803	2,052,305													667,846	
2138	44,541	0.5%	98,979	9,745,782	1,953,326													568,867	
2139	44,763	0.5%	99,474	9,845,256	1,853,852													469,393	
2140	44,987	0.5%	99,971	9,945,227	1,753,881													369,422	
2141	45,212	0.5%	100,471	10,045,698	1,653,410													268,951	
2142	45,438	0.5%	100,973	10,146,672	1,552,436													167,977	
2143	45,665	0.5%	101,478	10,248,150	1,450,958													66,499	
2144	45,894	0.5%	101,986	10,350,136	1,348,972													0	1,354,168
2145	46,123	0.5%	102,496	10,452,631	1,246,477														1,251,672
2146	46,354	0.5%	103,008	10,555,639	1,143,469														1,148,664
2147	46,585	0.5%	103,523	10,659,163	1,039,945														1,045,141
2148	46,818	0.5%	104,041	10,763,203	935,905														941,100
2149	47,052	0.5%	104,561	10,867,764	831,344														836,539
2150	47,288	0.5%	105,084	10,972,848	726,260														731,455
2151	47,524	0.5%	105,609	11,078,457	620,651														625,846
2152	47,762	0.5%	106,137	11,184,594	514,514														519,709
2153	48,001	0.5%	106,668	11,291,262	407,846														413,041
2154	48,241	0.5%	107,201	11,398,464	300,644														305,840
2155	48,482	0.5%	107,737	11,506,201	192,907														198,102
2156	48,724	0.5%	108,276	11,614,477	84,631														89,826
2157	48,968	0.5%	108,817	11,723,294	(24,186)														(18,991)

APPENDIX K

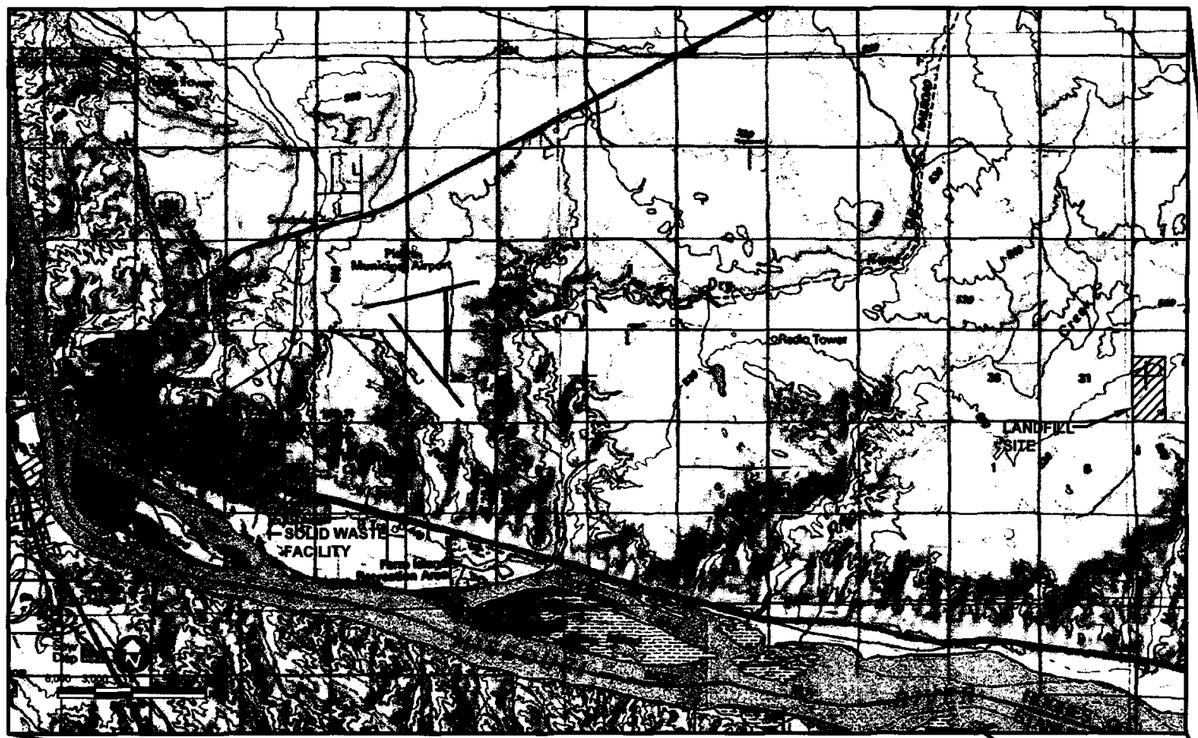
PERMIT DRAWINGS

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

HDR

HDR Engineering, Inc.



Permit Drawings For

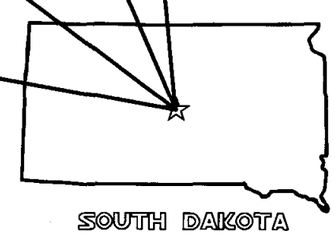
2013 PERMIT RENEWAL APPLICATION

PIERRE REGIONAL LANDFILL

Issued for Permit

HDR Project No.
000000000218482

Pierre, South Dakota
December 2013



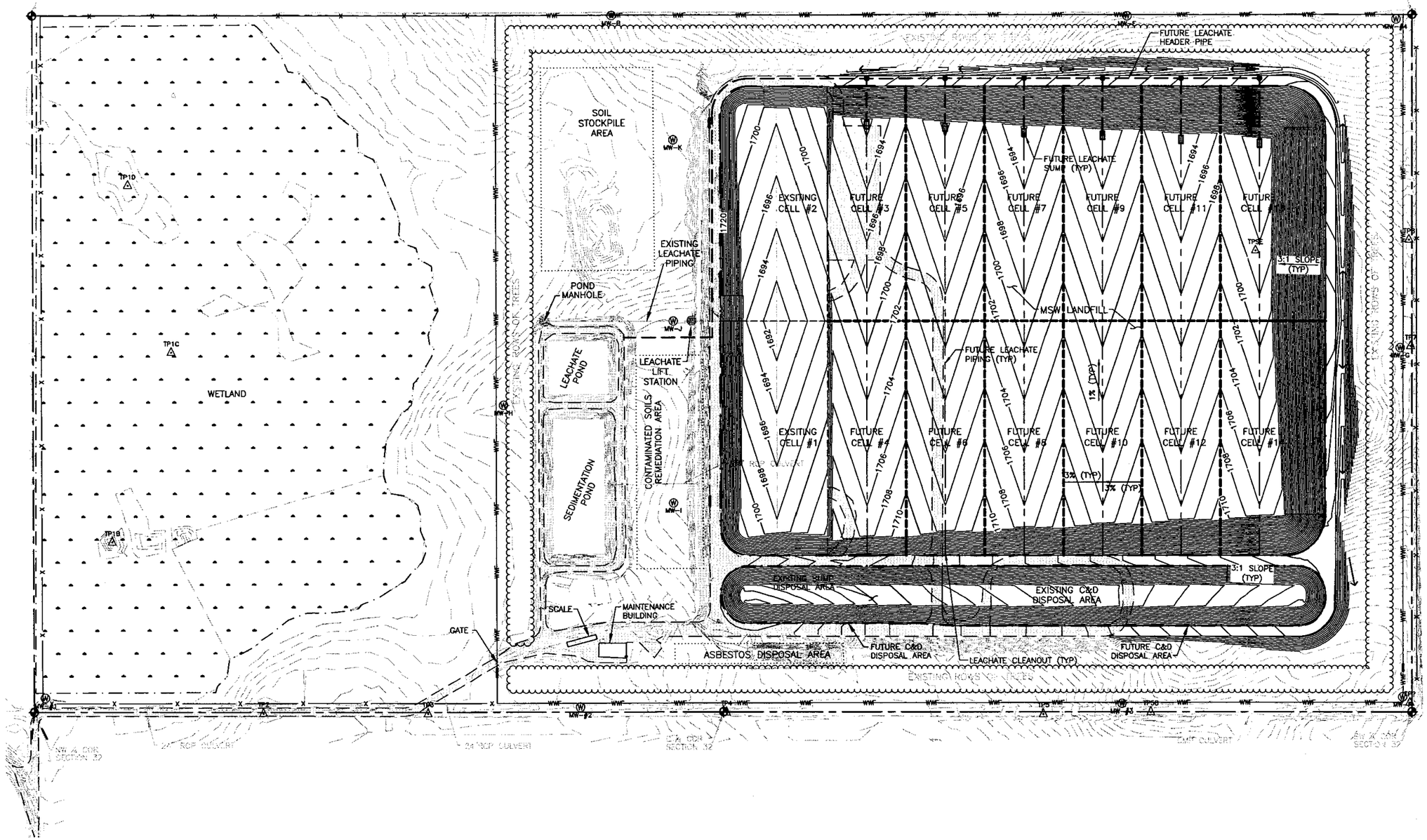
INDEX OF DRAWINGS

GENERAL

00G-00	COVER SHEET

CIVIL

00C-01	EXISTING CONDITIONS
00C-02	LANDFILL LAYOUT AND LINER CONTOURS
00C-03	FINAL CLOSURE CONTOURS
00C-04	CROSS-SECTIONS
00C-05	LINER AND LEACHATE COLLECTION DETAILS
00C-06	LINER AND LEACHATE COLLECTION DETAILS
00C-07	CAPPING DETAILS



N

200 0 200 400
SCALE IN FEET

LEGEND	
x	BARB WIRE FENCE
WWF	WIRE WOVEN FENCE
MW-#	MONITORING WELL
	EXISTING TREE LINE
	WETLAND
	SECTION LINE
TP7	SURVEY CONTROL POINT
	1/4 CORNER
	C&D BOUNDARY
	ACTIVE CELL BOUNDARY
	FUTURE CELL BOUNDARY
	EXISTING ROAD
	FUTURE ROAD
	MSW LANDFILL BOUNDARY
	EXISTING LEACHATE PIPE
	FUTURE LEACHATE PIPE
	EXISTING CULVERT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	FUTURE LEACHATE SUMP
	FLOW ARROW

NOTES:

1. SEE APPENDIX J FOR CELL ACRES, VOLUMES, AND SITE LIFE ESTIMATES.
2. SEE APPENDIX O FOR HELP MODELING.
3. SEE SHEETS 00C-05 AND 00C-06 FOR LINER AND LEACHATE COLLECTION DETAILS.

HDR
HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
1	12-2013	ISSUED TO SD-DENR

PROJECT MANAGER	M. Evans
PROJECT ENGINEER	L. Calub
CIVIL ENGINEER	B. Erickson
PROJECT NUMBER	218482

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 8248
MATTHEW J. EVANS
SOUTH DAKOTA
12/31/13

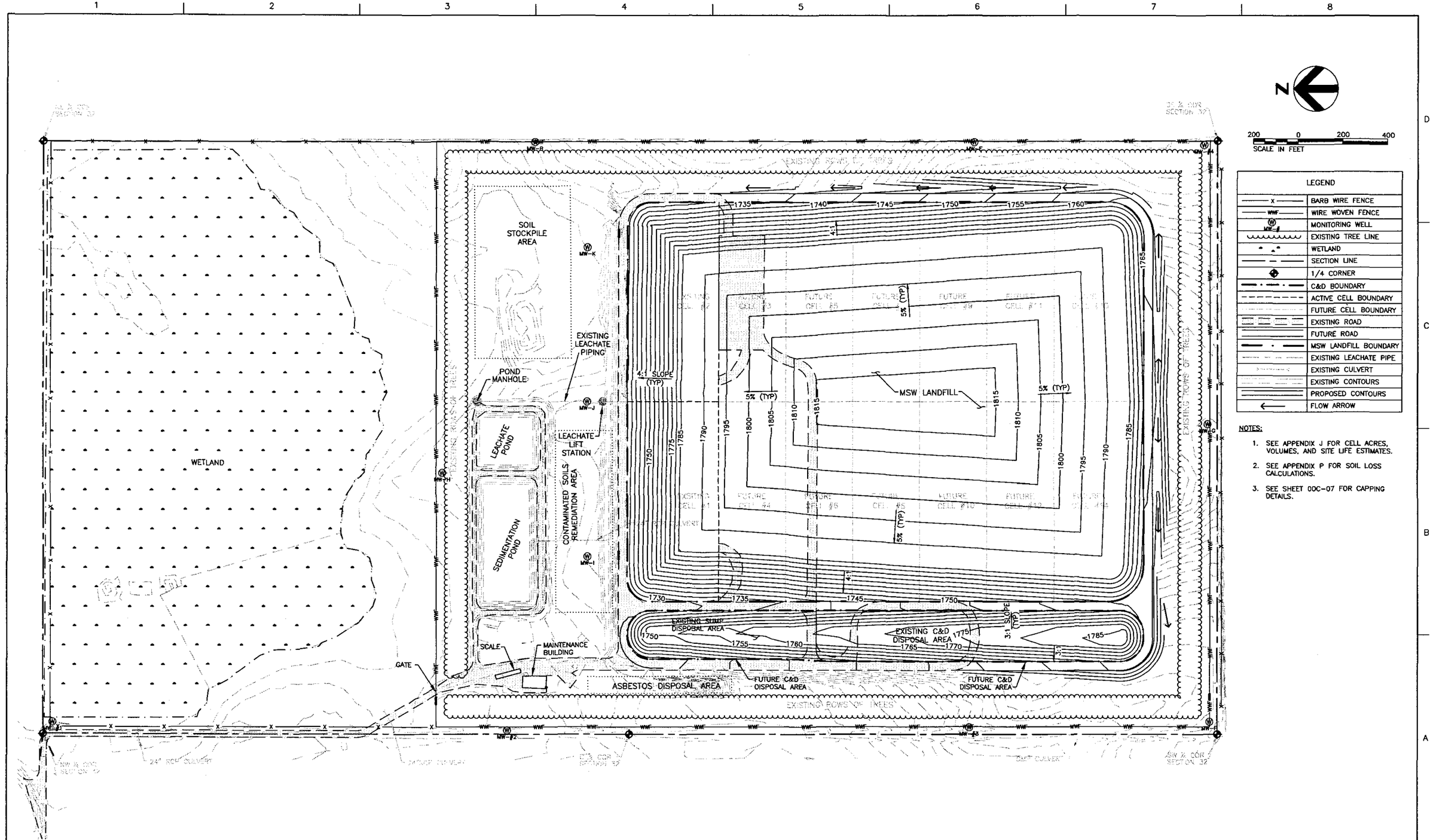
2013 PERMIT RENEWAL APPLICATION
PIERRE REGIONAL LANDFILL
CITY OF PIERRE, SOUTH DAKOTA

LANDFILL LAYOUT AND LINER CONTOURS

0 1" 2"

FILENAME	00C-02.DWG
SCALE	1" = 200'

SHEET 00C-02



HDR
HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
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PROJECT MANAGER	M. Evans
PROJECT ENGINEER	L. Calub
CIVIL ENGINEER	B. Erickson
PROJECT NUMBER	218482

REGISTERED PROFESSIONAL ENGINEER REG. NO. 8248 MATTHEW J. EVANS SOUTH DAKOTA 12/32/13

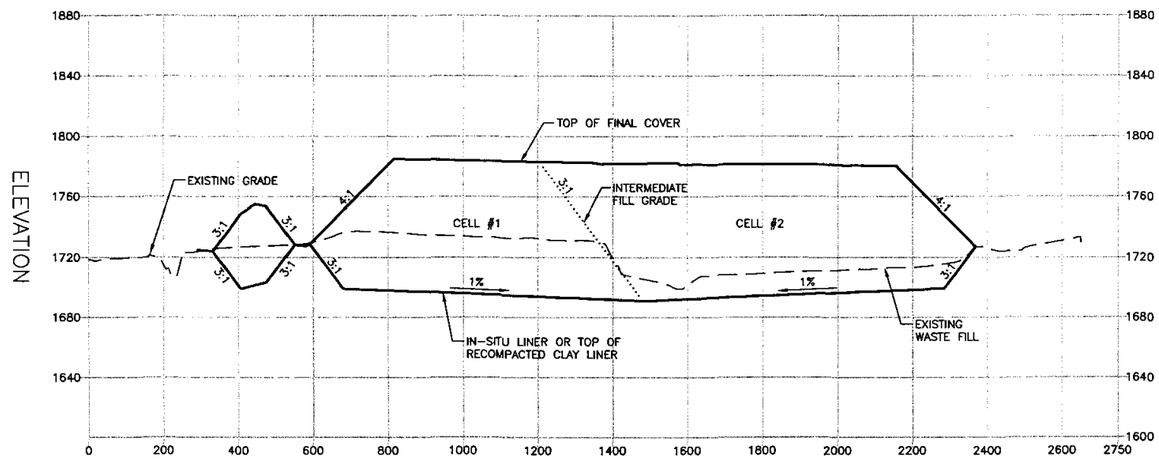
2013 PERMIT RENEWAL APPLICATION
PIERRE REGIONAL LANDFILL
CITY OF PIERRE, SOUTH DAKOTA

FINAL CLOSURE CONTOURS

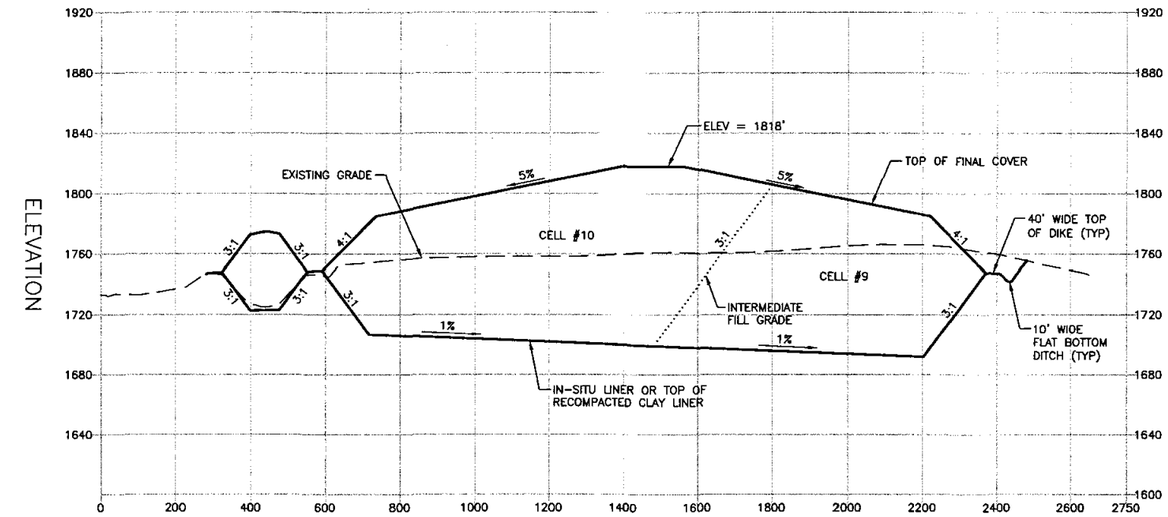
0 1" 2"

FILENAME	00C-03.DWG
SCALE	1" = 200'

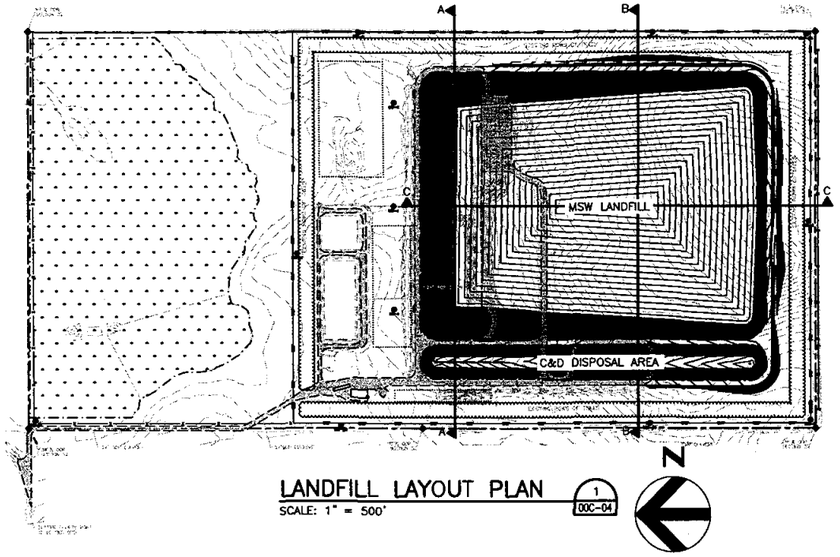
SHEET 00C-03



TYPICAL SECTION A–A

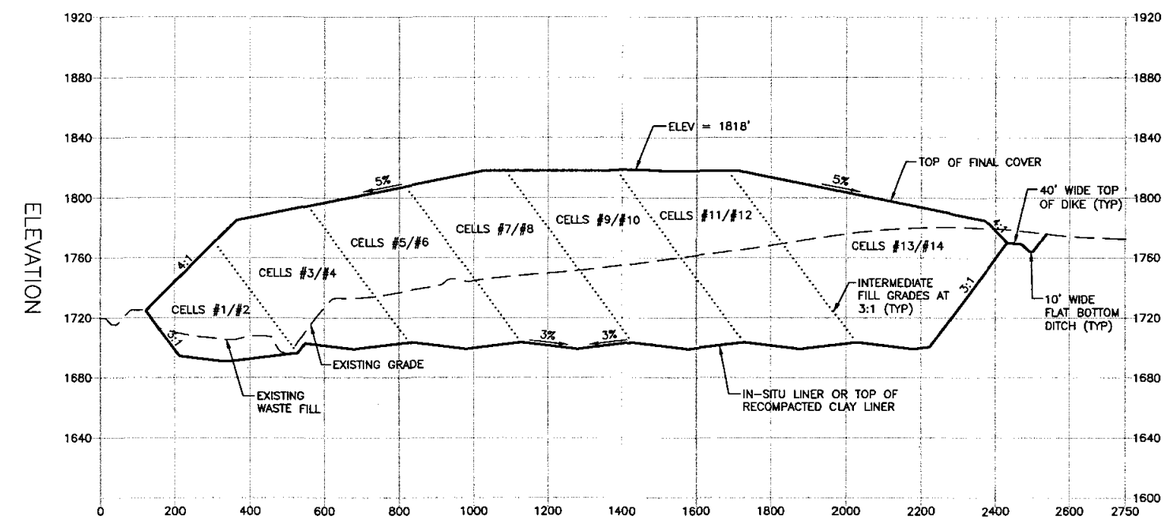


TYPICAL SECTION B–B



LANDFILL LAYOUT PLAN (1 / 00C-04)

SCALE: 1" = 500'



TYPICAL SECTION C–C

HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 50'

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
1	12-2013	ISSUED TO SD-DENR

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CIVIL ENGINEER	B. Erickson
PROJECT NUMBER	218482

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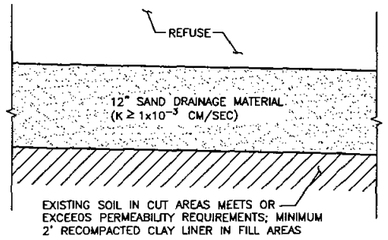
2013 PERMIT RENEWAL APPLICATION
PIERRE REGIONAL LANDFILL
CITY OF PIERRE, SOUTH DAKOTA

CROSS-SECTIONS

0 1" 2"

FILENAME	00C-04.DWG
SCALE	AS SHOWN

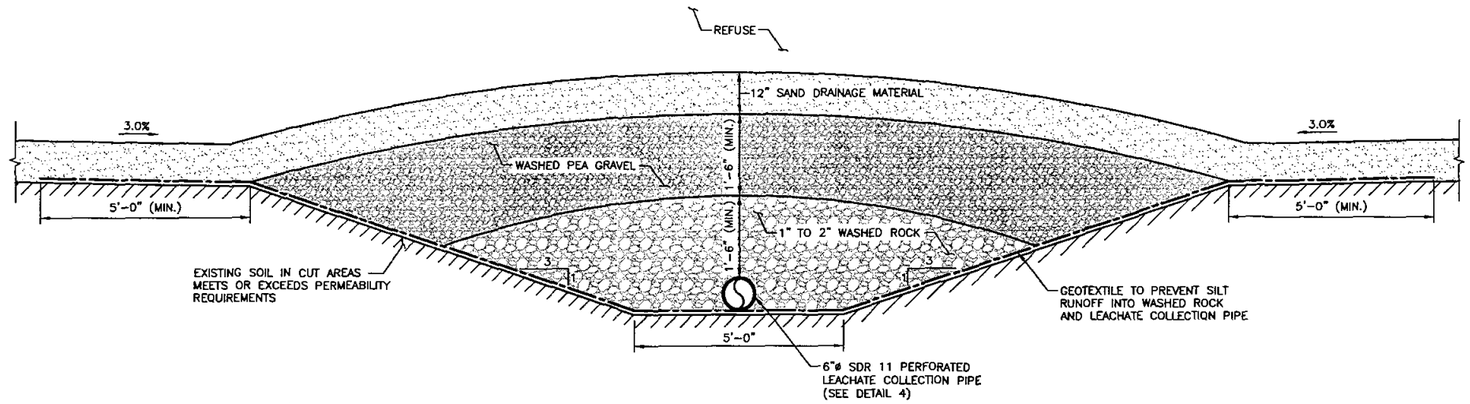
SHEET 00C-04



TYPICAL LINER SECTION

SCALE: NONE

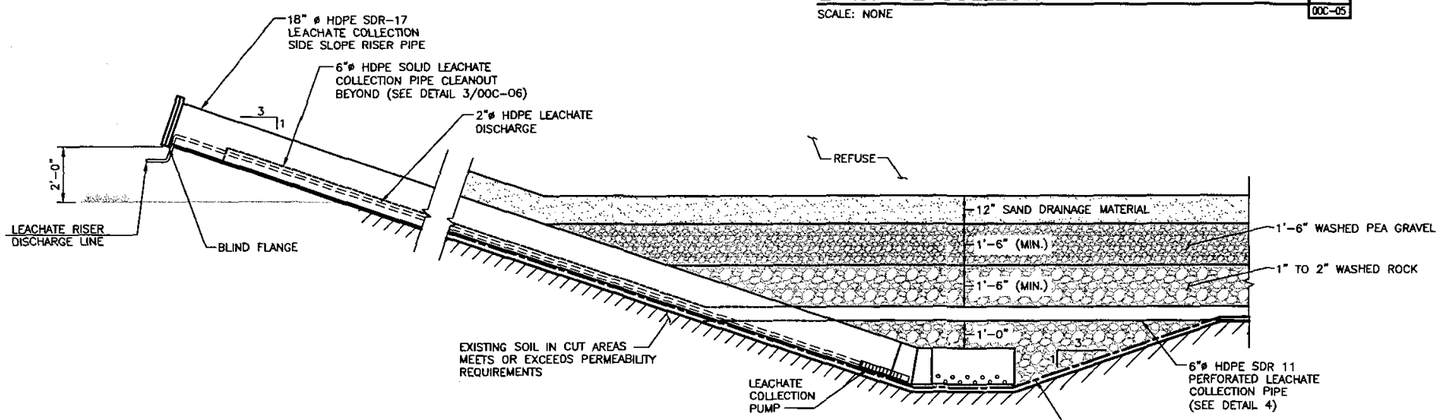
1 / 00C-05



LEACHATE COLLECTION TRENCH SECTION

SCALE: NONE

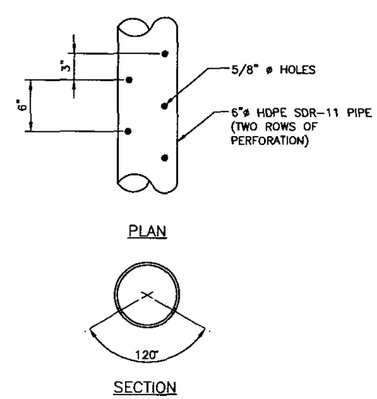
2 / 00C-05



LEACHATE COLLECTION SUMP SECTION

SCALE: NONE

3 / 00C-05



LEACHATE COLLECTION PIPE PERFORATION DETAIL

SCALE: NONE

4 / 00C-05

HDR

HDR Engineering, Inc.

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PROJECT MANAGER	M. Evans
PROJECT ENGINEER	L. Calub
CIVIL ENGINEER	B. Erickson
PROJECT NUMBER	218482

REGISTERED PROFESSIONAL ENGINEER REG. NO. 8246 MATTHEW J. EVANS SOUTH DAKOTA 12/22/13

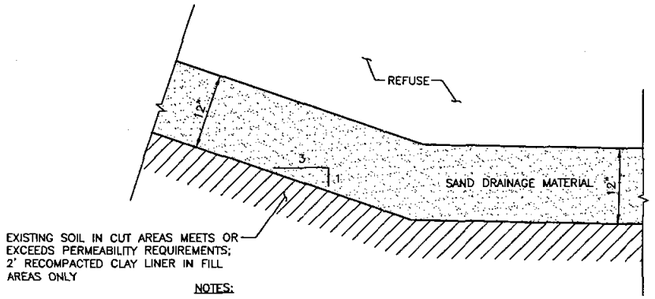
2013 PERMIT RENEWAL APPLICATION
PIERRE REGIONAL LANDFILL
CITY OF PIERRE, SOUTH DAKOTA

LINER AND LEACHATE COLLECTION DETAILS

0 1" 2"

FILENAME	00C-05.DWG
SCALE	AS SHOWN

SHEET 00C-05

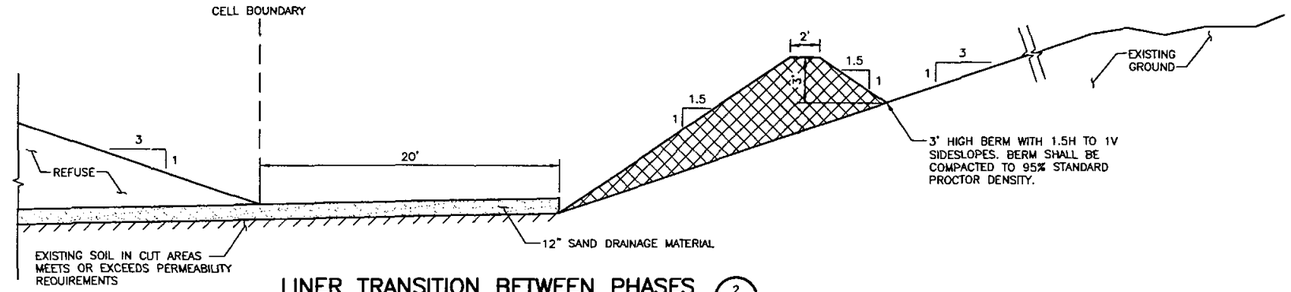


NOTES:

1. SAND DRAINAGE LAYER SHALL HAVE A MINIMUM HYDRAULIC CONDUCTIVITY OF $1x10^{-3}$ CM/SEC.
2. EXISTING SOIL CONDITIONS OR CLAY LINER SHALL HAVE MAXIMUM HYDRAULIC CONDUCTIVITY OF $1x10^{-7}$ CM/SEC COMPACTED TO A MINIMUM OF 98 PERCENT DENSITY AT A MOISTURE CONTENT FROM OPTIMUM TO 3% ABOVE OPTIMUM AS DETERMINED BY ASTM D698.

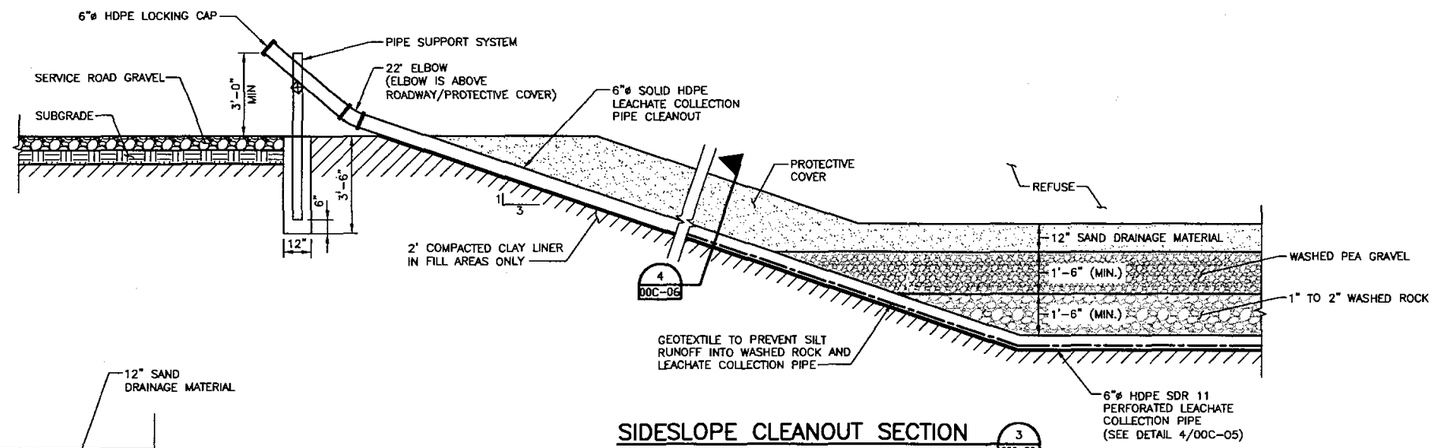
TYPICAL SIDESLOPE SECTION (1 / 00C-06)

SCALE: NONE



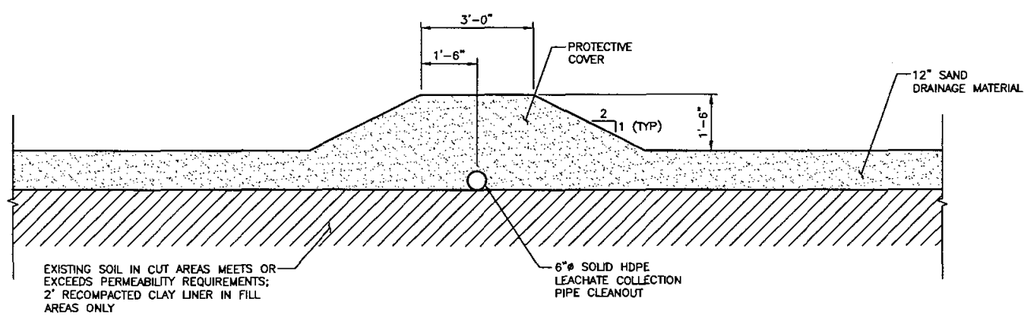
LINER TRANSITION BETWEEN PHASES (2 / 00C-06)

SCALE: NONE



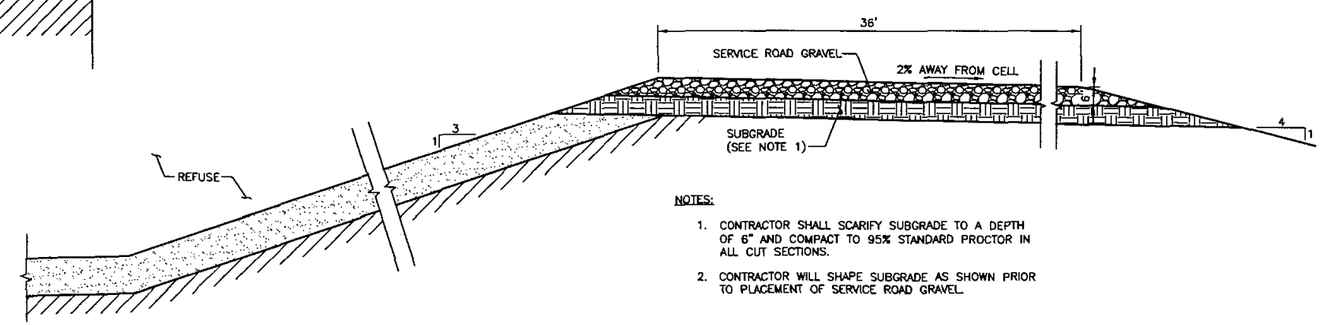
SIDESLOPE CLEANOUT SECTION (3 / 00C-05)

SCALE: NONE



LANDFILL SIDESLOPE LINER AT CLEANOUT PIPE DETAIL (4 / 00C-06)

SCALE: NONE



NOTES:

1. CONTRACTOR SHALL SCARIFY SUBGRADE TO A DEPTH OF 6" AND COMPACT TO 95% STANDARD PROCTOR IN ALL CUT SECTIONS.
2. CONTRACTOR WILL SHAPE SUBGRADE AS SHOWN PRIOR TO PLACEMENT OF SERVICE ROAD GRAVEL.

ACCESS ROAD DETAIL (ADJACENT TO CELL) (5 / 00C-06)

SCALE: NONE

HDR

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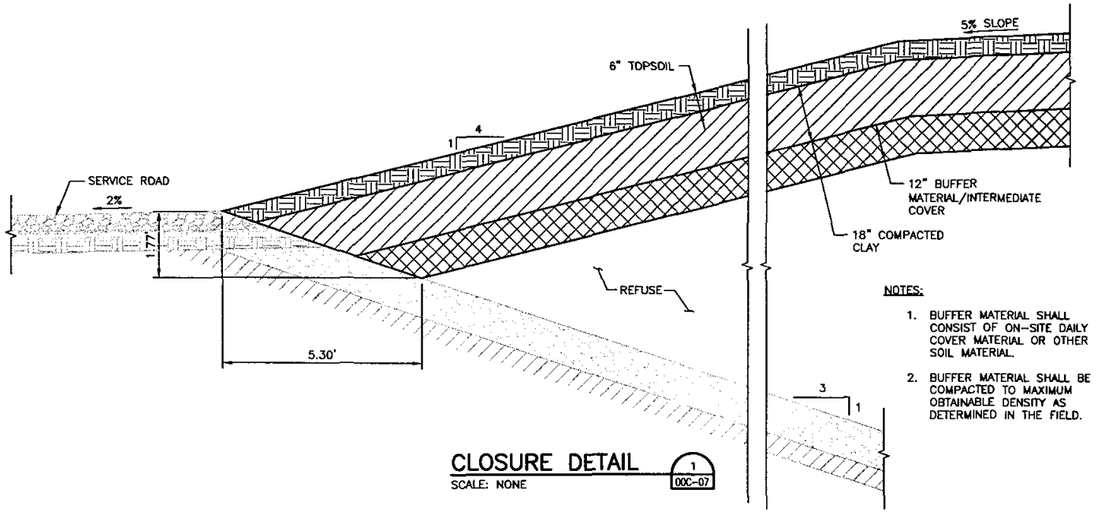
2013 PERMIT RENEWAL APPLICATION
PIERRE REGIONAL LANDFILL
CITY OF PIERRE, SOUTH DAKOTA

LINER AND LEACHATE COLLECTION DETAILS

0 1" 2"

FILENAME	00C-06.DWG
SCALE	AS SHOWN

SHEET 00C-06

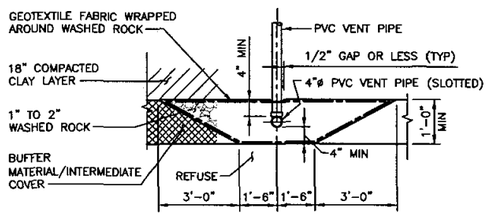


NOTES:

1. BUFFER MATERIAL SHALL CONSIST OF ON-SITE DAILY COVER MATERIAL OR OTHER SOIL MATERIAL.
2. BUFFER MATERIAL SHALL BE COMPACTED TO MAXIMUM OBTAINABLE DENSITY AS DETERMINED IN THE FIELD.

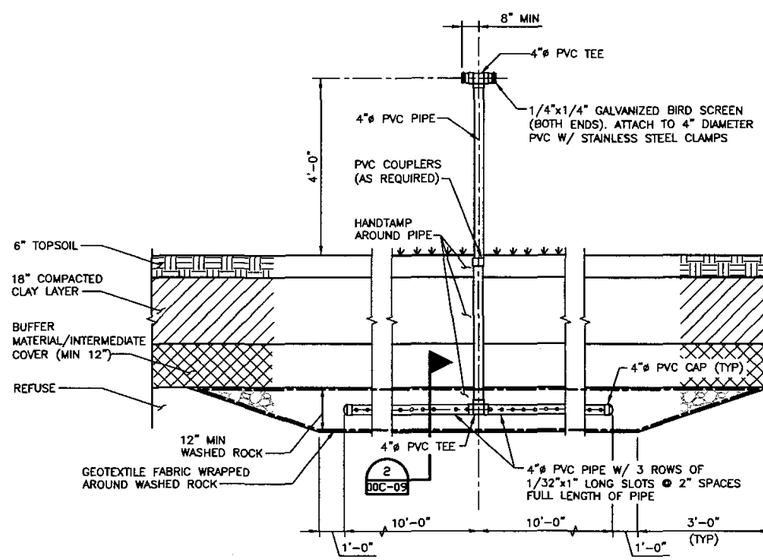
CLOSURE DETAIL (1 / 00C-07)

SCALE: NONE



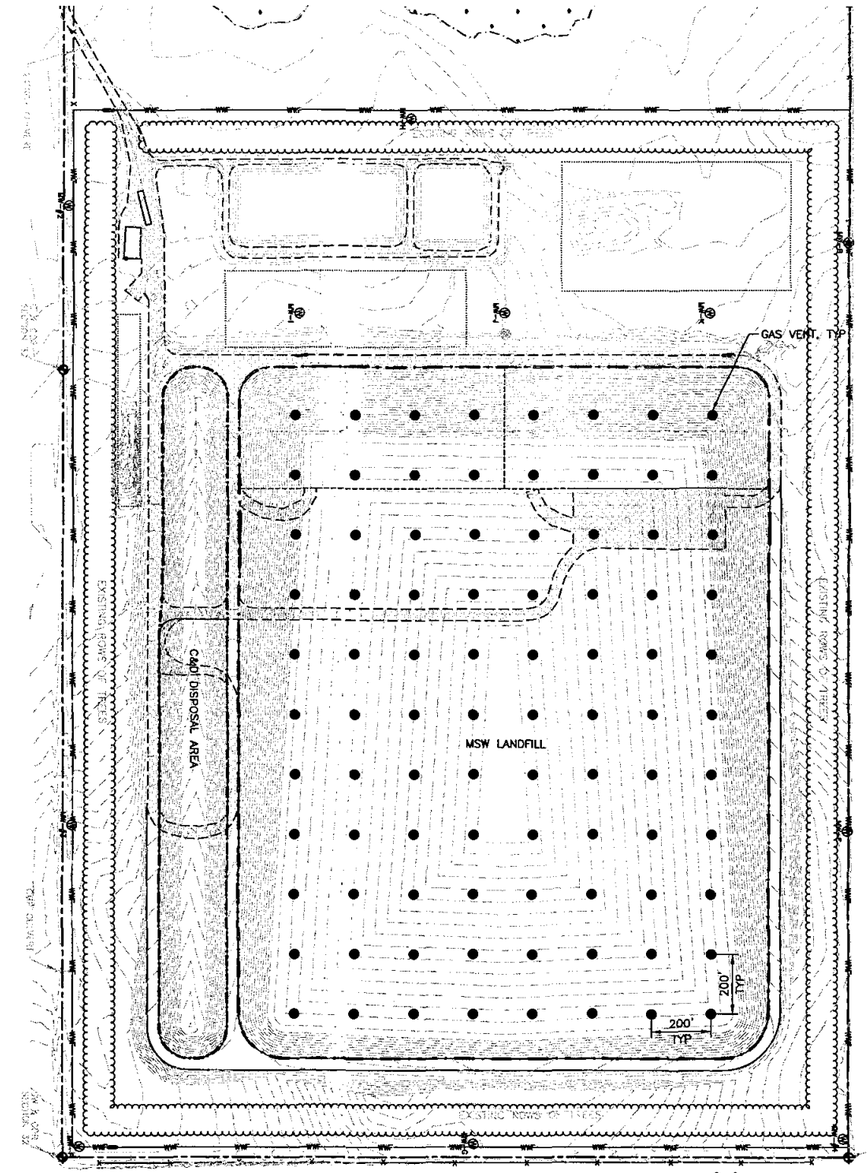
FINAL COVER AND GAS VENT BEDDING DETAIL (2 / 00C-07)

SCALE: NONE



FINAL COVER AND GAS VENT DETAIL (3 / 00C-07)

SCALE: NONE



NOTES: SEE DETAIL 3 THIS SHEET.

VENT LOCATION PLAN (4 / 00C-07)

SCALE: 1" = 250'

N

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
1	12-2013	ISSUED TO SD-DENR

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PROJECT NUMBER	218482

REGISTERED PROFESSIONAL ENGINEER REG. NO. 8246 MATTHEW J. EVANS SOUTH DAKOTA 12/22/13

2013 PERMIT RENEWAL APPLICATION
PIERRE REGIONAL LANDFILL
CITY OF PIERRE, SOUTH DAKOTA

CAPPING DETAILS

0 1" 2"

FILENAME	00C-07.DWG
SCALE	AS SHOWN

SHEET 00C-07

APPENDIX L

FINANCIAL ASSURANCE PLAN

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

PIERRE REGIONAL LANDFILL
FINANCIAL ASSURANCE PLAN

Table of Contents

1.0 APPLICABILITY 1
2.0 CLOSURE COSTS ESTIMATE 1
3.0 POST-CLOSURE COSTS ESTIMATE 2
4.0 ENVIRONMENTAL REMEDIATION COSTS ESTIMATE 3
5.0 CORRECTIVE ACTION COSTS ESTIMATE 4
6.0 FINANCIAL ASSURANCE FUND 4

List of Tables

Table 1 Closure Fund Amortization 2
Table 2 Post-Closure Fund Amortization 2
Table 3 Financial Assurance Annual Pay-In 4

1.0 APPLICABILITY

South Dakota Department of Environment and Natural Resources Administrative Rule (ARSD) 74:27:16 indicates that a financial assurance plan be developed for all municipal solid waste landfills. The financial assurance plan must provide funds to hire a third party to close the facility, provide post-closure care, and for environment remediation in the event the owner is unable to meet the financial obligations.

The 2013 inflation rate is estimated to be 1.68% based on the change in the CPI-U (Midwest Region) from first half of 2012 to first half of 2013 as obtained from U.S. Bureau of Labor Statistics. The Federal Reserve Bank of Minneapolis listed the most recent prime discount rate at 0.75% effective on February 19, 2010. The financial assurance plan will utilize an annual inflation rate of 1.7% and a prime discount rate of 0.75% for calculation of future costs associated with closure and post-closure care of the Pierre Regional Landfill (Landfill). The financial assurance plan will be evaluated on an annual basis and adjusted if necessary for actual inflation rates.

2.0 CLOSURE COSTS ESTIMATE

The Closure/Post-Closure Plan in Appendix J provides an estimate of the most expensive cost to close the Pierre Regional Landfill at any portion of the filling process. This has been estimated to be 41 acres at the time of filling Cell #6 for a total estimated cost of approximately $1,219,750 in 2014 dollars. The operating lifespan of the Pierre Regional Landfill is estimated to be 154 years (see Appendix J-Closure/Post-Closure Plan). The operating lifespan of Cells #1 through #6 is projected to be approximately 68 years with 58 years remaining as of January 1, 2014. The closure portion of the financial assurance plan will be based on the projected remaining 58 years operating lifespan for Cells #1 to #6.

TABLE 1 CLOSURE FUND AMORTIZATION

Pierre Regional Landfill	
Year Landfill Opened	2004
Current Year	2014
Remaining Site Life (Cells #1-#6)	58 Years
Capping Year	2072
Largest Area at Cell #6	41 Acres
Closure Cost (2014$)[1]	$1,219,750
Future Closure Costs [2]	$3,242,546 in 2072
Annual Closure Cost Payment[3]	$44,831

Notes:

1. *See Appendix J – Closure Post-Closure Plan for per acre closure cost estimates.*
2. *Future closure costs = current closure costs x (1 + 0.017)^58 years.*
   Inflation Rate = 1.7%
3. *Annual closure costs calculated with the discount rate of 0.75%.*
   Annual closure costs = future closure costs x (0.0075)/((1+0.0075^58 years -1).
   Discount Rate = 0.75%

3.0 POST-CLOSURE COSTS ESTIMATE

The Closure/Post-Closure Plan in Appendix J provides an estimate of the annual post- closure care costs in 2014 dollars. The annual post-closure care cost was estimated to be $32,000. The post-closure care cost will be evaluated based on 144 years of total operating life remaining and 30-year post closure period. The amortization of the post closure fund will be discounted over the 30-year post-closure period as presented in Table 2. The post-closure portion of the financial assurance plan is approximately $4,263,000 with escalation and discount rate.

TABLE 2 POST-CLOSURE FUND AMORTIZATION

Pierre Regional Landfill	
Year Landfill Opened	2004
Current Year	2014
Remaining Site Life - Total	144 years
Final Closure Year	2157
Annual Post-Closure Cost (2014$)[1]	$32,000
Inflation Rate[2]	1.7%
Discount Rate[3]	0.75%

Notes:

1. *See Appendix J-Closure/Post-Closure Plan for post-closure cost estimates.*
2. *Inflation rate based on CPI-U for Midwest Region from first half 2012 to first half 2013.*
3. *Prime discount rate as provided by Federal Reserve Bank of Minneapolis.*

n	Year	Funds Required w/o Discount	Funds Required w/ Discount
1	2157	$362,549	$123,617
2	2158	$368,713	$124,783
3	2159	$374,981	$125,960
4	2160	$381,356	$127,147
5	2161	$387,839	$128,346
6	2162	$394,432	$129,556
7	2163	$401,137	$130,778
8	2164	$407,957	$132,011
9	2165	$414,892	$133,256
10	2166	$421,945	$134,512
11	2167	$429,118	$135,781
12	2168	$436,413	$137,061
13	2169	$443,832	$138,353
14	2170	$451,377	$139,658
15	2171	$459,051	$140,975
16	2172	$466,854	$142,304
17	2173	$474,791	$143,646
18	2174	$482,862	$145,001
19	2175	$491,071	$146,368
20	2176	$499,419	$147,748
21	2177	$507,909	$149,141
22	2178	$516,544	$150,547
23	2179	$525,325	$151,967
24	2180	$534,256	$153,400
25	2181	$543,338	$154,846
26	2182	$552,575	$156,306
27	2183	$561,969	$157,780
28	2184	$571,522	$159,268
29	2185	$581,238	$160,770
30	2186	$591,119	$162,286
Totals		**$14,036,382**	**$4,263,174**

4.0 ENVIRONMENTAL REMEDIATION COSTS ESTIMATE

The environmental remediation portion of the fund is based on the cost estimates provided in the updated operations contingency plan outlined in Appendix I - Operations Plan. The highest, probable, cost remedial action is for the installation of a landfill gas extraction system at an estimated 2014-dollar value of $320,300 plus a five-year operational cost of $40,000. At this time, the environmental remediation cost estimate is not included in the financial assurance. The SD-DENR may require that environmental remediation costs be included in the financial assurance fund.

5.0 CORRECTIVE ACTION COSTS ESTIMATE

At this time no corrective action has been identified for the Pierre Regional Landfill.

6.0 FINANCIAL ASSURANCE FUND

The total financial assurance fund required is the sum of the closure and post-closure totals. In 2014 dollars, the total fund required is $6,863,391. ARSD 74:27:16:05 indicates that a trust agreement may be used as a mechanism for financial assurance. The City of Pierre has set up a custodial trust agreement with Bank West in Pierre, South Dakota. Using the remaining 58-year pay-in-period for closure costs and the total remaining life of 144-year pay-in-period for post-closure costs and the adjustments for inflation and discount rate, the annual payment to the financial assurance fund is estimated in Table 3 below.

TABLE 3 FINANCIAL ASSURANCE ANNUAL PAY-IN

Pierre Regional Landfill	Funds Required w/ Discount Rate	Annual Pay-In Required
Closure Fund:	$2,600,218	$44,831
Post-Closure Fund:	$4,263,174	$29,605
Total Financial Assurance Fund:	**$6,863,391**	**$74,437**
Less,		
Restricted Funds (as of 12/31/2012)	$224,961	
Net Financial Assurance Fund Required:	**$6,638,430**	**$71,997**

Notes:

1. *See Appendix J – Closure Post-Closure Plan for closure and post-closure cost estimates.*

The City has setup a restricted account for financial assurance of Landfill closure and post-closure care liability. As of December 31, 2012, investments of $244,961 fair value were held for these purposes. The financial assurance plan will be reviewed annually and the annual payment adjusted if necessary.

APPENDIX M

CONSTRUCTION QUALITY ASSURANCE PLAN

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

PIERRE REGIONAL LANDFILL
CONSTRUCTION QUALITY ASSURANCE PLAN

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1.0 INTRODUCTION

As required by South Dakota Department of Environment and Natural Resources (SD-DENR) Administrative Rules 74:27:12:22, this manual describes the Construction Quality Assurance (CQA) procedures for the construction of the Pierre Regional Landfill (Regional Landfill) including landfill cells, final cover system, and leachate pond. The leachate pond and storm water sedimentation pond were constructed in 2003/2004. Landfill liner and leachate collection system for Cells #1 and #2 were constructed in 2003/2004 and 2009, respectively.

This manual addresses the engineering techniques that will be utilized in the field to obtain a "quality" product for "assurance" that the Regional Landfill meets or exceeds all the construction requirements set forth in the Administrative Rules of South Dakota, Title 74 (ARSD 74). At completion of the work, a certification report that documents the testing results for grading, liners, geotextiles, and piping systems, will be submitted to the SD-DENR.

2.0 RESPONSIBILITIES AND AUTHORITY

This section describes the responsibilities and authority of key personnel and organizations involved with facility construction.

2.1 City of Pierre, South Dakota

The City, as Owner of the site, will be responsible for complying with the requirements of the SD-DENR in order to obtain a permit and for assuring, by the submission of CQA documentation, that the facility was constructed as specified in the design. The City has the authority to select and dismiss organizations charged with design, CQA, and construction activities. The City also has the authority to accept or reject design plans and specifications, CQA Plans, reports, recommendations of the CQA officer, and the materials and workmanship of the Contractor. The City will be responsible for operation of the facility.

2.2 South Dakota Department of Environment and Natural Resources

SD-DENR will be responsible for review of this CQA Plan upon its submittal with the permit renewal application. SD-DENR will also be responsible for reviewing all CQA documentation during and after construction to ensure that the CQA Plan is being followed and that the facility is constructed as specified in the design.

2.3 Design Engineer

The City may contract with a third-party Engineer to assist with liner and final cover system designs, construction administration activities, and CQA.

2.4 CQA Personnel

The CQA officer for construction of the Regional Landfill will oversee CQA personnel and activities. CQA personnel will consist of designated employees and/or agents of the City. The overall responsibility of CQA personnel will be to perform activities specified in this CQA Plan.

CQA personnel will include a CQA officer and the necessary supporting inspection personnel. The specific responsibilities and authority of each of these individuals are defined below and in the specifications and documents for the facility design.

Responsibilities of the CQA officer will include:

- Review of liner or closure design criteria, plans, and specifications for clarity and completeness.
- Scheduling and coordinating CQA inspection activities.
- Directing and supporting the CQA inspection personnel in performing observations and tests by:
  - Submitting samples for analysis by the CQA inspection personnel and testing laboratories as specified in the plan.
  - Confirming that regular calibration of field testing equipment is properly conducted and recorded.
  - Confirming that the testing equipment, personnel, and procedures are consistent or making sure that any inconsistencies do not adversely impact the inspection process.
  - Confirming that the test data are accurately recorded and maintained.
- Providing reports on the inspection results, which will include:
  - Review and interpretation of all data sheets and reports.
  - Identification of work that should be accepted, rejected, or uncovered for observation or that may require special testing, inspection, or approval.
  - Rejection of defective work and verification that corrective measures are implemented.
- Reporting to the Contractor results of all observations and tests as the work progresses, interacting with the Contractor to provide assistance in modifying the materials, and working to comply with the specified design.

The supporting CQA inspection personnel will be employees or agents of the City with specific responsibilities, as follows:

- Observing construction activities.
- Performing independent on-site inspection of the work in progress to assess compliance with the design criteria, plans, and specifications.
- Calibrating field testing equipment.
- Verifying that the equipment used in testing meets the test requirements and that the tests are conducted according to the standardized procedures defined by the specifications.
- Reporting to the CQA officer results of all inspections.

2.5 Construction Contractor

The construction contractor (Contractor) will be responsible for construction of the liner, leachate collection and final cover systems in accordance with design criteria, plans, and specifications.

3.0 PERSONNEL QUALIFICATIONS

This section identifies the required qualifications of the CQA officer and the CQA inspection personnel and describes their expected duties.

3.1 CQA Officer

The CQA officer is responsible for all aspects of the CQA Plan implementation. The CQA officer will possess adequate training in civil engineering. The CQA officer will ensure that all CQA-related matters are conveyed to and acted upon by the affected organizations. The CQA officer will be a professional engineer registered in the State of South Dakota.

3.2 CQA Inspection Personnel

The CQA inspection personnel will possess sufficient practical, technical, and administrative experience to execute and record inspection activities. This will include knowledge of specific field practices relating to construction techniques used for liner and soil cover systems, observation and testing procedures, equipment, documentation procedures, and site safety.

3.3 Geologic Inspection Personnel

The Geologic Inspection Personnel will be a qualified third-party Professional Geologist or equivalent, experienced in the hydrogeology of glacial till. The Geologic Inspection Personnel will be onsite as necessary during the cell excavation to ensure that the in-situ clay soils are of the characteristics stated in the permit application and if necessary make recommendations for field adjustments.

3.4 Consultants

Authorities in engineering, geology, geotechnical engineering, civil engineering, and other technical disciplines may be called in from external organizations in the event that unusual site conditions or inspection results cannot be resolved by the City. Documentation of consultant qualifications will be taken when outside testing or technical judgments are used as a basis for decision in some aspect of construction quality assurance.

4.0 INSPECTIONS, SAMPLING AND TESTING

The following is an overview of CQA and CQC activities, by major physical components, to be undertaken before, during or after construction. Final construction plans and specifications may further delineate sampling strategies, including methods of determining sample locations, frequency of sampling, acceptance and rejection criteria, and methods of implementing corrective measures.

If CQA testing indicates that improper soils or construction methods were used, the defective material will either be: 1) removed and replaced; or 2) conditioned and reworked in place. The contractor will make all repairs required to correct deficiencies. CQA personnel will observe all repairs and perform additional testing to confirm suitable construction and conformance with project specification.

4.1 Liner Earthwork Construction

CQA testing on the landfill liner, drainage layer, and subgrade will be performed by a representative designated by the City of Pierre for the Pierre Regional Landfill. The testing will consist of observation of the work, field and laboratory testing, and surveying. All testing will be conducted on samples obtained from the site or from representative samples of off-site materials utilized in construction.

A. OBSERVATION OF THE WORK

Observation of the liner earthwork construction is necessary to document that the construction procedures utilized by the contractor meet the requirements of the project specifications. These requirements will include observation and documentation of:

- clay liner placement and lift thickness
- clay liner compaction
- drainage layer placement and thickness
- protective soil cover material placement and thickness
- subgrade preparation

B. LABORATORY AND FIELD TESTING

The representative or agent of the City for CQA of the Pierre Regional Landfill will conduct field and laboratory tests prior to and during the construction of the landfill cells, leachate pond, and sedimentation pond to document the construction of these portions of work to ensure compliance with the project specifications and ARSD 74. Construction of the sedimentation pond and leachate pond were completed in 2004.

Table 1 identifies the following laboratory tests to be utilized to determine material acceptability.

TABLE 1 – LABORATORY TESTS

Parameter	Method	ASTM#
Compaction (Moisture/Density Relationship)	Standard Proctor Test	D698
Liquid Limit, Plastic Limit, Plasticity Index	Atterberg Limits	D4318
Particle Size Distribution	Sieve and/or Hydrometer Analysis	D422 D1140
Permeability	Flexible Wall Falling Head Permeability Test	D5084
	Rigid Wall Constant Head Permeability Test	D2434-68

Table 2 identifies the following tests to be performed in the field during and after construction to determine acceptability.

TABLE 2 – FIELD TESTS

Parameter	Method	ASTM#
Field Moisture/Density Determination	Nuclear Methods	D6938
	Sand Cone Method	D1556
	Rubber Balloon Method	D2167
Permeability	Thin-Walled Tube Sampling	D1587

Nuclear methods of testing for permeability (ASTM D6938) are preferred due to the ease of testing and the short amount of time required for each test. Nuclear testing machines will be calibrated prior to testing in the field, and any questions of accuracy will be addressed by repeating the test in the same location or with another test method. An in-place permeability test is usually conducted on a test pad constructed with the same techniques, however, a representative number of thin walled samples tested in the laboratory usually provide better overall construction results and is the preferred method.

The quality assurance testing for the landfill is presented in Table 3 for the various components of the project. All sampling locations will be selected by the representative of the City in accordance with the frequency provided in Table 3. Locations of all tests will be recorded for the Quality Assurance Report. Sampling frequency may be increased at the discretion of the representative of the City when visual observations indicate a suspected problem.

TABLE 3 – LINER SYSTEM SOILS CONSTRUCTION TESTING FREQUENCY

Test	Clay Liner	Drainage Layer	Coarse Aggregate Aggregate
Permeability	One Undisturbed Test per Acre of Liner	One Remolded Lab Test per acre of Material Placed	N/A
Grain Size Distribution	One Representative Sample Per Acre of Liner Placed	Four Representative Sample to the #200 Sieve per acre of Material Placed	One Representative Sample Per 500 LF of Trench
Dry Density & Moisture Content	Testing on 200 Ft Grid Pattern on Each Lift of Clay Liner Placed	N/A	N/A
Atterberg Limits	One Representative Sample Per 7000 CuYds of Liner Placed	N/A	N/A
Standard Proctor	One Representative Sample Per 3500 CuYds of Liner Placed	N/A	N/A

Additional testing may be required for the following:

- lift thickness greater than specified
- soil is at improper moisture content or mixing of water and soil is variable
- insufficient compaction on layers is provided
- material significantly changes
- clogged teeth in sheeps-foot compactor
- during adverse weather
- if materials fail to meet project specifications

The soils testing for embankments and excavations other than components for the liner will be tested on a frequency that will be determined in the field. Standard proctor densities will be completed on samples in frequency that corresponds to visual material changes. Nuclear moisture/densities will be taken during compaction of embankments and subgrades to ensure proper compaction and moisture contents. Densities will be taken on a minimum 100-foot grid interval for embankment and subgrade construction on each lift of material placed. All pipe bedding, road surfacing, and engineered fill materials will be tested for grain size distribution, standard proctor densities, and in-place densities on representative samples of each material and in frequency as needed to ensure uniform placement and compliance with the project specifications.

Perforations in the liner and embankments will occur during the construction due to testing. This includes testing for permeability with thin walled tubes, nuclear density probes, or probe for checking lift thickness. All perforations will hand tamped and filled with clay liner material or with a soil/bentonite mixture.

C. SURVEY OF EARTHWORK

The survey of various locations within the project will ensure proper liner and cover placement and depths. The major components of the survey will include the following:

- surface elevations and grades of the subgrade (or in-situ liner floor grades)
- surface elevations and grades of the clay liner, if required
- surface elevations of drainage layers
- surface elevations and grades of drainage channels
- invert elevations of drainage structures

Cut and fill staking for the grades and elevations required will be conducted in 50 foot grid intervals and at all break points or more frequently if required by the contractor. All quality assurance survey work will be performed by a qualified representative of the City of Pierre.

4.2 Leachate Collection Piping

The leachate collection piping is an important component of the landfill construction. The purpose of the quality assurance program for the leachate collection system is to identify the material to be placed, ensure placement at proper grades and elevations, and observe the placement of piping materials.

The designated representative or agent of the City will identify all piping components to ensure compliance with the project specifications. Documentation of all materials will be obtained for

the report. The grades and elevations of all piping and piping structures will be surveyed in the field to ensure proper placement and for preparation of as-constructed drawings. Visual observation of the placement and density testing of backfill materials will ensure compliance with the project specifications.

4.3 Final Cover System

CQA testing on the landfill final cover system will be performed by a representative designated by the City of Pierre for the Pierre Regional Landfill. The testing will consist of observation of the work, field and laboratory testing, and surveying. All testing will be conducted on samples obtained from the site or from representative samples of off-site materials utilized in construction.

The overall properties of the final cover system, relative to QC, CQC, and CQA are essentially the same as those provided for the soil liner and leachate collection system with the following variations:

- An intermediate cover/buffer layer will serve as the foundation for the clay soil layer (i.e. infiltration layer or soil barrier layer). Compaction requirements will be based on visual confirmation of firm foundation for the infiltration layer (by CQA and CQC personnel) rather than specific density requirements.
- Piping and vertical pipe penetrations will occur through the final soil cover for passive gas venting.
- The recompacted clay, infiltration layer will be tested or otherwise demonstrated to have a hydraulic conductivity of 1x10-7 cm/sec or less for the conventional clay cover system. Quality control for this infiltration layer will be similar to the method described above for clay liner.
- Only soil (or conditioned soil) able to support vegetation will be used in the Topsoil Layer.

A. OBSERVATION OF THE WORK

Observation of the final cover system will include:

- Subgrade preparation, intermediate cover/soil buffer layer placement and thickness
- Clay cap placement, compaction and lift thickness
- Topsoil layer placement and thickness

Visual observation of the Topsoil Layer will aid in precluding soils that are unsuitable for supporting vegetation.

B. LABORATORY AND FIELD TESTING

Quality control testing will be performed on soil materials used in construction of the final cover system. Source testing will be conducted by the contractor to define material properties that govern material suitability and placement. These material properties tests will typically include Atterberg limits, standard proctor, and permeability for clay soils, and agricultural properties for topsoil (e.g., pH and nutrient levels). Samples will be collected on a random basis within a delineated sampling location. Source testing will be identified in the specifications for the contractor to complete.

Quality assurance testing for clay infiltration layer includes the same testing requirements as specified in Table 3 above for clay liner. Visual observation will be used to supplement compliance testing. Acceptance of an area will be based on testing, establishing a suitable thickness and vegetative growth environment.

C. SURVEY OF FINAL COVER SYSTEM

The survey of the final cover system will ensure proper cover soil placement and depths. The major components of the survey will include the following:

- surface elevations and grades of the intermediate cover/buffer layer
- surface elevations and grades of the clay infiltration layer
- surface elevations and grades of the topsoil layer
- locations of passive gas vents

All quality assurance surveying for the final cover grades and elevations will be conducted in 100-foot grid intervals and at all break points. Survey work will be performed by a qualified representative of the City of Pierre.

5.0 QUALITY ASSURANCE REPORT AND RECORD DRAWINGS

The quality assurance report is a summary of all field-testing and observations during the construction of the major components of the Pierre Regional Landfill. The report will contain a discussion of the construction procedures along with a listing of the key personnel involved in the construction. The report will also include tabulated results from field and laboratory testing along with the locations of areas tested.

The report will include drawings of construction record which will provide as-constructed grades and elevations of the clay liner (in-situ floor grades) and drainage layer, access roads, drainage ditches, drainage structures, piping invert elevations, piping structure elevations, final cover layers and passive gas vent locations, and material quantities.

The report will be certified by a Professional Engineer Registered in the State of South Dakota.

APPENDIX N

SOURCE REDUCTION PLAN 2012 UPDATE

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

Update to Solid Waste Source Reduction & Recycling Plan

(Original Plan on January 1, 1994 - Updates on June 2002, February 2004, October 2007, November 2008, June 2009, July 2010)

Prepared by the City of Pierre – Solid Waste Department

October 25, 2012 and Updated January 2013

Part III – Assessing Current Waste Management

Tonnage - It was projected in the plan that the City of Pierre Landfill would accept 17,066 tons of solid waste annually in 1993. In 2003, 10 years later, the landfill accepted 19,279 tons of municipal solid waste. Table 1 below shows the annual tonnages that were accepted at the landfill(s) from 1993 through 2009. Many of the small communities have Restricted Use Facilities to handle their construction/demolition debris, metal, trees & yard waste.

Currently approximately 61 - 63% of the solid waste that goes to the landfill is from Hughes & Stanley County. The southern and western communities (Phillip, Midland, Wall and Martin areas) stopped binging waste to the Pierre landfill in May 2004. The City of Huron started bringing their baled solid waste to the landfill in January 2005, this increased the tonnage. Garbage from the City of Phillip returned to the landfill in June 2010 when a private hauler obtained the bid for collecting their waste.

Table 1 - History of Waste at the Current Landfills

Includes waste at all facilities combined

Year	MSW	Other Wastes at Regional Landfill	Rubble [1]	Other Wastes	Recycled[6]	Total Tonnage Accepted
1993	13,626			4,507	296	18,429
1994	18,000			9,966	946	28,912
1995	18,717			12,784	1,136	32,637
1996	19,378			17,050	680	37,107
1997	22,120		1,659	10,806	1,026	35,611
1998	19,403		2,980	5,681	932	28,996
1999	19,037		3,764	11,224	308	34,332
2000	18,786		2,090	8,521	1,410	30,807
2001	19,279		3,033	9,986	592	32,890
2002	19,941		10,312[2]	7,106	7,863	45,222
2003[3]	20,459		4,483	8,912	1,356	35,210
2004	18,551		3,660	11,791	960	34,002
2005	23,106[4]		3,982	12,098	520	39,186
2006	22,992		3,358	9,581	9,319[5]	35,931
2007	22,485		3,049	12,810	1,226	38,344
2008	22,382	777	4,733	6,109	597	34,001
2009	22,618		4,599	17,971	812	45,188
2010	24,022		4,111	18,544	2,330	46,677
2011	25,528		2,208[7]	12,364	1,890	40,100
2012	23,960	2,632	2,349	5,900	10,918	34,841

[1] Separate rubble area was started July, 1997

[2] 5,630 tons attributed to fire debris

[3] Regional Landfill started accepting solid waste December 12, 2003 (751.42 ton)

[4] Started taking Huron's baled waste

[5] 2,950 ton compost used for closure, Started tracking millings out in 2006

[6] Electronic Recycling began in 2010, not included in Total Tonnage Accepted as an item count

[7] No rubble pit until December 2011 and opened at regional landfill, rubble dumped in with MSW

Definitions

MSW - Household garbage & other debris dumped in lined area of landfill

Rubble - Construction, demolition debris dumped in non lined area of landfill

Other Waste - metal, asbestos, contaminated soil, yard waste, trees, asphalt, concrete

Recycled - items recycled out of the landfill (trees, compost, metal, asphalt, concrete)

Population - The 1993 figures were based on a population of 21,434 people. The current population using the Pierre Regional Landfill is approximately 39,502. The service area has increased along with increases to some of the communities using the landfill. Table 2 below is an update of the current users of the landfill.

Table 2 - Population Using Pierre Landfill

County/Communities	1990 Population	2000 Population	2010 Population
Hughes (Pierre, Blunt, Harrold)	14,817	16,481	17,022
Stanley (Ft. Pierre)	2,453	2,772	2,815
Sully (Onida, Agar)	1,589	1,556	1,375
Hyde (Highmore)	1,696	1,671	1,394
Hand (Miller, St. Lawrence, Polo, Ree Heights)	4,272	3,741	3,423
Huron		11,893	12,706
Phillip			767
Total Population Served	**34,593**	**38,114**	**39,502**

Recycling - There is a private recycling facility located in Pierre – Waste Connections dba Envirotech Waste Services. The city has a recycling agreement with Envirotech Waste Services to accept recyclable materials from bins that the City has in several areas of the city. The bins are voluntary and there is not organized collection program for recycled materials. Items accepted in the bins includes: mixed paper, newspaper, magazines, cardboard, steel cans, #1 & #2 plastic containers and aluminum. Envirotech Waste Services also collects paper and corrugated cardboard from the state agencies and local businesses located in Pierre. Some of the communities that use the Pierre Landfill also do some recycling on their own.

Source Reduction – Annual Source Reduction reports are maintained each year to track the recycling/reduction goals of the state.

Part IV – Projecting Future Waste Management

The projected figures in the 1994 plan were a little low for 1996 & 2001. There are more communities using the Pierre Landfill now than there was in 1994. Those added include Martin and White River along with some of those rural areas. The Landfill opened a separate disposal area for the construction and demolition debris in June 1997.

The City of Pierre sited a new regional landfill which began operation in December 2003 to take care of the disposal needs for the current customers. The new landfill has a projected life of approximately 240 years at the current tonnage. Therefore, this landfill is capable of handling some increases in tonnage. Cell #2 was constructed in the summer of 2009.

The MSW disposal area at the Landfill on the east side of town has been closed as per regulations and other operational areas remain open under the operations of a Rubble Landfill for construction & demolition debris, yard waste, trees, metal & white goods, asphalt and concrete. Once the construction & demolition debris disposal area is filled to capacity then those items would go to the new regional landfill. There was an estimated 10 years of life for the construction & demolition debris disposal area left at the Rubble Landfill.

There was a fire at the rubble landfill in the debris disposal area that forced an early closure of that area in December 2010. Since this was an emergency, unplanned closure the construction & demolition debris was diverted to Cell #2 along with the subtitle D waste. Plans and construction of a C&D pit were worked on and the pit was construction and became operational in December 2011.

Impacts from the Missouri River Flood in 2011 resulted in a spike in MSW. 1,753 ton of debris was contributed to the increased river levels over a 3 month period in the summer.

Plans for construction of Cell #3 are set for 2015. Annual fill progression surveys are completed to track the fill volume. The rubble pit will also be added in the 2012 survey.

2009 SOURCE REDUCTION EFFORTS

updated: February 3, 2010

The information in this document has been put together to satisfy SDCL §§ 34A-6-60 and 34A-6-76. The figures show that the City of Pierre and its service area had met the goal of 25% reduction for July 1, 1996, and have increased the percentage of waste diverted each year. The 2001 goal of 50% has not yet been met but efforts continue to meet that goal.

Table 1	
Diverted/Recycled/Reused	
Waste Type	**Tonnage**
Yard Waste[1]	4,384.10
White Goods[1]	992.93
Trees[1]	2,332.89
Tires[1]	416.20
Recycling[1]	5,272.00
TOTAL	**13,398.12**

[1]The breakout for these figures are noted in Table 2

2009 Municipal Solid Waste	**23,192.96**
2009 Waste disposal reduced	**13,398.12**
diverted/recycled/reused for 2009	**36.6%**

Breakout of Tonnage Diverted from Landfill

Table 2						
CITY	**Population** (2000-Census)	**Yard Waste**	**White Goods**	**Trees**	**Tires**	**Other Recycling**
Ft. Pierre/Stanley Co.	2,815	*This information included with Pierre tonnage*				
Blunt	349	35.8	3.6	35.8	3.6	0
Harrold	200	20.5	2.1	20.5	2.1	0
Highmore	714	77.7	7.8	77.7	7.8	0
Hyde County	774	77.4	7.7	77.4	77.4	0
Huron	11,030	1,863.59	224.33	287.82	118.9	2,200
Kadoka	635	67.7	6.8	67.7	6.8	7
Miller/Hand Co.	3,741	332.3	33.2	332.3	33.2	25
Onida/Agar	689	73.9	7.4	73.9	7.4	40
Pierre/Hughes Co.	16,546	1,835.21	700	1359.77	159	3,000
TOTAL	**37,493**	**4,384.10**	**992.93**	**2,332.89**	**416.20**	**5,272.00**

Some of the tonnages above were obtained by telephone and some are estimates based on recovery rates based on population. The percentages of waste material used were obtained from the Recovery Rates - Minimum Participation from the SD Statewide Comprehensive Solid Waste Management Plan (January 1991) {yard waste 10%, Metal 1%}. Tire estimate based on one tire/person @ 20 lbs/tire.

2010 SOURCE REDUCTION EFFORTS

updated: December 15, 2011

The information in this document has been put together to satisfy SDCL §§ 34A-6-60 and 34A-6-76. The figures show that the City of Pierre and its service area had met the goal of 25% reduction for July 1, 1996, and have increased the percentage of waste diverted each year. The 2001 goal of 50% has not yet been met but efforts continue to meet that goal.

Table 1	
Diverted/Recycled/Reused	
Waste Type	**Tonnage**
Yard Waste[1]	4,237.54
White Goods[1]	992.93
Trees[1]	2,105.30
Tires[1]	416.20
Recycling[1]	5,372.00
TOTAL	**13,123.97**

[1]The breakout for these figures are noted in Table 2

2010 Municipal Solid Waste	**24,021.71**
2010 Waste disposal reduced	**13,123.97**
diverted/recycled/reused for 2010	**35.3%**

Breakout of Tonnage Diverted from Landfill

Table 2						
CITY	**Population** (2000-Census)	**Yard Waste**	**White Goods**	**Trees**	**Tires**	**Other Recycling**
Ft. Pierre/Stanley Co.	2,815	This information included with Pierre tonnage				
Blunt	349	35.8	3.6	35.8	3.6	0
Harrold	200	20.5	2.1	20.5	2.1	0
Highmore	714	77.7	7.8	77.7	7.8	0
Hyde County	774	77.4	7.7	77.4	77.4	0
Huron	11,030	1,863.59	224.33	287.82	118.9	2,200
Kadoka	635	67.7	6.8	67.7	6.8	7
Miller/Hand Co.	3,741	332.3	33.2	332.3	33.2	25
Onida/Agar	689	73.9	7.4	73.9	7.4	40
Pierre/Hughes Co.	16,546	1,688.65	700	1132.18	159	3,100
TOTAL	**37,493**	**4,237.54**	**992.93**	**2,105.30**	**416.20**	**5,372.00**

Some of the tonnages above were obtained by telephone and some are estimates based on recovery rates based on population. The percentages of waste material used were obtained from the Recovery Rates - Minimum Participation from the SD Statewide Comprehensive Solid Waste Management Plan (January 1991) {yard waste 10%, Metal 1%}. Tire estimate based on one tire/person @ 20 lbs/tire.

2011 SOURCE REDUCTION EFFORTS

updated: October 25, 2012

The information in this document has been put together to satisfy SDCL §§ 34A-6-60 and 34A-6-76. The figures show that the City of Pierre and its service area had met the goal of 25% reduction for July 1, 1996, and have increased the percentage of waste diverted each year. The 2001 goal of 50% has not yet been met but efforts continue to meet that goal.

A fire at the rubble pit in December 2010 resulted with the construction debris for 2011 to be disposed in the Subtitle D cell. There was also a 2011 Missouri River flood that generated an additional 1,750 ton of debris from that incident.

Table 1	
Diverted/Recycled/Reused	
Waste Type	**Tonnage**
Yard Waste[1]	3,842.27
White Goods[1]	1,000.63
Trees[1]	2,367.08
Tires[1]	423.90
Recycling[1]	5,412.00
TOTAL	**13,045.88**

[1]The breakout for these figures are noted in Table 2

2011 Municipal Solid Waste	**25,563.90**
2011 Waste disposal reduced	**13,045.88**
diverted/recycled/reused for 2011	**33.8%**

Breakout of Tonnage Diverted from Landfill

Table 2						
CITY	**Population** (2000-Census)	**Yard Waste**	**White Goods**	**Trees**	**Tires**	**Other Recycling**
Ft. Pierre/Stanley Co.	2,815	This information included with Pierre tonnage				
Blunt	359	35.8	3.6	35.8	3.6	0
Harrold	126	20.5	2.1	20.5	2.1	0
Highmore	782	77.7	7.8	77.7	7.8	0
Hyde County	1394	77.4	7.7	77.4	77.4	0
Huron	12,706	1,863.59	224.33	287.82	118.9	2,200
Kadoka	682	67.7	6.8	67.7	6.8	7
Miller/Hand Co.	3,423	332.3	33.2	332.3	33.2	25
Onida/Agar	735	73.9	7.4	73.9	7.4	40
Phillip	767	76.7	7.7	76.7	7.7	40
Pierre/Hughes Co.	17,022	1,216.68	700	1317.26	159	3,100
TOTAL	**40,811**	**3,842.27**	**1,000.63**	**2,367.08**	**423.90**	**5,412.00**

Some of the tonnages above were obtained by telephone and some are estimates based on recovery rates based on population. The percentages of waste material used were obtained from the Recovery Rates - Minimum Participation from the SD Statewide Comprehensive Solid Waste Management Plan (January 1991) {yard waste 10%, Metal 1%}. Tire estimate based on one tire/person @ 20 lbs/tire.

2012 SOURCE REDUCTION EFFORTS

updated: January 30, 2013

The information in this document has been put together to satisfy SDCL §§ 34A-6-60 and 34A-6-76. The figures show that the City of Pierre and its service area had met the goal of 25% reduction for July 1, 1996, and have increased the percentage of waste diverted each year. The 2001 goal of 50% has not yet been met but efforts continue to meet that goal.

Table 1	
Diverted/Recycled/Reused	
Waste Type	**Tonnage**
Yard Waste[1]	7,794.59
White Goods[1]	1,000.63
Trees[1]	3,251.72
Tires[1]	408.50
Recycling[1]	5,412.00
TOTAL	**17,867.44**

[1]The breakout for these figures are noted in Table 2

2012 Municipal Solid Waste	**23,960.20**
2012 Waste disposal reduced	**17,867.44**
diverted/recycled/reused for 2012	**42.7%**

Breakout of Tonnage Diverted from Landfill

Table 2						
CITY	**Population** (2000-Census)	**Yard Waste**	**White Goods**	**Trees**	**Tires**	**Other Recycling**
Ft. Pierre/Stanley Co.	2,815	This information included with Pierre tonnage				
Blunt	359	35.8	3.6	35.8	3.6	0
Harrold	126	20.5	2.1	20.5	1.3	0
Highmore	782	77.7	7.8	77.7	7.8	0
Hyde County	1394	77.4	7.7	77.4	13.9	0
Huron	12,706	4,096.00	224.33	559.82	127.1	2,200
Kadoka	682	67.7	6.8	67.7	6.8	7
Miller/Hand Co.	3,423	332.3	33.2	332.3	34.2	25
Onida/Agar	735	73.9	7.4	73.9	7.4	40
Phillip	767	76.7	7.7	76.7	7.7	40
Pierre/Hughes Co.	17,022	2,936.59	700	1929.9	198.7	3,100
TOTAL	**40,811**	**7,794.59**	**1,000.63**	**3,251.72**	**408.50**	**5,412.00**

Some of the tonnages above were obtained by telephone and some are estimates based on recovery rates based on population. The percentages of waste material used were obtained from the Recovery Rates - Minimum Participation from the SD Statewide Comprehensive Solid Waste Management Plan (January 1991) {yard waste 10%, Metal 1%}. Tire estimate based on one tire/person @ 20 lbs/tire.

APPENDIX O

HELP MODELING
(SUPPLEMENTS APPENDIX F AND H OF PHASE II PERMIT APPLICATION)

PIERRE REGIONAL LANDFILL
PIERRE, SOUTH DAKOTA

REVISED: DECEMBER 2013

HDR | ONE COMPANY *Many Solutions*℠

Memo

To: Matt Evans, PE	
From: Joel Miller	Project: Pierre Landfill
Date: December 2013	Job No:

RE: Hydrologic Evaluation of Landfill Performance (HELP) Model Version 3.07
Basis of Design
Pierre Regional Landfill Renewal Permitting

Introduction

This basis of design memo presents the background data and results for the HELP water balance model for the proposed design at the Pierre Regional Landfill. The HELP model is used to determine the performance of the future leachate collection and liner system.

Pursuant to permitting of the lateral expansion, HELP modeling has been performed to analyze the performance of the proposed leachate collection system for future Cells 3 – 14, and to determine the required leachate collection system pipe capacity during peak leachate flow.

In order to build a conservative design model, two scenarios are analyzed:

- Scenario Pier-ful models the leachate collection system in Cells 7 - 8 (11.7 acres) with 115' of total waste in place after 25 years.
- Scenario Pier-cel models the leachate collection system in a future newly-opened waste cell with an average size of 6.13 acres and 15' of waste in place.

Both of these scenarios model a 25 year period - the longest time period in which the waste mass may be exposed to precipitation, and the maximum amount of time that allows for incidence of statistically significant precipitation events to generate a "peak day" leachate volume. In addition, precipitation data was synthetically generated by the HELP model using coefficients for Huron, South Dakota (the closest available data). This results in a more conservative model, since Huron receives higher average annual precipitation than the City of Pierre.

Proposed Leachate Collection System

Future Cells 3 - 14 will have a leachate collection system that will receive leachate from the waste in these future trenches. Based on detailed design information, the following waste column layers have been modeled (from top to bottom):

1. 6-inches of daily/interim cover using on-site soil
2. 115 feet (or 15 feet) of baled MSW waste
3. 12-inches of sand drainage layer
4. 24-inches of compacted clay liner

This waste column is modeled as a conservative, representative column of waste consistent with waste placement in Cells 7 – 8. The following paragraphs describe the material properties and landfill geometry used for the leachate collection system modeling.

Layer 1 – Daily/Interim Cover
Daily/Interim cover is assumed at 6-inches thick and to be sourced from on-site material. Soil texture 15 (clay) is chosen based on soil data provided by the Hydrogeologic Assessment report[1] characterizing on-site soils as clay-rich glacial till.

Layer 2 – MSW Waste
The majority of MSW waste received at the Landfill is baled on-site prior to landfilling. Therefore, soil texture 19 is chosen based on HELP guidance documentation to model the "channelizing" of liquids between the bales and the limited field capacity of baled waste.

Layer 3 – Drainage Layer
The lateral drainage layer is modeled as sand with a hydraulic conductivity of 1.0×10^{-3} cm/sec. This hydraulic conductivity is slightly more conservative than the HELP model's default value (5.8×10^{-3} cm/sec). This value most closely represents the sand material used previously on site.

Layer 4 – Compacted Clay Liner Layer
As permitted, the clay liner at the base of the future cells will consist of in-situ soil as liner. Where fill is required it must be 24-inches of compacted clay. In the Hydrogeologic Assessment report cited above, this clay can meet or exceed the required 1.0×10^{-7} cm/sec hydraulic conductivity.

Drainage Length and Slope
The design slopes at the base of Cells 7 - 8 are modeled at 3%. This is the gradient of the resulting slope of the flow path of the leachate at the base cells, which is perpendicular to the contours. The maximum flow path modeled is for leachate to travel perpendicular to the base contours from the interior toe of slope to the point at which the leachate will enter an interceptor gravel/pipe trench for conveyance to the sump. The longest flow path across the base floor (i.e. the "worst case" scenario) is a drainage length of 150 feet.

Lift Thickness and Scenario Length of Time
The HELP model requires the user to specify the number of simulation years for each scenario. This is calculated using the waste thickness and a cell life estimate based on the design expansion plans. The greatest waste thickness over Cells 3 – 14 is approximately 115 feet when Cells 7 – 8 are filled by piggybacking Cells 5 - 6. This will occur over approximately 25 years of waste placement. Note that this is for modeling purposes and actual waste thicknesses and fill placement timing will vary. The second scenario is a newly opened cell with first lift of baled waste at approximately 15 feet. These are "representative" columns of waste that models situations over time that are likely to have the greatest leachate generation (most conservative models).

Initial Moisture Content
Initial moisture content for all layers was calculated utilizing the default moisture content calculation in the HELP model.

Leachate Disposal
All scenarios account for 100% of leachate collected to be disposed of in on-site leachate pond(s) for evaporation. This is modeled as 0% leachate re-circulation and is consistent with practice at the site and South Dakota leachate disposal regulations.

Runoff Area
The HELP model requires an estimate of the area that will allow runoff of stormwater. This is assumed at 75% of the modeled area. Extrapolating this assumption into actual practice will require that 75% of the

[1] "Hydrogeologic Assessment, Proposed Pierre Regional Landfill." Oct 2001. Leggette, Brashears & Graham, Inc.

future cell areas be allowed to actively manage stormwater runoff while below the final grade. This can be accomplished by the use of berms and other strategies. This means that at any one time, the site can operate with an "open face" of approximately 25% of the surface area of the whole trench. For a representative cell size of approximately 6.13 acres, this equates to a maximum "open face" area of no runoff of approximately 1.5 acres.

HELP Model Scenarios and Input Data

The primary goal of the HELP modeling is to demonstrate that the proposed leachate collection system will be able to keep the maximum hydraulic head on the landfill liner below the regulatory limit of 12 inches (30 centimeters) in accordance with SDCL 74:27:13:24. The second aim of modeling is to demonstrate the hydraulic head does not exceed the thickness of the leachate collection/drainage layer. The third aim of the modeling is to estimate future leachate production for sizing the future leachate conveyance systems and to provide adequate storage for leachate.

The following HELP model scenarios have been utilized to characterize the proposed leachate collection system for future cells:

- Scenario Pier-ful models the leachate collection system in Cells 7 - 8 (11.7 acres) with 115' of total waste in place after 25 years.
- Scenario Pier-cel models the leachate collection system in a future newly-opened waste cell with an average size of 6.13 acres and only 15' of waste in place.

Temperature, solar radiation and evapotranspiration data were synthetically generated by the HELP model using coefficients for Huron, South Dakota. The evaporative zone depth was set at 8 inches for daily cover per HELP model guidance. Maximum leaf area index was set at the default of 1.0 for the interim cover scenarios (poor/minimal vegetation). Precipitation was synthetically generated by the HELP model from data for Huron, South Dakota.

Model Output and Regulatory Compliance

The table provided in Attachment 1 summarizes the model input data and results. The model run output file is presented in Attachment 2. The following table summarizes the peak daily model results.

Scenario	Maximum Head on Liner (in.)
Pier-ful	10.475
Pier-cel	10.447

As shown on the table, the HELP model demonstrates that the proposed design for Cells 3 - 14 will allow for continued compliance with applicable solid waste regulations regarding leachate collection systems. More specifically, peak daily maximum head on the base liner is less than 12 inches in both scenarios, as allowed by regulation. The peak head on the liner is 10.475 inches, less than the thickness of the lateral drainage layer at full loading on a peak day.

Pipe Sizing Calculation

The HELP model calculations are also used in pipe capacity calculations for future leachate collection systems. The peak daily volume is used to check that the pipe has sufficient capacity to carry the peak daily flow. The result is that the maximum peak daily volume is 346 cubic feet of leachate (Pier-ful scenario) that needs to be managed by the leachate collection system. The peak daily values are noted on the attached HELP model output file. Attachment 3 provides pipe capacity calculations.

ATTACHMENT 1
HELP MODEL INPUT AND RESULTS

Attachment 1
HELP Model Results
Pierre Landfill - Permit Renewal

Input Data	Scenario	Scenario
Parameter	**Pier-Ful**	**Pier-Cel**
SCS runoff curve number	96.6	96.6
fraction of area allowing runoff (%)	75	75
area simulated (acres)	11.7	6.13
evaporative zone depth (inches)	8	8
leaf area index	1	1
waste layer thickness (feet) - average	115	15
waste k (cm/sec) (effective - baled waste)	1x10^-3	1x10^-3
drainage layer thickness (inches)	12	12
drainage layer k (cm/sec)	1.0x10^-3	1.0x10^-3
liner base thickness (inches)	24	24
liner base k (cm/sec) (regulatory minimum)	1x10^-7	1x10^-7
drainage layer slope (%)	3	3
drainage length (feet)	150	150
recirculation? (amount recirculated)	N-0%	N-0%
number of years simulated	25	25

Output Data		
average annual leachate from drainage layer (ft^3)	35,867	18,797
average annual head on primary base liner (inches)	2.035	2.036
maximum peak day head on primary base liner (inches)	10.475	10.447

ATTACHMENT 2
HELP MODEL OUTPUT FILE

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 **
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**
 **                HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
**
 **                  HELP MODEL VERSION 3.07  (1 NOVEMBER 1997)
**
 **                    DEVELOPED BY ENVIRONMENTAL LABORATORY
**
 **                      USAE WATERWAYS EXPERIMENT STATION
**
 **               FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
**
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 PRECIPITATION DATA FILE:     u:\PIER-25.D4
 TEMPERATURE DATA FILE:       u:\PIER-25.D7
 SOLAR RADIATION DATA FILE:   U:\PIER-25.D13
 EVAPOTRANSPIRATION DATA:     U:\PIER-25.D11
 SOIL AND DESIGN DATA FILE:   U:\PIER-CEL.D10
 OUTPUT DATA FILE:            U:\PIER-CEL.OUT


 TIME:  20:45     DATE:  12/29/2013



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      TITLE:  Pierre
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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
              COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                LAYER  1
                                --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER  15
       THICKNESS                    =      6.00   INCHES
       POROSITY                     =      0.4750 VOL/VOL
       FIELD CAPACITY               =      0.3780 VOL/VOL
       WILTING POINT                =      0.2650 VOL/VOL
       INITIAL SOIL WATER CONTENT   =      0.2902 VOL/VOL
       EFFECTIVE SAT. HYD. COND.    =  0.170000003000E-04 CM/SEC
     NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  1.80
              FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.


                                LAYER  2
                                --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER  19
       THICKNESS                    =    180.00   INCHES
       POROSITY                     =      0.1680 VOL/VOL
       FIELD CAPACITY               =      0.0730 VOL/VOL
       WILTING POINT                =      0.0190 VOL/VOL
       INITIAL SOIL WATER CONTENT   =      0.0730 VOL/VOL
       EFFECTIVE SAT. HYD. COND.    =  0.100000005000E-02 CM/SEC


                                LAYER  3
                                --------

                TYPE 2 - LATERAL DRAINAGE LAYER
                     MATERIAL TEXTURE NUMBER   5
       THICKNESS                    =     12.00   INCHES
       POROSITY                     =      0.4570 VOL/VOL
       FIELD CAPACITY               =      0.1310 VOL/VOL
       WILTING POINT                =      0.0580 VOL/VOL
       INITIAL SOIL WATER CONTENT   =      0.1310 VOL/VOL
       EFFECTIVE SAT. HYD. COND.    =  0.100000005000E-02 CM/SEC
```

SLOPE	=	3.00	PERCENT
DRAINAGE LENGTH	=	150.0	FEET

LAYER 4

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16

THICKNESS	=	24.00	INCHES
POROSITY	=	0.4270	VOL/VOL
FIELD CAPACITY	=	0.4180	VOL/VOL
WILTING POINT	=	0.3670	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4270	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000001000E-06	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE #15 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 3.% AND A SLOPE LENGTH OF 300. FEET.

SCS RUNOFF CURVE NUMBER	=	96.60	
FRACTION OF AREA ALLOWING RUNOFF	=	75.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	6.130	ACRES
EVAPORATIVE ZONE DEPTH	=	8.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	1.879	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	3.186	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	1.628	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	26.693	INCHES
TOTAL INITIAL WATER	=	26.693	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
HURON SOUTH DAKOTA

STATION LATITUDE	=	44.23	DEGREES
MAXIMUM LEAF AREA INDEX	=	1.00	
START OF GROWING SEASON (JULIAN DATE)	=	124	

END OF GROWING SEASON (JULIAN DATE) = 278
EVAPORATIVE ZONE DEPTH = 8.0 INCHES
AVERAGE ANNUAL WIND SPEED = 11.70 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 73.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 68.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 66.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 72.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR HURON SOUTH DAKOTA

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.42	0.77	1.22	1.99	2.72	3.31
2.26	2.01	1.36	1.39	0.69	0.52

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR HURON SOUTH DAKOTA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
11.20	18.10	29.40	45.60	57.30	67.70
74.00	72.00	60.80	48.90	32.20	19.00

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR HURON SOUTH DAKOTA
AND STATION LATITUDE = 44.23 DEGREES

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.20	271473.187	100.00

RUNOFF	0.929	20664.230	7.61
EVAPOTRANSPIRATION	10.685	237770.484	87.59
DRAINAGE COLLECTED FROM LAYER 3	0.0526	1171.134	0.43
PERC./LEAKAGE THROUGH LAYER 4	0.512325	11400.202	4.20
AVG. HEAD ON TOP OF LAYER 4	0.1258		
CHANGE IN WATER STORAGE	0.021	467.161	0.17
SOIL WATER AT START OF YEAR	26.693	593963.937	
SOIL WATER AT END OF YEAR	26.714	594431.125	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.36	519804.406	100.00
RUNOFF	5.170	115048.969	22.13

EVAPOTRANSPIRATION	14.335	318975.500	61.36
DRAINAGE COLLECTED FROM LAYER 3	1.2462	27729.908	5.33
PERC./LEAKAGE THROUGH LAYER 4	1.076874	23962.496	4.61
AVG. HEAD ON TOP OF LAYER 4	2.9958		
CHANGE IN WATER STORAGE	1.532	34087.496	6.56
SOIL WATER AT START OF YEAR	26.714	594431.125	
SOIL WATER AT END OF YEAR	27.368	608985.062	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.878	19533.535	3.76
ANNUAL WATER BUDGET BALANCE	0.0000	0.042	0.00

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.58	413440.250	100.00
RUNOFF	4.463	99299.320	24.02
EVAPOTRANSPIRATION	12.844	285795.531	69.13

DRAINAGE COLLECTED FROM LAYER 3	0.9860	21939.412	5.31
PERC./LEAKAGE THROUGH LAYER 4	1.364911	30371.857	7.35
AVG. HEAD ON TOP OF LAYER 4	2.3803		
CHANGE IN WATER STORAGE	-1.077	-23965.857	-5.80
SOIL WATER AT START OF YEAR	27.368	608985.062	
SOIL WATER AT END OF YEAR	27.039	601666.875	
SNOW WATER AT START OF YEAR	0.878	19533.535	4.72
SNOW WATER AT END OF YEAR	0.130	2885.890	0.70
ANNUAL WATER BUDGET BALANCE	0.0000	0.000	0.00

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.24	405874.781	100.00
RUNOFF	2.461	54753.437	13.49
EVAPOTRANSPIRATION	14.367	319696.500	78.77
DRAINAGE COLLECTED FROM LAYER 3	0.4656	10361.232	2.55

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   PERC./LEAKAGE THROUGH LAYER  4            1.206671      26850.713
6.62

   AVG. HEAD ON TOP OF LAYER  4              1.1205

   CHANGE IN WATER STORAGE                  -0.260         -5787.289     -
1.43

   SOIL WATER AT START OF YEAR              27.039        601666.875

   SOIL WATER AT END OF YEAR                26.813        596637.312

   SNOW WATER AT START OF YEAR               0.130          2885.890
0.71

   SNOW WATER AT END OF YEAR                 0.096          2128.164
0.52

   ANNUAL WATER BUDGET BALANCE               0.0000            0.210
0.00

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                          ANNUAL TOTALS FOR YEAR    5
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          17.98         400089.156
100.00

   RUNOFF                                  3.665         81543.852
20.38

   EVAPOTRANSPIRATION                     11.389        253432.187
63.34

   DRAINAGE COLLECTED FROM LAYER  3        0.7564        16831.500
4.21

   PERC./LEAKAGE THROUGH LAYER  4          1.221926      27190.168
6.80
```

AVG. HEAD ON TOP OF LAYER 4	1.8179		
CHANGE IN WATER STORAGE	0.948	21091.553	5.27
SOIL WATER AT START OF YEAR	26.813	596637.312	
SOIL WATER AT END OF YEAR	27.496	611844.187	
SNOW WATER AT START OF YEAR	0.096	2128.164	0.53
SNOW WATER AT END OF YEAR	0.360	8012.828	2.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.088	0.00

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ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.01	400756.781	100.00
RUNOFF	3.394	75518.133	18.84
EVAPOTRANSPIRATION	12.756	283854.812	70.83
DRAINAGE COLLECTED FROM LAYER 3	0.7744	17232.254	4.30
PERC./LEAKAGE THROUGH LAYER 4	1.338444	29782.926	7.43
AVG. HEAD ON TOP OF LAYER 4	1.8722		

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   CHANGE IN WATER STORAGE                  -0.253         -5631.348      -
1.41

   SOIL WATER AT START OF YEAR              27.496        611844.187

   SOIL WATER AT END OF YEAR                27.057        602071.125

   SNOW WATER AT START OF YEAR               0.360          8012.828
2.00

   SNOW WATER AT END OF YEAR                 0.546         12154.587
3.03

   ANNUAL WATER BUDGET BALANCE               0.0000            0.013
0.00


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                          ANNUAL TOTALS FOR YEAR    7
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          20.95         466177.375
100.00

   RUNOFF                                  5.640        125505.555
26.92

   EVAPOTRANSPIRATION                     11.463        255075.516
54.72

   DRAINAGE COLLECTED FROM LAYER  3        1.4155        31497.643
6.76

   PERC./LEAKAGE THROUGH LAYER  4          1.418653      31567.715
6.77

   AVG. HEAD ON TOP OF LAYER  4            3.4068

   CHANGE IN WATER STORAGE                 1.013         22530.863
4.83
```

SOIL WATER AT START OF YEAR	27.057	602071.125	
SOIL WATER AT END OF YEAR	28.616	636756.562	
SNOW WATER AT START OF YEAR	0.546	12154.587	2.61
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.085	0.00

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ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.51	411882.625	100.00
RUNOFF	4.108	91411.250	22.19
EVAPOTRANSPIRATION	12.597	280299.250	68.05
DRAINAGE COLLECTED FROM LAYER 3	1.3957	31056.148	7.54
PERC./LEAKAGE THROUGH LAYER 4	1.419572	31588.166	7.67
AVG. HEAD ON TOP OF LAYER 4	3.3653		
CHANGE IN WATER STORAGE	-1.010	-22472.072	-5.46
SOIL WATER AT START OF YEAR	28.616	636756.562	
SOIL WATER AT END OF YEAR	27.479	611461.812	

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.127	2822.632	0.69
ANNUAL WATER BUDGET BALANCE	0.0000	-0.109	0.00

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ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.47	433244.531	100.00
RUNOFF	3.856	85808.469	19.81
EVAPOTRANSPIRATION	13.133	292226.812	67.45
DRAINAGE COLLECTED FROM LAYER 3	1.1264	25065.518	5.79
PERC./LEAKAGE THROUGH LAYER 4	1.382487	30762.961	7.10
AVG. HEAD ON TOP OF LAYER 4	2.7214		
CHANGE IN WATER STORAGE	-0.028	-619.291	-0.14
SOIL WATER AT START OF YEAR	27.479	611461.812	
SOIL WATER AT END OF YEAR	27.578	613665.187	
SNOW WATER AT START OF YEAR	0.127	2822.632	0.65

SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.085	0.00

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ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.56	524254.844	100.00
RUNOFF	5.274	117365.961	22.39
EVAPOTRANSPIRATION	14.562	324036.125	61.81
DRAINAGE COLLECTED FROM LAYER 3	1.6236	36128.504	6.89
PERC./LEAKAGE THROUGH LAYER 4	1.444689	32147.084	6.13
AVG. HEAD ON TOP OF LAYER 4	3.9118		
CHANGE IN WATER STORAGE	0.655	14577.040	2.78
SOIL WATER AT START OF YEAR	27.578	613665.187	
SOIL WATER AT END OF YEAR	28.133	626013.625	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.100	2228.586	0.43

ANNUAL WATER BUDGET BALANCE 0.0000 0.133
0.00

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ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.09	402536.937	100.00
RUNOFF	3.177	70700.125	17.56
EVAPOTRANSPIRATION	14.011	311771.031	77.45
DRAINAGE COLLECTED FROM LAYER 3	1.0166	22620.715	5.62
PERC./LEAKAGE THROUGH LAYER 4	1.368742	30457.102	7.57
AVG. HEAD ON TOP OF LAYER 4	2.4561		
CHANGE IN WATER STORAGE	-1.484	-33012.082	-8.20
SOIL WATER AT START OF YEAR	28.133	626013.625	
SOIL WATER AT END OF YEAR	26.721	594589.875	
SNOW WATER AT START OF YEAR	0.100	2228.586	0.55
SNOW WATER AT END OF YEAR	0.029	640.235	0.16
ANNUAL WATER BUDGET BALANCE	0.0000	0.056	0.00

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ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.73	327770.562	100.00
RUNOFF	2.338	52030.383	15.87
EVAPOTRANSPIRATION	11.088	246718.687	75.27
DRAINAGE COLLECTED FROM LAYER 3	0.3724	8285.635	2.53
PERC./LEAKAGE THROUGH LAYER 4	1.145916	25498.797	7.78
AVG. HEAD ON TOP OF LAYER 4	0.8959		
CHANGE IN WATER STORAGE	-0.214	-4762.852	-1.45
SOIL WATER AT START OF YEAR	26.721	594589.875	
SOIL WATER AT END OF YEAR	26.536	590467.312	
SNOW WATER AT START OF YEAR	0.029	640.235	0.20
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.077	0.00

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ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.04	312416.687	100.00
RUNOFF	2.068	46016.383	14.73
EVAPOTRANSPIRATION	9.581	213193.016	68.24
DRAINAGE COLLECTED FROM LAYER 3	0.6193	13779.662	4.41
PERC./LEAKAGE THROUGH LAYER 4	1.062075	23633.178	7.56
AVG. HEAD ON TOP OF LAYER 4	1.4900		
CHANGE IN WATER STORAGE	0.710	15794.308	5.06
SOIL WATER AT START OF YEAR	26.536	590467.312	
SOIL WATER AT END OF YEAR	27.224	605788.125	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.021	473.462	0.15
ANNUAL WATER BUDGET BALANCE	0.0000	0.172	0.00

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                          ANNUAL TOTALS FOR YEAR   14
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          15.85         352692.625
100.00

   RUNOFF                                  3.295         73316.516
20.79

   EVAPOTRANSPIRATION                     10.610        236098.969
66.94

   DRAINAGE COLLECTED FROM LAYER  3        0.6982        15536.299
4.41

   PERC./LEAKAGE THROUGH LAYER  4          1.242781      27654.238
7.84

   AVG. HEAD ON TOP OF LAYER  4            1.6806

   CHANGE IN WATER STORAGE                 0.004            86.709
0.02

   SOIL WATER AT START OF YEAR            27.224        605788.125

   SOIL WATER AT END OF YEAR              27.219        605682.812

   SNOW WATER AT START OF YEAR             0.021           473.462
0.13

   SNOW WATER AT END OF YEAR               0.030           665.470
0.19

   ANNUAL WATER BUDGET BALANCE             0.0000           -0.085
0.00

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ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT
PRECIPITATION	15.10	336003.781	100.00
RUNOFF	1.794	39914.875	11.88
EVAPOTRANSPIRATION	11.700	260349.594	77.48
DRAINAGE COLLECTED FROM LAYER 3	0.5430	12083.359	3.60
PERC./LEAKAGE THROUGH LAYER 4	1.309494	29138.736	8.67
AVG. HEAD ON TOP OF LAYER 4	1.3134		
CHANGE IN WATER STORAGE	-0.246	-5482.808	-1.63
SOIL WATER AT START OF YEAR	27.219	605682.812	
SOIL WATER AT END OF YEAR	26.701	594144.750	
SNOW WATER AT START OF YEAR	0.030	665.470	0.20
SNOW WATER AT END OF YEAR	0.302	6720.727	2.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.042	0.00

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ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.48	411215.187	100.00
RUNOFF	4.253	94637.937	23.01
EVAPOTRANSPIRATION	10.721	238552.922	58.01
DRAINAGE COLLECTED FROM LAYER 3	1.1240	25011.031	6.08
PERC./LEAKAGE THROUGH LAYER 4	1.146359	25508.670	6.20
AVG. HEAD ON TOP OF LAYER 4	2.7017		
CHANGE IN WATER STORAGE	1.236	27504.439	6.69
SOIL WATER AT START OF YEAR	26.701	594144.750	
SOIL WATER AT END OF YEAR	28.239	628369.937	
SNOW WATER AT START OF YEAR	0.302	6720.727	1.63
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.202	0.00

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ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.77	328660.594	100.00
RUNOFF	3.051	67886.672	20.66
EVAPOTRANSPIRATION	10.049	223605.422	68.04
DRAINAGE COLLECTED FROM LAYER 3	1.0977	24426.182	7.43
PERC./LEAKAGE THROUGH LAYER 4	1.378893	30682.998	9.34
AVG. HEAD ON TOP OF LAYER 4	2.6527		
CHANGE IN WATER STORAGE	-0.806	-17940.756	-5.46
SOIL WATER AT START OF YEAR	28.239	628369.937	
SOIL WATER AT END OF YEAR	27.270	606806.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.163	3623.199	1.10
ANNUAL WATER BUDGET BALANCE	0.0000	0.093	0.00

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ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	10.76	239430.500	100.00
RUNOFF	0.999	22231.600	9.29
EVAPOTRANSPIRATION	8.895	197938.203	82.67
DRAINAGE COLLECTED FROM LAYER 3	0.4091	9104.291	3.80
PERC./LEAKAGE THROUGH LAYER 4	1.177342	26198.090	10.94
AVG. HEAD ON TOP OF LAYER 4	0.9880		
CHANGE IN WATER STORAGE	-0.721	-16041.769	-6.70
SOIL WATER AT START OF YEAR	27.270	606806.000	
SOIL WATER AT END OF YEAR	26.712	594387.437	
SNOW WATER AT START OF YEAR	0.163	3623.199	1.51
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.085	0.00

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ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.73	439030.031	100.00
RUNOFF	3.475	77318.508	17.61
EVAPOTRANSPIRATION	14.135	314529.687	71.64
DRAINAGE COLLECTED FROM LAYER 3	0.8917	19842.164	4.52
PERC./LEAKAGE THROUGH LAYER 4	0.970447	21594.295	4.92
AVG. HEAD ON TOP OF LAYER 4	2.1424		
CHANGE IN WATER STORAGE	0.258	5745.392	1.31
SOIL WATER AT START OF YEAR	26.712	594387.437	
SOIL WATER AT END OF YEAR	26.970	600132.812	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.009	0.00

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ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT

PRECIPITATION	20.40	453938.937	100.00
RUNOFF	5.261	117060.812	25.79
EVAPOTRANSPIRATION	13.008	289462.906	63.77
DRAINAGE COLLECTED FROM LAYER 3	0.6765	15053.200	3.32
PERC./LEAKAGE THROUGH LAYER 4	1.292684	28764.672	6.34
AVG. HEAD ON TOP OF LAYER 4	1.6267		
CHANGE IN WATER STORAGE	0.162	3597.225	0.79
SOIL WATER AT START OF YEAR	26.970	600132.812	
SOIL WATER AT END OF YEAR	27.132	603730.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.127	0.00

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ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT

PRECIPITATION	23.09	513796.437	100.00
RUNOFF	3.616	80457.109	15.66
EVAPOTRANSPIRATION	15.241	339148.406	66.01
DRAINAGE COLLECTED FROM LAYER 3	0.6390	14219.947	2.77
PERC./LEAKAGE THROUGH LAYER 4	1.321508	29406.055	5.72
AVG. HEAD ON TOP OF LAYER 4	1.5410		
CHANGE IN WATER STORAGE	2.272	50564.906	9.84
SOIL WATER AT START OF YEAR	27.132	603730.000	
SOIL WATER AT END OF YEAR	28.009	623261.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	1.395	31033.418	6.04
ANNUAL WATER BUDGET BALANCE	0.0000	0.005	0.00

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ANNUAL TOTALS FOR YEAR 22

	INCHES	CU. FEET	PERCENT
PRECIPITATION	17.74	394748.750	100.00

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   RUNOFF                                    2.558          56912.258
14.42

   EVAPOTRANSPIRATION                       15.103         336081.437
85.14

   DRAINAGE COLLECTED FROM LAYER  3          0.9990         22228.867
5.63

   PERC./LEAKAGE THROUGH LAYER  4            1.366538       30408.059
7.70

   AVG. HEAD ON TOP OF LAYER  4              2.4168

   CHANGE IN WATER STORAGE                  -2.287         -50881.922    -
12.89

   SOIL WATER AT START OF YEAR              28.009         623261.500

   SOIL WATER AT END OF YEAR                27.059         602116.625

   SNOW WATER AT START OF YEAR               1.395         31033.418
7.86

   SNOW WATER AT END OF YEAR                 0.058          1296.377
0.33

   ANNUAL WATER BUDGET BALANCE               0.0000            0.053
0.00

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                          ANNUAL TOTALS FOR YEAR   23
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                           17.16         381842.656
100.00

   RUNOFF                                   3.783         84174.914
22.04
```

EVAPOTRANSPIRATION	10.983	244386.109	64.00
DRAINAGE COLLECTED FROM LAYER 3	0.8329	18532.734	4.85
PERC./LEAKAGE THROUGH LAYER 4	1.345756	29945.633	7.84
AVG. HEAD ON TOP OF LAYER 4	2.0059		
CHANGE IN WATER STORAGE	0.216	4803.152	1.26
SOIL WATER AT START OF YEAR	27.059	602116.625	
SOIL WATER AT END OF YEAR	27.333	608216.187	
SNOW WATER AT START OF YEAR	0.058	1296.377	0.34
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.117	0.00

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ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.69	438139.969	100.00
RUNOFF	2.942	65457.945	14.94
EVAPOTRANSPIRATION	14.990	333552.812	76.13

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   DRAINAGE COLLECTED FROM LAYER  3          0.4810        10703.683
2.44

   PERC./LEAKAGE THROUGH LAYER  4            1.305138      29041.803
6.63

   AVG. HEAD ON TOP OF LAYER  4              1.1599

   CHANGE IN WATER STORAGE                  -0.028          -616.449     -
0.14

   SOIL WATER AT START OF YEAR              27.333        608216.187

   SOIL WATER AT END OF YEAR                27.014        601118.812

   SNOW WATER AT START OF YEAR               0.000             0.000
0.00

   SNOW WATER AT END OF YEAR                 0.291          6480.895
1.48

   ANNUAL WATER BUDGET BALANCE               0.0000            0.194
0.00


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                          ANNUAL TOTALS FOR YEAR   25
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          22.67         504450.750
100.00

   RUNOFF                                  4.466         99372.336
19.70

   EVAPOTRANSPIRATION                     15.295        340353.500
67.47

   DRAINAGE COLLECTED FROM LAYER  3        0.8752        19474.811
3.86
```

PERC./LEAKAGE THROUGH LAYER 4	1.327131	29531.189	5.85
AVG. HEAD ON TOP OF LAYER 4	2.1064		
CHANGE IN WATER STORAGE	0.706	15718.782	3.12
SOIL WATER AT START OF YEAR	27.014	601118.812	
SOIL WATER AT END OF YEAR	27.716	616735.437	
SNOW WATER AT START OF YEAR	0.291	6480.895	1.28
SNOW WATER AT END OF YEAR	0.296	6583.051	1.30
ANNUAL WATER BUDGET BALANCE	0.0000	0.146	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.43	0.75	1.21	1.89	2.37	2.89
	2.33	2.14	1.26	1.69	0.59	0.57
STD. DEVIATIONS	0.32	0.48	0.42	0.89	1.37	1.53
	0.94	0.87	0.98	1.22	0.42	0.42

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   RUNOFF
   ------
     TOTALS                  0.000    0.027    0.510    0.553    0.468
0.608
                             0.373    0.300    0.134    0.430    0.032
0.007

     STD. DEVIATIONS         0.001    0.080    0.462    0.604    0.594
0.514
                             0.292    0.236    0.201    0.495    0.055
0.025

   EVAPOTRANSPIRATION
   ------------------
     TOTALS                  0.379    0.465    0.481    1.439    1.544
1.859
                             1.900    1.815    0.931    0.831    0.522
0.375

     STD. DEVIATIONS         0.184    0.149    0.183    0.563    0.635
0.740
                             0.715    0.658    0.638    0.483    0.331
0.160

   LATERAL DRAINAGE COLLECTED FROM LAYER  3
   ----------------------------------------
     TOTALS                  0.0499   0.0328   0.0259   0.0438   0.0808
0.0910
                             0.1035   0.0960   0.0808   0.0854   0.0840
0.0710

     STD. DEVIATIONS         0.0399   0.0307   0.0279   0.0342   0.0352
0.0466
                             0.0535   0.0521   0.0432   0.0483   0.0456
0.0447

   PERCOLATION/LEAKAGE THROUGH LAYER  4
   -------------------------------------
     TOTALS                  0.0966   0.0813   0.0817   0.0875   0.1115
0.1101
                             0.1184   0.1175   0.1103   0.1119   0.1097
0.1093

     STD. DEVIATIONS         0.0391   0.0408   0.0461   0.0332   0.0212
0.0195
                             0.0067   0.0065   0.0124   0.0240   0.0156
0.0241

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                 AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)
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DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	1.4221	1.0244	0.7361	1.2876	2.2996	2.6767
	2.9482	2.7338	2.3768	2.4305	2.4708	2.0232
STD. DEVIATIONS	1.1368	0.9515	0.7958	1.0050	1.0030	1.3712
	1.5237	1.4840	1.2716	1.3763	1.3431	1.2729

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 25

	INCHES		CU. FEET	PERCENT
PRECIPITATION	18.13	(3.335)	403346.9	100.00
RUNOFF	3.441	(1.2648)	76576.30	18.985
EVAPOTRANSPIRATION	12.542	(1.9362)	279076.19	69.190
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.84472	(0.36844)	18796.637	4.66017
PERCOLATION/LEAKAGE THROUGH LAYER 4	1.24589	(0.19615)	27723.514	6.87337
AVERAGE HEAD ON TOP OF LAYER 4	2.036	(0.888)		
CHANGE IN WATER STORAGE	0.053	(0.9892)	1174.18	0.291

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                 PEAK DAILY VALUES FOR YEARS    1 THROUGH   25
    ----------------------------------------------------------------------
---
                                                  (INCHES)      (CU. FT.)
                                                 ----------   ------------
-
       PRECIPITATION                               2.41         53627.082

       RUNOFF                                      1.335        29711.8574

       DRAINAGE COLLECTED FROM LAYER  3            0.00812
180.78210

       PERCOLATION/LEAKAGE THROUGH LAYER  4        0.004418
98.30840

       AVERAGE HEAD ON TOP OF LAYER  4             7.172

       MAXIMUM HEAD ON TOP OF LAYER  4            10.447

       LOCATION OF MAXIMUM HEAD IN LAYER  3
             (DISTANCE FROM DRAIN)                40.6 FEET

       SNOW WATER                                  2.59         57551.5547


       MAXIMUM VEG. SOIL WATER (VOL/VOL)                   0.3982

       MINIMUM VEG. SOIL WATER (VOL/VOL)                   0.2035

        ***  Maximum heads are computed using McEnroe's equations.  ***

             Reference:  Maximum Saturated Depth over Landfill Liner
                         by Bruce M. McEnroe, University of Kansas
                         ASCE Journal of Environmental Engineering
                         Vol. 119, No. 2, March 1993, pp. 262-270.


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FINAL WATER STORAGE AT END OF YEAR 25

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LAYER	(INCHES)	(VOL/VOL)
1	1.9081	0.3180
2	13.1140	0.0729
3	2.4460	0.2038
4	10.2480	0.4270
SNOW WATER	0.296	

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 **                HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
**
 **                  HELP MODEL VERSION 3.07  (1 NOVEMBER 1997)
**
 **                    DEVELOPED BY ENVIRONMENTAL LABORATORY
**
 **                      USAE WATERWAYS EXPERIMENT STATION
**
 **               FOR USEPA RISK REDUCTION ENGINEERING LABORATORY
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 PRECIPITATION DATA FILE:     u:\PIER-25.D4
 TEMPERATURE DATA FILE:       u:\PIER-25.D7
 SOLAR RADIATION DATA FILE:   U:\PIER-25.D13
 EVAPOTRANSPIRATION DATA:     U:\PIER-25.D11
 SOIL AND DESIGN DATA FILE:   U:\PIER-FUL.D10
 OUTPUT DATA FILE:            U:\PIER-25.OUT


 TIME:  20:44     DATE:  12/29/2013



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      TITLE:  Pierre
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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
              COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.


                                LAYER  1
                                --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER  15
       THICKNESS                    =      6.00   INCHES
       POROSITY                     =      0.4750 VOL/VOL
       FIELD CAPACITY               =      0.3780 VOL/VOL
       WILTING POINT                =      0.2650 VOL/VOL
       INITIAL SOIL WATER CONTENT   =      0.2902 VOL/VOL
       EFFECTIVE SAT. HYD. COND.    =  0.170000003000E-04 CM/SEC
     NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  1.80
              FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.


                                LAYER  2
                                --------

                 TYPE 1 - VERTICAL PERCOLATION LAYER
                     MATERIAL TEXTURE NUMBER  19
       THICKNESS                    =   1380.00   INCHES
       POROSITY                     =      0.1680 VOL/VOL
       FIELD CAPACITY               =      0.0730 VOL/VOL
       WILTING POINT                =      0.0190 VOL/VOL
       INITIAL SOIL WATER CONTENT   =      0.0730 VOL/VOL
       EFFECTIVE SAT. HYD. COND.    =  0.100000005000E-02 CM/SEC


                                LAYER  3
                                --------

                 TYPE 2 - LATERAL DRAINAGE LAYER
                     MATERIAL TEXTURE NUMBER   5
       THICKNESS                    =     12.00   INCHES
       POROSITY                     =      0.4570 VOL/VOL
       FIELD CAPACITY               =      0.1310 VOL/VOL
       WILTING POINT                =      0.0580 VOL/VOL
       INITIAL SOIL WATER CONTENT   =      0.1310 VOL/VOL
       EFFECTIVE SAT. HYD. COND.    =  0.100000005000E-02 CM/SEC
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SLOPE	=	3.00	PERCENT
DRAINAGE LENGTH	=	150.0	FEET

LAYER 4

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16

THICKNESS	=	24.00	INCHES
POROSITY	=	0.4270	VOL/VOL
FIELD CAPACITY	=	0.4180	VOL/VOL
WILTING POINT	=	0.3670	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.4270	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000001000E-06	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT SOIL DATA BASE USING SOIL TEXTURE #15 WITH BARE GROUND CONDITIONS, A SURFACE SLOPE OF 3.% AND A SLOPE LENGTH OF 300. FEET.

SCS RUNOFF CURVE NUMBER	=	96.60	
FRACTION OF AREA ALLOWING RUNOFF	=	75.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	11.700	ACRES
EVAPORATIVE ZONE DEPTH	=	8.0	INCHES
INITIAL WATER IN EVAPORATIVE ZONE	=	1.879	INCHES
UPPER LIMIT OF EVAPORATIVE STORAGE	=	3.186	INCHES
LOWER LIMIT OF EVAPORATIVE STORAGE	=	1.628	INCHES
INITIAL SNOW WATER	=	0.000	INCHES
INITIAL WATER IN LAYER MATERIALS	=	114.293	INCHES
TOTAL INITIAL WATER	=	114.293	INCHES
TOTAL SUBSURFACE INFLOW	=	0.00	INCHES/YEAR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
HURON SOUTH DAKOTA

STATION LATITUDE	=	44.23	DEGREES
MAXIMUM LEAF AREA INDEX	=	1.00	
START OF GROWING SEASON (JULIAN DATE)	=	124	

END OF GROWING SEASON (JULIAN DATE)	=	278	
EVAPORATIVE ZONE DEPTH	=	8.0	INCHES
AVERAGE ANNUAL WIND SPEED	=	11.70	MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	73.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	68.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	66.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	72.00	%

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR HURON SOUTH DAKOTA

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
0.42	0.77	1.22	1.99	2.72	3.31
2.26	2.01	1.36	1.39	0.69	0.52

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR HURON SOUTH DAKOTA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
11.20	18.10	29.40	45.60	57.30	67.70
74.00	72.00	60.80	48.90	32.20	19.00

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR HURON SOUTH DAKOTA
AND STATION LATITUDE = 44.23 DEGREES

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ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	12.20	518146.219	100.00

RUNOFF	0.929	39440.699	7.61
EVAPOTRANSPIRATION	10.685	453819.656	87.59
DRAINAGE COLLECTED FROM LAYER 3	0.0526	2232.847	0.43
PERC./LEAKAGE THROUGH LAYER 4	0.512382	21761.385	4.20
AVG. HEAD ON TOP OF LAYER 4	0.1257		
CHANGE IN WATER STORAGE	0.021	891.725	0.17
SOIL WATER AT START OF YEAR	114.293	4854126.000	
SOIL WATER AT END OF YEAR	114.314	4855017.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.086	0.00

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ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.36	992122.562	100.00
RUNOFF	5.170	219587.750	22.13

EVAPOTRANSPIRATION	14.335	608811.312	61.36
DRAINAGE COLLECTED FROM LAYER 3	1.2441	52838.609	5.33
PERC./LEAKAGE THROUGH LAYER 4	1.076616	45724.937	4.61
AVG. HEAD ON TOP OF LAYER 4	2.9907		
CHANGE IN WATER STORAGE	1.534	65160.027	6.57
SOIL WATER AT START OF YEAR	114.314	4855017.500	
SOIL WATER AT END OF YEAR	114.970	4882895.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.878	37282.602	3.76
ANNUAL WATER BUDGET BALANCE	0.0000	-0.041	0.00

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ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.58	789111.062	100.00
RUNOFF	4.463	189527.250	24.02
EVAPOTRANSPIRATION	12.844	545482.500	69.13

DRAINAGE COLLECTED FROM LAYER 3	0.9870	41916.996	5.31
PERC./LEAKAGE THROUGH LAYER 4	1.365035	57974.418	7.35
AVG. HEAD ON TOP OF LAYER 4	2.3827		
CHANGE IN WATER STORAGE	-1.078	-45790.293	-5.80
SOIL WATER AT START OF YEAR	114.970	4882895.000	
SOIL WATER AT END OF YEAR	114.640	4868879.000	
SNOW WATER AT START OF YEAR	0.878	37282.602	4.72
SNOW WATER AT END OF YEAR	0.130	5508.142	0.70
ANNUAL WATER BUDGET BALANCE	0.0000	0.233	0.00

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ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.24	774671.250	100.00
RUNOFF	2.461	104504.930	13.49
EVAPOTRANSPIRATION	14.367	610187.375	78.77
DRAINAGE COLLECTED FROM LAYER 3	0.4657	19776.865	2.55

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   PERC./LEAKAGE THROUGH LAYER  4           1.207539      51285.371
6.62

   AVG. HEAD ON TOP OF LAYER  4             1.1205

   CHANGE IN WATER STORAGE                 -0.261        -11083.796     -
1.43

   SOIL WATER AT START OF YEAR            114.640       4868879.000

   SOIL WATER AT END OF YEAR              114.413       4859241.500

   SNOW WATER AT START OF YEAR              0.130          5508.142
0.71

   SNOW WATER AT END OF YEAR                0.096          4061.912
0.52

   ANNUAL WATER BUDGET BALANCE              0.0000            0.501
0.00


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                          ANNUAL TOTALS FOR YEAR    5
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                                          INCHES          CU. FEET
PERCENT
                                        --------        ----------    --
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   PRECIPITATION                          17.98         763628.562
100.00

   RUNOFF                                  3.665        155638.344
20.38

   EVAPOTRANSPIRATION                     11.389        483712.312
63.34

   DRAINAGE COLLECTED FROM LAYER  3        0.7553        32076.381
4.20

   PERC./LEAKAGE THROUGH LAYER  4          1.222004      51899.734
6.80
```

AVG. HEAD ON TOP OF LAYER 4	1.8152		
CHANGE IN WATER STORAGE	0.949	40302.238	5.28
SOIL WATER AT START OF YEAR	114.413	4859241.500	
SOIL WATER AT END OF YEAR	115.098	4888312.000	
SNOW WATER AT START OF YEAR	0.096	4061.912	0.53
SNOW WATER AT END OF YEAR	0.360	15293.651	2.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.435	0.00

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ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.01	764902.812	100.00
RUNOFF	3.394	144137.375	18.84
EVAPOTRANSPIRATION	12.756	541778.312	70.83
DRAINAGE COLLECTED FROM LAYER 3	0.7745	32894.906	4.30
PERC./LEAKAGE THROUGH LAYER 4	1.338457	56845.625	7.43
AVG. HEAD ON TOP OF LAYER 4	1.8724		

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   CHANGE IN WATER STORAGE                  -0.253        -10753.354      -
1.41

   SOIL WATER AT START OF YEAR             115.098       4888312.000

   SOIL WATER AT END OF YEAR               114.658       4869653.500

   SNOW WATER AT START OF YEAR               0.360         15293.651
2.00

   SNOW WATER AT END OF YEAR                 0.546         23198.803
3.03

   ANNUAL WATER BUDGET BALANCE               0.0000           -0.076
0.00

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                          ANNUAL TOTALS FOR YEAR    7
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          20.95         889767.562
100.00

   RUNOFF                                  5.640        239545.672
26.92

   EVAPOTRANSPIRATION                     11.463        486848.844
54.72

   DRAINAGE COLLECTED FROM LAYER  3        1.4152        60103.480
6.75

   PERC./LEAKAGE THROUGH LAYER  4          1.418610      60249.773
6.77

   AVG. HEAD ON TOP OF LAYER  4            3.4059

   CHANGE IN WATER STORAGE                 1.013         43019.559
4.83
```

SOIL WATER AT START OF YEAR	114.658	4869653.500	
SOIL WATER AT END OF YEAR	116.217	4935872.000	
SNOW WATER AT START OF YEAR	0.546	23198.803	2.61
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.228	0.00

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ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.51	786138.125	100.00
RUNOFF	4.108	174471.703	22.19
EVAPOTRANSPIRATION	12.597	534992.062	68.05
DRAINAGE COLLECTED FROM LAYER 3	1.3945	59227.016	7.53
PERC./LEAKAGE THROUGH LAYER 4	1.419429	60284.586	7.67
AVG. HEAD ON TOP OF LAYER 4	3.3627		
CHANGE IN WATER STORAGE	-1.009	-42837.359	-5.45
SOIL WATER AT START OF YEAR	116.217	4935872.000	
SOIL WATER AT END OF YEAR	115.082	4887647.000	

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   SNOW WATER AT START OF YEAR                0.000              0.000
0.00

   SNOW WATER AT END OF YEAR                  0.127           5387.406
0.69

   ANNUAL WATER BUDGET BALANCE                0.0000             0.142
0.00

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                          ANNUAL TOTALS FOR YEAR     9
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                                            INCHES          CU. FEET
PERCENT
                                           --------        ----------    --
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   PRECIPITATION                             19.47         826910.437
100.00

   RUNOFF                                     3.856        163777.984
19.81

   EVAPOTRANSPIRATION                        13.133        557757.500
67.45

   DRAINAGE COLLECTED FROM LAYER  3           1.1278        47898.762
5.79

   PERC./LEAKAGE THROUGH LAYER  4             1.382657      58722.836
7.10

   AVG. HEAD ON TOP OF LAYER  4               2.7247

   CHANGE IN WATER STORAGE                   -0.029         -1246.652     -
0.15

   SOIL WATER AT START OF YEAR              115.082       4887647.000

   SOIL WATER AT END OF YEAR                115.179       4891788.000

   SNOW WATER AT START OF YEAR                0.127          5387.406
0.65
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SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.005	0.00

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ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.56	1000616.870	100.00
RUNOFF	5.274	224010.062	22.39
EVAPOTRANSPIRATION	14.562	618470.250	61.81
DRAINAGE COLLECTED FROM LAYER 3	1.6215	68868.328	6.88
PERC./LEAKAGE THROUGH LAYER 4	1.444429	61346.344	6.13
AVG. HEAD ON TOP OF LAYER 4	3.9070		
CHANGE IN WATER STORAGE	0.657	27921.561	2.79
SOIL WATER AT START OF YEAR	115.179	4891788.000	
SOIL WATER AT END OF YEAR	115.737	4915456.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.100	4253.582	0.43

ANNUAL WATER BUDGET BALANCE	0.0000	0.349	0.00

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ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.09	768300.437	100.00
RUNOFF	3.177	134941.500	17.56
EVAPOTRANSPIRATION	14.011	595060.500	77.45
DRAINAGE COLLECTED FROM LAYER 3	1.0186	43259.969	5.63
PERC./LEAKAGE THROUGH LAYER 4	1.368991	58142.437	7.57
AVG. HEAD ON TOP OF LAYER 4	2.4609		
CHANGE IN WATER STORAGE	-1.486	-63103.805	-8.21
SOIL WATER AT START OF YEAR	115.737	4915456.000	
SOIL WATER AT END OF YEAR	114.322	4855384.000	
SNOW WATER AT START OF YEAR	0.100	4253.582	0.55
SNOW WATER AT END OF YEAR	0.029	1221.983	0.16
ANNUAL WATER BUDGET BALANCE	0.0000	-0.111	0.00

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ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.73	625597.937	100.00
RUNOFF	2.338	99307.578	15.87
EVAPOTRANSPIRATION	11.088	470898.625	75.27
DRAINAGE COLLECTED FROM LAYER 3	0.3725	15821.439	2.53
PERC./LEAKAGE THROUGH LAYER 4	1.147088	48717.992	7.79
AVG. HEAD ON TOP OF LAYER 4	0.8963		
CHANGE IN WATER STORAGE	-0.215	-9147.385	-1.46
SOIL WATER AT START OF YEAR	114.322	4855384.000	
SOIL WATER AT END OF YEAR	114.136	4847458.500	
SNOW WATER AT START OF YEAR	0.029	1221.983	0.20
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.268	0.00

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ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.04	596292.875	100.00
RUNOFF	2.068	87828.977	14.73
EVAPOTRANSPIRATION	9.581	406909.969	68.24
DRAINAGE COLLECTED FROM LAYER 3	0.6189	26285.826	4.41
PERC./LEAKAGE THROUGH LAYER 4	1.062169	45111.371	7.57
AVG. HEAD ON TOP OF LAYER 4	1.4892		
CHANGE IN WATER STORAGE	0.710	30156.271	5.06
SOIL WATER AT START OF YEAR	114.136	4847458.500	
SOIL WATER AT END OF YEAR	114.824	4876711.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.021	903.671	0.15
ANNUAL WATER BUDGET BALANCE	0.0000	0.466	0.00

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                          ANNUAL TOTALS FOR YEAR   14
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          15.85         673165.375
100.00

   RUNOFF                                  3.295        139935.266
20.79

   EVAPOTRANSPIRATION                     10.610        450629.312
66.94

   DRAINAGE COLLECTED FROM LAYER  3        0.6970        29601.926
4.40

   PERC./LEAKAGE THROUGH LAYER  4          1.242919      52788.004
7.84

   AVG. HEAD ON TOP OF LAYER  4            1.6777

   CHANGE IN WATER STORAGE                 0.005           210.942
0.03

   SOIL WATER AT START OF YEAR            114.824       4876711.000

   SOIL WATER AT END OF YEAR              114.821       4876555.500

   SNOW WATER AT START OF YEAR              0.021           903.671
0.13

   SNOW WATER AT END OF YEAR                0.030          1270.146
0.19

   ANNUAL WATER BUDGET BALANCE              0.0000           -0.096
0.00

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ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT
PRECIPITATION	15.10	641312.250	100.00
RUNOFF	1.794	76183.359	11.88
EVAPOTRANSPIRATION	11.700	496915.187	77.48
DRAINAGE COLLECTED FROM LAYER 3	0.5438	23096.271	3.60
PERC./LEAKAGE THROUGH LAYER 4	1.309592	55619.695	8.67
AVG. HEAD ON TOP OF LAYER 4	1.3153		
CHANGE IN WATER STORAGE	-0.247	-10502.487	-1.64
SOIL WATER AT START OF YEAR	114.821	4876555.500	
SOIL WATER AT END OF YEAR	114.301	4854495.500	
SNOW WATER AT START OF YEAR	0.030	1270.146	0.20
SNOW WATER AT END OF YEAR	0.302	12827.487	2.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.248	0.00

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ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.48	784864.187	100.00
RUNOFF	4.253	180630.312	23.01
EVAPOTRANSPIRATION	10.721	455313.062	58.01
DRAINAGE COLLECTED FROM LAYER 3	1.1230	47695.828	6.08
PERC./LEAKAGE THROUGH LAYER 4	1.146748	48703.516	6.21
AVG. HEAD ON TOP OF LAYER 4	2.6994		
CHANGE IN WATER STORAGE	1.237	52521.184	6.69
SOIL WATER AT START OF YEAR	114.301	4854495.500	
SOIL WATER AT END OF YEAR	115.840	4919844.500	
SNOW WATER AT START OF YEAR	0.302	12827.487	1.63
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.314	0.00

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ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	14.77	627296.750	100.00
RUNOFF	3.051	129571.617	20.66
EVAPOTRANSPIRATION	10.049	426783.562	68.04
DRAINAGE COLLECTED FROM LAYER 3	1.0978	46625.680	7.43
PERC./LEAKAGE THROUGH LAYER 4	1.378907	58563.547	9.34
AVG. HEAD ON TOP OF LAYER 4	2.6529		
CHANGE IN WATER STORAGE	-0.806	-34247.816	-5.46
SOIL WATER AT START OF YEAR	115.840	4919844.500	
SOIL WATER AT END OF YEAR	114.871	4878681.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.163	6915.405	1.10
ANNUAL WATER BUDGET BALANCE	0.0000	0.127	0.00

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ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	10.76	456988.031	100.00
RUNOFF	0.999	42432.250	9.29
EVAPOTRANSPIRATION	8.895	377793.937	82.67
DRAINAGE COLLECTED FROM LAYER 3	0.4096	17396.687	3.81
PERC./LEAKAGE THROUGH LAYER 4	1.177918	50027.344	10.95
AVG. HEAD ON TOP OF LAYER 4	0.9891		
CHANGE IN WATER STORAGE	-0.722	-30662.447	-6.71
SOIL WATER AT START OF YEAR	114.871	4878681.000	
SOIL WATER AT END OF YEAR	114.312	4854934.000	
SNOW WATER AT START OF YEAR	0.163	6915.405	1.51
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.273	0.00

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ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.73	837952.875	100.00
RUNOFF	3.475	147573.656	17.61
EVAPOTRANSPIRATION	14.135	600325.812	71.64
DRAINAGE COLLECTED FROM LAYER 3	0.8909	37838.488	4.52
PERC./LEAKAGE THROUGH LAYER 4	0.970350	41211.723	4.92
AVG. HEAD ON TOP OF LAYER 4	2.1405		
CHANGE IN WATER STORAGE	0.259	11003.344	1.31
SOIL WATER AT START OF YEAR	114.312	4854934.000	
SOIL WATER AT END OF YEAR	114.571	4865937.500	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.127	0.00

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ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT

PRECIPITATION	20.40	866408.687	100.00
RUNOFF	5.261	223427.641	25.79
EVAPOTRANSPIRATION	13.008	552482.187	63.77
DRAINAGE COLLECTED FROM LAYER 3	0.6758	28700.518	3.31
PERC./LEAKAGE THROUGH LAYER 4	1.293195	54923.301	6.34
AVG. HEAD ON TOP OF LAYER 4	1.6248		
CHANGE IN WATER STORAGE	0.162	6874.578	0.79
SOIL WATER AT START OF YEAR	114.571	4865937.500	
SOIL WATER AT END OF YEAR	114.733	4872812.000	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.481	0.00

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ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT

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   PRECIPITATION                              23.09          980655.437
100.00

   RUNOFF                                      3.616         153564.125
15.66

   EVAPOTRANSPIRATION                         15.241         647314.250
66.01

   DRAINAGE COLLECTED FROM LAYER  3            0.6377         27083.686
2.76

   PERC./LEAKAGE THROUGH LAYER  4              1.321339       56118.602
5.72

   AVG. HEAD ON TOP OF LAYER  4                1.5379

   CHANGE IN WATER STORAGE                     2.274          96575.062
9.85

   SOIL WATER AT START OF YEAR               114.733        4872812.000

   SOIL WATER AT END OF YEAR                 115.612        4910155.000

   SNOW WATER AT START OF YEAR                 0.000              0.000
0.00

   SNOW WATER AT END OF YEAR                   1.395          59231.805
6.04

   ANNUAL WATER BUDGET BALANCE                 0.0000           -0.253
0.00


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                          ANNUAL TOTALS FOR YEAR   22
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                                            INCHES          CU. FEET
PERCENT
                                          --------        ----------     --
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   PRECIPITATION                              17.74         753435.625
100.00
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   RUNOFF                                    2.558        108625.352
14.42

   EVAPOTRANSPIRATION                       15.103        641460.500
85.14

   DRAINAGE COLLECTED FROM LAYER  3          1.0005        42494.184
5.64

   PERC./LEAKAGE THROUGH LAYER  4            1.366735      58046.605
7.70

   AVG. HEAD ON TOP OF LAYER  4              2.4206

   CHANGE IN WATER STORAGE                  -2.288        -97190.984    -
12.90

   SOIL WATER AT START OF YEAR             115.612       4910155.000

   SOIL WATER AT END OF YEAR               114.660       4869721.500

   SNOW WATER AT START OF YEAR               1.395         59231.805
7.86

   SNOW WATER AT END OF YEAR                 0.058          2474.325
0.33

   ANNUAL WATER BUDGET BALANCE               0.0000           -0.015
0.00

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                          ANNUAL TOTALS FOR YEAR   23
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                           17.16         728802.437
100.00

   RUNOFF                                   3.783        160660.109
22.04
```

EVAPOTRANSPIRATION	10.983	466446.562	64.00
DRAINAGE COLLECTED FROM LAYER 3	0.8325	35356.773	4.85
PERC./LEAKAGE THROUGH LAYER 4	1.345710	57153.656	7.84
AVG. HEAD ON TOP OF LAYER 4	2.0050		
CHANGE IN WATER STORAGE	0.216	9185.176	1.26
SOIL WATER AT START OF YEAR	114.660	4869721.500	
SOIL WATER AT END OF YEAR	114.934	4881381.000	
SNOW WATER AT START OF YEAR	0.058	2474.325	0.34
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	0.172	0.00

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ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	19.69	836254.062	100.00
RUNOFF	2.942	124936.039	14.94
EVAPOTRANSPIRATION	14.990	636634.187	76.13

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   DRAINAGE COLLECTED FROM LAYER  3          0.4807        20413.844
2.44

   PERC./LEAKAGE THROUGH LAYER  4            1.305092      55428.559
6.63

   AVG. HEAD ON TOP OF LAYER  4              1.1590

   CHANGE IN WATER STORAGE                  -0.027         -1159.085     -
0.14

   SOIL WATER AT START OF YEAR             114.934       4881381.000

   SOIL WATER AT END OF YEAR               114.616       4867852.500

   SNOW WATER AT START OF YEAR               0.000             0.000
0.00

   SNOW WATER AT END OF YEAR                 0.291         12369.732
1.48

   ANNUAL WATER BUDGET BALANCE               0.0000            0.532
0.00


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                           ANNUAL TOTALS FOR YEAR   25
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                                          INCHES          CU. FEET
PERCENT
                                         --------        ----------    --
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   PRECIPITATION                          22.67         962817.875
100.00

   RUNOFF                                  4.466        189666.594
19.70

   EVAPOTRANSPIRATION                     15.295        649614.312
67.47

   DRAINAGE COLLECTED FROM LAYER  3        0.8750        37162.020
3.86
```

PERC./LEAKAGE THROUGH LAYER 4	1.328191	56409.586	5.86
AVG. HEAD ON TOP OF LAYER 4	2.1059		
CHANGE IN WATER STORAGE	0.706	29965.055	3.11
SOIL WATER AT START OF YEAR	114.616	4867852.500	
SOIL WATER AT END OF YEAR	115.317	4897622.500	
SNOW WATER AT START OF YEAR	0.291	12369.732	1.28
SNOW WATER AT END OF YEAR	0.296	12564.714	1.30
ANNUAL WATER BUDGET BALANCE	0.0000	0.314	0.00

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AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	0.43	0.75	1.21	1.89	2.37	2.89
	2.33	2.14	1.26	1.69	0.59	0.57
STD. DEVIATIONS	0.32	0.48	0.42	0.89	1.37	1.53
	0.94	0.87	0.98	1.22	0.42	0.42

RUNOFF

TOTALS	0.000	0.027	0.510	0.553	0.468	0.608
	0.373	0.300	0.134	0.430	0.032	0.007
STD. DEVIATIONS	0.001	0.080	0.462	0.604	0.594	0.514
	0.292	0.236	0.201	0.495	0.055	0.025

EVAPOTRANSPIRATION

TOTALS	0.379	0.465	0.481	1.439	1.544	1.859
	1.900	1.815	0.931	0.831	0.522	0.375
STD. DEVIATIONS	0.184	0.149	0.183	0.563	0.635	0.740
	0.715	0.658	0.638	0.483	0.331	0.160

LATERAL DRAINAGE COLLECTED FROM LAYER 3

TOTALS	0.0501	0.0329	0.0259	0.0432	0.0805	0.0910
	0.1036	0.0961	0.0809	0.0851	0.0841	0.0712
STD. DEVIATIONS	0.0400	0.0307	0.0280	0.0340	0.0349	0.0467
	0.0535	0.0522	0.0433	0.0482	0.0457	0.0448

PERCOLATION/LEAKAGE THROUGH LAYER 4

TOTALS	0.0966	0.0814	0.0818	0.0875	0.1115	0.1101
	0.1184	0.1175	0.1103	0.1119	0.1097	0.1093
STD. DEVIATIONS	0.0391	0.0407	0.0460	0.0332	0.0212	0.0195
	0.0067	0.0065	0.0124	0.0240	0.0156	0.0241

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	1.4256	1.0275	0.7377	1.2711	2.2911
2.6771					
	2.9498	2.7379	2.3806	2.4226	2.4751
2.0272					
STD. DEVIATIONS	1.1389	0.9534	0.7967	1.0000	0.9938
1.3735					
	1.5240	1.4868	1.2743	1.3726	1.3453
1.2749					

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 25

	INCHES		CU. FEET	PERCENT
PRECIPITATION	18.13	(3.335)	769846.4	100.00
RUNOFF	3.441	(1.2648)	146157.05	18.985
EVAPOTRANSPIRATION	12.542	(1.9362)	532657.69	69.190
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.84450	(0.36821)	35866.699	4.65894
PERCOLATION/LEAKAGE THROUGH LAYER 4	1.24608	(0.19612)	52922.437	6.87441
AVERAGE HEAD ON TOP OF LAYER 4	2.035	(0.887)		
CHANGE IN WATER STORAGE	0.053	(0.9900)	2242.45	0.291

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                 PEAK DAILY VALUES FOR YEARS    1 THROUGH   25
    ----------------------------------------------------------------------
---
                                                (INCHES)      (CU. FT.)
                                               ----------   ------------
-
       PRECIPITATION                             2.41        102355.109

       RUNOFF                                    1.335        56709.4141

       DRAINAGE COLLECTED FROM LAYER  3          0.00815
346.15298

       PERCOLATION/LEAKAGE THROUGH LAYER  4      0.004421
187.77403

       AVERAGE HEAD ON TOP OF LAYER  4           7.195

       MAXIMUM HEAD ON TOP OF LAYER  4          10.475

       LOCATION OF MAXIMUM HEAD IN LAYER  3
             (DISTANCE FROM DRAIN)              40.7 FEET

       SNOW WATER                                2.59        109845.5390


       MAXIMUM VEG. SOIL WATER (VOL/VOL)                 0.3982

       MINIMUM VEG. SOIL WATER (VOL/VOL)                 0.2035

        ***  Maximum heads are computed using McEnroe's equations.  ***

             Reference:  Maximum Saturated Depth over Landfill Liner
                         by Bruce M. McEnroe, University of Kansas
                         ASCE Journal of Environmental Engineering
                         Vol. 119, No. 2, March 1993, pp. 262-270.


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FINAL WATER STORAGE AT END OF YEAR 25

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LAYER	(INCHES)	(VOL/VOL)
1	1.9081	0.3180
2	100.7140	0.0730
3	2.4468	0.2039
4	10.2480	0.4270
SNOW WATER	0.296	

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ATTACHMENT 3
LEACHATE PIPE CAPACITY CALCULATION

Job No.		No.	

HDR Engineering, Inc.

Project	Pierre Landfill	Computed	JBM	Date	12/1/2013
Subject	Leachate Collection System	Checked	DTD	Date	12/5/2013
Task	Leachate Pipe Capacity			Revised	

Problem
Evaluate the flow capacity of the leachate collection pipe.

Calculations
Given:

0.625	in	perforation diameter
2		perforation around diameter of pipe
25	%	reduction in perforation diameter due to clogging
0.469	in	revised perforation diameter
4		perforations per foot
1,700	**ft**	**length of pipe run**
5.348	in	inside diameter of 6-inch SDR 11 HDPE pipe
30	cf/ac/day	peak leachate collection layer flow
11.7	**ac**	**contributing area of flow**
346	**cf/day**	**peak leachate collection layer flow**

Determine the Capacity through the Perforations

$$Q_{perf} = C_d \times A \times (2gh)^{0.5}$$ Orifice Equation

where:

Qperf	= flow through perforations (cfs)
A	= cross sectional area through one perforation
Cd	= orifice coefficient = 0.6 (sharp orifice)
g	= acceleration due to gravity = 32.2 ft/s^2
h	= head of water above the orifice = 1 in = 0.0833 ft

A	0.172	in^2
	0.00119	ft^2
Q	1.66E-03	cfs per perforation
	6.64E-03	cfs per foot of pipe
	11.29	cfs per entire length of pipe
	975,226	**ft^3 day per entire length of pipe**

Determine the Capacity of the Pipe

$$Q_p = \frac{1.49}{n} A R^{\frac{2}{3}} S^{\frac{1}{2}}$$ Manning's Equation

where:

Qp	= pipe capacity (cfs)
n	= Manning's roughness coefficient (dimensionless)
A	= cross section area (sq. feet)
R	= hydraulic radius = area/wetted perimeter (ft)
S	= slope of pipe (ft/ft)

n	0.012		HDPE pipe
A	22.45	in^2	3.14 * inner diameter^2/4
	0.156	ft^2	
R	0.111	ft	assume full flow
S	0.0050		slope of pipe post-settlement
Q_p	0.32	ft^3 / sec	
	27,386	**ft^3 / day**	

Therefore, the limiting factor is pipe flow. The estimated flow capacity is much greater than the peak day leachate collection which means a 6-inch perforated pipe is sufficient.

WRAP Review Sheet
Sanitary/Storm Facilities Funding Application
City of Eagle Butte

Project Title:	Sanitary and Storm Sewer Improvements
Funding Requested:	$2,910,000
Other Proposed Funding:	CDBG Funding has been applied for.
Total Project Cost:	$2,910,000
Project Description:	The city of Eagle Butte is proposing to replace a 10-inch gravity sewer main with an 8-inch force main and construct a new lift station to connect existing businesses currently not served by the city. Sanitary and storm sewer upgrades and extensions will also be constructed throughout the city. The city intends to dredge one of its wastewater treatment ponds, install aerators, and upgrade the inter-pond and inlet piping between the lagoons.
Alternatives Evaluated:	The city evaluated the "no action" alternative but decided that the projects needed to be completed. This alternative will not address the problems with the collection system, lift station, and treatment facility. The existing gravity sewer located under Highway 212 is severely corroded and needs to be replaced. A new force main is cheaper to construct than a new gravity sewer. The existing lift station has reached its useful life and is located on property not owned by the city. The new lift station will replace the existing lift station in the north part of the city. The new lift station will be placed on city owned property north of Highway 212. Replacement of the gravity sewer with a force main and new lift station were the selected alternatives. The sewer upgrades will replace aging sanitary and storm sewer lines, drop inlets and manholes. The sewer extensions will provide sanitary service to four properties within the city limits. The storm sewer extension will provide drainage to several areas in the city to minimize flooding and property damage. The wastewater treatment system has been having odor problems due to the close proximity to the city and the prevailing winds. The city intends to dredge one of the storage ponds and install aerators to improve oxygenation of

	the cell. The inter-pond piping will be upgraded to larger sized pipe to allow for better wastewater transfer between the ponds. The inlet piping will be extended by 300 feet from its existing location to increase the dispersion of organic loading into the first cell and allow for better mixing of the influent.
Implementation Schedule:	Eagle Butte anticipates bidding the project in the winter of 2014 with a project completion date in the fall of 2015.
Service Population:	1,318
Current Domestic Rate:	$22.00 (flat rate)
Proposed Domestic Rate at Project Completion:	$33.57 (flat rate)

Interest Rate: 3.25% Term: 30 years Security: Wastewater Surcharge

DEBT SERVICE CAPACITY

Coverage at Maximum Loan Amount:	If all funding is provided as loan, Eagle Butte would need to enact a surcharge of $11.57. When added to the current rate of $22/5,000 gallons, residents would pay $33.57/5,000 gallons.

25% Funding Subsidy:	$727,500 subsidy with a loan of $1,82,500
Coverage at 25% Subsidy:	Based on a 25 percent subsidy and a loan of $2,182,400, Eagle Butte would need to enact a surcharge of $8.68, taking the rate to $30.68/5,000 gallons.

50% Funding Subsidy:	$1,455,000 subsidy with a loan of $1,455,000
Coverage at 50% Subsidy:	Based on a 50 percent subsidy and a loan of $1,455,000, Eagle Butte would need to enact a surcharge of $5.79, taking the rate to $27.79/5,000 gallons.

75% Funding Subsidy:	$2,182,500 subsidy with a loan of $727,500
Coverage at 75% Subsidy:	Based on a 75 percent subsidy and a loan of $727,500, Eagle Butte would need to enact a surcharge of $2.90, taking the rate to $24.90/5,000 gallons.

ENGINEERING REVIEW COMPLETED BY: JIM ANDERSON

FINANCIAL REVIEW COMPLETED BY: ELAYNE LANDE

RECEIVED
SD EForm - 2127LD V2
JUL - 1 2014
Division of Financial & Technical Assistance

Sanitary/Storm Sewer Facilities Funding Application

Consolidated Water Facilities Construction Program (CWFCP)
Clean Water State Revolving Fund Program (CWSRF)

Applicant	**Proposed Funding Package**	
City of Eagle Butte, SD	CWFCP / CWSRF	$2,910,000
Address	Local Cash	
209 Main St., PO Box 150 Eagle Butte, SD 57625	Other	
	Other	
Subapplicant	Other	
	This may change as the city may apply for CDBG funds.	
DUNS Number 02791523	**TOTAL**	$2,910,000

Project Title: City of Eagle Butte Sanitary and Storm Sewer Project

Description:

The City of Eagle Butte proposes to make improvements to their wastewater and storm sewer systems. Improvements to the wastewater system include installing aerators, the dredging of the existing storage ponds, construction of a new control building, and all necessary appurtenances related. The improvements to the collection system will include the replacement and extension of approximately 9,500 feet of 4"- 8" sewer mains, lift station construction, manholes, and all necessary appurtenances related to the collection system. Storm sewer improvements include the extension of system, inlet piping, the installation of approximately 700 feet of storm sewer pipe, drainage fabric, inlets, catch basins, seeding, and other necessary appurtenances. The project is being undertaken to improve aging systems and enhance the storm sewer system to prevent localized ponding of water during periods of heavy rainfall. The current sewer rate for residential customers of the City of Eagle Butte is a flat rate of $22.00 per unit per month.

The Applicant Certifies That:

I declare and affirm under the penalties of perjury that this application has been examined by me and, to the best of my knowledge and belief, is in all things true and correct.

Verzella LaPlante, Mayor	Verzella LaPlante	Jun 27, 2014
Name & Title of Authorized Signatory (Typed)	Signature	Date

Professional Consultants

Application Prepared By: Central South Dakota Enhancement District

Contact Person: Emeline Post

Mailing Address: PO Box 220

City, State, and Zip: Pierre, SD 57501

Telephone Number: (605) 773-2781 Fax: (605) 773-2784

Email address: emeline@csded.org

Consulting Engineering Firm: DeWild Grant Reckert & Associates Company

Contact Person: Trent Bruce

Mailing Address: 2909 East 57th Street, Suite 101

City, State, and Zip: Sioux Falls, SD 57108

Telephone Number: (605) 339-4157 Fax: 605339-4175

Email address: tbruce@dgrnet.com

Legal Counsel's Firm: Bennett, Main and Gubbrud P.C.

Legal Counsel: Dwight Gubbrud

Mailing Address: 618 State Street

City, State, and Zip: Belle Fourche, SD 57717

Telephone Number: (605) 892-2011 Fax:

Email address: bellelaw@bellelaw.com

Bond Counsel's Firm: Meierhenry Argent, LLP

Bond Counsel: Todd Meierhenry

Mailing Address: 315 S Phillips Ave

City, State, and Zip: Sioux Falls, SD 57104

Telephone Number: (605) 336-3075 Fax: (605) 336-2593

Email address: todd@meierhenrylaw.com

BUDGET SHEET

Wastewater Project

Cost Classification	A CWFCP / DWSRF	B	C	D	E	Total Funds
1. Administrative Expenses						
A. Personal Services						
B. Travel						
C. Legal including Bond Counsel	$95,000.00					$95,000.00
D. Other publishing, audits, etc.	$10,000.00					$10,000.00
2. Land, Structure, Right-of-Way						
3. Engineering						
A. Bidding and Design Fees	$195,000.00					$195,000.00
B. Project Inspection Fees						
C. Other Geotechnical	$33,000.00					$33,000.00
4. Construction and Project Improvement	$2,300,000.00					$2,300,000.00
5. Equipment						
6. Contractual Services						
7. Other						
8. Other						
9. Subtotal (Lines 1-8)	$2,633,000.00					$2,633,000.00
10. Contingencies	$277,000.00					$277,000.00
11. Total (Lines 9 and 10)	$2,910,000.00					$2,910,000.00
12. Total %	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Columns A - E: Identify each funding source and enter the amounts budgeted by cost category.

Comments: The figures have been rounded for convenience.

Method of Financing

Source Header	Secured Funds	Unsecured Funds (Date Anticipated)
Local Cash (Identify Source)		
Other (Explain) CWFCP/CWSRF		$2,910,000.00 Sept 2014
Other (Explain)		
Other (Explain)		
Other (Explain)		
Other (Explain)		
TOTAL		$2,910,000.00

Comments: The City of Eagle Butte may also apply for CDBG grant funds to help offset costs associated with the proposed project.

7.4.1 Repayment Information

Interest rate and term you are applying for: 3.25 %, 30 years.

What security is being pledged toward the repayment of this loan?

- ☐ 1. General Obligation bond (requires bond election)
- ☐ 2. Wastewater Revenue bond
- ☐ 3. Storm Sewer Revenue bond
- ☒ 4. Project Surcharge Revenue bond
- ☐ 5. Sales Tax Revenue bond

7.4.2 Documents That Must Be Submitted With Application

Financial Documents

1. Most recent audit or unaudited financial statement to include specific accounting of fund pledged for repayment.
2. Current year's budget.

Planning and Legal Documents

1. Governing user charge ordinance or resolution and its effective date.
2. Resolution of authorized signatory for submission of Clean Water SRF application and signing of payment requests. This resolution must also include the maximum loan amount requested, interest rate and term being applied for, description of proposed project, and security pledged towards repayment of the loan.

Facilities Plan (See section 8.4.16 for a detailed outline.)

7.4.3 General Information

The month and day your fiscal year begins: January 1st

Population Served

2010 Census, 1349 2013 Population Estimate, US Census

Current 1,318 2000 619 1990 489

Top Five Employers Within 30 Miles	Number of Employees	Type of Business
Cheyenne River Sioux Tribe*	600	Government
Cheyenne-Eagle Butte School System*	200	Education
IHS Hospital - Eagle Butte*	145	Health Care
Lakota Thrifty Mart*	77	Retail
Dupree School System	64	Education

Please indicate employers within boundary of issuing entity with an asterisk (*).

7.4.4 Wastewater Utility Information

Current Wastewater Utility Debt

Year	2001	2002	2002				
Purpose	Storm Sewer	Storm Sewer	Storm Sewer				
Security Pledged	Fund Revenue	Fund Revenue	Fund Revenue				
Amount	$221,500.00	$167,900.00	$126,600.00				
Maturity Date (mo/yr)	7/2041	5/2042	5/2042				
Debt Holder	USDA RD	USDA RD	USDA RD				
Debt Coverage Requirement	N/A	N/A	N/A				
Avg. Annual Required Payment	$12,204	$9,252	$6,984				
Outstanding Balance	$1,899,686.00	$133,747.79	$100,744.84				

Use additional sheets if more room is required to list all current wastewater utility debt.

Wastewater Utility Cash Flow

	Prior Year	Prior Year	Current Year Budgeted	Future Year #
Fiscal Year	2012	2013	2014 Budget	2017
OPERATING CASH FLOW				
Wastewater Sales	$340,500	$323,738.70	$245,000.00	$265,320.00
Surcharge Fee				$167,441.00
Other (Explain) Late fees, tapping fees,		$500.00	$500.00	$500.00
etc.				
OPERATING PAYMENTS				
Personal Services	($146,264)	($165,695.69)	($146,500.00)	($150,900.00)
Chemical, Material & Supplies		($17,054.18)	($20,000.00)	($20,600.00)
Electric & Other Utilities	($66,859)	($9,584.32)	($10,000.00)	($10,300.00)
Other (Explain) Repairs and Maintainence		($14,836.11)	($25,000.00)	($20,000.00)
Rental/Services and Fees		($25,860.38)	($6,250.00)	($6,500.00)
NET CASH FROM OPERATIONS	$127,377	$91,208.02	$37,750.00	$224,961.00
NONOPERATING CASH FLOW				
Interest Income	$11,288.00	$54,630.89	$40,000.00	$40,000.00
Other Revenue (Explain) Grant	$10,000.00			
Transfers In (Explain)				
Fixed Asset Sale (Explain)				
Transfers Out (Explain)				
Fixed Asset Purchases (Explain)				
Debt Payment (Principal Only)	($29,457.00)	($8,757.85)	($30,000.00)	($67,348.00)
Debt Payment (Interest Only)		($19,682.15)	($19,640.00)	($113,609.00)
Other Expenses (Explain) Professional	($36,000.00)			
Services				
NET CASH FROM NONOPERATING	($44,169)	$26,190.89	($9,640.00)	($140,957.00)
Net Increase (Decrease) in Cash	$83,208	$117,398.91	$28,110.00	$84,004.00
Beginning Cash Balance	$134,910	$218,118.00	$335,516.91	$363,626.91
Ending Cash Balance	$218,118	$335,516.91	$363,626.91	$447,630.91
RESTRICTED BALANCE	$24,440	$28,441.00	$28,441.00	$28,441.00
UNRESTRICTED BALANCE	$189,678	$308,092.00	$354,825.91	$419,141.71

Future Year: First full year after project completion.

Income is based on existing sewer rate of $22 per month per user and a $13.88 surcharge per month per user. All loan.

Restricted Funds Breakdown:

Amount	Anticipated Expense	Method Used to Encumber
$28,441.00	RD Reserve	Bond Resolution/Savings Certificate

Wastewater Fees:

Attach current and proposed rate ordinances or resolutions and rate schedules.

Municipal or Sanitary District - monthly rates at 5,000 gallons (670 cubic feet)

Others Systems - monthly rates at 7,000 gallons (935 cubic feet)

Check one: ✓ Incorporated Municipality or Sanitary District

or

____ Other System

Monthly:		Current Rate	Proposed Rate	# of Accounts /unit	Average use gallons/cubic feet
Domestic		22.00	33.57*	782	Flat
Business		22.00	33.57*	307	Flat
Other:	Cycle 3	22.00	33.57*	117	Flat
Other:					

'Cycle 3' is a classification of BIA and other commercial/non-residential users.

**Final rate will be determined based on funding package

Are fees based on usage or flat rate? Flat Rate

When is proposed fee scheduled to take effect? actual rate will be determined based on funding package completion.

When did the current fee take effect? June 1, 2012

What was the fee prior to the current rate? $19.00 per unit (January 1, 2012)

Attach current and proposed rate ordinances or resolutions and rate schedules.

*The proposed rate was calculated without any CDBG grant dollars or loan forgiveness dollars. As the scope of the project may shift dependent on obtaining these funds, the proposed fee is not scheduled to take effect on a specific date.

Five Largest Customers	Type of Business	% of System Revenues
Cheyenne Housing-Elderly Manner	Health Care/nursing Home	0.022
BIA School	Education	0.02
Black Hills Dialysis	Health Care	0.02
Cheyenne River Motel	Motel	0.02
Walter Minor Law Enforcement	Law Enforcement	0.01

Storm Sewer Projects:

Does sponsor have a separate storm water fee? Yes _____ No ✓

If yes, attach the current and proposed rate ordinances or resolutions and rate schedules. Identify below the rate charged and explain how fee is calculated.

7.4.5 Property Tax Information N/A

(Complete this section only if General Obligation bond is pledged to repay your loan.)

Three year valuation trend:

Year			
Assessed Valuation			
Full & True Valuation			

Three year levies and collection trend:

Year			
Amount Levied			
Collected			
Penalties/Interest			
Late Payments			

Three Largest Taxpayers	Description	Assessed Valuation

List all current debt secured by General Obligation bond:

Year					
Purpose					
Security Pledged					
Amount					
Maturity Date (mo/yr)					
Debt Holder					
Debt Coverage Requirement					
Avg. Annual Required Payment					
Outstanding Balance					

Use additional sheets if more room is required to list all current G.O. debt.

7.4.6 Sales Tax Information N/A

(Complete only if sales tax is pledged to repay your loan.)

Sales tax revenue history for the most current fifteen months:

Month/Year	Amount Collected

List all current debt secured by sales tax: N/A

Year Issued									
Purpose									
Amount									
Maturity Date (mo/yr)									
Debt Holder									
Debt Coverage Requirement									
Avg. Annual Required Payment									
Outstanding Balance									

Use additional sheets if more room is required to list all current sales tax debt.

7.4.7 Facilities Plan Checklist

Before submitting the application, please take a few moments to complete the following checklist. Addressing these items prior to submitting the application will help expedite the review process.

Checklist of SRF Facilities Plan Requirements	
Have the following items been addressed?	
♦ Submission of a Facilities Plan to the department that addresses those items found in section 8.4.16.	At DENR
♦ A public hearing held discussing the project and the use of an SRF loan to finance the project. (See section 8.4.15)	X
♦ Minutes of the public hearing prepared and submitted to the department for inclusion into the final Facilities Plan.	
♦ The affidavit of publication of the public hearing received and submitted to the department for inclusion into the final Facilities Plan. (See section 8.4.15) In facility plan!	
♦ The four review agencies contacted and responses received for inclusion into the final Facilities Plan. (See section 8.4.16)	*
The Cultural Resources Effects Assessment Summary and supporting documentation, such as an archaeological survey or Historic Register database search. (See section 8.4.18)	*

*The consulting engineer is trying to get the environmental that was completed by the Rural Development office.

7.4.8 Certification of Point Source Needs Categories

Identify the loan amount associated with the needs categories described below. If the loan addresses needs in more than one category, please break down the total amount into estimated amounts for each category.

Category	Definition	Proposed Loan Amount
I	Secondary Treatment and Best Practicable Wastewater Treatment Technology. Costs for facilities to achieve secondary levels of treatment, regardless of the actual treatment levels required at the facility site. Incremental costs for treatment levels above secondary are to be reported in Category II. For purposes of the Survey, "best practicable wastewater treatment technology" and secondary treatment are considered synonymous. Identified alternative conveyance systems (e.g., small diameter gravity, pressure and vacuum sewers) are to be included in Category I.	$895,000
II	Advanced Treatment. Incremental costs above secondary treatment for facilities which require advanced levels of treatment. This requirement generally exists where water quality standards require removal of such pollutants as phosphorus, ammonia, nitrates, or organic and other substances. In addition, this requirement exists where removal requirements for conventional pollutants exceed 85 percent.	
III A	Infiltration/Inflow Correction. Costs for correction of sewer system infiltration/inflow (I/I) problems. Costs should also be reported for the preparation of preliminary I/I analysis or for a detailed sewer system evaluation survey.	
III B	Major Sewer System Rehabilitation. Replacement and/or major rehabilitation of existing sewer systems. Costs are reported if the corrective actions are necessary to the total integrity of the system. Major rehabilitation is considered to be extensive repair of existing sewer beyond the scope of normal maintenance programs (i.e., where sewers are collapsing or structurally unsound).	$1,705,000

Category	Definition	Proposed Loan Amount
IV A	New Collectors and Appurtenances. Costs of construction of new collector sewer systems and appurtenances designed to correct violations caused by raw discharges or seepage to waters from septic tanks, or to comply with Federal, State or local actions.	
IV B	New Interceptors and Appurtenances. Costs for new interceptor sewers and pumping stations necessary for the bulk transmission of clean water.	
V	Correction of Combined Sewer Overflows. Costs for facilities, including conveyance, storage, and treatment, necessary to prevent and/or control periodic bypassing of untreated wastes from combined sewers to achieve water quality objectives and which are eligible for Federal funding. It does not include treatment and/or control of storm waters in separate storm and drainage systems.	
VI	New Construction or Rehabilitation of Storm Sewer Systems and Appurtenances. Cost of new construction or rehabilitation associated with the bulk transmission or detention of storm sewer flows. This category includes only runoff projects in communities with Phase I or Phase II storm water permits.	$310,000
TOTAL		$2,910,000

Verzella LaPlante, Mayor

Name of Applicant

Verzella LaPlante

Signature of Authorized Representative

June 27, 2014

Date

7.4.9 Certification of Nonpoint Source Needs Categories

Identify the loan amount associated with the needs categories described below. If the loan addresses needs in more than one category, please break down the total amount into estimated amounts for each category.

Category	Definition	Loan Amount
VII-A	NPS pollution - agricultural activities. Plowing, pesticide spraying, irrigation, fertilizing, planting, and harvesting. Example BMPs include conservation tillage, nutrient management, and irrigation water management.	_____
VII-B	NPS pollution - animal production. Confined animal facilities and grazing. Example BMPs include animal waste storage, animal waste nutrient management, composting, and planned grazing.	_____
VII-C	NPS pollution - forestry. Removal of streamside vegetation, road construction and use, timber harvesting, and mechanical preparation for the planting of trees. Example BMPs include preharvest planning, streamside buffers, road management, and revegetation of disturbed areas.	_____
VII-D	NPS pollution - new or existing development in urban or rural setting. Erosion, sedimentation, and discharge of pollutants (e.g., inadequately treated wastewater, oil grease, road salts, and toxic chemicals) into water resources from construction sites, roads, bridges, parking lots, and buildings. Example BMPs include wet ponds, construction site erosion and sedimentation controls, sand filters, and detention basin retrofit. This category includes only runoff projects in communities without phase I or phase II storm water permits.	_____
VII-E	NPS pollution - ground water protection. Wellhead and recharge protection areas. Activities attributed to specific causes are included in a later, more specific category.	_____
VII-F	NPS pollution - boating and marinas. Poorly flushed waterways, boat maintenance activities, discharge of sewage from boats, and physical alteration of shoreline, wetlands, and aquatic habitat during operation or construction of a marina. Example BMPs include pumpout systems and oil containment booms.	_____

Category	Definition	Loan Amount
VII-G	NPS pollution - mining and quarrying activities. Example BMPs: detention berms and seeding or revegetation.	
VII-H	NPS pollution - abandoned, idle, and underused industrial sites. All pollution control activities at these sites regardless of activity. Example BMPs include ground water monitoring wells, in situ treatment of contaminated soils and ground water, capping to prevent storm water infiltration, and storage tank activities at brownfields.	
VII-I	NPS pollution - tanks designed to hold chemicals, gasoline, or petroleum products. Tanks may be located either above or below ground. Example BMPs include spill containment, in situ treatment of contaminated soils and ground water, and upgrade, rehabilitation, or removal of petroleum/chemical storage tanks.	
VII-J	NPS pollution - sanitary landfills. Example BMPs include leachate collection or on-site treatment, gas collection and and control, and capping and closure.	
VII-K	NPS pollution - channel modification, dams, streambank and shoreline erosion, and wetland or riparian area protection or restoration. Example BMPs include conservation easements, swales or filter strips, shore erosion control, wetland development and restoration, and bank and channel stabilization.	
VII-L	NPS pollution - rehabilitation or replacement of individual or community sewerage disposal system. Construction of collector sewers to transport wastes to a cluster septic tank or other decentralized facilities.Collection sewers and expansion of existing or construction of new centralized treatment facilities that replace individual or community sewerage disposal system are included on Point Source Category table.	
TOTAL		$0

Verzella LaPlante, Mayor

Name of Applicant

Verzella LaPlante

Signature of Authorized Representative

Jun 27, 2014

Date

7.4.10 Preaward Compliance Review

FORM Approved By OMB: No. 2030-0020 Expires 12-31-2011

United States Environmental Protection Agency
Washington, DC 20460

Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note : Read instructions on other side before completing form.

I. Applicant/Recipient (Name, Address, State, Zip Code).	DUNS No.
City of Eagle Butte, SD, 209 Main Street, PO Box 150 Eagle Butte, SD 57625	02791523

II. Is the applicant currently receiving EPA assistance? No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7. See instructions on reverse side.) No

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective action taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7. See instructions on reverse side.) No

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3)). No

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below. yes

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable bypersons with disabilities, explain how a regulatory exception (40 C.F.R. § 7.70) applies. yes

VII.* Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex,age, or disability in its programs or activities? (40 C.F.R. § 5.140 and § 7.95) yes

a. Do the methods of notice accommodate those with impaired vision or hearing? no b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications? yes c. Does the notice identify a designated civil rights coordinator? yes

VIII.* Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. § 7.85(a)) Yes

IX.* Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166) no

X.* If the applicant/recipient is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator. N/A

XI* If the applicant/recipient is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet address for, or a copy of, the procedures. N/A

For the Applicant/Recipient I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official	B. Title of Authorized Official	C. Date
Verzell LaPlante	Mayor	6/27/14

For the U.S. Environmental Protection Agency I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preawardcompliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisionsof 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized EPA Official See ** note on reverse side.	B. Title of Authorized EPA Official	C. Date

EPA Form 4700-4 (Rev. 03/2008). Previous editions are obsolete.

Instructions for EPA FORM 4700-4 (Rev. 03/2008) General

Recipients of Federal financial assistance from the U.S.Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 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 subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment).

Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities.

Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities.

The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission.

Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution.

40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972.

40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973.

The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items

"Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25.

"Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25.

"Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed.

"Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability.

Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission.

If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable."

In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification.

* Questions VII – XI are for informational use only and will not affect an applicant's grant status. However, applicants should answer all questions on this form. (40 C.F.R. Parts 5 and 7).

** Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.

Approval indicates, in the reviewer's opinion, questions I – VI of Form 4700-4 comply with the preaward administrative requirements for EPA assistance.

"Burden Disclosure Statement"

EPA estimates public reporting burden for the preparation of this form to average 30 minutes per response. This estimate includes the time for reviewing instructions, gathering and maintaining the data needed and completing and reviewing the form. Send comments regarding the burden estimate, including suggestions for reducing this burden, to U.S. EPA, Attn: Collection Strategies Division (MC 2822T), Office of Information Collection, 1200 Pennsylvania Ave., NW, Washington, D.C. 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

The information on this form is required to enable the U.S.Environmental Protection Agency to determine whether applicants and prospective recipients are developing projects, programs and activities on a nondiscriminatory basis as required by the above statutes and regulations.

7.4.11 Certification Regarding Debarment, Suspension, and Other Responsibility Matters

The prospective participant certifies to the best of its knowledge and belief that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) Have not within a three year period preceding this application/ proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 U.S.C. §1001, a false statement may result in a fine of up to $10,000 or imprisonment for up to 5 years, or both.

Verzella LaPlante, Mayor

Name & Title of Authorized Representative

Verzella LaPlante 6/27/14

Signature of Authorized Representative Date

____ I am unable to certify to the above statements. Attached is my explanation

RESOLUTION NO. 2014-07

RESOLUTION AUTHORIZING AN APPLICATION FOR FINANCIAL ASSISTANCE, AUTHORIZING THE EXECUTION AND SUBMITTAL OF THE APPLICATION, AND DESIGNATING AN AUTHORIZED REPRESENTATIVE TO CERTIFY AND SIGN PAYMENT REQUESTS.

WHEREAS, the City of Eagle Butte has determined it is necessary to proceed with improvements to its Water System, including but not limited to the replacement and extension of water mains and necessary appurtenances throughout the city;

WHEREAS, the City has determined that financial assistance will be necessary to undertake the Project and an application for financial assistance to the South Dakota Board of Water and Natural Resources (the "Board") will be prepared; and

WHEREAS, it is necessary to designate an authorized representative to execute and submit the Application on behalf of the City and to certify and sign payment requests in the event financial assistance is awarded for the Project.

NOW THEREFORE BE IT RESOLVED by the City as follows:

1. The City hereby approves the submission of an Application for financial assistance in an amount not to exceed $725,000 to the South Dakota Board of Water and Natural Resources for the Project.

2. The mayor and/or city finance officer is hereby authorized to execute the Application and submit it to the South Dakota Board of Water and Natural Resources, and to execute and deliver such other documents and perform all acts necessary to effectuate the Application for financial assistance.

3. The mayor and/or city finance officer is hereby designated as the authorized representative of the City to do all things on its behalf to certify and sign payment requests in the event financial assistance is awarded for the Project.

Adopted at the City of Eagle Butte City Council meeting, Eagle Butte South Dakota, this 25th day of June, 2014.

This resolution is effective upon passage.

APPROVED:

Veryll LaPlante

Mayor
City of Eagle Butte

(Seal)

Attest: Sheila Gange, Finance Officer

PROCEEDINGS OF THE CITY COUNCIL
Eagle Butte, South Dakota
June 25, 2014

CALL TO ORDER
Pursuant to due call and notice thereof, a special meeting of the City Council of the City of Eagle Butte was held at the City Hall in Eagle Butte, South Dakota on Wednesday, June 25, 2014. Mayor LaPlante called the meeting to order at 6:00 P.M.

ROLL CALL
The following members were present: Mayor Verzella LaPlante and the following alderpersons: J. Shepherd, Mark Steffen, Tyson LaPlante, Tigger Joens and Dale Lesmeister. The following members were absent: James Traversie. Staff members present included Sheila J. Ganje, Finance Officer; Norman R. Schuler, Police Chief; R.J. Joens, Liquor Store Manager; and B. Jon Ganje, W/WW Superintendent. Others present: Trent Bruce-DeWild Grant Reckert Engineering, Marlene Knutson and Emeline Post-Central SD Enhancement District Ross DuBray, Editor-WRE, Kent Mouck-Heartland Waste Management Inc., Catherine Siegel and Nick Stockton-CRST, Dennis Neigel-Eagle Butte Community Club and Harley Morgan.

NEXT MEETING DATE
Council shall convene in regular session on July 7th, 2014 at 6:00 p.m.

ADOPTION OF AGENDA
Council reviewed the agenda as prepared by the Finance Officer and as given notice as per SDCL. Motion was made Steffen, second by Shepherd, all in favor and carried to adopt the agenda.

MEETING MINUTES
Motion was made Shepherd, second by Steffen, all in favor and carried to approve the June Regular (06/04/2014) Meeting Minutes as prepared by Sheila J. Ganje, Finance Officer.

FINANCE: Finance Officer Ganje reported on the following topics.

2012 Audit: The 2012 Audit has been completed by Donna Denker and Associates. Ms. Denker was present at the May Regular Meeting of City Council to provide a verbal report as well as review the written audit information. Denker noted that in 2012 there were no changes in accounting practices and there "is nothing to be concerned about at all". Denker reported that the most significant issue is the possession the stocks. Denker concluded by stating that there were "strong internal controls". The SD Department of Legislative Audit has since reviewed the 2012 Audit Report and suggested a couple minor changes in the report. The 2012 Audit Report will be issued by the SDDLA to the WRE for publication in the near future.

2013 Annual Report: Council did act to approve the 2013 Annual Report and issuance of said report as final to the SD Department of Legislative Audit. The final draft shall be issued by KTLLP to the WRE for publication of the 2013 Annual Report in the official newspaper.

2013 Audit: The SD Department of Legislative Audit has received a letter of approval for the completion of the 2013 Audit by Donna Denker & Associates. The Finance Officer did deliver the 2014-current files to KTLLP for audit purposes. The 2013 Audit has been initiated.

The Principal Financial Stock: The Finance Officer reported a copy of the executive resolution was issued with the letter of instruction for the purpose of the sale of said stock. The sale of these stocks has been completed as of June 6th, 2014 whereby a check was issued for the sale of these stocks in the amount of $118,326.68.

2014 KTLLP Engagement Letter: Motion was made Shepherd, second by Steffen, all in favor and carried to approve the 2014 KTLLP Engagement Letter to be executed by the Finance Officer as presented this evening by the Finance Officer.

March 2014 Compilation Report: Council noted the addition of the Finance Officer signatures on any and all journals recording actions by the accountants. Motion was made Shepherd, second by Steffen, all in favor and carried to approve the March 2014 Compilation Report.

Quarter 2 Budgetary Reports: The Finance Officer reported that Quarter 2 Budgetary Reports will be submitted at the July 2014 Regular Meeting of City Council.

Claims 06/25/2014: Motion was made by Steffen second by Joens, all in favor and carried to approve the June Claims (06/05/2014-06/25/2014) as follows:

CITY OF EAGLE BUTTE CLAIMS REPORT

JUNE
06/05/2014 - 06/25/2014

A&B BUSINESS CENTER			SUPPLIES	$ 1,734.14				
ADELL WHITE DOG			REFUND	$ 95.13				
AIRBORN CUSTOM SPRAYING			MOSQUITO	$ 1,500.00				
AT&T MOBILITY			UTILITIES	$ 461.85				
BANYON DATA SYSTEMS, INC			SOFTWARE	$ 790.00				
BENJAMIN GANJE			REIMBURSEMENT	$ 417.60				
BIEGLER EQUIPMENT			ART IN PARK	$ 750.00				
COCA COLA ENTERPRISES BOTTLING COMPANIES			RESALE/SUPPLIES	$ 790.20				
COMPETITIVE SOFTWARE			SOFTWARE	$ 500.00				
CRST REVENUE DEPARTMENT			LT	$ 11,158.80				
CRST TELEPHONE			UTILITIES	$ 859.34				
CWD			RESALE/SUPPLIES	$ 4,221.75				
D&R PROPANE			UTILITIES	$ 124.00				
DAKTRONICS			BASEBALL PARK	$ 775.00				
DF LIGHTING			SUPPLIES	$ 157.08				
DODGETOWN			VEHICLE R&M	$ 1,269.60				
DONNA DENKER & ASSOCIATES			AUDIT	$ 2,962.80				
EAGLE BUTTE COOPERATIVE			SUPPLIES	$ 2,414.14				
EAGLE STOP			SUPPLIES	$ 1,246.75				
FEDERAL SAFETY COMPLIANCE			SUPPLIES	$ 298.50				
FRANK GANJE TRUE VALUE			SUPPLIES	$ 255.62				
GTC			R/M	$ 1,130.61				
HAZEL RED BIRD			REFUND	$ 50.00				
HETTINGER-MOBRIDGE CANDY & TOBACCO INC.			LIQUOR RESALE	$ 2,481.28				
JEANNIE WALTERS			REFUND	$ 18.20				
JEROME BEVERAGE, INC			LIQUOR RESALE	$ 5,831.80				
JOHNSON BROS. WESTERN WHOLESALE			LIQUOR RESALE	$ 16,961.81				
KETEL THORSTENSON LLP			ACCT.	$ 5,626.90				
KT CONNECTIONS			SERVICES	$ 717.49				
LAKESIDE GOLF COURSE			REIMBURSEMENT	$ 50.00				
LTM			SUPPLIES	$ 490.92				
LONNY LAPLANTE			REIMBURSEMENT	$ 78.40				
LUMBER RANCH			SUPPLIES	$ 63.00				
MENARDS			SUPPLIES	$ 113.09				
METERING & TECHNOLOGY SOLUTIONS			SUPPLIES	$ 187.45				
MICHAEL WHALEN LAW OFFICES			LEGAL SV	$ 6,002.82				
MIDWEST TURF & IRRIGATION			SUPPLIES	$ 69.06				
MORRIS EQUIPMENT LLC			SUPPLIES	$ 3,022.65				
MUTH ELECTRIC INC			SERVICES	$ 3,717.89				
NORTHWEST BEVERAGE			LIQUOR RESALE	$ 27,264.40				
REPUBLIC BEVERAGE			LIQUOR RESALE	$ 5,513.57				
S&S ROADRUNNERS			LIQUOR RESALE	$ 263.48				
SANITATION PRODUCTS			SUPPLIES	$ 480.52				
SD DEPARTMENT OF ENVIRONMENT			FEES	$ 180.00				
SD ONE CALL			FEES	$ 28.86				
SDML			TRAINING	$ 350.00				
SERVALL			RENTAL/FEES	$ 505.02				
SHEILA GANJE			REFUND	$ 7.03				
SD PUBLIC ASSURANCE ALLIANCE			INSURANCE	$ 53,068.75				
T&K RENTAL			ART IN PARK	$ 2,500.00				
TODD HEIDEMAN			LABOR	$ 75.00				
TRI STATE WATER			SUPPLIES	$ 109.60				
UNIFORM & ACCESSORIES WAREHOUSE			PD SUPPLIES	$ 375.91				
UNITED STATES POSTAL SERVICE			SUPPLIES	$ 165.92				
USA BLUEBOOK			SUPPLIES	$ 853.16				
VILAS			SUPPLIES	$ 5.94				
WEST RIVER EAGLE			NEWSPAPER RESALE/ADV	$ 109.51	$ 171,252.34	CLAIMS CHECKS		
AFLAC				$ 332.06				
COLONIAL LIFE				$ 89.44				
DELTA DENTAL				$ 31.50				
LAKESIDE GOLF COURSE				$ 34.99				
SDDSS				$ 57.69				
SD RETIREMENT				$ 1,763.28				
WELMARK BLUECROSS BLUESHIELD OF SD				$ 638.69	$ 2,947.65	PR CLAIMS CHECKS		
PR	BW	6/13/2014		$ 7,368.59				
	BW	6/13/2014		$ 840.07				
	MO	6/1/2014		$ -	$ 8,208.66		$ 182,408.65	CHECK LISTING REPORT
ELEMENT PAYMENT SERVICES				$ 468.42				
SD DEPARTMENT OF REVENUE & REGULATION				$ 7,348.68				
USDA-RD				$ -	$ 7,817.10	CLAIMS ACH		
PAYROLL TAXES - ACH				$ 4,543.47				
CITY OF EAGLE BUTTE - DD				$ 5,870.39	$ 10,413.86		$ 18,230.96	ACH
				$ 200,639.61			$ 192,430.95	WARRANT VOUCHER REPORT

PERSONNEL

New Hire: The Finance Officer reported a new hire as hired by the Liquor Store Manager: Derick Straighthead as part-time liquor clerk at a rate of pay of $8.00 per hour. The following individuals have been hired to work as seasonal employees at $8.00 per hour: Kimmie LeCompte and Markus Knight. Markus Knight's employment has been terminated. The City will hire up to three additional individuals during the two weeks prior to Hometown Days.

Probationary Period Conclusions: The Finance Officer noted the conclusion of the probationary period as of July 2014 for the following employees: Jeannie Walters (W/S) and Callie Anderson (Liquor). The July Regular Meeting Agenda shall include discussion of any intended actions as a result of probationary period completion by these employees.

Training: Golf Course Supper Club employees did receive TAM training on June 3rd from R.J. Joens at the Lakeside Golf Course Club House. The City has yet to receive certification information as was to be issued by Mr. Joens.

The 2014 Elected Officials Workshop will be held on Wednesday, July 23, 2014. The following individuals have expressed interest in attending this training and will finalize commitment by the end of this week: Verzella LaPlante, Dale Lesmeister, Mark Steffen, Tyson LaPlante, Tigger Joens and Sheila J. Ganje. The fee for said training is $50 per person for which the City shall provide for all training cost associated with the training.

Leave: Chief Schuler will be on sick leave from June 23rd – July 4th due to surgery. The Finance Officer noted that James Traversie has been hospitalized for some time due to an accident and that she had planned to send flowers once he was out of intensive care. James Traversie is out of intensive care but the Finance Officer will issues a get well card with a check in the amount of $75 (the cost of flowers) instead given the circumstances.

Additional Pay: Motion was made Steffen, second by Joens, all in favor and carried to approve the request by the FO/Personnel Director as approved by the supervisor and recommended by the L&O Committee to pay Officer Lemke at his regular rate of pay for any hours in excess of his average hours per pay period (105) not to exceed 30 hours during Chief Schuler's unplanned absence given the short notice and inability to schedule to accommodate the absence. The additional pay is a one-time issuance based upon circumstances.

Police Department Schedule: Chief Schuler issued two schedules for police personnel for which one shall cover the period of Schuler's projected absence and the second shall be upon Officer Schuler's return until the end of July.

LEGALS/EXECUTIVE SESSIONS

Building Permit: Motion was made Shepherd, second by Joens, all in favor and carried to approve the building permit as submitted by First Baptist Church of Eagle Butte/Reverend Joseph Banjamin Farrar for the completion of roofing.

Public Hearing: A notice of public hearing was published in the WRE ten days in advance of the hearing as follows:

NOTICE OF PUBLIC HEARING(S)
for the
CITY OF EAGLE BUTTE WATER, WASTEWATER, AND STORM SEWER IMPROVEMENTS PROJECTS

The City of Eagle Butte is seeking up to $725,000 of additional funding from the Board of Water and Natural Resources in order to undertake water distribution system improvements. The funds could be either a grant from the state Consolidated Water Facilities Construction Program or a loan from the Drinking Water State Revolving Fund (DWSRF) Program. The expected Drinking Water SRF loan terms are 0% for 30 years, and the Board of Water and Natural Resources may forgive all or a portion of the loan principal. In addition, the City of Eagle Butte is seeking up to $2,600,000 from the Board of Water and Natural Resources for wastewater distribution and treatment system improvements, and up to $310,000 for Storm Sewer System Improvements. The funds could be either a grant from the state Consolidated Water Facilities Construction Program or a loan from the Clean Water State Revolving Fund (CWSRF) Program. The expected Clean Water SRF loan terms are 3.25% for up to 30 years, and the Board of Water and Natural Resources may forgive all or a portion of the loan principal. The amount and source of all funds will be determined by the Board of Water and Natural Resources when the applications are presented at a scheduled board meeting. The purpose of the public hearing is to discuss the proposed project, the proposed financing, and the source of repayment for the loan. The public is invited to attend and comment on the project.

The City of Eagle Butte may also submit an application to the State of South Dakota for a Community Development Block Grant in order to assist with the financing of sewer and storm system improvement projects. The City expects to apply for up to $515,000 from the CDBG Community Projects Account to be used for the proposed projects which will cost approximately $2,900,000. The purpose of the hearing is to receive comments regarding the application from members of the community and to assess the community development needs of the community, prioritize them, and identify the activities to be undertaken to meet the needs. The meeting is open to the public and interested persons are encouraged to attend. Disabled individuals wishing assistance should contact the City Finance Officer for information and/or special assistance-the request should be made 24 hours in advance of the meeting.

The public hearing will be held at City Hall, in Eagle Butte, SD, on June 25, 2014 at 6 p.m. MST

It was noted that there were seventeen individuals present for the public hearing.

This being the time and place for the public hearing for the proposed water and sewer projects were discussed.The project involves the rehabilitation/repair of construction of a water distribution improvements in various locations throughout the city including Sycamore Street, Highway 212 and Bringman Street, Main Street, etc. The project is being undertaken to replace asbestos cement lines and conditions due to the age, plus improve operations due to looping, etc. The city went to bids earlier in the year, but no bid was received. It has been determined that an additional $725,000 of funds from SDDENR is needed along with the existing $1,100,000 already available from SDDENR. The alternative to the project is to do nothing. If all of the $725,000 is received at 0% for 30 years, the surcharge will be approximately $2.20/user/month. Depending on the final financial package this may be in addition to the existing water rates.

The sanitary and storm sewer improvements were reviewed and involves work at the lagoon system including installation of an aeration system, dredging of the pond(s), control structures and other necessary appurtenances, collection system repair/replacement and extension with necessary appurtenances due to the condition of the system including storm sewer installation as needed to preventing flooding and ponding of water. The areas for improvements are located throughout the city, including Sycamore Street, Highway 212 and Bringman Street, Shupick Park, Prairie Road, Willow Street/Pioneer Ave, Main Street, etc. The alternative to the project is to do nothing. The project is expected to cost $2,910,000 and if all is received as a 30 year note at 3.2% from SDDENR it will result in a $13.88 surcharge/user/month, plus the existing rate. Various loan amounts were discussed and what it would do to the surcharge. However rates will be reviewed based upon the final financing package received.

The revenue source for repayment of loans to SDDENR will be surcharges for both the water and wastewater/storm sewer project in order that the debt not go against the city's legal debt limit.

The Community Development Block Grant program was reviewed as it related to applying for $515,000 for the wastewater/storm sewer project. A Community Development and Housing Needs Plan was developed and adopted with projects being identified and why needed, prioritized and implementation strategies for each discussed. Projects in priority order include: water, wastewater/storm sewer, street and lighting improvements, liquor store improvements, and recreation improvements. The plan is available at city hall for viewing.

Motion was made by Steffen second by Shepherd, all in favor and carried to approve the following resolutions:

RESOLUTION NO. 2014-06

RESOLUTION AUTHORIZING AN APPLICATION FOR FINANCIAL ASSISTANCE, AUTHORIZING THE EXECUTION AND SUBMITTAL OF THE APPLICATION, AND DESIGNATING AN AUTHORIZED REPRESENTATIVE TO CERTIFY AND SIGN PAYMENT REQUESTS.

WHEREAS, the City of Eagle Butte has determined it is necessary to proceed with improvements to its Water System, including but not limited to the replacement and extension of water mains and necessary appurtenances throughout the city;

WHEREAS, the City has determined that financial assistance will be necessary to undertake the Project and an application for financial assistance to the South Dakota Board of Water and Natural Resources (the "Board") will be prepared; and

WHEREAS, it is necessary to designate an authorized representative to execute and submit the Application on behalf of the City and to certify and sign payment requests in the event financial assistance is awarded for the Project.

NOW THEREFORE BE IT RESOLVED by the City as follows:

1. The City hereby approves the submission of an Application for financial assistance in an amount not to exceed $725,000 to the South Dakota Board of Water and Natural Resources for the Project.

2. The mayor and/or city finance officer is hereby authorized to execute the Application and submit it to the South Dakota Board of Water and Natural Resources, and to execute and deliver such other documents and perform all acts necessary to effectuate the Application for financial assistance.

3. The mayor and/or city finance officer is hereby designated as the authorized representative of the City to do all things on its behalf to certify and sign payment requests in the event financial assistance is awarded for the Project.

Adopted at the City of Eagle Butte City Council meeting, Eagle Butte South Dakota, this 25th day of June, 2014.

This resolution is effective upon passage.

APPROVED:

Vergell LaPlante

Mayor
City of Eagle Butte

(Seal)

Attest: Sheila Ganje, Finance Officer

RESOLUTION NO. 2014-07

RESOLUTION AUTHORIZING AN APPLICATION FOR FINANCIAL ASSISTANCE, AUTHORIZING THE EXECUTION AND SUBMITTAL OF THE APPLICATION, AND DESIGNATING AN AUTHORIZED REPRESENTATIVE TO CERTIFY AND SIGN PAYMENT REQUESTS.

WHEREAS, the City of Eagle Butte has determined it is necessary to proceed with improvements to its Waste Water and Storm Sewer Systems, including, but not limited to, replacing an existing lift station, plus install aeration system and undertaking other improvements related to the existing lagoon system; replace and extend collection system lines, as well as install storm sewers at various locations throughout the city, plus necessary appurtenances related to said project.

WHEREAS, the City has determined that financial assistance will be necessary to undertake the Project and an application for financial assistance to the South Dakota Board of Water and Natural Resources (the "Board") will be prepared; and

WHEREAS, it is necessary to designate an authorized representative to execute and submit the Application on behalf of the City and to certify and sign payment requests in the event financial assistance is awarded for the Project,

NOW THEREFORE BE IT RESOLVED by the City as follows:

1. The City hereby approves the submission of an Application for financial assistance in an amount not to exceed $2,910,000 to the South Dakota Board of Water and Natural Resources for the Project.

2. The Mayor and or the City Finance officer of Eagle Butte is hereby authorized to execute the Application and submit said to the South Dakota Board of Water and Natural Resources, and to execute and deliver such other documents and perform all acts necessary to effectuate the Application for financial assistance.

3. The Mayor or City Finance officer of Eagle Butte is hereby designated as the authorized representative of the City to do all things on its behalf to certify and sign payment requests in the event financial assistance is awarded for the Project.

Adopted at the Eagle Butte City Council Meeting, Eagle Butte, South Dakota, this 25th day of June, 2014. This resolution is effective upon passage.

APPROVED:

Verzella LaPlante
Mayor
City of Eagle Butte

(Seal)

Attest: Sheila Ganje, City Finance Officer

RESOLUTION #2014-08

WHEREAS, the City of Eagle Butte has identified the need for a sanitary sewer and storm sewer systems project;

WHEREAS, the City of Eagle Butte proposes to upgrade the lagoon system and replace and extend sanitary sewer lines and construct a lift station, plus make storm sewer improvements and related appurtenances to the systems at various locations throughout the city; and

WHEREAS, the City of Eagle Butte is eligible for Federal assistance for the proposed project, and

WHEREAS, the City of Eagle Butte has held the required public hearing on Wednesday, June 25, 2014, at 6:00 p.m., and

WHEREAS, with the submission of the CDBG application the City of Eagle Butte assures and certifies that all CDBG program requirements will be fulfilled,

THEREFORE, BE IT RESOLVED that the City of Eagle Butte duly authorizes the Mayor of Eagle Butte to sign and submit the CDBG application requesting up to $515,000 of funds.

This resolution is effective immediately upon passage.

Adopted this 25th day of, June, 2014.

Verzella LaPlante
Verzella LaPlante, Mayor
City of Eagle Butte, South Dakota

ATTEST: Sheila Ganje, Finance Officer

RESOLUTION #2014-09

WHEREAS, the City of Eagle Butte expects to be the recipient of a Community Development Block Grant from the US Department of Housing and Urban Development as administered by the State of South Dakota to undertake a wastewater/storm sewer improvemenets project; and

WHEREAS, the City of Eagle Butte is required to designate a certifying officer for the purpose of signing required documents pertaining to this grant;

NOW, THEREFORE BE IT RESOLVED, that the Mayor or City Finance Officer of the City of Eagle Butte, be hereby designated as the city official for the purpose of signing the CDBG grant agreements, contracts, correspondence, pay requests, and other required documents; and

WHEREAS, the City of Eagle Butte is required to designate an environmental certifying officer for the purpose of signing required environmental documents pertaining to this grant;

NOW, THEREFORE, BE IT RESOLVED, that the City Finance Officer of the City of Eagle Butte, be hereby designated as the city's environmental certifying officer for the purpose of signing environmental correspondence and other required documents and forms.

This resolution is effective upon passage.

Dated this 25th day of June, 2014.

By: Verzella LaPlante

Verzella LaPLante, Mayor
City of Eagle Butte

Attest: Sheila Gauje

Sheila Gauje, Finance Officer
City of Eagle Butte

Affidavit of Publication

NOTICE OF PUBLIC HEARING(S) for the City of Eagle Butte Water, Waste Water, and Storm Sewer Improvements Projects

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The public hearing will be held at City Hall, in Eagle Butte, SD, on June 25, 2014 at 6 p.m. MST

Published one time at the total approximate cost of $26.26.
-061214

STATE OF SOUTH DAKOTA,
COUNTY OF DEWEY, ss.

I, Franklin Gross, being first duly sworn, on oath says, that he is the bookkeeper of the WEST RIVER EAGLE, a weekly newspaper published in Eagle Butte, County of Dewey, and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies weekly, and has been published within said county for fifty-two successive weeks next prior to the publication of the notice herein mentioned; that the

NOTICE OF PUBLIC HEARING(S) for the City of Eagle Butte Water, Waste Water and Storm Sewer

City of Eagle Butte

a printed copy of which, taken from the paper in which same was published, is attached to this sheet, and is made a part of this Affidavit, was published in said newspaper at least once each week for one successive weeks, on the day of each week on which said newspaper was regularly published to-wit:

June 12th, 2014

That the full amount of the fees for the publication of the annexed notice is $26.26

Subscribed and sworn to before me this 30th day of June, 2014

Kelsey Majeske, Notary Public
State of South Dakota
My commission expires September 17th, 2018

KELSEY MAJESKE
SEAL NOTARY PUBLIC SEAL
SOUTH DAKOTA

YOUR RIGHT TO KNOW

Regular meeting May 12 of the Eagle Butte School Dist. 20-1

Eagle Butte School District 20-1
Regular Meeting of the Board
of Education
Upper Elementary Library,
Eagle Butte, SD
Monday, May 12, 2014

The regular meeting of the Eagle Butte School District 20-1 was called to order on May 12, 2014 at 5:31 pm by Chairperson Charles Shupick. Members present: Donita Fischer, Tina Neigel, Kirby Peterson, Sammi Ducheneaux (in at 5:35pm). Members absent: Holly Annis and Wayne Ducheneaux II. Administration present: Carol Veit and Keith Watt. Others in attendance: Cora Petersen, Donald and Kimberly McDaniel, Jill Brehmer-Marshall, and Phoebe Lemke. All listed motions were passed by a unanimous vote unless otherwise stated.

OFFICIAL BUSINESS

063-14 Motion by T. Neigel, second by D. Fischer to adopt the agenda with the freedom to move within.

064-14 Motion by T. Neigel, second by D. Fischer to approve the minutes from the regular meeting on April 14, 2014 with corrections of spelling (LeCompte) and meeting report given by J. Cook v. M. Benoist.

065-14 Motion by T. Neigel, second by K. Peterson to approve the minutes from the special meetings on April 22, 28, and 30, 2014.

Public Comments – None

066-14 Motion by D. Fischer, second by S. Ducheneaux to accept the financial reports as submitted.

067-14 Motion by S. Ducheneaux, second by K. Peterson to approve the expenditure report as submitted. Payables for May: General Fund – $1(5,805.83 / Capital Outlay Fund – $11,737.46 / Special Education Fund – $25,487.13. Total payables for May – $153,030.42.

Executive Session

068-14 Motion by T. Neigel, second by S. Ducheneaux to enter executive session at 5:50pm for legal issues.

Board declared out of executive session at 6:03pm. Action taken on Boundary Changes tabled until phone call from attorney (call received at 6:19pm).

Preliminary Budget 2014-2015 – Discussion only.

ASBSD Protective Trust Worker's Comp Fund

069-14 Motion by D. Fischer, second by K. Peterson to approve the participation and renewal in the ASBSD Protective Trust Worker's Comp Fund.

Attendance Policies – Discussed and Tabled to Coop. Mtg.

Bleacher Discussion -Discussed and Tabled to Coop. Mtg.

PERSONNEL

Leave Donation - Administration

070-14 Motion by T. Neigel, second by D. Fischer to approve up to 3 days of donated sick leave only for administrative personnel.

Out of State Travel Request – Not needed.

Resignation – Not needed.

Executive Session

071-14 Motion by T. Neigel, second by D. Fischer to enter executive session at 6:19pm for personnel issues.

Board declared out of executive session at 6:33pm. No action taken.

Awareness Items – Information only.

20-1 Board recessed at 6:35pm.

C-EB Cooperative Board

The Cheyenne-Eagle Butte Cooperative Board meeting was called to order by Chairperson Sammi Ducheneaux at 7:03pm with the following members present: Charles Shupick, Kirby Peterson (in at 7:08pm), Rhea LeCompte, Jay Cook, Tina Neigel, Jay Cook, Donita Fischer, Codi High Elk, Marc Benoist, and Carla Veaux. Member absent: Robert Chasing Hawk, Holly Annis, Wayne Ducheneaux II, Michelle Fischer. Administration present: Dr. Kathy Bowker, Carol Veit and Keith Watt. Others in attendance: Larry Keller, Larry Mendoza, Timmie Williams. All listed motions were passed by a unanimous vote unless otherwise stated.

072-14 Motion by C. Shupick, second by T. Neigel to approve the agenda.

073-14 Motion by C. Shupick, second by T. Neigel to approve the minutes from the regular meeting on April 22, 2014 with the corrections of Jay Cook giving the Coop. meeting report and motion 057-14 will clarify that handbooks were to be emailed to the policy committee members.

074-14 Motion by C. Shupick, second by T. Neigel to approve the minutes from special meetings on April 16 and 17, 2014 with the correction of R. LeCompte name spelling in the adjournment motion. Vote: 9 in favor, 1 abstain (C. Veaux), motion carried.

Meeting Reports – 95-561 report was given by M. Benoist, 20-1 report was given by C. Shupick.

Student Reports – None.

Public Comments – Concerns were voiced over the communication of events from the Jr. High Area.

SDHSAA Participation

075-14 Motion by C. Shupick, second by C. Veaux to approve the participation in SDHSAA.

SDHSAA Ballots

076-14 Motion by C. Shupick, second by C. Veaux to vote no on Amend. #1.

077-14 Motion by C. Shupick, second by C. High Elk to vote yes on Amend. #2.

078-14 Motion by C. Shupick, second by T. Neigel to vote yes on Amend. #3.

079-14 Motion by C. Shupick, second by K. Peterson to vote yes on Amend. #4.

080-14 Motion by C. Shupick, second by D. Fischer to vote no on proposed Amend. #5.

Advanced Ed/State Accreditation Report – Information only.

Attendance Policies – Discussion only.

Bleacher Discussion

081-14 Motion by R. LeCompte, second by C. High Elk that Dr. Bowker direct Larry Mendoza to pursue upgrading the football field and renovation of football field complex.

Handbook Format – Discussion only.

Student Hearing Process – Discussion only.

Executive Session – Not needed.

FUNDS AND FACILITIES

Awareness Items – Public Forum for Indian Policy and Procedures, Impact Aid, Title VII, and IOM will be held May 21, 2014 at 5:00pm in the Upper Elem. PDR.

Adjournment

082-14 Motion by D. Fischer, second by C. Shupick for the Coop. Bd. to adjourn at 8:40pm.

20-1 Board reconvened at 8:40pm.

083-14 Motion by S. Ducheneaux, second by D. Fischer for the 20-1 Bd. to adjourn at 8:41pm.

/s/ Keith Watt
Business Manager
Eagle Butte School District 20-1
05/2014 Payables

Fund: 10 GENERAL FUND

AMSTERDAM PRINTING Date Planners 1,369.59; APPLEBEES Jr. Class College Tour/Gear Up 302.05; ASB WORKER'S COMP. FUND DWC Renewal/14-15 23,819.00; AT&T MOBILITY Monthly Service 54.72; BJ'S INSTRUMENT REPAIR Instrument Rpr.(6)/CF 370.00; BLACK HILLS RAPTOR CENTER Raptor Prog. Fee 425.00;

C-EB STUDENT ACTIVITY FUND JH Asst. Track Coach 1,425.00; C-EB STUDENT ACTIVITY FUND Lakota Lang. Speakers 550.00; C-EB STUDENT ACTIVITY FUND Lakota Lang. Speakers 750.00; C-EB STUDENT ACTIVITY FUND Handgame Sticks & Drum 300.00; C-EB STUDENT ACTIVITY FUND Lakota Speaker 125.00; C-EB STUDENT ACTIVITY FUND Speakers/ NA Week 500.00; C-EB STUDENT ACTIVITY FUND Necklaces/ School Wacipi 405.00; C-EB STUDENT ACTIVITY FUND State BB Mileage/Lodging 793.83; C-EB STUDENT ACTIVITY FUND Golf Meals 355.00; C-EB STUDENT ACTIVITY FUND Sr/Jr field Trip Expenses/Gear Up 217.01; C-EB STUDENT ACTIVITY FUND Meals/Wrestling 2,188.00;

CDW GOVERNMENT, INC. DVD Player/AB 92.99; CDW GOVERNMENT, INC. Brackets/KI 5.58; CDW GOVERNMENT, INC. Power Cord/CV 74.00; CDW GOVERNMENT, INC. Toner/3-6 Offices 2,590.44; CENTURY BUSINESS PRODUCTS Copier/Staples 96.50; CENTURY BUSINESS PRODUCTS Monthly Service/Color TII 1,077.78; CEV Agri Science/VoAg/Carl Perkins 3,900.00; COLE PAPERS Kitchen Supplies 263.16; COLE PAPERS Paper 2,304.00; COLE PAPERS Rpr. Floor Sweeper 124.50; COLLEGE HORIZENS, INC. Tuition & Airfare/College Access 848.00; COLLEGE HORIZENS, INC. Tuition & Airfare/College Access 898.00; CRST TELEPHONE AUTHORITY Monthly Service 557.52;

D & R PROPANE Propane 2,022.14; DAKOTA BUS SERVICE INC. Jr. Class College Tour/Gear Up 2,500.00; DAKOTA SILK SCREEN Golf Uniforms 361.00; DAYS INN OF MITCHELL Lodging/Golf 144.00; DEPOY, DARLA ISSD Mtg./Mileage 69.56; DSU DINING SERVICES-ARAMARK Jr. College Tour/Meals/Gear Up 168.00; DUCHENEAUX, LISA Tutoring Services 3,700.00; EAGLE BUTTE COOP Kitchen Supplies 2,986.98; EAGLE BUTTE WATER DEPARTMENT Monthly Service 711.70; EBSCO SUBSCRIPTIONS Lib. Mag. Subs./UE 584.30; ENGEL MUSIC SUPPLY Piano Supplies/21st Century 90.82;

FAIRFIELD INN Jr. Class College Tour/Gear Up 520.00; FISCUS, CHRIS Rgn. Music Mtg./Mileage 61.42; FRANK GANJE HARDWARE Supplies/Maint. 196.47; G & R CONTROLS Service Agreement 3,129.00; GRUNEWALDT, JOYCE Close Up Travel/JG 50.00; GTC AUTO PARTS INC Maint. Supplies 178.99; HARVEY'S LOCK SHOP Door Parts 152.94; HEDLEBAUGH, WESLEY TIE Conf./Travel 312.92; HONEYWELL Qtrly. Service Agreement 5,985.59; JANITOR'S CLOSET Kitchen Supplies 248.49; JOENS, KENT TIE Conf. Travel/KJ 285.84;

KARL'S - PIERRE Stoves/Apt. 13 & Reserve 859.92; KESSLER, JILL ACT Reg. Fees/Reimb. 60.84; KESSLER, JILL Site Coor. Stipend/Gear Up 1,000.00; KESSLER, JILL Spring Stipend/College Access 250.00; KNIGHT, CONNIE CRST TI Supplies 850.85; LAKOTA THRIFTY MART FACS Supplies 814.76; LODGE AT DEADWOOD, THE Prof. Dev./Lodging-AB 218.84; LUMBER RANCH Maint. Supplies 41.10;

MARK'S Plumbing Supplies 518.39; MATHESON TRI-GAS INC Welders(3)/Carl Perkins 6,472.71; MATHESON TRI-GAS INC Welding Supplies 611.22; MCI WORLDCOM Monthly Service 84.38; MCLELLAN, PEGGY TIE Conf. Travel/PM 289.84; MIDAMERICA BOOKS Library Titles/UE-PM 848.00; MOREAU GRAND ELECTRIC Monthly Service 6,239.27; NASSP NHS Fees/HS-DP 85.00; NORTHWEST AREA SCHOOLS Spelling Bee/Academic Fee 345.00;

OFFICE & TECHNOLOGY Certificates/JH 204.08; OGLALA LAKOTA COLLEGE Tuition/Prof. Dev. 706.00; PAYNE HERITAGE AGENCY Bond Premium 300.00; PEACOCK, MARK Title Mtg./Travel 151.19; POSITIVE PROMOTIONS Tchr. Appreciation Supplies 1,903.09; READ RIGHT SYSTEMS, INC. Tutor Recertification 8,800.00; SERVALL UNIFORM/LINEN CO. Monthly Service 1,362.05; SEVEN FIRES BUSINESS SOLUTIONS Supplies/BC-VB619.00; SEVEN FIRES BUSINESS SOLUTIONS Supplies/CV 242.73; SMALL ENGINE HOUSE LLC Mower Deck Rprs. 682.60; SOFTWARE UNLIMITED, INC. Acct. Software Maint. 4,075.00; SOUTH DAKOTA TEACHER IOB FAIR Tchr. Fair Reg./CV 175.00; SUPER 8 SIOUX FALLS Tchr. Job Fair/Lodging-CV 67.69;

TCHS SICANTU LAKOTA CLUB Handgames Tournament 100.00; TIE COMPANY TIE Conf. Reg. 50.00; TROPHY DEPOT Archery Awards/5-6 75.83; TWILIGHT FIRST AID & SAFETY SUPPLY Restock First Aid Kits 414.90; TWILIGHT FIRST AID & SAFETY SUPPLY Kitchen Supplies 49.00; UPS Rtn. Dental Supplies 42.51; VEIT, CAROL SF Tcher. Fair/Travel 262.84; VEIT, CAROL BHSU Tchr. Fair/Travel 129.48; VEIT, CAROL ISSD Mtg./Travel 66.60;

WAL-MART COMMUNITY CRST TI Supplies 2,631.14; WATT, KEITH Accreditation Team Meal 55.00; WATT, KEITH Golf Travel/LES 67.88; WELLMARK BLUE CROSS BLUESHEILD Health Ins./DW 1,152.11; WEST RIVER EAGLE Legals/Minutes 429.21; WEYAND, CORRINE Prof. Dev./Mileage 41.40; WILLISON, DENISE Supplies/21st Cent. 84.52.

Fund Total: 115,805.83

Fund: 21 CAPITAL OUTLAY

COLE PAPERS Custodial Supplies 142.20; COLE PAPERS Custodian Supplies 1,417.07; CURRENT ELECTRIC Electric Work/Kitchen Lights 3,754.43; MID-AMERICAN RESEARCH CHEMICAL Gym Floor Refinishing Supplies 1,298.54; MID-AMERICAN RESEARCH CHEMICAL Gym Floor Refinishing 4,825.22.

Fund Total: 11,737.46

Fund: 22 SPECIAL EDUCATION FUND

AMERICAN INDIAN INSTITUTE FOR INNOVATION Psych. Services 9,750.00; AZURE, JANE IEP Trog./JA 136.80; BEHAVIOR CARE SPECIALIST, INC. Residential Tuition 9,785.00; BEST WESTERN RAMKOTA INN Autism Travel 223.98; CHILDREN'S HOME SOCIETY Residential Tuition 1,547.36; OUR HOME, INC. Educational Tuition 414.19; RHODD, JUANITA Psych. Testing 3,630.00.

Fund Total: 25,487.13

Checking Account Total: 153,030.42

Eagle Butte School District 20-1
Revenue Report by Fund
04/30/2014

Fund: 10 GENERAL FUND

Dewey County Treasurer - Ad Valorem Taxes	13,491.22
Ziebach County Treasurer - Ad Valorem Taxes	504.34
Dewey County Treasurer - Penalties & Interest on Taxes	0.12
State Bank of Eagle Butte - MMSA Interest – April	2.05
Dewey County Treasurer - County Apportionment	565.23
State of South Dakota - State Aid – General	117,661.00
Fund Total:	132,223.96

Fund: 22 SPECIAL EDUCATION FUND

Dewey County Treasurer - Ad Valorem Taxes	7,727.18
Ziebach County Treasurer – Ad Valorem Taxes	194.75
Dewey County Treasurer - Penalties & Interest on Taxes	0.07
State Bank of Eagle Butte - Interest on CD# 5240	436.09
State Bank of Eagle Butte - Interest on CD# 5158	199.95
State of South Dakota – State Aid – Sp Ed	20,166.00
Fund Total:	28,724.04

Fund: 27 AGENCY FUND IMPACT AID

State Bank of Eagle Butte - MMSA Interest – April	20.73
Fund Total:	20.73

Summary Totals

10	101	132,221.91
	105	2.05
22	101	28,724.04
27	105	20.73
Total:		160,968.73

Published one time at the total approximate cost of $135.68. -061214

Eagle Butte School District 20-1
Cash Flow Report 04/30/2014

Account Number	Account Description	Cash Flow Beginning Cash	Cash Flow Revenues	Cash Flow Expenses	Cash Flow Payables Change	Cash Flow Ending Cash
10	GENERAL FUND	$497,558.62	$131,859.39	($433,484.73)	$0.00	$195,933.28
21	CAPITAL OUTLAY	($96,238.61)	$0.00	($4,083.53)	$0.00	($100,322.14)
22	SPECIAL EDUCATION FUND	$376,260.26	$28,724.04	($112,800.66)	$0.00	$292,183.64
27	AGENCY FUND IMPACT AID	$4,304,901.65	$20.73	$0.00	$0.00	$4,304,922.38
Grand Total:		$5,082,481.92	$160,604.16	($550,368.92)	$0.00	$4,692,717.16

NOTICE OF PUBLIC HEARING(S) for the City of Eagle Butte Water, Waste Water, and Storm Sewer Improvements Projects

The City of Eagle Butte is seeking up to $725,000 of additional funding from the Board of Water and Natural Resources in order to undertake water distribution system improvements. The funds could be either a grant from the State Consolidated Water Facilities Construction Program or a loan from the Drinking Water State Revolving Fund (DWSRF) Program. The expected Drinking Water SRF loan terms are 0% for 30 years, and the Board of Water and Natural Resources may forgive all or a portion of the loan principal. In addition, the City of Eagle Butte is seeking up to $2,600,000 from the Board of Water and Natural Resources for wastewater distribution and treatment system improvements, and up to $310,000 for Storm Sewer System Improvements. The funds could be either a grant from the state Consolidated Water Facilities Construction Program or a loan from the Clean Water State Revolving Fund (CWSRF) Program. The expected Clean Water SRF loan terms are 3.25% for up to 30 years, and the Board of Water and Natural Resources may forgive all or a portion of the loan principal. The amount and source of all funds will be determined by the Board of Water and Natural Resources when the applications are presented at a scheduled board meeting. The purpose of the public hearing is to discuss the proposed project, the proposed financing, and the source of repayment for the loan. The public is invited to attend and comment on the project.

The City of Eagle Butte may also submit an application to the State of South Dakota for a Community Development Block Grant in order to assist with the financing of sewer and storm system improvement projects. The City expects to apply for up to $515,000 from the CDBG Community Projects Account to be used for the proposed projects which will cost approximately $2,900,000. The purpose of the hearing is to receive comments regarding the application from members of the community and to assess the community development needs of the community, prioritize them, and identify the activities to be undertaken to meet the needs. The meeting is open to the public and interested persons are encouraged to attend. Disabled individuals wishing assistance should contact the City Finance Officer for information and/or special assistance-the request should be made 24 hours in advance of the meeting.

The public hearing will be held at City Hall, in Eagle Butte, SD, on June 25, 2014 at 6 p.m. MST

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Special meeting May 20th of Eagle Butte School Board

EAGLE BUTTE SCHOOL
DISTRICT 20-1
Special Meeting of the
Board of Education
Upper Elementary (Rm. 203).
Eagle Butte, SD
Tuesday, May 20, 2014@5:30 PM
Meeting called to order by
Charles Shupick at 5:34 p.m.
Roll Call:
Charles Shupick, President P
Donita Fischer, Vice President P
Holly Annis P
Wayne Ducheneaux, II A
Tina Neigel P
Kirby Peterson P
Sammi Ducheneaux P
Staff in Attendance:
Keith Watt, Business Manager P
Carol Veit, Superintendent P
Others: J. Brehmer, P. Lemke,
K. McDaniel, R. Depoy, D. McDaniel,
E. Bogue

I. OFFICIAL BUSINESS

1. ADOPTION OF THE AGENDA (with freedom to move within the agenda.)

Motion by D. Fischer, second by T. Neigel to adopt the agenda with freedom to move within. Vote: All present in favor.

2. Executive Session (Personnel/Legal/Student)

Motion by D. Fischer, second by H. Annis to enter executive session for legal

In: 5:35 pm, Out: 6:03: pm. With the following action taken.

Motion by K. Peterson, second by S. Ducheneaux to approve of the School District boundary change between the Dupree and Eagle Butte School Districts.

Vote: All present in favor.

3. Staffing – Computer Tech Position

Motion by H. Annis, second by K. Peterson to approve a contract for Kent Joens as a Computer Tech Administrator. Vote: 4 for, 2 abstain (S. Ducheneaux, D. Fischer), motion carries.

4. Executive Session (Personnel/Legal/Student)

Motion by T. Neigel, second by D. Fischer to enter executive session for personnel discussion. Vote: All present in favor.

In: 6:12 pm, Out: 6:23 pm, with no action taken.

5. Adjournment

Motion by T. Neigel, second by D. Fischer to adjourn at 6:24pm. Vote: All present in favor.

/s/ Keith Watt
Business Manager

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CHOICES

Human Services Program Specialist II
Pierre, SD

The SD Department of Human Services, Division of Developmental Disabilities, is looking for an individual to be responsible for developing and administering human service programs to include determining eligibility for services, approving level of care and funding requests, conducting reviews to ensure compliance with state and federal rules and regulations, and providing training and technical assistance. This position works directly with Community Support Providers and an Intermediate Care Facility to ensure the health, safety and welfare of program participants. Bachelor's degree preferred. Minimum salary $1800.69 semimonthly. DOE. Closes 6/30/14. For more information and to apply, please go to http://bhr.sd.gov/workforce, and reference Job ID #3329. An Equal Opportunity Employer.

Job Opening
for a Truck Driver/ Mill Operator

Applicant must have:
- CDL
- Agricultural Background is Prefered
- Be willing and able to pass a drug test upon hiring
- No Fear of Heights
- Be able to lift at least 50lbs
- Salary will depend on experience

Duties include delivering feed to ranches, operating the feed mill, maintenance and upkeep of trucks and mill, operating the point of sale (till), work with customers, and other various duties as assigned

Closing date for applications is 6/27/14
Start date 7/14/15

Applications can be picked up at the Eagle Butte Co-op Feed Store
For more information contact Boyd Stambach at 964-2225

City of Eagle Butte Utility Office

(605) 964-8784

Minimum Bill:

$30.00 Water + $22.00 Sewer = $52.00

Beginning June 1, 2012

(for May 2012 consumption)

The rate charge for the City of Eagle Butte Water Department shall be as follows:

Gals.	Total	Gals.	Total
4,000	$30.00	16,000	$106.20
5,000	$36.35	17,000	$112.55
6,000	$42.70	18,000	$118.90
7,000	$49.05	19,000	$125.25
8,000	$55.40	20,000	$131.60
9,000	$61.75	21,000	$137.95
10,000	$68.10	22,000	$144.30
11,000	$74.45	23,000	$150.65
12,000	$80.80	24,000	$157.00
13,000	$87.15	25,000	$163.35
14,000	$93.50	26,000	$169.70
15,000	$99.85	27,000	$176.05

RATES PER UNIT:

1,000 - 4,000 gallons (minimum) ...$30.00
over 4,000 gallons at $6.35 per thousand

The rate charge for the City of Eagle Butte Sewer Department shall be as follows ... $22.00 per unit

City of Eagle Butte Utility Office

(605) 964-8784

Minimum Bill:

$30.00 Water + $19.00 Sewer = $49.00

Beginning January 1, 2012

(for December 2011 consumption)

The rate charge for the City of Eagle Butte Water Department shall be as follows:

Gals.	Total	Gals.	Total
4,000	$30.00	16,000	$106.20
5,000	$36.35	17,000	$112.55
6,000	$42.70	18,000	$118.90
7,000	$49.05	19,000	$125.25
8,000	$55.40	20,000	$131.60
9,000	$61.75	21,000	$137.95
10,000	$68.10	22,000	$144.30
11,000	$74.45	23,000	$150.65
12,000	$80.80	24,000	$157.00
13,000	$87.15	25,000	$163.35
14,000	$93.50	26,000	$169.70
15,000	$99.85	27,000	$176.05

RATES PER UNIT:

1,000 - 4,000 gallons (minimum) ...$30.00
over 4,000 gallons at $6.35 per thousand

The rate charge for the City of Eagle Butte Sewer Department shall be as follows ... $19.00 per unit

Sewer

Loan Amortization Calculator

Almost any data field on this form may be calculated. Enter the appropriate numbers in each slot, leaving blank (or zero) the value that you wish to determine, and then click "Calculate" to update the page.

3.25% 30 years

1005 units

Principal	Payments per Year
2910000.00	4

Annual Interest Rate	Number of Regular Payments
3.2500	120

Balloon Payment	Payment Amount
	38054.14

x 4 = 152,216.56
15,221.66
167,438.21 ÷ 12
13,953.18 ÷ 1206 units
$11.57 / month sewer

☑ Show Amortization Schedule

Calculate

This loan calculator is written and maintained by Bret Whissel.
See Bret's Blog for help, a spreadsheet, derivations, calculator news, and more information.

Summary

Principal borrowed:	$2,910,000.00	**Annual Payments:**	4
Regular Payment amount:	$38,054.14	**Total Payments:**	120 (30.00 years)
Final Balloon Payment:	$0.00	**Annual interest rate:**	3.25%
Interest-only payment:	$23,643.75	**Periodic interest rate:**	0.8125%
***Total Repaid:**	$4,566,496.80	**Debt Service Constant:**	5.2308%
***Total Interest Paid:**	$1,656,496.80	***Total interest paid as a percentage of Principal:**	56.924%

**These results are estimates which do not account for accumulated error of payments being rounded to the nearest cent. See the amortization schedule for more accurate values.*

Pmt	Principal	Interest	Cum Prin	Cum Int	Prin Bal
1	14,410.39	23,643.75	14,410.39	23,643.75	2,895,589.61
2	14,527.47	23,526.67	28,937.86	47,170.42	2,881,062.14
3	14,645.51	23,408.63	43,583.37	70,579.05	2,866,416.63
4	14,764.50	23,289.64	58,347.87	93,868.69	2,851,652.13
5	14,884.47	23,169.67	73,232.34	117,038.36	2,836,767.66
6	15,005.40	23,048.74	88,237.74	140,087.10	2,821,762.26
7	15,127.32	22,926.82	103,365.06	163,013.92	2,806,634.94
8	15,250.23	22,803.91	118,615.29	185,817.83	2,791,384.71
9	15,374.14	22,680.00	133,989.43	208,497.83	2,776,010.57
10	15,499.05	22,555.09	149,488.48	231,052.92	2,760,511.52
11	15,624.98	22,429.16	165,113.46	253,482.08	2,744,886.54
12	15,751.94	22,302.20	180,865.40	275,784.28	2,729,134.60
13	15,879.92	22,174.22	196,745.32	297,958.50	2,713,254.68
14	16,008.95	22,045.19	212,754.27	320,003.69	2,697,245.73
15	16,139.02	21,915.12	228,893.29	341,918.81	2,681,106.71
16	16,270.15	21,783.99	245,163.44	363,702.80	2,664,836.56
17	16,402.34	21,651.80	261,565.78	385,354.60	2,648,434.22
18	16,535.61	21,518.53	278,101.39	406,873.13	2,631,898.61
19	16,669.96	21,384.18	294,771.35	428,257.31	2,615,228.65
20	16,805.41	21,248.73	311,576.76	449,506.04	2,598,423.24
21	16,941.95	21,112.19	328,518.71	470,618.23	2,581,481.29
22	17,079.60	20,974.54	345,598.31	491,592.77	2,564,401.69
23	17,218.38	20,835.76	362,816.69	512,428.53	2,547,183.31
24	17,358.28	20,695.86	380,174.97	533,124.39	2,529,825.03
25	17,499.31	20,554.83	397,674.28	553,679.22	2,512,325.72
26	17,641.49	20,412.65	415,315.77	574,091.87	2,494,684.23
27	17,784.83	20,269.31	433,100.60	594,361.18	2,476,899.40
28	17,929.33	20,124.81	451,029.93	614,485.99	2,458,970.07
29	18,075.01	19,979.13	469,104.94	634,465.12	2,440,895.06
30	18,221.87	19,832.27	487,326.81	654,297.39	2,422,673.19
31	18,369.92	19,684.22	505,696.73	673,981.61	2,404,303.27
32	18,519.18	19,534.96	524,215.91	693,516.57	2,385,784.09
33	18,669.64	19,384.50	542,885.55	712,901.07	2,367,114.45
34	18,821.34	19,232.80	561,706.89	732,133.87	2,348,293.11
35	18,974.26	19,079.88	580,681.15	751,213.75	2,329,318.85
36	**19,128.42**	**18,925.72**	**599,809.57**	**770,139.47**	**2,310,190.43**
37	19,283.84	18,770.30	619,093.41	788,909.77	2,290,906.59
38	19,440.52	18,613.62	638,533.93	807,523.39	2,271,466.07
39	19,598.48	18,455.66	658,132.41	825,979.05	2,251,867.59
40	19,757.72	18,296.42	677,890.13	844,275.47	2,232,109.87
41	19,918.25	18,135.89	697,808.38	862,411.36	2,212,191.62
42	20,080.08	17,974.06	717,888.46	880,385.42	2,192,111.54
43	20,243.23	17,810.91	738,131.69	898,196.33	2,171,868.31
44	20,407.71	17,646.43	758,539.40	915,842.76	2,151,460.60
45	20,573.52	17,480.62	779,112.92	933,323.38	2,130,887.08
46	20,740.68	17,313.46	799,853.60	950,636.84	2,110,146.40
47	20,909.20	17,144.94	820,762.80	967,781.78	2,089,237.20
48	21,079.09	16,975.05	841,841.89	984,756.83	2,068,158.11

Pmt	Principal	Interest	Cum Prin	Cum Int	Prin Bal
49	21,250.36	16,803.78	863,092.25	1,001,560.61	2,046,907.75
50	21,423.01	16,631.13	884,515.26	1,018,191.74	2,025,484.74
51	21,597.08	16,457.06	906,112.34	1,034,648.80	2,003,887.66
52	21,772.55	16,281.59	927,884.89	1,050,930.39	1,982,115.11
53	21,949.45	16,104.69	949,834.34	1,067,035.08	1,960,165.66
54	22,127.79	15,926.35	971,962.13	1,082,961.43	1,938,037.87
55	22,307.58	15,746.56	994,269.71	1,098,707.99	1,915,730.29
56	22,488.83	15,565.31	1,016,758.54	1,114,273.30	1,893,241.46
57	22,671.55	15,382.59	1,039,430.09	1,129,655.89	1,870,569.91
58	22,855.76	15,198.38	1,062,285.85	1,144,854.27	1,847,714.15
59	23,041.46	15,012.68	1,085,327.31	1,159,866.95	1,824,672.69
60	23,228.67	14,825.47	1,108,555.98	1,174,692.42	1,801,444.02
61	23,417.41	14,636.73	1,131,973.39	1,189,329.15	1,778,026.61
62	23,607.67	14,446.47	1,155,581.06	1,203,775.62	1,754,418.94
63	23,799.49	14,254.65	1,179,380.55	1,218,030.27	1,730,619.45
64	23,992.86	14,061.28	1,203,373.41	1,232,091.55	1,706,626.59
65	24,187.80	13,866.34	1,227,561.21	1,245,957.89	1,682,438.79
66	24,384.32	13,669.82	1,251,945.53	1,259,627.71	1,658,054.47
67	24,582.45	13,471.69	1,276,527.98	1,273,099.40	1,633,472.02
68	24,782.18	13,271.96	1,301,310.16	1,286,371.36	1,608,689.84
69	24,983.54	13,070.60	1,326,293.70	1,299,441.96	1,583,706.30
70	25,186.53	12,867.61	1,351,480.23	1,312,309.57	1,558,519.77
71	25,391.17	12,662.97	1,376,871.40	1,324,972.54	1,533,128.60
72	25,597.47	12,456.67	1,402,468.87	1,337,429.21	1,507,531.13
73	25,805.45	12,248.69	1,428,274.32	1,349,677.90	1,481,725.68
74	26,015.12	12,039.02	1,454,289.44	1,361,716.92	1,455,710.56
75	26,226.49	11,827.65	1,480,515.93	1,373,544.57	1,429,484.07
76	26,439.58	11,614.56	1,506,955.51	1,385,159.13	1,403,044.49
77	26,654.40	11,399.74	1,533,609.91	1,396,558.87	1,376,390.09
78	26,870.97	11,183.17	1,560,480.88	1,407,742.04	1,349,519.12
79	27,089.30	10,964.84	1,587,570.18	1,418,706.88	1,322,429.82
80	27,309.40	10,744.74	1,614,879.58	1,429,451.62	1,295,120.42
81	27,531.29	10,522.85	1,642,410.87	1,439,974.47	1,267,589.13
82	27,754.98	10,299.16	1,670,165.85	1,450,273.63	1,239,834.15
83	27,980.49	10,073.65	1,698,146.34	1,460,347.28	1,211,853.66
84	28,207.83	9,846.31	1,726,354.17	1,470,193.59	1,183,645.83
85	28,437.02	9,617.12	1,754,791.19	1,479,810.71	1,155,208.81
86	28,668.07	9,386.07	1,783,459.26	1,489,196.78	1,126,540.74
87	28,901.00	9,153.14	1,812,360.26	1,498,349.92	1,097,639.74
88	29,135.82	8,918.32	1,841,496.08	1,507,268.24	1,068,503.92
89	29,372.55	8,681.59	1,870,868.63	1,515,949.83	1,039,131.37
90	29,611.20	8,442.94	1,900,479.83	1,524,392.77	1,009,520.17
91	29,851.79	8,202.35	1,930,331.62	1,532,595.12	979,668.38
92	30,094.33	7,959.81	1,960,425.95	1,540,554.93	949,574.05
93	30,338.85	7,715.29	1,990,764.80	1,548,270.22	919,235.20
94	30,585.35	7,468.79	2,021,350.15	1,555,739.01	888,649.85
95	30,833.86	7,220.28	2,052,184.01	1,562,959.29	857,815.99
96	31,084.39	6,969.75	2,083,268.40	1,569,929.04	826,731.60

Pmt	Principal	Interest	Cum Prin	Cum Int	Prin Bal
97	31,336.95	6,717.19	2,114,605.35	1,576,646.23	795,394.65
98	31,591.56	6,462.58	2,146,196.91	1,583,108.81	763,803.09
99	31,848.24	6,205.90	2,178,045.15	1,589,314.71	731,954.85
100	32,107.01	5,947.13	2,210,152.16	1,595,261.84	699,847.84
101	32,367.88	5,686.26	2,242,520.04	1,600,948.10	667,479.96
102	32,630.87	5,423.27	2,275,150.91	1,606,371.37	634,849.09
103	32,895.99	5,158.15	2,308,046.90	1,611,529.52	601,953.10
104	33,163.27	4,890.87	2,341,210.17	1,616,420.39	568,789.83
105	33,432.72	4,621.42	2,374,642.89	1,621,041.81	535,357.11
106	33,704.36	4,349.78	2,408,347.25	1,625,391.59	501,652.75
107	33,978.21	4,075.93	2,442,325.46	1,629,467.52	467,674.54
108	34,254.28	3,799.86	2,476,579.74	1,633,267.38	433,420.26
109	34,532.60	3,521.54	2,511,112.34	1,636,788.92	398,887.66
110	34,813.18	3,240.96	2,545,925.52	1,640,029.88	364,074.48
111	35,096.03	2,958.11	2,581,021.55	1,642,987.99	328,978.45
112	35,381.19	2,672.95	2,616,402.74	1,645,660.94	293,597.26
113	35,668.66	2,385.48	2,652,071.40	1,648,046.42	257,928.60
114	35,958.47	2,095.67	2,688,029.87	1,650,142.09	221,970.13
115	36,250.63	1,803.51	2,724,280.50	1,651,945.60	185,719.50
116	36,545.17	1,508.97	2,760,825.67	1,653,454.57	149,174.33
117	36,842.10	1,212.04	2,797,667.77	1,654,666.61	112,332.23
118	37,141.44	912.70	2,834,809.21	1,655,579.31	75,190.79
119	37,443.21	610.93	2,872,252.42	1,656,190.24	37,747.58
120	*37,747.58	306.70	2,910,000.00	1,656,496.94	0.00

*The final payment has been adjusted to account for payments having been rounded to the nearest cent.

Request for Verification of USDA Rural Development Debt

Name of entity: City of Eagle Butte

City of Eagle Butte

hereby authorizes USDA Rural Development (Rural Development) to release and verify to the South Dakota Board of Water and Natural Resources (the Board) and the Department of Environment and Natural Resources (DENR) information on the indebtedness owed by the applicant to USDA Rural Development, and further authorizes the release of such information by the Board, DENR or Rural Development as may be necessary to process the application for financial assistance.

Printed Name & Title: Sheila Ganje, Finance Officer

Signature of person authorizing the release of information

Date: 6/26/2014

Date of Original Loan: 7/17/01

Amount of Loan: $221,500.00

Maturity Date: 7/17/2041

Type of Payment (Check One): ☒ Monthly ☐ Quarterly ☐ Annual

Amount of Payment: $1,017.00

Payment Status (Check One): ☒ Current ☐ Delinquent

Accrued Interest: $234.20

Principal Loan Balance: $189,966.86

Reserve Payment Amount:

Current Reserve Balance: $12,204.00

Fully Funded Reserve Amount: $12,204.00

Security for Loan: Revenue bond - Sewer

Status Date as of: 6/27/14

Printed Name & Title: Brian L. Ring CP Specialist

Signature of person verifying the above information

Date: 6/27/14

Request for Verification of USDA Rural Development Debt

Name of entity: City of Eagle Butte

City of Eagle Butte

hereby authorizes USDA Rural Development (Rural Development) to release and verify to the South Dakota Board of Water and Natural Resources (the Board) and the Department of Environment and Natural Resources (DENR) information on the indebtedness owed by the applicant to USDA Rural Development, and further authorizes the release of such information by the Board, DENR or Rural Development as may be necessary to process the application for financial assistance.

Printed Name & Title: Sheila Ganje, Finance Officer

Signature of person authorizing the release of information

Date: 6/26/2014

Date of Original Loan: 5/24/02

Amount of Loan: 167,900.00

Maturity Date: 5/24/2042

Type of Payment (Check One): ☒ Monthly ☐ Quarterly ☐ Annual

Amount of Payment: $ 771.00

Payment Status (Check One): ☒ Current ☐ Delinquent

Accrued Interest: $3,512.25

Principal Loan Balance: $ 133,747.79

Reserve Payment Amount:

Current Reserve Balance: $ 9252.00

Fully Funded Reserve Amount: $ 9252.00

Security for Loan: Revenue bond - sewer

Status Date as of: 6/29/14

Printed Name & Title: Brian L. Ring CP Specialist

Signature of person verifying the above information

Date: 6/27/14

Request for Verification of USDA Rural Development Debt

Name of entity: City of Eagle Butte

City of Eagle Butte

hereby authorizes USDA Rural Development (Rural Development) to release and verify to the South Dakota Board of Water and Natural Resources (the Board) and the Department of Environment and Natural Resources (DENR) information on the indebtedness owed by the applicant to USDA Rural Development, and further authorizes the release of such information by the Board, DENR or Rural Development as may be necessary to process the application for financial assistance.

Printed Name & Title: Sheila Ganje, Finance Officer

Signature of person authorizing the release of information — Date: 6/26/2014

Date of Original Loan: 5/24/02

Amount of Loan: $126,600.00

Maturity Date: 5/24/2042

Type of Payment (Check One): ☒ Monthly ☐ Quarterly ☐ Annual

Amount of Payment: $582.00

Payment Status (Check One): ☒ Current ☐ Delinquent

Accrued Interest: $2,645.59

Principal Loan Balance: $100,744.84

Reserve Payment Amount:

Current Reserve Balance: $6984.00

Fully Funded Reserve Amount: $6984.00

Security for Loan: Revenue bond - Sewer

Status Date as of: 6/27/14

Printed Name & Title: Brian L. Ring CP Specialist

Signature of person verifying the above information — Date: 6/27/14

2013

FORM RD 1951-9
(06/13)

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL DEVELOPMENT
ANNUAL STATEMENT OF LOAN ACCOUNT

SAVE THIS INFORMATION
FOR INCOME TAX PURPOSES

PAGE 001
DATE 123113

CASE NUMBER 47-021-******3342 FINAL YEAR OF LOAN 2041
FUND CODE 92 LOAN NUMBER 01 DATE OF LOAN 07/17/01 INTEREST RATE 04.5000 AMOUNT OF LOAN 221,500.00

DESCRIPTION	ADVANCES	INTEREST	PRINCIPAL	TOTAL	T	INTEREST RATE	EFFECTIVE DATE
BEGIN LOAN BALNCE		337.04	195,270.98	195,608.02			010113
PAYMENT		746.31	270.69	1,017.00	R	04.5000	011713
PAYMENT		745.27	271.73	1,017.00	R	04.5000	021713
PAYMENT		672.22	344.78	1,017.00	R	04.5000	031713
PAYMENT		742.91	274.09	1,017.00	R	04.5000	041713
PAYMENT		717.94	299.06	1,017.00	R	04.5000	051713
PAYMENT		740.73	276.27	1,017.00	R	04.5000	061713
PAYMENT		715.81	301.19	1,017.00	R	04.5000	071713
PAYMENT		738.52	278.48	1,017.00	R	04.5000	081713
PAYMENT		737.45	279.55	1,017.00	R	04.5000	091713
PAYMENT		712.64	304.36	1,017.00	R	04.5000	101713
PAYMENT		735.23	281.77	1,017.00	R	04.5000	111713
PAYMENT		710.47	306.53	1,017.00	R	04.5000	121713
TOTAL LOAN PMTS		8,715.50	3,488.50	12,204.00			

LOAN ACTIVITY 0.00 8,715.50 3,488.50 12,204.00
LOAN BALANCE UNPD INTEREST 331.02 ** UNPD PRIN 191,782.48 **
NXT AMT DUE 1,017.00 DATE DUE 011714
PAYMENT STATUS ON SCHEDULE INT PAID 8,715.50
TAXES PAID

**These unpaid balances may not reflect the total amount due to the Agency at payoff.

RECIPIENT'S/LENDER'S name, street address, city or town, province or state, country, ZIP or foreign postal code, and telephone number

USDA RURAL DEVELOPMENT
PHONE#(314)457-4310
4300 GOODFELLOW BLVD FC-351
ST. LOUIS, MO 63120-1703

*CAUTION: The amount shown may not be fully deductible by you. Limits based on the loan amount and the cost and value of the secured property may apply. Also, you may only deduct interest to the extent it was incurred by you, actually paid by you, and not reimbursed by another person.

OMB NO. 1545-0901

2013

Form 1098

☐ CORRECTED (if checked)

Mortgage Interest Statement

RECIPIENT'S federal identification no. 431757115

PAYER'S social security number ******3342

1 Mortgage interest received from payer(s)/borrower(s)* $ 0.00

2 Points paid on purchase of principal residence $

3 Refund of overpaid interest $

4 Mortgage insurance premiums $

5 IRS FORM 1098 DOES NOT APPLY TO YOUR LOAN TYPE. PLEASE SEE IRS INSTRUCTIONS.

PAYER'S/BORROWER'S name, street address, city or town, province or state, country, and ZIP or foreign postal code

EAGLE BUTTE, 47-703
CITY OF
PO BOX 150
EAGLE BUTTE, SD 57625

Account number (see instructions)
47021******334292 01

COPY B
FOR PAYER/BORROWER

The information in boxes 1, 2, 3, and 4 is important tax information and is being furnished to the Internal Revenue Service. If you are required to file a return, a negligence penalty or other sanction may be imposed on you if the IRS determines that an underpayment of tax results because you overstated a deduction for this mortgage interest or for these points or because you did not report this refund of interest on your return.

FORM RD 1951-9
(06/13)

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL DEVELOPMENT
ANNUAL STATEMENT OF LOAN ACCOUNT

SAVE THIS INFORMATION
FOR INCOME TAX PURPOSES

PAGE 002
DATE 123113

CASE NUMBER 47-021-******3342 FINAL YEAR OF LOAN 2042
FUND CODE 92 LOAN NUMBER 03 DATE OF LOAN 05/24/02 INTEREST RATE 04.5000 AMOUNT OF LOAN 167,900.00

DESCRIPTION	ADVANCES	INTEREST	PRINCIPAL	TOTAL	T	INTEREST RATE	EFFECTIVE DATE
BEGIN LOAN BALNCE		691.22	136,745.10	137,436.32			010113
PAYMENT		6,254.69	2,997.31	9,252.00	R	04.5000	112613
TOTAL LOAN PMTS		6,254.69	2,997.31	9,252.00			

LOAN ACTIVITY	0.00	6,254.69	2,997.31	9,252.00
LOAN BALANCE	UNPD INTEREST	577.13 **	UNPD PRIN	133,747.79 **
NXT AMT DUE	771.00	DATE DUE 012414		
PAYMENT STATUS	ON SCHEDULE	INT PAID 6,254.69		
		TAXES PAID		

**These unpaid balances may not reflect the total amount due to the Agency at payoff.

RECIPIENT'S/LENDER'S name, street address, city or town, province or state, country, ZIP or foreign postal code, and telephone number

USDA RURAL DEVELOPMENT
PHONE#(314)457-4310
4300 GOODFELLOW BLVD FC-351
ST. LOUIS, MO 63120-1703

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OMB NO.1545-0901

2013

Form 1098

☐ CORRECTED (if checked)

Mortgage Interest Statement

RECIPIENT'S federal identification no.: 431757115

PAYER'S social security number: ******3342

1 Mortgage interest received from payer(s)/borrower(s)*
$ 0.00

2 Points paid on purchase of principal residence
$

3 Refund of overpaid interest
$

4 Mortgage insurance premiums
$

5 IRS FORM 1098 DOES NOT APPLY TO YOUR LOAN TYPE. PLEASE SEE IRS INSTRUCTIONS.

PAYER'S/BORROWER'S name, street address, city or town, province or state, country, and ZIP or foreign postal code

EAGLE BUTTE, 47-703
CITY OF
PO BOX 150
EAGLE BUTTE, SD 57625

Account number (see instructions)
47021******334292 03

COPY B
FOR PAYER/BORROWER

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FORM RD 1951-9
(06/13)

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL DEVELOPMENT
ANNUAL STATEMENT OF LOAN ACCOUNT

SAVE THIS INFORMATION
FOR INCOME TAX PURPOSES

PAGE 003
DATE 123113

CASE NUMBER 47-021-******3342 FINAL YEAR OF LOAN 2042
FUND CODE 92 LOAN NUMBER 04 DATE OF LOAN 05/24/02 INTEREST RATE 04.5000 AMOUNT OF LOAN 126,600.00

DESCRIPTION	ADVANCES	INTEREST	PRINCIPAL	TOTAL	T	INTEREST RATE	EFFECTIVE DATE
BEGIN LOAN BALNCE		520.73	103,016.88	103,537.61			010113
PAYMENT		4,711.96	2,272.04	6,984.00	R	04.5000	112613
TOTAL LOAN PMTS		4,711.96	2,272.04	6,984.00			
TOTAL PAID ON ALL LOANS THIS YEAR		19,682.15	8,757.85	28,440.00			

LOAN ACTIVITY 0.00 4,711.96 2,272.04 6,984.00
LOAN BALANCE UNPD INTEREST 434.72 ** UNPD PRIN 100,744.84 **
NXT AMT DUE 582.00 DATE DUE 012414
PAYMENT STATUS ON SCHEDULE INT PAID 4,711.96
TAXES PAID
ALL LOAN ACTIVITY 0.00 19,682.15 8,757.85 28,440.00
BORR BAL UNPD INTEREST 1,342.87 UNPD PRIN 426,275.11
**These unpaid balances may not reflect the total amount due to the Agency at payoff.

RECIPIENT'S/LENDER'S name, street address, city or town, province or state, country, ZIP or foreign postal code, and telephone number

USDA RURAL DEVELOPMENT
PHONE#(314)457-4310
4300 GOODFELLOW BLVD FC-351
ST. LOUIS, MO 63120-1703

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OMB NO. 1545-0901

2013

Form 1098

☐ CORRECTED (if checked)

Mortgage Interest Statement

RECIPIENT'S federal identification no. 431757115

PAYER'S social security number ******3342

1 Mortgage interest received from payer(s)/borrower(s)* $ 0.00

2 Points paid on purchase of principal residence $

3 Refund of overpaid interest $

4 Mortgage insurance premiums $

5 IRS FORM 1098 DOES NOT APPLY TO YOUR LOAN TYPE. PLEASE SEE IRS INSTRUCTIONS.

PAYER'S/BORROWER'S name, street address, city or town, province or state, country, and ZIP or foreign postal code

EAGLE BUTTE, 47-703
CITY OF
PO BOX 150
EAGLE BUTTE, SD 57625

Account number (see instructions)
47021******334292 04

COPY B
FOR PAYER/BORROWER

The information in boxes 1, 2, 3, and 4 is important tax information and is being furnished to the Internal Revenue Service. If you are required to file a return, a negligence penalty or other sanction may be imposed on you if the IRS determines that an underpayment of tax results because you overstated a deduction for this mortgage interest or for these points or because you did not report this refund of interest on your return.

Compilation

From Date: 1/1/2014 To Date: 6/30/2014

Fiscal Year: 2014-2014 ☐ Subtotal by Collapse Mask ☐ Include pre encumbrance ☐ Print accounts with zero balance ☑ Filter Encumbrance Detail by Date Range

Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balance	% Bud
6040.00000.1010000	S.F. CASH/CASH & DEPOSITS	$0.00	$108,793.19	$108,793.19	($108,793.19)	$0.00	($108,793.19)	0.00%
6040.00000.1040000	S.F. INTEREST BEARING ACCOUNT	$0.00	$117,427.88	$117,427.88	($117,427.88)	$0.00	($117,427.88)	0.00%
6040.00000.1052000	S.F. SAVINGS CERTIFICATE-GREAT	$0.00	$43,044.58	$43,044.58	($43,044.58)	$0.00	($43,044.58)	0.00%
6040.00000.2539000	S.F. NET ASSETS-UNRESTRICTED	$0.00	($336,532.58)	($336,532.58)	$336,532.58	$0.00	$336,532.58	0.00%
	DEPT: GENERAL LEDGER ACCOUNTS - 00000	$0.00	($67,266.93)	($67,266.93)	$67,266.93	$0.00	$67,266.93	0.00%
6040.33100.3311301	S.F. IR/FED.GR-RUS USDARD 47-0	($997,000.00)	$0.00	$0.00	($997,000.00)	$0.00	($997,000.00)	100.00%
	DEPT: FEDERAL GRANTS - 33100	($997,000.00)	$0.00	$0.00	($997,000.00)	$0.00	($997,000.00)	100.00%
6040.33400.3341303	S.F. I.R./STATE GRANT-DENR CW	($433,500.00)	$0.00	$0.00	($433,500.00)	$0.00	($433,500.00)	100.00%
	DEPT: STATE GRANTS - 33400	($433,500.00)	$0.00	$0.00	($433,500.00)	$0.00	($433,500.00)	100.00%
6040.36000.3610000	S.F. MISC.REV./INVESTMENT EARN	($40,000.00)	$6,177.70	$6,177.70	($46,177.70)	$0.00	($46,177.70)	115.44%
6040.36000.3699900	S.F. MISC.REV./OTHER-OTHER	($89,000.00)	$0.00	$0.00	($89,000.00)	$0.00	($89,000.00)	100.00%
	DEPT: MISC. REVENUE - 36000	($129,000.00)	$6,177.70	$6,177.70	($135,177.70)	$0.00	($135,177.70)	104.79%
6040.38300.3830100	S.F. SEWER/SEWER CHARGES	($245,000.00)	($154,708.46)	($154,708.46)	($90,291.54)	$0.00	($90,291.54)	36.85%
6040.38300.3830300	S.F. SEWER/SALES-SUPPLIES & MA	$0.00	($1,422.00)	($1,422.00)	$1,422.00	$0.00	$1,422.00	0.00%
6040.38300.3830400	S.F. SEWER/TAP FEES	($500.00)	($500.00)	($500.00)	$0.00	$0.00	$0.00	0.00%
	DEPT: ENTERPRISE OPERATING REVENUE-SEWER - 38300	($245,500.00)	($156,630.46)	($156,630.46)	($88,869.54)	$0.00	($88,869.54)	36.20%
6040.39120.3912401	S.F. OS/OFS/LTDI-OTHER BONDS:R	($1,056,000.00)	$0.00	$0.00	($1,056,000.00)	$0.00	($1,056,000.00)	100.00%
	DEPT: LONG TERM DEBT ISSUED - 39120	($1,056,000.00)	$0.00	$0.00	($1,056,000.00)	$0.00	($1,056,000.00)	100.00%
6040.43250.4110000	E.F. PW-S-SEWAGE C&D/PS-SALARI	$95,000.00	$36,243.53	$36,243.53	$58,756.47	$0.00	$58,756.47	61.85%
6040.43250.4121000	E.F. PW-S-SEWAGE C&D/PS-OASI	$6,000.00	$2,214.68	$2,214.68	$3,785.32	$0.00	$3,785.32	63.09%
6040.43250.4122000	E.F. PW-S-SEWAGE C&D/PS-MEDICA	$1,500.00	$517.97	$517.97	$982.03	$0.00	$982.03	65.47%
6040.43250.4130000	E.F. PW-S-SEWAGE C&D/PS-RETIRE	$6,000.00	$2,146.82	$2,146.82	$3,853.18	$0.00	$3,853.18	64.22%
6040.43250.4140000	E.F. PW-S-SEWAGE C&D/PS-WORKER	$1,500.00	$0.00	$0.00	$1,500.00	$0.00	$1,500.00	100.00%
6040.43250.4150000	E.F. PW-S-SEWAGE C&D/PS-GROUP	$23,000.00	$5,811.32	$5,811.32	$17,188.68	$0.00	$17,188.68	74.73%
6040.43250.4170000	E.F. PW-S-SEWAGE C&D/PS-COMP.	$3,500.00	$0.00	$0.00	$3,500.00	$0.00	$3,500.00	100.00%
6040.43250.4210000	E.F. PW-S-SEWAGE C&D/OCE-INSUR	$10,000.00	$4,008.50	$4,008.50	$5,991.50	$0.00	$5,991.50	59.92%
6040.43250.4220000	E.F. PW-S-SEWAGE C&D/OCE-SERVI	$5,000.00	$741.74	$741.74	$4,258.26	$0.00	$4,258.26	85.17%
6040.43250.4230000	E.F. PW-S-SEWAGE C&D/OCE-PUBLI	$250.00	$0.00	$0.00	$250.00	$0.00	$250.00	100.00%
6040.43250.4240000	E.F. PW-S-SEWAGE C&D/OCE-RENTA	$1,000.00	$249.00	$249.00	$751.00	$0.00	$751.00	75.10%
6040.43250.4250200	E.F. PW-S-SEWAGE C&D/OCE-R&M:B	$5,000.00	$0.00	$0.00	$5,000.00	$0.00	$5,000.00	100.00%
6040.43250.4250310	E.F. PW-S-SEWAGE C&D/OCE-R&M:L	$0.00	$1.18	$1.18	($1.18)	$0.00	($1.18)	0.00%
6040.43250.4250320	E.F. PW-S-SEWAGE C&D/OCE-R&M:S	$15,000.00	$1,499.60	$1,499.60	$13,500.40	$0.00	$13,500.40	90.00%
6040.43250.4250330	E.F. PW-S-SEWAGE C&D/OCE-R&M:N	$0.00	$1,932.62	$1,932.62	($1,932.62)	$0.00	($1,932.62)	0.00%
6040.43250.4250400	E.F. PW-S-SEWAGE C&D/OCE-R&M:M	$2,500.00	$73.09	$73.09	$2,426.91	$0.00	$2,426.91	97.08%
6040.43250.4250410	E.F. PW-S-SEWAGE C&D/OCE-R&M:M	$2,500.00	$6,714.89	$6,714.89	($4,214.89)	$0.00	($4,214.89)	-168.60%
6040.43250.4261100	E.F. PW-S-SEWAGE C&D/OCE-SUPPL	$1,000.00	$5.98	$5.98	$994.02	$0.00	$994.02	99.40%
6040.43250.4261160	E.F. PW-S-SEWAGE C&D/OCE-S:NC-	$500.00	$0.00	$0.00	$500.00	$0.00	$500.00	100.00%
6040.43250.4261200	E.F. PW-S-SEWAGE C&D/OCE-SUPPL	$2,500.00	$802.80	$802.80	$1,697.20	$0.00	$1,697.20	67.89%
6040.43250.4261210	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$500.00	$103.32	$103.32	$396.68	$0.00	$396.68	79.34%
6040.43250.4261211	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$5,000.00	$1,220.73	$1,220.73	$3,779.27	$0.00	$3,779.27	75.59%
6040.43250.4261220	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$7,500.00	$3,207.97	$3,207.97	$4,292.03	$0.00	$4,292.03	57.23%
6040.43250.4261230	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$500.00	$595.96	$595.96	($95.96)	$0.00	($95.96)	-19.19%
6040.43250.4261260	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$1,500.00	$1,386.38	$1,386.38	$113.62	$0.00	$113.62	7.57%
6040.43250.4270000	E.F. PW-S-SEWAGE-C&D/OCE-TRVL.	$1,000.00	$640.20	$640.20	$359.80	$0.00	$359.80	35.98%
6040.43250.4280000	E.F. PW-S-SEWAGE C&D/OCE-UTILI	$10,000.00	$5,716.41	$5,716.41	$4,283.59	$0.00	$4,283.59	42.84%
6040.43250.4336041	E.F. PW-S-SEWAGE C&D/CA-IOTB:L	$733,260.00	$0.00	$0.00	$733,260.00	$0.00	$733,260.00	100.00%

Compilation

From Date: 1/1/2014 To Date: 6/30/2014

Fiscal Year: 2014-2014 ☐ Subtotal by Collapse Mask ☐ Include pre encumbrance ☐ Print accounts with zero balance ☑ Filter Encumbrance Detail by Date Range

Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balance	% Bud
6040.43250.4336042	E.F. PW-S-SEWAGE C&D/CA-IOTB:S	$1,629,130.00	$136,800.00	$136,800.00	$1,492,330.00	$0.00	$1,492,330.00	91.60%
6040.43250.4336044	E.F. PW-S-SEWAGE C&D/CA-IOTB:S	$213,110.00	$0.00	$0.00	$213,110.00	$0.00	$213,110.00	100.00%
	DEPT: PW-S-SEWAGE COLLECTION & DISPOSAL - 43250	$2,783,250.00	$212,634.69	$212,634.69	$2,570,615.31	$0.00	$2,570,615.31	92.36%
6040.47000.4410000	E.F. PW-S-SEWAGE C&D/DS-PRINCI	$30,000.00	$5,085.00	$5,085.00	$24,915.00	$0.00	$24,915.00	83.05%
	DEPT: DEBT SERVICE - 47000	$30,000.00	$5,085.00	$5,085.00	$24,915.00	$0.00	$24,915.00	83.05%
	FUND: ENTERPRISE FUND-SEWER FUND - 6040	($47,750.00)	$0.00	$0.00	($47,750.00)	$0.00	($47,750.00)	100.00%

Compilation

From Date: 1/1/2013 To Date: 12/31/2013

Fiscal Year: 2013-2013 ☐ Subtotal by Collapse Mask ☐ Include pre encumbrance ☐ Print accounts with zero balance ☑ Filter Encumbrance Detail by Date Range

Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balance	% Bud
6040.00000.1010000	S.F. CASH/CASH & DEPOSITS	$0.00	$169,867.83	$169,867.83	($169,867.83)	$0.00	($169,867.83)	0.00%
6040.00000.1040000	S.F. INTEREST BEARING ACCOUNT	$0.00	$123,620.17	$123,620.17	($123,620.17)	$0.00	($123,620.17)	0.00%
6040.00000.1052000	S.F. SAVINGS CERTIFICATE-GREAT	$0.00	$43,044.58	$43,044.58	($43,044.58)	$0.00	($43,044.58)	0.00%
6040.00000.2539000	S.F. NET ASSETS-UNRESTRICTED	$0.00	($218,117.67)	($218,117.67)	$218,117.67	$0.00	$218,117.67	0.00%
	DEPT: GENERAL LEDGER ACCOUNTS - 00000	$0.00	$118,414.91	$118,414.91	($118,414.91)	$0.00	($118,414.91)	0.00%
6040.33000.3319900	S.F. I.R./F.G.-OTHER	($10,000.00)	$0.00	$0.00	($10,000.00)	$0.00	($10,000.00)	100.00%
	DEPT: INTERGOVERNMENTAL REVENUES - 33000	($10,000.00)	$0.00	$0.00	($10,000.00)	$0.00	($10,000.00)	100.00%
6040.36000.3610000	S.F. MISC.REV./INVESTMENT EARN	($11,000.00)	($54,630.89)	($54,630.89)	$43,630.89	$0.00	$43,630.89	-396.64%
	DEPT: MISC. REVENUE - 36000	($11,000.00)	($54,630.89)	($54,630.89)	$43,630.89	$0.00	$43,630.89	-396.64%
6040.38300.3830100	S.F. SEWER/SEWER CHARGES	($336,000.00)	($323,738.70)	($323,738.70)	($12,261.30)	$0.00	($12,261.30)	3.65%
6040.38300.3830400	S.F. SEWER/TAP FEES	($500.00)	($500.00)	($500.00)	$0.00	$0.00	$0.00	0.00%
6040.38300.3839900	S.F. SEWER/OTHER	($2,500.00)	$0.00	$0.00	($2,500.00)	$0.00	($2,500.00)	100.00%
	DEPT: ENTERPRISE OPERATING REVENUE-SEWER - 38300	($339,000.00)	($324,238.70)	($324,238.70)	($14,761.30)	$0.00	($14,761.30)	4.35%
6040.43250.4110000	E.F. PW-S-SEWAGE C&D/PS-SALARI	$95,000.00	$96,816.27	$96,816.27	($1,816.27)	$0.00	($1,816.27)	-1.91%
6040.43250.4121000	E.F. PW-S-SEWAGE C&D/PS-OASI	$7,000.00	$6,110.32	$6,110.32	$889.68	$0.00	$889.68	12.71%
6040.43250.4122000	E.F. PW-S-SEWAGE C&D/PS-MEDICA	$1,500.00	$1,429.15	$1,429.15	$70.85	$0.00	$70.85	4.72%
6040.43250.4130000	E.F. PW-S-SEWAGE C&D/PS-RETIRE	$25,000.00	$30,597.46	$30,597.46	($5,597.46)	$0.00	($5,597.46)	-22.39%
6040.43250.4140000	E.F. PW-S-SEWAGE C&D/PS-WORKER	$1,500.00	$1,316.65	$1,316.65	$183.35	$0.00	$183.35	12.22%
6040.43250.4150000	E.F. PW-S-SEWAGE C&D/PS-GROUP	$20,000.00	$23,471.74	$23,471.74	($3,471.74)	$0.00	($3,471.74)	-17.36%
6040.43250.4170000	E.F. PW-S-SEWAGE C&D/PS-COMP.	$3,500.00	$3,636.60	$3,636.60	($136.60)	$0.00	($136.60)	-3.90%
6040.43250.4210000	E.F. PW-S-SEWAGE C&D/OCE-INSUR	$5,000.00	$2,318.50	$2,318.50	$2,681.50	$0.00	$2,681.50	53.63%
6040.43250.4220000	E.F. PW-S-SEWAGE C&D/OCE-SERVI	$65,000.00	$25,743.38	$25,743.38	$39,256.62	$0.00	$39,256.62	60.39%
6040.43250.4230000	E.F. PW-S-SEWAGE C&D/OCE-PUBLI	$100.00	$0.00	$0.00	$100.00	$0.00	$100.00	100.00%
6040.43250.4240000	E.F. PW-S-SEWAGE C&D/OCE-RENTA	$400.00	$117.00	$117.00	$283.00	$0.00	$283.00	70.75%
6040.43250.4250200	E.F. PW-S-SEWAGE C&D/OCE-R&M:B	$0.00	$33.17	$33.17	($33.17)	$0.00	($33.17)	0.00%
6040.43250.4250310	E.F. PW-S-SEWAGE C&D/OCE-R&M:L	$0.00	$3.98	$3.98	($3.98)	$0.00	($3.98)	0.00%
6040.43250.4250320	E.F. PW-S-SEWAGE C&D/OCE-R&M:S	$0.00	$7,833.23	$7,833.23	($7,833.23)	$0.00	($7,833.23)	0.00%
6040.43250.4250330	E.F. PW-S-SEWAGE C&D/OCE-R&M:N	$0.00	$3,605.96	$3,605.96	($3,605.96)	$0.00	($3,605.96)	0.00%
6040.43250.4250400	E.F. PW-S-SEWAGE C&D/OCE-R&M:M	$2,500.00	$379.14	$379.14	$2,120.86	$0.00	$2,120.86	84.83%
6040.43250.4250410	E.F. PW-S-SEWAGE C&D/OCE-R&M:M	$1,500.00	$2,980.63	$2,980.63	($1,480.63)	$0.00	($1,480.63)	-98.71%
6040.43250.4261100	E.F. PW-S-SEWAGE C&D/OCE-SUPPL	$500.00	$678.79	$678.79	($178.79)	$0.00	($178.79)	-35.76%
6040.43250.4261160	E.F. PW-S-SEWAGE C&D/OCE-S:NC-	$500.00	$119.84	$119.84	$380.16	$0.00	$380.16	76.03%
6040.43250.4261200	E.F. PW-S-SEWAGE C&D/OCE-SUPPL	$2,400.00	$1,907.15	$1,907.15	$492.85	$0.00	$492.85	20.54%
6040.43250.4261210	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$100.00	$235.87	$235.87	($135.87)	$0.00	($135.87)	-135.87%
6040.43250.4261211	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$2,500.00	$7,151.18	$7,151.18	($4,651.18)	$0.00	($4,651.18)	-186.05%
6040.43250.4261220	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$10,000.00	$5,933.11	$5,933.11	$4,066.89	$0.00	$4,066.89	40.67%
6040.43250.4261230	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$500.00	$0.00	$0.00	$500.00	$0.00	$500.00	100.00%
6040.43250.4261260	E.F. PW-S-SEWAGE C&D/OCE-S:CS-	$1,500.00	$1,028.24	$1,028.24	$471.76	$0.00	$471.76	31.45%
6040.43250.4270000	E.F. PW-S-SEWAGE-C&D/OCE-TRVL.	$2,000.00	$0.00	$0.00	$2,000.00	$0.00	$2,000.00	100.00%
6040.43250.4280000	E.F. PW-S-SEWAGE C&D/OCE-UTILI	$10,000.00	$9,584.32	$9,584.32	$415.68	$0.00	$415.68	4.16%
	DEPT: PW-S-SEWAGE COLLECTION & DISPOSAL - 43250	$258,000.00	$233,031.68	$233,031.68	$24,968.32	$0.00	$24,968.32	9.68%
6040.47000.4410000	E.F. PW-S-SEWAGE C&D/DS-PRINCI	$30,000.00	$27,423.00	$27,423.00	$2,577.00	$0.00	$2,577.00	8.59%
	DEPT: DEBT SERVICE - 47000	$30,000.00	$27,423.00	$27,423.00	$2,577.00	$0.00	$2,577.00	8.59%
	FUND: ENTERPRISE FUND-SEWER FUND - 6040	($72,000.00)	$0.00	$0.00	($72,000.00)	$0.00	($72,000.00)	100.00%

June 4, 2014

Marlene Knutson
Central South Dakota Enhancement District
PO Box 220
3431 Airport Road, Suite 3
Pierre, SD 57501

RE: 2015 Street and Utility Improvements
Eagle Butte, South Dakota
DGR Project No. 664320

Dear Marlene:

The City of Eagle Butte is intending to request additional funding through the SD DENR to continue through with their proposed projects during the 2015 construction season. We have recently discussed several aspects of the project, to include potential funding sources and the appropriate processes to achieve the ultimate goal of completing each of the corresponding components.

As you were aware, the City was originally awarded funding through the SD DENR's Clean Water and Drinking Water funds, but after some deliberation, turned back the Clean Water funds and expanded their project scope. They then pursued funding through USDA Rural Development, which delayed the project, only to find out that they would not be awarded. As such, the City is requesting your assistance in submitting appropriate applications through the DENR to fund the project for 2015 construction. The following list is a scope of each component of the project and the associated estimated cost (the numbers correspond with the enclosed map):

1. Sycamore Street Water & Sanitary Sewer

This portion of the 2015 Utility Improvement & Street Resurfacing project includes approximately 1720 LF of 6" water main and 1360 LF of 8" gravity sanitary sewer main from North 212 to the south. Included within the project are 9 water service and sewer service connections into the existing properties. The utility improvements would provide the city residents with connections into the City's municipal water and sewer systems. Once the utilities are complete, Sycamore Street will be resurfaced with salvaged asphalt millings.
Total Cost: $958,000

2. Highway 212 and Bringman Street Water & Sanitary Sewer

This portion of the 2015 Utility Improvements & Street Resurfacing project includes approximately 4300 LF of 6" water main, 1440 LF of 4" sanitary sewer force main and 1500 LF of 8" gravity sanitary sewer main. A lift station will be constructed to transfer sanitary sewer from the Bringman Street area into the Sycamore Street gravity sanitary sewer main. Included within the project are 22 water service and sewer service connections into the existing properties. The utility improvements would provide the city residents with connections into the City's municipal water and sewer systems. A total of 850 LF of horizontal boring underneath and adjacent to HWY 212 is necessary to complete the utility improvements. Once the utility improvements are complete, Bringman Street will be resurfaced with salvaged gravel surfacing.
Total Cost: $1,426,000

3. Prairie Road Sewer

This portion of the 2015 Utility Improvements & Street Resurfacing project includes approximately 900 LF of 8" gravity sanitary sewer main. The proposed sanitary sewer will be an extension of the existing line to provide sewer service to four properties within the city limits along the north side of Prairie Road on the east end.
Total Cost: $120,000

4. Brotsky Drainage

This portion of the 2015 Utility Improvements & Street Resurfacing project includes approximately 400 SF of concrete drain pan to allow discharged water from the city storm sewer system to travel across private property and minimize flooding and property damage.
Total Cost: $10,000

5. Willow Street & Pioneer Avenue

This portion of the 2015 Utility Improvement & Street Resurfacing project includes removal of existing storm sewer inlets and piping, and installation of new storm sewer inlets and piping. The proposed inlets and piping will allow more water from storm runoff and will minimize the pooling of water at the adjacent property owners lot. The proposed improvements will also minimize the inflow of the sanitary sewer system during large rainfall events when water is unable to get into the storm sewer system and causes localized flooding.
Total Cost: $41,000

6. Shupick Park Sanitary & Storm Sewer

This portion of the 2015 Utility Improvements & Street Resurfacing project includes approximately 570 LF of 48" RCP storm sewer northwest though Shupick Park, and replacing an eroded sanitary sewer manhole. The storm sewer extension will allow the city to utilize the park space efficiently, reduce safety concerns, and reduce park maintenance. To the north of the park adjacent to the waste water treatment facility, there are two corroded manholes that need to be rehabilitated, one manhole that needs to be replaced, and one manhole junction box that needs to be rehabilitated.
Total Cost: $282,000

7. Shupick Park Water Main

This portion of the 2015 Utility Improvements & Street Resurfacing project includes approximately 1300 LF of 6" water main from the south to north, through the park. The water main extension will provide a loop in the system and irrigation lines to provide water for the adjacent baseball fields.
Total Cost: $130,000

8. Main Street Water Main and Street Resurfacing

This portion of the 2015 Utility Improvement & Street Resurfacing project includes approximately 2360 LF of 6" & 8" water main along Main Street from Landmark Ave to Frontier Street. Included in this component of the project is approximately 11,760 SY of asphalt millings and new asphalt overlay. The water main improvements will replace an existing AC pipe and the existing services will be reconnected to the 35 businesses along Main Street.
Total Cost: $1,416,000

9. Prairie Road Street Reconstruction

This portion of the 2015 Utility Improvement & Street Resurfacing project includes reconstruction of Prairie Road from Willow Street to Main Street. The existing road will be full depth asphalt milled and reconstructed with approximately 1060 ton of new asphalt pavement will be placed over 1090 tons of aggregate base course.
Total Cost: $296,000

10. Liquor Store Site Improvements

This portion of the 2015 Utility Improvement & Street Resurfacing project includes site improvements to the existing Liquor store. Improvements include new concrete, curb and gutter, a fenced in loading ramp and dumpster pad, and hand railing along the proposed sidewalk ramp. This component is not eligible for any DENR funding.
Total Cost: $72,000

11. Waste Water Treatment Facility Improvements

This project will involve removal of sludge in the primary holding cell, installation of inlet piping near the center of the inlet cove to improve natural mixing and distribution of wastewater, installation of floating aerators in the primary holding cell to provide supplemental air to aid in the treatment of wastewater, and larger transfer piping installation to facilitate transfer of wastewater between cells. The proposed improvements are expected to reduce the invasive odors emanating from the lagoons.
Total Cost: $895,000

The enclosed map depicts a graphical representation of the project components outlined above, and the cost estimates, also enclosed, break out the projects by phase, and appropriate funding source. We trust this information will assist with the preparation of the funding applications and further facilitate the proposed improvements critical the health, welfare, and quality of life of the Eagle Butte residents.

Please feel free to contact us with questions or the need for additional information.

Sincerely,

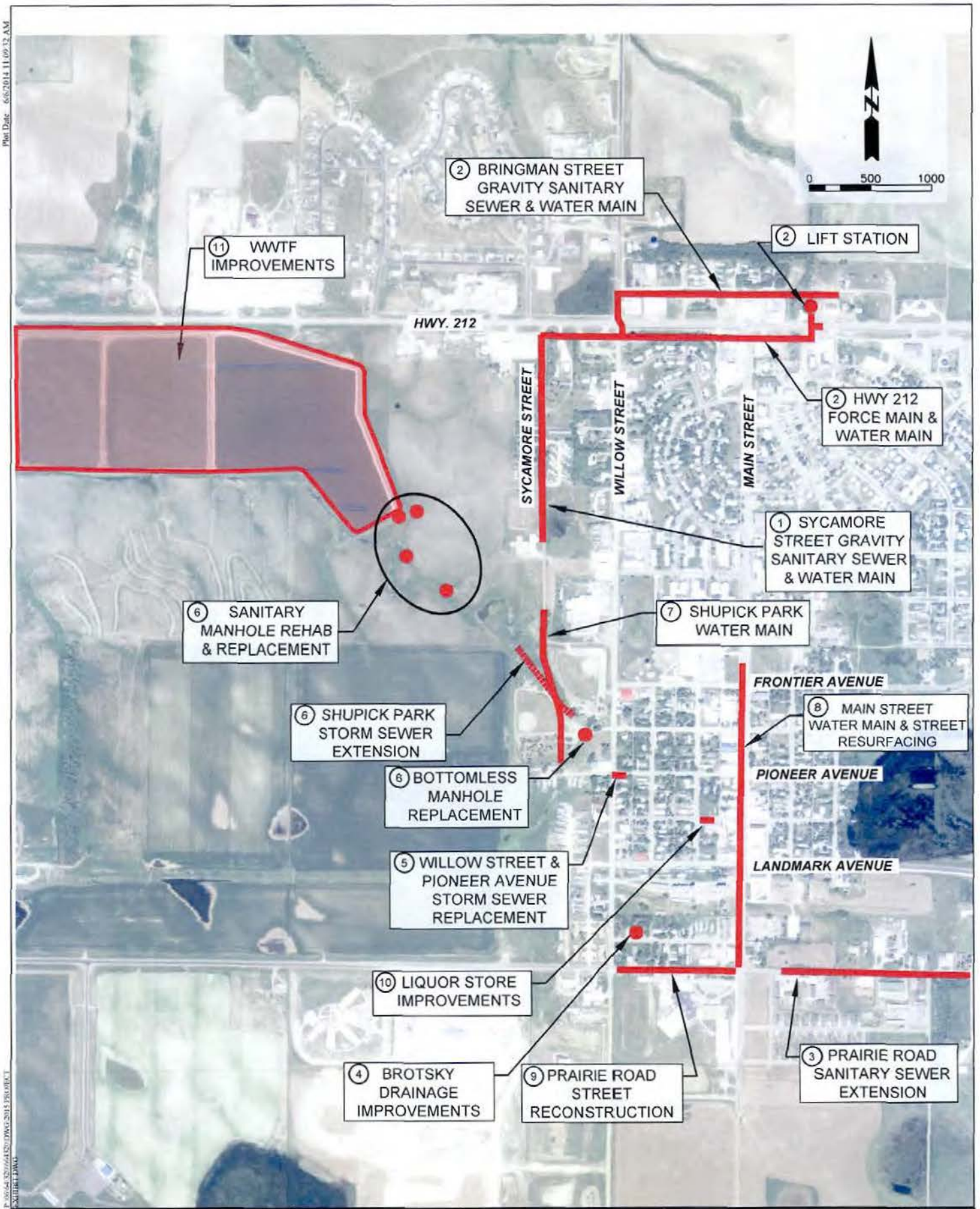
DGR Engineering

Trent Bruce

TEB/mlb

cc: Sheila Ganje, City of Eagle Butte
Jim Anderson, SDDENR

Enclosures



REV	DATE	DESCRIPTION

DGR ENGINEERING

Project Manager: TEB
Designer: JJM
Project Number: 664320
Phone: (605) 339-4157

2015 UTILITY IMPROVEMENTS EAGLE BUTTE, SD

2015 UTILITY IMPROVEMENTS PROJECT OVERVIEW

EXHIBIT A

Plot Date: 6/6/2014 11:09:12 AM

PRELIMINARY PROJECT COST ESTIMATE SUMMARY
2015 UTILITY IMPROVEMENTS AND STREET RESURFACING PROJECT
Eagle Butte, SD
Prepared by DGR Engineering
May 28, 2014

	Water DENR DW Eligible	Sanitary Sewer DENR CW Eligible	Storm Sewer DENR CW Eligible	Street Resurfacing Comm. Access Eligible	Ineligible Expenses Local Funding	TOTALS
Schedule 1:						
Phase 1A:	$772,000	$0	$54,000	$349,000	$313,000	$1,488,000
Phase 1B:	$0	$0	$0	$296,000	$0	$296,000
Total:	**$772,000**	**$0**	**$54,000**	**$645,000**	**$313,000**	**$1,784,000**
Schedule 2:						
Phase 2A:	$1,049,000	$1,666,000	$252,000	$0	$0	$2,967,000
Total:	**$1,049,000**	**$1,666,000**	**$252,000**	**$0**	**$0**	**$2,967,000**
Lagoons:						
Phase 3A:	$0	$895,000	$0	$0	$0	$895,000
Total:	**$0**	**$895,000**	**$0**	**$0**	**$0**	**$895,000**
Grand Totals:	**$1,821,000**	**$2,561,000**	**$306,000**	**$645,000**	**$313,000**	**$5,646,000**
% of Total	32%	45%	5%	11%	6%	

*Note: The Design Engineering for all Schedules/Phases has been addressed as part of previous funding packages. The City has an existing DW02 funding package with approximately $1,100,000 of remaining funds available for DW eligible expenses.

PRELIMINARY PROJECT COST ESTIMATE
2015 UTILITY IMPROVEMENTS & STREET RESURFACING - EAGLE BUTTE, SD
Schedule 1 - Main Street and Prairie Road

Prepared by DGR Engineering
May 28, 2014

ITEM NO	ITEM DESCRIPTION	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT TOTAL	PHASE 1A Main Street: Drinking Water (DW02) SRF Eligible QTY	TOTAL	Community Access Grant QTY	TOTAL	Storm Sewer QTY	TOTAL	Ineligible (100% City) QTY	TOTAL	PHASE 1B Prairie Road: Community Access Grant QTY	TOTAL
	GENERAL & STREET IMPROVEMENTS													
1	Mobilization	$160,000.00 | L.S.	1	$ 160,000.00	0.44	$ 70,400.00	0.19	$ 30,400.00	0.03	$ 4,800.00	0.18	$ 28,800.00	0.16	$ 25,600.00
2	Remove, Sawcut, & Dispose of Pavement	$ 15.00 | SQYD	6,380	$ 95,700.00	4,088	$ 61,320.00	240	$ 3,600.00	12	$ 180.00	1,830	$ 27,450.00	210	$ 3,150.00
3	Remove & Reset Fence & Posts	$ 10.00 | LFT	135	$ 1,350.00	-	$ -	-	$ -	135	$ 1,350.00	-	$ -	-	$ -
4	Remove Drop Inlet	$ 250.00 | EACH	2	$ 500.00	-	$ -	-	$ -	2	$ 500.00	-	$ -	-	$ -
5	Remove Pipe Culvert	$ 10.00 | LFT	122	$ 1,220.00	-	$ -	-	$ -	122	$ 1,220.00	-	$ -	-	$ -
6	Remove Existing Retaining Wall	$ 40.00 | LFT	65	$ 2,600.00	-	$ -	-	$ -	-	$ -	65	$ 2,600.00	-	$ -
7	Remove and Reset Sign	$ 250.00 | EACH	2	$ 500.00	-	$ -	2	$ 500.00	-	$ -	-	$ -	-	$ -
8	Clear & Grub Tree	$ 400.00 | EACH	1	$ 400.00	-	$ -	-	$ -	-	$ -	1	$ 400.00	-	$ -
9	Traffic Control	$ 30,000.00 | L.S.	1	$ 30,000.00	0.44	$ 13,200.00	0.19	$ 5,700.00	0.0	$ 900.00	0.18	$ 5,400.00	0.16	$ 4,800.00
10	Incidental Work (Grading)	$ 20,000.00 | L.S.	1	$ 20,000.00	0.60	$ 12,000.00	0.10	$ 2,000.00	-	$ -	-	$ -	0.30	$ 6,000.00
11	Incidental Work (Utilities)	$ 10,000.00 | L.S.	1	$ 10,000.00	1	$ 10,000.00	-	$ -	-	$ -	-	$ -	-	$ -
12	Haul & Dispose of Contaminated Soils	$ 50.00 | CUYD	100	$ 5,000.00	100	$ 5,000.00	-	$ -	-	$ -	-	$ -	-	$ -
13	Unclassified Excavation	$ 15.00 | CUYD	1,400	$ 21,000.00	400	$ 6,000.00	-	$ -	40	$ 600.00	-	$ -	960	$ 14,400.00
14	Unclassified Excavation - Digouts	$ 10.00 | CUYD	100	$ 1,000.00	50	$ 500.00	-	$ -	-	$ -	-	$ -	50	$ 500.00
15	Water for Embankment	$ 50.00 | MGAL	14	$ 700.00	4	$ 200.00	-	$ -	-	$ -	-	$ -	10	$ 500.00
16	Water for Granular Material	$ 50.00 | MGAL	50	$ 2,500.00	25	$ 1,250.00	10	$ 500.00	-	$ -	-	$ -	15	$ 750.00
17	Water for Vegetation	$ 50.00 | MGAL	22	$ 1,100.00	3	$ 150.00	4	$ 200.00	-	$ -	-	$ -	15	$ 750.00
18	9" Scarify & Recompact	$ 2.00 | SQYD	3,828	$ 7,656.00	3,828	$ 7,656.00	-	$ -	-	$ -	-	$ -	-	$ -
19	Gravel Cushion	$ 25.00 | TON	827	$ 20,675.00	47	$ 1,175.00	55	$ 1,375.00	21	$ 525.00	704	$ 17,600.00	-	$ -
20	Aggregate Base Course	$ 25.00 | TON	2,530	$ 63,250.00	1,402	$ 35,050.00	-	$ -	40	$ 1,000.00	-	$ -	1,088	$ 27,200.00
21	Aggregate Base Course, Salvaged Mix Material	$ 15.00 | TON	1,065	$ 15,975.00	-	$ -	1,065	$ 15,975.00	-	$ -	-	$ -	-	$ -
22	Salvage & Stockpile Asphalt Mix Material	$ 5.00 | TON	2,834	$ 14,170.00	-	$ -	1,958	$ 9,790.00	-	$ -	-	$ -	876	$ 4,380.00
23	Gravel Surfacing	$ 25.00 | TON	90	$ 2,250.00	-	$ -	90	$ 2,250.00	-	$ -	-	$ -	-	$ -
24	PG 64-28 Asphalt Binder	$ 820.00 | TON	207	$ 169,740.00	80	$ 65,600.00	62	$ 50,840.00	2	$ 1,640.00	-	$ -	63	$ 51,660.00
25	Cold Milling Asphalt Concrete - Full Depth	$ 4.00 | SQYD	3,157	$ 12,628.00	-	$ -	-	$ -	-	$ -	-	$ -	3,157	$ 12,628.00
26	Cold Milling Asphalt Concrete - Depth Varies	$ 3.00 | SQYD	11,762	$ 35,286.00	-	$ -	11,762	$ 35,286.00	-	$ -	-	$ -	-	$ -
27	Class E Asphalt Concrete	$ 70.00 | TON	3,224	$ 225,680.00	1,243	$ 87,010.00	970	$ 67,900.00	14	$ 980.00	-	$ -	997	$ 69,790.00
28	Asphalt Concrete Leveling Lift	$ 70.00 | TON	100	$ 7,000.00	50	$ 3,500.00	50	$ 3,500.00	-	$ -	-	$ -	-	$ -
29	SS-1h or CSS-1h Asphalt for Tack	$ 820.00 | TON	5.30	$ 4,346.00	1.76	$ 1,443.20	2.71	$ 2,222.20	0.03	$ 24.60	-	$ -	0.80	$ 656.00
30	SS-1h or CSS-1h Asphalt for Flush Seal	$ 820.00 | TON	5.28	$ 4,329.60	0.84	$ 688.80	2.71	$ 2,222.20	-	$ -	0.93	$ 762.60	0.80	$ 656.00
31	Sand for Flush Seal	$ 30.00 | TON	92	$ 2,760.00	15	$ 450.00	47	$ 1,410.00	-	$ -	16	$ 480.00	14	$ 420.00
32	Trench Stabilization Material	$ 30.00 | TON	200	$ 6,000.00	200	$ 6,000.00	-	$ -	-	$ -	-	$ -	-	$ -
33	6" Concrete Fillet	$ 80.00 | SQYD	48	$ 3,840.00	10	$ 800.00	28	$ 2,240.00	-	$ -	10	$ 800.00	-	$ -
34	6" Concrete Valley Gutter	$ 80.00 | SQYD	50	$ 4,000.00	50	$ 4,000.00	-	$ -	-	$ -	-	$ -	-	$ -
35	6" Curb and Gutter	$ 30.00 | LFT	734	$ 22,020.00	160	$ 4,800.00	320	$ 9,600.00	94	$ 2,820.00	160	$ 4,800.00	-	$ -
36	6" Drop Curb	$ 30.00 | LFT	130	$ 3,900.00	-	$ -	-	$ -	-	$ -	130	$ 3,900.00	-	$ -
37	4" Concrete Sidewalk	$ 6.00 | SQFT	14,960	$ 89,760.00	350	$ 2,100.00	1,020	$ 6,120.00	60	$ 360.00	13,530	$ 81,180.00	-	$ -
38	6" Non Reinforced Concrete	$ 8.00 | SQFT	1,610	$ 12,880.00	-	$ -	-	$ -	-	$ -	1,610	$ 12,880.00	-	$ -
39	6" Concrete Apron	$ 80.00 | SQYD	40	$ 3,200.00	-	$ -	-	$ -	40	$ 3,200.00	-	$ -	-	$ -
40	Detectable Warning Panel	$ 40.00 | SQFT	90	$ 3,600.00	-	$ -	80	$ 3,200.00	-	$ -	10	$ 400.00	-	$ -
41	Modular Block Retaining Wall	$ 80.00 | SQFT	800	$ 64,000.00	-	$ -	-	$ -	-	$ -	800	$ 64,000.00	-	$ -
42	Steel Handrail	$ 45.00 | LFT	30	$ 1,350.00	-	$ -	-	$ -	-	$ -	30	$ 1,350.00	-	$ -
43	6' Chain Link Fence w/ Privacy Slats	$ 50.00 | LFT	30	$ 1,500.00	-	$ -	-	$ -	-	$ -	30	$ 1,500.00	-	$ -
44	6' Chain Link Swing Gate w/ Privacy Slats (48")	$ 2,000.00 | EACH	1	$ 2,000.00	-	$ -	-	$ -	-	$ -	1	$ 2,000.00	-	$ -
45	6' Chain Link Swing Gate w/ Privacy Slats (60")	$ 2,500.00 | EACH	2	$ 5,000.00	-	$ -	-	$ -	-	$ -	2	$ 5,000.00	-	$ -
46	24" Arch RCP Class II, F&I	$ 90.00 | LFT	36	$ 3,240.00	-	$ -	-	$ -	36	$ 3,240.00	-	$ -	-	$ -
47	30" RCP Class II, F&I	$ 85.00 | LFT	83	$ 7,055.00	-	$ -	-	$ -	83	$ 7,055.00	-	$ -	-	$ -
48	SF10 Type Inlet	$ 2,500.00 | EACH	2	$ 5,000.00	-	$ -	-	$ -	2	$ 5,000.00	-	$ -	-	$ -
49	Type B Inlet	$ 2,000.00 | EACH	2	$ 4,000.00	-	$ -	-	$ -	2	$ 4,000.00	-	$ -	-	$ -
50	Pavement Marking Paint, 4" White	$ 1.00 | LFT	3,716	$ 3,716.00	-	$ -	3,116	$ 3,116.00	-	$ -	600	$ 600.00	-	$ -
51	Pavement Marking Paint, 4" Yellow	$ 1.00 | LFT	6,378	$ 6,378.00	-	$ -	3,286	$ 3,286.00	-	$ -	1,136	$ 1,136.00	1,956	$ 1,956.00
52	Pavement Marking Paint, 6" White	$ 1.50 | LFT	1,470	$ 2,205.00	-	$ -	1,172	$ 1,758.00	-	$ -	216	$ 324.00	82	$ 123.00
53	Pavement Marking Paint, 24" White	$ 2.50 | LFT	1,210	$ 3,025.00	-	$ -	896	$ 2,240.00	-	$ -	218	$ 545.00	96	$ 240.00
54	Pavement Marking Handicap	$ 250.00 | EACH	5	$ 1,250.00	-	$ -	5	$ 1,250.00	-	$ -	-	$ -	-	$ -
55	Salvage & Replace Topsoil	$ 5.00 | CUYD	275	$ 1,375.00	80	$ 400.00	-	$ -	-	$ -	-	$ -	195	$ 975.00
56	Permanent Seed, Fertilize & Mulch	$ 3,500.00 | ACRE	0.7	$ 2,450.00	0.10	$ 350.00	0.10	$ 350.00	0.20	$ 700.00	-	$ -	0.30	$ 1,050.00
57	Temporary Low Flow Silt Fence	$ 5.00 | LFT	40	$ 200.00	-	$ -	-	$ -	20.00	$ 100.00	-	$ -	20	$ 100.00
58	Inlet Protection	$ 250.00 | EACH	15	$ 3,750.00	9	$ 2,250.00	-	$ -	3	$ 750.00	-	$ -	3	$ 750.00
59	Vehicle Tracking Control	$ 250.00 | EACH	3	$ 750.00	2	$ 500.00	-	$ -	-	$ -	-	$ -	1	$ 250.00
60	Verify & Locate Utility	$ 500.00 | EACH	5	$ 2,500.00	5	$ 2,500.00	-	$ -	-	$ -	-	$ -	-	$ -

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT TOTAL	Main Street: Drinking Water (DW02) SRF Eligible QTY	TOTAL	Community Access Grant QTY	TOTAL	Storm Sewer QTY	TOTAL	Ineligible (100% City) QTY	TOTAL	Prairie Road: Community Access Grant QTY	TOTAL
	WATER MAIN IMPROVEMENTS													
61	6" C900 DR18 PVC Water Main	$ 25.00 / L.FT	171	$ 4,275.00	171	$ 4,275.00	-	$ -	-	$ -	-	$ -	-	$ -
62	8" C900 DR18 PVC Water Main	$ 30.00 / L.FT	2,191	$ 65,730.00	2,191	$ 65,730.00	-	$ -	-	$ -	-	$ -	-	$ -
63	8" MJ Gate Valve with Box	$ 1,600.00 / EACH	9	$ 14,400.00	9	$ 14,400.00	-	$ -	-	$ -	-	$ -	-	$ -
64	6" MJ 90° Bend	$ 400.00 / EACH	10	$ 4,000.00	10	$ 4,000.00	-	$ -	-	$ -	-	$ -	-	$ -
65	8" MJ 90° Bend	$ 500.00 / EACH	2	$ 1,000.00	2	$ 1,000.00	-	$ -	-	$ -	-	$ -	-	$ -
66	8"x6" MJ Tee	$ 650.00 / EACH	4	$ 2,600.00	4	$ 2,600.00	-	$ -	-	$ -	-	$ -	-	$ -
67	8"x8" MJ Tee	$ 700.00 / EACH	2	$ 1,400.00	2	$ 1,400.00	-	$ -	-	$ -	-	$ -	-	$ -
68	8"x8" MJ Cross	$ 1,000.00 / EACH	1	$ 1,000.00	1	$ 1,000.00	-	$ -	-	$ -		$ -		$ -
69	8"x6" MJ Reducer	$ 400.00 / EACH	6	$ 2,400.00	6	$ 2,400.00	-	$ -	-	$ -	-	$ -	-	$ -
70	8" MJ Long Sleeve	$ 350.00 / EACH	6	$ 2,100.00	6	$ 2,100.00	-	$ -	-	$ -	-	$ -	-	$ -
71	Connect to Existing Water Main	$ 1,000.00 / EACH	6	$ 6,000.00	6	$ 6,000.00	-	$ -	-	$ -	-	$ -	-	$ -
72	Temporary Water Service	$ 30,000.00 / L.S.	1	$ 30,000.00	1	$ 30,000.00	-	$ -	-	$ -	-	$ -	-	$ -
73	Remove and Salvage Existing Fire Hydrant	$ 500.00 / EACH	4	$ 2,000.00	4	$ 2,000.00	-	$ -	-	$ -	-	$ -	-	$ -
74	Standard Fire Hydrant	$ 3,000.00 / EACH	4	$ 12,000.00	4	$ 12,000.00	-	$ -	-	$ -	-	$ -	-	$ -
75	Connect to Existing Water Service	$ 1,000.00 / EACH	35	$ 35,000.00	35	$ 35,000.00	-	$ -	-	$ -	-	$ -	-	$ -
76	Pipe Bollards	$ 500.00 / EACH	8	$ 4,000.00	8	$ 4,000.00	-	$ -	-	$ -	-	$ -	-	$ -
		Construction Subtotal		$ 1,397,164.60		$ 594,108.00		$ 268,830.40		$ 40,944.60		$ 263,907.60		$ 229,284.00
		Contingencies (10%)		$ 114,835.40		$ 59,602.00		$ 26,169.60		$ 4,055.40		$ 2,092.40		$ 22,716.00
		Estimated Construction Total:		**$ 1,512,000.00**		**$ 654,000.00**		**$ 295,000.00**		**$ 45,000.00**		**$ 266,000.00**		**$ 252,000.00**
		Engineering & Administration Fees (8%)		$ 121,000.00		$ 52,000.00		$ 24,000.00		$ 4,000.00		$ 21,000.00		$ 20,000.00
		Geotechnical Services (2%)		$ 30,000.00		$ 13,000.00		$ 6,000.00		$ 1,000.00		$ 5,000.00		$ 5,000.00
		Admin/Legal (2%)		$ 30,000.00		$ 13,000.00		$ 6,000.00		$ 1,000.00		$ 5,000.00		$ 5,000.00
		Financing (5%)		$ 75,000.00		$ 33,000.00		$ 15,000.00		$ 2,000.00		$ 13,000.00		$ 12,000.00
		Miscellaneous (1%)		$ 16,000.00		$ 7,000.00		$ 3,000.00		$ 1,000.00		$ 3,000.00		$ 2,000.00
		ESTIMATED TOTAL PROJECT:		**$1,784,000.00**		**$772,000.00**		**$349,000.00**		**$54,000.00**		**$313,000.00**		**$296,000.00**

PRELIMINARY PROJECT COST ESTIMATE
2015 UTILITY IMPROVEMENTS - EAGLE BUTTE, SD
Schedule II - Sycamore Street, Highway 212, & Bringman Street, Prairie Road & Shupick Park

Prepared by DGR Engineering
May 28, 2014

ITEM NO	ITEM DESCRIPTION	UNIT PRICE		TOTAL PROJECT QTY	TOTAL PROJECT TOTAL	Water Main QTY	Water Main TOTAL	Sanitary Sewer QTY	Sanitary Sewer TOTAL	Storm Sewer QTY	Storm Sewer TOTAL
	GENERAL & STREET IMPROVEMENTS										
1	Mobilization	$ 300,000.00	L.S.	1	$ 300,000.00	0.35	$ 105,000.00	0.56	$ 168,000.00	0.09	$ 27,000.00
2	Remove, Sawcut, & Dispose of Pavement	$ 15.00	SQYD	970	$ 14,550.00	275	$ 4,125.00	695	$ 10,425.00	-	$ -
3	Remove, Salvage and Reset Fence & Posts	$ 10.00	LFT	380	$ 3,800.00	190	$ 1,900.00	190	$ 1,900.00	-	$ -
4	Remove Pipe Culvert	$ 10.00	LFT	228	$ 2,280.00	114	$ 1,140.00	114	$ 1,140.00	-	$ -
5	Remove Sanitary Manhole	$ 500.00	EACH	2	$ 1,000.00	-	$ -	2	$ 1,000.00	-	$ -
6	Remove & Reset 48" RCP Flared End	$ 2,000.00	EACH	1	$ 2,000.00	-	$ -	-	$ -	1	$ 2,000.00
7	Remove and Reset Sign	$ 250.00	EACH	1	$ 250.00	0.50	$ 125.00	0.5	$ 125.00		$ -
8	Clearing	$ 10,000.00	L.S.	1	$ 10,000.00	0.4	$ 4,000.00	0.3	$ 3,000.00	0.3	$ 3,000.00
9	Clear & Grub Tree	$ 400.00	L.S.	8	$ 3,200.00	2	$ 800.00	2	$ 800.00	4	$ 1,600.00
10	Traffic Control	$ 10,000.00	L.S.	1	$ 10,000.00	0.35	$ 3,500.00	0.56	$ 5,600.00	0.09	$ 900.00
11	Incidental Work (Grading)	$ 5,000.00	L.S.	1	$ 5,000.00	0.45	$ 2,250.00	0.45	$ 2,250.00	0.10	$ 500.00
12	Incidental Work (Utilities)	$ 35,000.00	L.S.	1	$ 35,000.00	0.5	$ 17,500.00	0.5	$ 17,500.00	-	$ -
13	Unclassified Excavation	$ 10.00	CUYD	2,760	$ 27,600.00	380	$ 3,800.00	380	$ 3,800.00	2,000	$ 20,000.00
14	Unclassified Excavation - Digouts	$ 8.00	CUYD	100	$ 800.00	50	$ 400.00	50	$ 400.00	-	$ -
15	Water for Embankment	$ 50.00	M.GAL	16	$ 800.00	8	$ 400.00	8	$ 400.00	-	$ -
16	Water for Granular Material	$ 50.00	M.GAL	4	$ 200.00	2	$ 100.00	2	$ 100.00	-	$ -
17	Water for Vegetation	$ 50.00	M.GAL	460	$ 23,000.00	165	$ 8,250.00	165	$ 8,250.00	130	$ 6,500.00
18	*9" Scarify & Recompact*	$ 2.00	SQYD	8,000	$ 16,000.00	4,000	$ 8,000.00	4,000	$ 8,000.00	-	$ -
19	Gravel Cushion	$ 30.00	TON	36	$ 1,080.00	18	$ 540.00	18	$ 540.00	-	$ -
20	Gravel Surfacing, Salvaged & Placed	$ 10.00	TON	380	$ 3,800.00	125	$ 1,250.00	125	$ 1,250.00	130	$ 1,300.00
21	Gravel Surfacing	$ 30.00	TON	3,500	$ 105,000.00	1,750	$ 52,500.00	1,750	$ 52,500.00	-	$ -
22	Aggregate Base Course	$ 30.00	TON	210	$ 6,300.00	30	$ 900.00	180	$ 5,400.00	-	$ -
23	City Furnished Asphalt Millings	$ 5.00	SQYD	5,650	$ 28,250.00	2,825	$ 14,125.00	2,825	$ 14,125.00	-	$ -
24	Asphalt Concrete for Patching	$ 150.00	TON	144	$ 21,600.00	22	$ 3,300.00	122	$ 18,300.00	-	$ -
25	Trench Stabilization Material	$ 30.00	TON	400	$ 12,000.00	175	$ 5,250.00	225	$ 6,750.00	-	$ -
26	Class A Rip Rap	$ 40.00	TON	40	$ 1,600.00	-	$ -	-	$ -	40	$ 1,600.00
27	Type B Drainage Fabric	$ 5.00	SQYD	35	$ 175.00	-	$ -	-	$ -	35	$ 175.00
28	6" PCC Approach Pavement	$ 80.00	SQYD	32	$ 2,560.00	16	$ 1,280.00	16	$ 1,280.00	-	$ -
29	6" Concrete Fillet	$ 80.00	SQYD	15	$ 1,200.00	7.5	$ 600.00	7.5	$ 600.00	-	$ -
30	6" Concrete Valley Gutter	$ 80.00	SQYD	16	$ 1,280.00	8	$ 640.00	8.0	$ 640.00	-	$ -
31	4" Concrete Sidewalk	$ 6.00	SQFT	1,190	$ 7,140.00	595	$ 3,570.00	595	$ 3,570.00	-	$ -
32	12" CMP 16 Gauge, F&I	$ 30.00	LFT	26	$ 780.00	13	$ 390.00	13	$ 390.00	-	$ -
33	18" CMP 16 Gauge, F&I	$ 35.00	LFT	172	$ 6,020.00	86.0	$ 3,010.00	86	$ 3,010.00	-	$ -
34	24" CMP 16 Gauge, F&I	$ 40.00	LFT	36	$ 1,440.00	18.0	$ 720.00	18	$ 720.00	-	$ -
35	12" CMP Flared End, F&I	$ 250.00	EACH	2	$ 500.00	1	$ 250.00	1	$ 250.00	-	$ -
36	18" CMP Flared End, F&I	$ 325.00	EACH	4	$ 1,300.00	2	$ 650.00	2	$ 650.00	-	$ -
37	24" CMP Flared End, F&I	$ 400.00	EACH	1	$ 400.00	0.5	$ 200.00	0.5	$ 200.00	-	$ -
38	48" RCP Class II, F&I	$ 200.00	LFT	568	$ 113,600.00	-	$ -	-	$ -	568	$ 113,600.00
39	Storm Sewer Catch Basin/ Drop Structure	$ 5,000.00	EACH	1	$ 5,000.00	-	$ -	-	$ -	1	$ 5,000.00
40	Connect to Existing Storm Sewer	$ 1,000.00	EACH	1	$ 1,000.00	0.5	$ 500.00	0.5	$ 500.00	-	$ -
41	Salvage & Replace Topsoil	$ 5.00	CUYD	3,170	$ 15,850.00	1,225	$ 6,125.00	1,225	$ 6,125.00	720	$ 3,600.00
42	Permanent Seed, Fertilize & Mulch	$ 3,500.00	ACRE	7.4	$ 25,900.00	3.3	$ 11,550.00	2.3	$ 8,050.00	1.8	$ 6,300.00
43	*Temporary Low Flow Silt Fence*	$ 5.00	LFT	280	$ 1,400.00	30	$ 150.00	30	$ 150.00	220	$ 1,100.00
44	Inlet Protection	$ 250.00	EACH	22	$ 5,500.00	10	$ 2,500.00	12	$ 3,000.00	-	$ -
45	Vehicle Tracking Control	$ 250.00	EACH	3	$ 750.00	1	$ 250.00	2	$ 500.00	-	$ -
46	9" Erosion Control Wattle	$ 10.00	LFT	100	$ 1,000.00	50	$ 500.00	50	$ 500.00	-	$ -
47	Verify & Locate Utility	$ 500.00	EACH	20	$ 10,000.00	10	$ 5,000.00	10	$ 5,000.00	-	$ -
	SEWER MAIN IMPROVEMENTS										
48	4" C900 DR18 PVC Force Main	$ 35.00	LFT	2,195	$ 76,825.00	-	$ -	2,195	$ 76,825.00	-	$ -
49	8" SRD26 Sanitary Sewer Main	$ 50.00	LFT	4,812	$ 240,600.00	-	$ -	4,812	$ 240,600.00	-	$ -
50	6" PVC Cleanout	$ 250.00	EACH	2	$ 500.00	-	$ -	2	$ 500.00	-	$ -
51	4" MJ 90° Bend	$ 200.00	EACH	2	$ 400.00	-	$ -	2	$ 400.00	-	$ -
52	4" PVC Cap	$ 150.00	EACH	27	$ 4,050.00	-	$ -	27	$ 4,050.00	-	$ -
53	6" PVC Cap	$ 200.00	EACH	15	$ 3,000.00	-	$ -	15	$ 3,000.00	-	$ -
54	8" PVC Cap	$ 300.00	EACH	1	$ 300.00	-	$ -	1	$ 300.00	-	$ -
55	4" Sanitary Sewer Service	$ 25.00	LFT	1,054	$ 26,350.00	-	$ -	1,054	$ 26,350.00	-	$ -
56	6" Sanitary Sewer Service	$ 25.00	LFT	978	$ 24,450.00	-	$ -	978	$ 24,450.00	-	$ -
57	8"x4" Sewer Wye	$ 300.00	EACH	27	$ 8,100.00	-	$ -	27	$ 8,100.00	-	$ -
58	8"x6" Sewer Wye	$ 300.00	EACH	15	$ 4,500.00	-	$ -	15	$ 4,500.00	-	$ -
59	Connect to Existing Sanitary Sewer Service	$ 1,000.00	EACH	37	$ 37,000.00	-	$ -	37	$ 37,000.00	-	$ -
60	Remove/Abandon Septic Tank	$ 750.00	EACH	29	$ 21,750.00	-	$ -	29	$ 21,750.00	-	$ -
61	48" Lined Sanitary Manhole w/Frame & Lid	$ 7,500.00	EACH	18	$ 135,000.00	-	$ -	18	$ 135,000.00	-	$ -
62	Manhole Rehabilitation	$ 4,000.00	EACH	3	$ 12,000.00	-	$ -	3	$ 12,000.00	-	$ -
63	Sanitary Sewer Drop Section	$ 1,500.00	EACH	1	$ 1,500.00	-	$ -	1	$ 1,500.00	-	$ -
64	Air Release Valve & Assembly	$ 5,000.00	EACH	1	$ 5,000.00	-	$ -	1	$ 5,000.00	-	$ -
65	10" Casing Pipe	$ 50.00	LFT	420	$ 21,000.00	-	$ -	420	$ 21,000.00	-	$ -

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE	TOTAL PROJECT QTY	TOTAL PROJECT TOTAL	Water Main QTY	Water Main TOTAL	Sanitary Sewer QTY	Sanitary Sewer TOTAL	Storm Sewer QTY	Storm Sewer TOTAL
66	10" Boring	$ 75.00 | LFT	420	$ 31,500.00	-	$ -	420	$ 31,500.00	-	$ -
67	Bore Obstruction	$ 500.00 | EACH	1	$ 500.00	-	$ -	1	$ 500.00	-	$ -
68	4" C900 Joint Restrained Force Main	$ 30.00 | LFT	420	$ 12,600.00	-	$ -	420	$ 12,600.00	-	$ -
69	Connect to Existing Sanitary Sewer	$ 1,000.00 | EACH	6	$ 6,000.00	-	$ -	6	$ 6,000.00	-	$ -
70	Sanitary Sewer Bypass Pumping	$ 5,000.00 | L.S.	1	$ 5,000.00	-	$ -	1.0	$ 5,000.00	-	$ -
71	Sanitary Sewer Lift Station	$ 160,000.00 | L.S.	1	$ 160,000.00	-	$ -	1	$ 160,000.00	-	$ -
72	Electrical Control Panel & Generator	$ 75,000.00 | L.S.	1	$ 75,000.00	-	$ -	1	$ 75,000.00	-	$ -
73	16' Swing Gate w/Barbed Top	$ 1,000.00 | EACH	2	$ 2,000.00	-	$ -	2	$ 2,000.00	-	$ -
74	6' Chain Link Fence w/Barbed Top	$ 30.00 | LFT	68	$ 2,040.00	-	$ -	68	$ 2,040.00	-	$ -
	WATER MAIN IMPROVEMENTS									
75	6" C900 DR18 PVC Water Main	$ 30.00 | LFT	9,170	$ 275,100.00	9,170	$ 275,100.00	-	$ -	-	$ -
76	12" C900 DR18 PVC Water Main	$ 50.00 | LFT	30	$ 1,500.00	30	$ 1,500.00	-	$ -	-	$ -
77	6" MJ Gate Valve w/ Box	$ 1,000.00 | EACH	20	$ 20,000.00	20	$ 20,000.00	-	$ -	-	$ -
78	6" MJ 11 1/4° Bend	$ 400.00 | EACH	2	$ 800.00	2	$ 800.00	-	$ -	-	$ -
79	6" MJ 45° Bend	$ 400.00 | EACH	2	$ 800.00	2	$ 800.00	-	$ -	-	$ -
80	6" MJ 90° Bend	$ 400.00 | EACH	6	$ 2,400.00	6	$ 2,400.00	-	$ -	-	$ -
81	6"x6" MJ Tee	$ 500.00 | EACH	24	$ 12,000.00	24	$ 12,000.00	-	$ -	-	$ -
82	6" MJ Long Sleeve	$ 350.00 | EACH	2	$ 700.00	2	$ 700.00	-	$ -	-	$ -
83	6" MJ Cap	$ 200.00 | EACH	5	$ 1,000.00	5	$ 1,000.00	-	$ -	-	$ -
84	12" MJ Cap	$ 450.00 | EACH	2	$ 900.00	2	$ 900.00	-	$ -	-	$ -
85	1" Water Service Corp Stop w/Saddle	$ 220.00 | EACH	19	$ 4,180.00	19	$ 4,180.00	-	$ -	-	$ -
86	2" Water Service Corp Stop w/Saddle	$ 300.00 | EACH	13	$ 3,900.00	13	$ 3,900.00	-	$ -	-	$ -
87	1" Curb Stop w/Box	$ 185.00 | EACH	19	$ 3,515.00	19	$ 3,515.00	-	$ -	-	$ -
88	2" Curb Stop w/Box	$ 250.00 | EACH	13	$ 3,250.00	13	$ 3,250.00	-	$ -	-	$ -
89	1" Water Service	$ 13.00 | LFT	750	$ 9,750.00	750	$ 9,750.00	-	$ -	-	$ -
90	2" Water Service	$ 20.00 | LFT	500	$ 10,000.00	500	$ 10,000.00	-	$ -	-	$ -
91	Connect to Existing Water Service	$ 1,000.00 | EACH	32	$ 32,000.00	32	$ 32,000.00	-	$ -	-	$ -
92	12" Casing Pipe	$ 55.00 | LFT	430	$ 23,650.00	430	$ 23,650.00	-	$ -	-	$ -
93	12" Boring	$ 80.00 | LFT	430	$ 34,400.00	430	$ 34,400.00	-	$ -	-	$ -
94	Bore Obstruction	$ 500.00 | LFT	1	$ 500.00	1	$ 500.00	-	$ -	-	$ -
95	6" C900 Joint Restrained Water Main	$ 30.00 | LFT	510	$ 15,300.00	510	$ 15,300.00	-	$ -	-	$ -
96	Connect to Existing Water Main	$ 1,000.00 | LFT	4	$ 4,000.00	4	$ 4,000.00	-	$ -	-	$ -
97	Temporary Water Service	$ 15,000.00 | L.S.	1	$ 15,000.00	1	$ 15,000.00		$ -	-	$ -
98	Remove & Salvage Existing Fire Hydrant	$ 500.00 | LFT	1	$ 500.00	1	$ 500.00	-	$ -	-	$ -
99	Standard Fire Hydrant	$ 3,000.00 | LFT	16	$ 48,000.00	16	$ 48,000.00	-	$ -	-	$ -
100	Salvage & Reset Existing Yard Hydrant	$ 1,000.00 | EACH	1	$ 1,000.00	1	$ 1,000.00	-	$ -	-	$ -
101	Pipe Bollards	$ 200.00 | EACH	33	$ 6,600.00	33	$ 6,600.00	-	$ -	-	$ -
		Construction Subtota		$ 2,285,615.00		$ 807,785.00		$ 1,283,655.00		$ 194,175.00
		Contingencies (10%)		$ 228,385.00		$ 80,215.00		$ 128,345.00		$ 19,825.00
		Estimated Construction Total:	**$**	**2,514,000.00**	**$**	**888,000.00**	**$**	**1,412,000.00**	**$**	**214,000.00**
		Engineering & Administration Fees (8%)		$ 201,000.00		$ 71,000.00		$ 113,000.00		$ 17,000.00
		Geotechnical Services (2%)		$ 50,000.00		$ 18,000.00		$ 28,000.00		$ 4,000.00
		Admin/Legal (2%)		$ 50,000.00		$ 18,000.00		$ 28,000.00		$ 4,000.00
		Financing (5%)		$ 127,000.00		$ 45,000.00		$ 71,000.00		$ 11,000.00
		Miscellaneous (1%)		$ 25,000.00		$ 9,000.00		$ 14,000.00		$ 2,000.00
		ESTIMATED TOTAL PROJECT:		**$2,967,000.00**		**$1,049,000.00**		**$1,666,000.00**		**$252,000.00**

PRELIMINARY PROJECT COST ESTIMATE
SANITARY SEWER LAGOON IMPROVEMENTS PROJECT - EAGLE BUTTE, SD

Prepared by DGR Engineering
May 28, 2014

ITEM NO.	ITEM DESCRIPTION	UNIT PRICE		TOTAL PROJECT Lagoon Improvements QTY	TOTAL
	SANITARY SEWER LAGOON IMPROVEMENTS				
1	Mobilization	$ 50,000.00	L.S.	1	$ 75,000.00
2	12" DIP transfer pipe	$ 125.00	L.FT	230	$ 28,750.00
3	12" Gate valve and box	$ 3,600.00	EACH	4	$ 14,400.00
4	12" DIP 90 deg. Bend	$ 1,000.00	EACH	2	$ 2,000.00
5	12" DIP 45 deg. Bend	$ 1,000.00	EACH	10	$ 10,000.00
6	Control structure	$ 7,000.00	EACH	2	$ 14,000.00
7	6" Concrete slab	$ 60.00	SQFT	650	$ 39,000.00
8	12" DIP inlet pipe	$ 125.00	L.FT	300	$ 37,500.00
9	Connect to existing inlet pipe	$ 12,000.00	L.S.	1	$ 12,000.00
10	Inlet discharge concrete pad	$ 7,000.00	L.S.	1	$ 7,000.00
11	1/2 HP Diffused aeration system	$ 4,000.00	EACH	3	$ 12,000.00
12	1/2" Weighted PVC air hose	$ 2.50	L.FT	2,500	$ 6,250.00
13	2 HP Floating aerators	$ 4,750.00	EACH	6	$ 28,500.00
14	Stainless steel anchor cable	$ 3.50	L.FT	650	$ 2,275.00
15	Aerator power cable	$ 16.00	L.FT	4,300	$ 68,800.00
16	Installation of diffusers and aerators	$ 6,000.00	EACH	9	$ 54,000.00
17	Electrical power	$ 18.00	L.FT	2,750	$ 49,500.00
18	Sludge removal and land application	$ 25.00	TON	4,800	$ 120,000.00
19	Control Building	$ 30,000.00	L.S.	1	$ 30,000.00
20	Electrical controls	$ 60,000.00	L.S.	1	$ 60,000.00
21	Transfer pumping	$ 30,000.00	L.S.	1	$ 30,000.00
			Construction Subtotal		$ 700,975.00
			Contingencies (10%)		$ 70,025.00
			Estimated Construction Total:	**$**	**771,000.00**
			Engineering & Administration Fees (8%)		$ 62,000.00
			Admin/Legal (2%)		$ 15,000.00
			Financing (5%)		$ 39,000.00
			Miscellaneous (1%)		$ 8,000.00
			ESTIMATED TOTAL PROJECT:		**$895,000.00**

Annual Operations and Maintenance Costs

1	Electrical Operating costs at 12 hours/day/year	$11,400.00
2	Maintenance costs at 2 persons/day, 4 times per year	$1,600.00
		$13,000.00 Per Year

CITY OF EAGLE BUTTE

FINANCIAL STATEMENTS AND ACCOUNTANT'S COMPILATION REPORT
FOR THE MONTH ENDED DECEMBER 2013
AND THE YEAR ENDED -DECEMBER 31, 2013

Ketel Thorstenson, LLP
Certified Public Accountants/Business & Personal Consultants

810 Quincy Street • Rapid City, SD 57701 • www.ktllp.com

CITY OF EAGLE BUTTE

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ACCOUNTANT'S COMPILATION REPORT

City Council
City of Eagle Butte
Eagle Butte, South Dakota

We have compiled the accompanying modified cash basis financial statements of each major fund and the aggregate remaining fund information of the **CITY OF EAGLE BUTTE** (the City), as of and for the month ended December 31, 2013, and for the year ended December 31, 2013, which collectively comprise the City's basic financial statements, as listed in the table of contents. We have not audited or reviewed the accompanying financial statements and, accordingly, do not express an opinion or provide any assurance about whether the financial statements are in accordance with the modified cash basis of accounting.

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the modified cash basis of accounting and for designing, implementing, and maintaining internal control relevant to the preparation and fair presentation of the financial statements.

Our responsibility is to conduct the compilation in accordance with Statements on Standards for Accounting and Review Services issued by the American Institute of Certified Public Accountants. The objective of a compilation is to assist the management of the City in presenting financial information in the form of financial statements without undertaking to obtain or provide any assurance that there are no material modifications that should be made to the financial statements.

These financial statements were prepared on the modified cash basis, which is a comprehensive basis of accounting other than accounting principles generally accepted in the United States of America. Under the modified cash basis of accounting, transactions are recorded in the accounts when cash is received or disbursed. Under the modified cash basis of accounting, the statement of net position reports only cash and certificates of deposit.

In addition, the accompanying statements include investment activity. Accordingly, the investments are carried at fair market value, and the unrealized holding gains are included as "investment earnings" in the statement of revenues, expenditures, and changes in fund balances.

As a result of the use of the modified cash basis of accounting, certain assets and their related revenues (such as accounts receivable and revenue for billed or provided services not yet collected) and certain liabilities and their related expenses (such as accounts payable and expenses for goods or services received but not yet paid, and accrued expenses and liabilities) are not recorded in these financial statements. In addition, modified cash basis statements exclude inventory, capital assets, and long-term debt balances.

If the City applied accounting principles generally accepted in the United States of America, the fund financial statements for governmental funds would use the modified accrual basis of accounting, while the government-wide financial statements and proprietary fund financial statements would use the accrual basis of accounting.

Management has elected to omit substantially all of the disclosures required by accounting principles generally accepted in the United States of America. If the omitted disclosures were included in the financial statements, they might influence the user's conclusions about the City's financial position, results of operations, and cash flows. Accordingly, the financial statements are not designed for those who are not informed about such matters.

We are not independent with respect to the City.

Ketel Thorstenson, LLP

KETEL THORSTENSON, LLP
Certified Public Accountants

May 9, 2014

CITY OF EAGLE BUTTE

GOVERNMENTAL FUNDS BALANCE SHEET - MODIFIED CASH BASIS
DECEMBER 31, 2013
(See Accountant's Compilation Report)

	General Fund	Capital Projects Fund	Total
Assets:			
101 Cash	$ -	$ (55,350)	$ **(55,350)**
TOTAL ASSETS	$ -	$ **(55,350)**	$ **(55,350)**
Fund Deficit:			
262 Fund Deficit - Unassigned	$ -	$ (55,350)	$ **(55,350)**
TOTAL FUND DEFICIT	$ -	$ **(55,350)**	$ **(55,350)**

CITY OF EAGLE BUTTE

GOVERNMENTAL FUNDS STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES - MODIFIED CASH BASIS
YEAR ENDING DECEMBER 31, 2013
(See Accountant's Compilation Report)

		General Fund	Capital Projects Fund	Total
Revenue:				
	Taxes:			
311	Property Taxes	$ 63,384	$ -	$ 63,384
313	Sales Taxes	477,372	-	477,372
314	Gross Receipts	30,184	-	30,184
319	Penalties and Interest	365	-	365
320	Licenses and Permits	325	-	325
	Intergovernmental Revenue:			
334	Federal Grant	6,201	-	6,201
335	Bank Franchise Tax	424	-	424
335	Motor Vehicle Commercial Prorate	744	-	744
335	Liquor Tax Reversion	3,985	-	3,985
335	Motor Vehicle Licenses (5%)	1,508	-	1,508
335.1	Local Government Highway and Bridge	14,325	-	14,325
335.2	Other	708	-	708
338	County Road Tax (25%)	10,807	-	10,807
	Charges for Goods and Services:			
346	Culture-Recreation - Golf Course and Restaurant	52,514	-	52,514
	Miscellaneous Revenue:			
361	Investment Earnings	2,628	-	2,628
362	Rentals	3,215	-	3,215
368	Liquor Operating Agreements	4,932	-	4,932
369	Other	1,632	-	1,632
Total Revenue		675,253	-	675,253

CITY OF EAGLE BUTTE

GOVERNMENTAL FUNDS STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES – MODIFIED CASH BASIS (CONTINUED)
YEAR ENDING DECEMBER 31, 2013
(See Accountant's Compilation Report)

		General Fund	Capital Projects Fund	Total
Expenditures:				
	General Government:			
411	Legislative	47,625	-	**47,625**
412	Executive	17,342	-	**17,342**
413	Elections	883	-	**883**
414	Financial Administration	184,670	-	**184,670**
419	Other	25,822	-	**25,822**
	Public Safety:			
421	Police	198,954	-	**198,954**
422	Fire	28,316	-	**28,316**
	Public Works:			
431	Highway and Streets	132,796	55,350	**188,146**
432	Sanitation	412	-	**412**
435	Airport	9,101	-	**9,101**
	Health and Welfare:			
441	Health	1,879	-	**1,879**
	Culture and Recreation:			
451	Recreation-Golf Course and Restaurant	68,007	-	**68,007**
451	Recreation-Ballparks and Other	13,090	-	**13,090**
452	Parks	32,304	-	**32,304**
	Conservation and Development:			
465	Promoting the City	13,463	-	**13,463**
470	Debt Service	61,844	-	**61,844**
485	Capital Outlay	164,487	-	**164,487**
Total Expenditures		**1,000,995**	**55,350**	**1,056,345**
Excess Expenditures Over Revenues		**(325,742)**	**(55,350)**	**(381,092)**
Other Financing Sources				
391	Transfer In	245,742	-	**245,742**
391.2	Long-Term Debt Issued	80,000	-	**80,000**
		325,742	-	**325,742**
Net Change in Fund Balance - Modified Cash Basis		-	**(55,350)**	**(55,350)**
Fund Balance - December 31, 2012		-	-	-
Fund Deficit - December 31, 2013		$ -	$ **(55,350)**	$ **(55,350)**

CITY OF EAGLE BUTTE

PROPRIETARY FUNDS STATEMENT OF NET POSITION - MODIFIED CASH BASIS
DECEMBER 31, 2013
(See Accountant's Compilation Report)

		Liquor Fund	Water Fund	Sewer Fund	Totals
Assets:					
Current Assets:					
101	Cash	$ 190,046	$ 301,306	$ 169,868	**$ 661,220**
105.2	Savings Certificate - Investments	105,012	105,011	14,604	**224,627**
107.2	Restricted Savings Certificate - Investments	-	-	28,441	**28,441**
151	Investments	-	-	123,620	**123,620**
Total Current Assets		**$ 295,058**	**$ 406,317**	**$ 336,533**	**$ 1,037,908**
Net Position:					
253.2	Restricted for Debt Service	$ -	$ -	$ 28,441	**$ 28,441**
253.9	Unrestricted	295,058	406,317	308,092	**1,009,467**
TOTAL NET POSITION		**$ 295,058**	**$ 406,317**	**$ 336,533**	**$ 1,037,908**

CITY OF EAGLE BUTTE

PROPRIETARY FUNDS STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN FUND NET POSITION -MODIFIED CASH BASIS
YEAR ENDING DECEMBER 31, 2013
(See Accountant's Compilation Report)

		Liquor Fund	Water Fund	Sewer Fund	Total
Operating Revenue:					
380	Charges for Goods and Services and Operating Agreement	$ 1,525,365	$ 722,002	$ 324,239	$ 2,571,606
	Customer Deposits Received (Net)	-	4,492	-	4,492
Total Operating Revenue		**1,525,365**	**726,494**	**324,239**	**2,576,098**
Operating Expenses:					
410	Personal Services	121,849	147,759	165,697	435,305
420	Operating Expenses	69,206	108,099	67,335	244,640
426.2	Materials (Cost of Goods Sold)	1,083,467	381,943	-	1,465,410
429	Taxes Collected to be Remitted	(262)	-	-	(262)
Total Operating Expenses		**1,274,260**	**637,801**	**233,032**	**2,145,093**
Operating Income		**251,105**	**88,693**	**91,207**	**431,005**
Nonoperating Revenue (Expenses):					
361	Investment Earnings	5,012	5,011	54,631	64,654
441	Principal and Interest Payments on Debt	-	-	(27,423)	(27,423)
485	Capital Outlay	-	(592,575)	-	(592,575)
511	Transfer Out	(245,742)	-	-	(245,742)
391.2	Long-Term Debt Issued	-	103,718	-	103,718
Total Nonoperating Revenue (Expenses)		**(240,730)**	**(483,846)**	**27,208**	**(697,368)**
Income (Loss) before Capital Grant		**10,375**	**(395,153)**	**118,415**	**(266,363)**
391.07	Capital Grant	-	414,874	-	414,874
Change in Net Position - Modified Cash Basis		**10,375**	**19,721**	**118,415**	**148,511**
Net Position - December 31, 2012		284,683	386,596	218,118	889,397
Net Position - December 31, 2013		**$ 295,058**	**$ 406,317**	**$ 336,533**	**$ 1,037,908**

CITY OF EAGLE BUTTE

STATEMENT OF FIDUCIARY NET POSITION - MODIFIED CASH BASIS
DECEMBER 31, 2013
(See Accountant's Compilation Report)

		Private-Purpose Trust Fund
Assets:		
101	Cash	$ -
104	Investments - Governmental Mutal Funds	-
TOTAL ASSETS		$ -
Net Position:		
253	Restricted for Retirement	$ -
TOTAL NET POSITION		$ -

CITY OF EAGLE BUTTE

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION - MODIFIED CASH BASIS
YEAR ENDING DECEMBER 31, 2013
(See Accountant's Compilation Report)

		Private-Purpose Trust Fund
Additions:		
361 Investment Loss	$	(2)
Total Additions		**(2)**
Deductions:		
455 Pension and Pension Refunds		615
Total Deductions		**615**
Change in Net Position - Modified Cash Basis		(617)
Net Position - December 31, 2012		617
Net Position - December 31, 2013	$	-

CITY OF EAGLE BUTTE

GOVERNMENTAL FUND STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE - MODIFIED CASH BASIS
FOR THE MONTH ENDED DECEMBER 31, 2013
(See Accountant's Compilation Report)

		General Fund	Capital Projects Fund	Total
Revenue:				
	Taxes:			
311	Property Taxes	$ 6,297	$ -	$ 6,297
313	Sales Taxes	63,570	-	63,570
314	Gross Receipts	4,815	-	4,815
319	Penalties and Interest	47	-	47
	Intergovernmental Revenue:			
335	Motor Vehicle Licenses (5%)	94	-	94
338	County Road Tax (25%)	359	-	359
	Miscellaneous Revenue:			
361	Investment Earnings	1,482	-	1,482
362	Rentals	175	-	175
368	Liquor Operating Agreements	294	-	294
Total Revenue		77,133	-	77,133
Expenditures:				
	General Government:			
411	Legislative	5,403	-	5,403
412	Executive	1,807	-	1,807
413	Elections	20	-	20
414	Financial Administration	16,113	-	16,113
419	Other	5,125	-	5,125
	Public Safety:			
421	Police	18,755	-	18,755
422	Fire	1,570	-	1,570
	Public Works:			
431	Highway and Streets	18,622	26,006	44,628
435	Airport	53	-	53
	Culture and Recreation:			
451	Recreation-Golf Course and Restaurant	1,292	-	1,292
451	Recreation-Ball Parks and Other	120	-	120
452	Parks	353	-	353
	Conservation and Development:			
470	Debt Service	1,833	-	1,833
485	Capital Outlay	-	-	-
Total Expenditures		71,066	26,006	97,072
Excess Expenditures Over Revenues		6,067	(26,006)	(19,939)
Other Financing Sources				
391.01	Transfer In	245,742	-	245,742
Net Change in Fund Balance - Modified Cash Basis		251,809	(26,006)	225,803
Fund Deficit - November 30, 2013		(251,809)	(29,344)	(281,153)
Fund Deficit - December 31, 2013		$ -	$ (55,350)	$ (55,350)

CITY OF EAGLE BUTTE

PROPRIETARY FUNDS STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN FUND NET POSITION -MODIFIED CASH BASIS
FOR THE MONTH ENDED DECEMBER 31, 2013
(See Accountant's Compilation Report)

		Liquor Fund	Water Fund	Sewer Fund	Total
Operating Revenue:					
380	Charges for Goods and Services and Operating Agreement	$ 121,041	$ 59,729	$ 24,944	$ 205,714
	Customer Deposits Received (Net)	-	205	-	205
Total Operating Revenue		**121,041**	**59,934**	**24,944**	**205,919**
Operating Expenses:					
410	Personal Services	9,237	12,477	12,367	34,081
420	Operating Expenses	4,867	8,321	13,300	26,488
426.2	Materials (Cost of Goods Sold)	95,261	61,295	-	156,556
429	Taxes Collected to be Remitted	11,005	-	-	11,005
Total Operating Expenses		**120,370**	**82,093**	**25,667**	**228,130**
Operating Income (Loss)		**671**	**(22,159)**	**(723)**	**(22,211)**
Nonoperating Revenue (Expense):					
361	Investment Earnings	5,012	5,011	(2,468)	7,555
485	Capital Outlay	-	(2,476)	-	(2,476)
511	Transfer Out	(245,742)	-	-	(245,742)
Total Nonoperating Expense		**(240,730)**	**2,535**	**(2,468)**	**(240,663)**
Change in Net Position - Modified Cash Basis		**(240,059)**	**(19,624)**	**(3,191)**	**(262,874)**
Net Position - November 30, 2013		535,117	425,941	339,724	1,300,782
Net Position - December 31, 2013		**$ 295,058**	**$ 406,317**	**$ 336,533**	**$ 1,037,908**

CITY OF EAGLE BUTTE

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION - MODIFIED CASH BASIS
FOR THE MONTH ENDED DECEMBER 31, 2013
(See Accountant's Compilation Report)

		Private-Purpose Trust Fund
Additions:		
361	Investment Gain	$ -
Deductions:		
455	Pension and Pension Refunds	-
Change in Net Position - Modified Cash Basis		-
Net Position - November 30, 2013		-
Net Position -December 31, 2013		$ -

CITY OF EAGLE BUTTE

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DonnaDenker&Associates
certified public accountants

INDEPENDENT AUDITOR'S REPORT

To the Mayor and City Council
City of Eagle Butte, South Dakota

We have audited the accompanying modified cash basis financial statements of the governmental activities, the business-type activities, each major fund, the aggregate remaining fund information, and the related notes to the financial statements of the City of Eagle Butte, South Dakota (the City), as of and for the year ended December 31, 2012, which collectively comprise the City's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

The City's management is responsible for the preparation and fair presentation of these financial statements in accordance with the modified cash basis of accounting described in Note 1.c.; this includes determining that the modified cash basis of accounting is an acceptable basis for the preparation of the financial statements in the circumstances. Management is responsible for the design, implementation, and maintenance of internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatements, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatements of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to previously present fairly, in all material respects, the respective financial position – modified cash basis of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City, as of December 31, 2012, and the respective changes in financial position – modified cash basis, thereof for the year then ended in conformity with the basis of accounting described in Note 1.

We draw attention to Note 1.c. of the financial statements, which describes the basis of accounting. The financial statements are prepared on the modified cash basis of accounting, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

Other Matters

Our audit was conducted for the purpose of forming opinions on the modified cash basis of accounting financial statements that collectively comprise the City of Eagle Butte's financial statements as a whole. The management's discussion and analysis and budgetary comparison information on pages 3 through 7 and 27 to 28 are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information has not been subjected to auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated May 14, 2014, on our consideration of the City of Eagle Butte, South Dakota's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be considered in assessing the results of our audit.

Donna Denker & Associates
Certified Public Accountants

May 14, 2014

CITY OF EAGLE BUTTE

MANAGEMENT'S DISCUSSION AND ANALYSIS
DECEMBER 31, 2012

Our discussion and analysis of the City of Eagle Butte's (the City) financial performance provides an overview of the City's financial activities for the year ended December 31, 2012, within the limitations of the City's modified cash basis of accounting. We encourage readers to consider it in conjunction with the City's financial statements.

FINANCIAL HIGHLIGHTS

- The City funded various airport projects totaling approximately $228,000 in the General Fund with multiple Federal Aviation Administration and USDA Rural Development grants during 2012.
- The City experienced an increase in enterprise fund revenues of ten percent due to rate increases in January and June 2012.
- The City began several large construction processes by incurring engineering costs and evaluating potential funding sources including grants and debt through Rural Development. The total expended in 2012 towards these projects was $94,770 within the General, Water and Sewer Funds.
- The Liquor Fund transferred $147,462 to the General Fund to eliminate the General Fund's 2012 operating deficit.
- The City received a small community planning grant for engineering studies on water and sewer utilities totaling $18,000.

USING THIS ANNUAL REPORT

This annual report is presented in a format consistent with the presentation requirements of the Governmental Accounting Standards Board (GASB) Statement No. 34, as applicable to the City's modified cash basis of accounting.

Report Components

This annual report consists of four parts as follows:

Government-wide Financial Statements: The Statement of Net Position and the Statement of Activities provide information about the activities of the City using a government-wide focus (or "as a whole").

Fund Financial Statements: Fund financial statements focus on the individual parts of the City government. Fund financial statements also report the City's operations in more detail than the government-wide statements by providing information about the City's most significant ("major") funds. For *governmental activities*, these statements tell how these services were financed in the short term, as well as what remains for future spending. For *proprietary activities*, these statements offer financial information about the activities the City operates like businesses, such as water, sewer, and solid waste services.

Notes to the Financial Statements: The notes to the financial statements are an integral part of the government-wide and fund financial statements and provide expanded explanation and details regarding the information reported in the statements.

Other Information: This Management's Discussion and Analysis and the Budgetary Comparison Schedule represent financial information that may be presented. Such information provides users of this report with additional data that supplements the government-wide statements, fund financial statements, and notes (referred to as "the basic financial statement").

Basis of Accounting

The City has elected to present its financial statements on a modified cash basis of accounting. This modified cash basis of accounting is a basis of accounting other than generally accepted accounting principles. Basis of accounting is a reference to *when* financial events are recorded, such as the timing for recognizing revenues, expenses, and their related assets and liabilities. Under the City's modified cash basis of accounting, revenues and expenses, and related assets are recorded when they result from cash transactions.

CITY OF EAGLE BUTTE

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)
DECEMBER 31, 2012

USING THIS ANNUAL REPORT (CONTINUED)

Basis of Accounting (Continued)

An acceptable modification to the cash basis of accounting implemented by the City in these financial statements is the investment balances and investment transactions also included in the accompanying financial statements.

As a result of the use of this modified cash basis of accounting, certain assets and their related revenues, (such as accounts receivable and revenue for billed or provided services not yet collected) and liabilities and their related expenses (such as accounts payable and expenses for goods or services received but not yet paid, and accrued expenses and liabilities) *are not recorded* in these financial statements. Therefore, when reviewing the financial information and discussion within this annual report, the reader should keep in mind the limitations resulting from the use of the modified cash basis of accounting.

Reporting the City as a Whole

The City's Reporting Entity Presentation

This annual report includes all activities for which the City of Eagle Butte's City Commission is fiscally responsible. These activities, defined as the City's reporting entity, are operated within separate legal entities that make up the primary government. The primary government includes the legal entity of the City of Eagle Butte.

The Government-wide Statement of Net Position and the Statement of Activities

One of the most important questions asked about the City's finances is, "Is the City as a whole better off or worse off as a result of the year's activities?" The Statement of Net Position and the Statement of Activities report information about the City as a whole and about its activities in a way that helps answer this question. These statements include all of the City's assets resulting from the use of the modified cash basis of accounting.

These two statements report the City's net position and changes in them. Keeping in mind the limitations of the modified cash basis of accounting, you can think of the City's net position as one way to measure the City's financial health or financial position. Over time, increases or decreases in the City's net position are one indicator of whether its financial health is improving or deteriorating. You will need to consider other nonfinancial factors, however, such as changes in the City's sales tax base and the condition of the City's roads, to assess the overall health of the City.

In the Statement of Net Position and the Statement of Activities, we divide the City into two kinds of activities:

> *Governmental activities.* Most of the City's basic services are reported here, including the police, general government, streets and parks. Sales taxes, property taxes and state and federal grants finance most of these activities.
>
> *Business-type activities.* The City charges a fee to customers to help it cover all or most of the cost of certain services it provides. The City's liquor store, water system, and sewer system are reported here.

Reporting the City's Most Significant Funds

The Fund Financial Statements

The fund financial statements provide detailed information about the most significant funds, not the City as a whole. Some funds are required to be established by State law and by bond covenants. However, the City Commission establishes certain other funds to help it control and manage money for particular purposes or to show that it is meeting legal responsibilities for using certain taxes, grants, and other money. The City has three kinds of funds – *Governmental, Proprietary, and Fiduciary.*

CITY OF EAGLE BUTTE

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)
DECEMBER 31, 2012

USING THIS ANNUAL REPORT (CONCLUDED)

Reporting the City's Most Significant Funds (Continued)

The Fund Financial Statements (Continued)

Governmental funds - Most of the City's basic services are reported in governmental funds, which focus on how money flows into and out of those funds and the balances left at year-end that are available for spending. These funds report the acquisition of capital assets and payments for debt principal as expenditures and not as changes to asset and debt balances. The governmental fund statements provide a detailed short-term view of the City's general government operations and the basic services it provides. Governmental fund information helps you determine (through a review of changes to fund balance) whether there are more or fewer financial resources that can be spent in the near future to finance the City's programs. The City considers the General Fund to be its significant or major governmental fund.

Proprietary funds - When the City charges customers for the services it provides, these services are generally reported in proprietary funds. The City's proprietary (enterprise) fund financial statements are essentially the same as the business-type activities we report in the government-wide statements, but the fund statements provide more detail and additional information. The Liquor, Water and Sewer Funds are major proprietary funds of the City.

Fiduciary funds – Funds used to account for assets that are held in trustee or fiduciary capacity. The private-purpose trust retirement fund is the only fund maintained by the City.

A FINANCIAL ANALYSIS OF THE CITY AS A WHOLE

Net Position – Modified Cash Basis

The City's combined net position, resulting from modified cash basis transactions, are as follows:

	Governmental Activities		Business-Type Activities		Totals	
	2012	2011	**2012**	2011	**2012**	2011
ASSETS:						
Cash	**$ -**	$ -	**$ 575,017**	$ 448,293	**$ 575,017**	$ 448,293
Investments	**-**	-	**314,380**	204,272	**314,380**	204,272
TOTAL POSITION	**$ -**	$ -	**$ 889,397**	$ 652,565	**$ 889,397**	$ 652,565
NET POSITION:						
Restricted	**$ -**	$ -	**$ 28,440**	$ 28,440	**$ 28,440**	$ 28,440
Unrestricted	**-**	-	**860,957**	624,125	**860,957**	624,125
TOTAL NET POSITION	**$ -**	$ -	**$ 889,397**	$ 652,565	**$ 889,397**	$ 652,565

CITY OF EAGLE BUTTE

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONTINUED)
DECEMBER 31, 2012

A FINANCIAL ANALYSIS OF THE CITY AS A WHOLE (CONTINUED)

Changes in Net Position-Modified Cash Basis

For the years ended December 31, 2012 and 2011, net position of the primary government (resulting from modified cash basis transactions) are as follows:

	Governmental Activities		Business-Type Activities		Totals	
	2012	2011	2012	2011	2012	2011
Programs Revenues						
Charges for Services	$ 90,618	$ 39,256	$ 2,523,698	$2,295,659	$ 2,614,316	$2,334,915
Operating Grants and Contributions	25,719	44,788	-	-	25,719	44,788
Capital Grants and Contributions	306,491	296,598	18,000	-	324,491	296,598
General Revenues						
Property Tax	67,837	60,491	-	-	67,837	60,491
Sales Tax	455,755	552,263	-	-	455,755	552,263
State Shared Revenues	4,494	2,800	-	-	4,494	2,800
Investment Income (Losses)	1,953	1,334	11,288	(16,734)	13,241	(15,400)
Miscellaneous	1,640	7,581	-	3,827	1,640	11,408
Total Revenues	954,507	1,005,111	2,552,986	2,282,752	3,507,493	3,287,863
Expenses						
General Government	268,183	245,705	-	-	268,183	245,705
Public Safety	196,980	234,935	-	-	196,980	234,935
Public Works	394,978	578,052	-	-	394,978	578,052
Health and Welfare	13,836	6,926	-	-	13,836	6,926
Culture and Recreation	195,981	135,604	-	-	195,981	135,604
Conservation and Development	32,011	21,070	-	-	32,011	21,070
Liquor	-	-	1,234,761	1,140,425	1,234,761	1,140,425
Water	-	-	655,351	563,563	655,351	563,563
Sewer	-	-	278,580	263,029	278,580	263,029
Total Expenses	1,101,969	1,222,292	2,168,692	1,967,017	3,270,661	3,189,309
Transfers	147,462	178,252	(147,462)	(178,252)	-	-
Beginning Balance	-	38,929	652,565	515,082	652,565	554,011
Change in Net Position	-	(38,929)	236,832	137,483	236,832	98,554
Ending Net Position	$ -	$ -	$ 889,397	$ 652,565	$ 889,397	$ 652,565

CITY OF EAGLE BUTTE

MANAGEMENT'S DISCUSSION AND ANALYSIS (CONCLUDED)
DECEMBER 31, 2012

A FINANCIAL ANALYSIS OF THE CITY AS A WHOLE (CONCLUDED)

Governmental Activities

To aid in the understanding of the Statement of Activities, some additional explanation is given. Of particular interest is the format that is significantly different from a typical Statement of Revenue, Expenses, and Changes in Fund Balance. You will notice that expenses are listed in the first column, with revenues from that particular program reported to the right. The result is a Net Change in Net Position. This type of format highlights the relative financial burden of each of the functions on the City's taxpayers. It also identifies how much each function draws from the general revenues or if it is self-financing through fees and grants or contributions. All other governmental revenues are reported as general. It is important to note that all taxes are classified as general revenue, even if restricted for a specific purpose.

For the year ended December 31, 2012, total expenses for governmental activities, resulting from modified cash basis transactions, amounted to $1,101,969, a decrease from 2011 of 9.8 percent. A significant portion of the decrease in expenditures was due to the airport projects being completed. Revenues decreased in 2012 by 5 percent, primarily due to a decrease in sales tax revenue.

Business-Type Activities

For fiscal year 2012, the business-type activities reported net revenues over expenses of $236,832, after transfers. The net revenues over expenses is up approximately $100k from 2011 due to rate increases in water and sewer.

A FINANCIAL ANALYSIS OF THE CITY'S FUNDS

Certain funds experienced noteworthy changes from the prior year and are highlighted as follows:

- On the modified cash basis of accounting, the General Fund reported revenues and transfers in of $1,101,969 and expenditures of $1,101,969.
- The Liquor Fund, Water Fund, and Sewer Fund reported net position of $284,683, $386,596 and $218,118 at the end of 2012, respectively.

General Fund Budgetary Highlights

The City adopted supplemental appropriations to cover unexpected expenditures, primarily airport expenditures.

ECONOMIC FACTORS AND NEXT YEAR'S BUDGET AND RATES

For the upcoming year ending December 31, 2013, the City has adopted a formal budget based on expected revenues and expenses. On September 27, 2012, the City was awarded the following:

- A $593,000 Drinking Water State Revolving Fund (SRF) Loan with $474,000 in principal forgiveness for the City's Water Meter Replacement Project with terms of zero percent for 10 years.
- A $1,244,000 Drinking Water SRF Loan with $995,000 in principal forgiveness was awarded for water distribution system improvements with terms of zero percent for 30 years.
- A $1,561,000 Clean Water SRF loan and a $173,000 Consolidate Water Facilities Construction Program grant for its wastewater facilities improvements project. The loan terms are 3 percent interest for 20 years.

The City expended approximately $30,000 during 2012 for planning and engineering for these projects.

CONTACTING THE CITY'S FINANCIAL MANAGEMENT

This financial report is designated to provide a general overview of the City's finances and to demonstrate the City's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the City of Eagle Butte, Finance Officer, P.O. Box 150, Eagle Butte, SD 57625.

CITY OF EAGLE BUTTE

STATEMENT OF NET POSITION - MODIFIED CASH BASIS
DECEMBER 31, 2012

	Governmental Activities	Business-Type Activities	Total
ASSETS:			
Cash	$ -	$ 575,017	**$ 575,017**
Investments	-	285,940	**285,940**
Restricted Investments	-	28,440	**28,440**
TOTAL ASSETS	**$ -**	**$ 889,397**	**$ 889,397**
NET POSITION:			
Restricted for:			
Debt Service	$ -	$ 28,440	**$ 28,440**
Change in Net Position - Modified Cash Basis	-	860,957	**860,957**
TOTAL NET POSITION	**$ -**	**$ 889,397**	**$ 889,397**

The accompanying notes are an integral part of this statement.

CITY OF EAGLE BUTTE

STATEMENT OF ACTIVITIES - MODIFIED CASH BASIS
FOR THE YEAR ENDED DECEMBER 31, 2012

		--- Program Revenues ---			----- Net (Expense) Revenue and ----- Changes in Net Position		
Functions/Programs	Expenses	Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions	Governmental Activities	Business-Type Activities	Total
Primary Government:							
Governmental Activities:							
General Government	$ 268,183	$ 8,727	$ -	$ -	$ (259,456)	$ -	**$ (259,456)**
Public Safety	196,980	-	-	-	(196,980)	-	**(196,980)**
Public Works	394,978	-	25,719	306,491	(62,768)	-	**(62,768)**
Health and Welfare	13,836	-	-	-	(13,836)	-	**(13,836)**
Culture and Recreation	195,981	81,891	-	-	(114,090)	-	**(114,090)**
Conservation and Development	32,011	-	-	-	(32,011)	-	**(32,011)**
Total Governmental Activities	**1,101,969**	**90,618**	**25,719**	**306,491**	**(679,141)**	**-**	**(679,141)**
Business Type Activities							
Liquor	1,234,761	1,438,322	-	-	-	203,561	**203,561**
Water	655,351	744,876	-	8,000	-	97,525	**97,525**
Sewer	278,580	340,500	-	10,000	-	71,920	**71,920**
Total Business-Type Activities	**2,168,692**	**2,523,698**	**-**	**18,000**	**-**	**373,006**	**373,006**
Total Primary Government	**$ 3,270,661**	**$ 2,614,316**	**$ 25,719**	**$ 324,491**	(679,141)	373,006	**(306,135)**
General Revenues:							
Taxes:							
Property Taxes					67,837	-	**67,837**
Sales Taxes					455,755	-	**455,755**
State Shared Revenues					4,494	-	**4,494**
Unrestricted Investment Earnings					1,953	11,288	**13,241**
Miscellaneous Revenue					1,640	-	**1,640**
Transfers					147,462	(147,462)	**-**
Total General Revenues and Transfers					**679,141**	**(136,174)**	**542,967**
Change in Net Position					-	**236,832**	**236,832**
Net Position-December 31, 2011					-	**652,565**	**652,565**
Net Position-December 31, 2012					**$ -**	**$ 889,397**	**$ 889,397**

The accompanying notes are an integral part of this statement.

CITY OF EAGLE BUTTE

GOVERNMENTAL FUNDS BALANCE SHEET - MODIFIED CASH BASIS
DECEMBER 31, 2012

	General Fund
ASSETS:	
101 Cash	$ -
TOTAL ASSETS	$ -
262 Fund Balance - Unassigned	$ -
TOTAL FUND BALANCE	$ -

The accompanying notes are an integral part of this statement.

CITY OF EAGLE BUTTE

GOVERNMENTAL FUNDS STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCE -MODIFIED CASH BASIS
FOR THE YEAR ENDED DECEMBER 31, 2012

		General Fund
Revenue:		
310	*Taxes:*	
311	Property Taxes	$ 65,568
313	Sales Taxes	455,755
315	Amusement Taxes	732
319	Penalties and Interest on Delinquent Taxes	1,537
320	Licenses and Permits	400
330	*Intergovernmental Revenue:*	
331	Federal Grants - Airport Project	306,491
335.01	Bank Franchise Tax	375
335.02	Motor Vehicle Commercial Prorate	651
335.03	Liquor Tax Reversion	4,119
335.04	Motor Vehicle Licenses (5%)	1,333
335.08	Local Government Highway and Bridge	14,048
338.01	County Road Tax (25%)	9,687
340	*Charges for Goods and Services:*	
346	Culture and Recreation - Golf Course	81,891
360	*Miscellaneous Revenue:*	
361	Investment Earnings	1,953
362	Rentals	3,755
368	Liquor Operating Agreements	4,572
369	Other	1,640
Total Revenue		**954,507**

CITY OF EAGLE BUTTE

GOVERNMENTAL FUNDS STATEMENT OF REVENUES, EXPENDITURES, AND CHANGES IN FUND BALANCES - MODIFIED CASH BASIS (CONTINUED)
FOR THE YEAR ENDED DECEMBER 31, 2012

		General Fund
Expenditures:		
410	*General Government:*	
411	Legislative	48,189
412	Executive	17,158
413	Elections	2,609
414	Financial Administration	165,037
419	Other	18,528
420	*Public Safety:*	
421	Police	170,049
422	Fire	26,931
430	*Public Works:*	
431	Highway and Streets	123,610
435	Airport	7,600
440	*Health and Welfare:*	
441	Health	13,836
450	*Culture and Recreation:*	
451	Recreation - Ballparks and Other	17,891
451	Recreation - Golf Course and Restaurant	118,483
452	Parks	28,643
460	*Conservation and Development:*	
465.3	Promoting the City	32,011
485	*Capital Outlay - Airport Project*	209,457
485	*Capital Outlay - Other*	101,937
Total Expenditures		**1,101,969**
Other Financing Sources		
391.01	Transfer In	147,462
Total Other Financing Sources		**147,462**
Net Change in Fund Balance - Modified Cash Basis		-
Fund Balance - December 31, 2011		-
262 **Fund Balance - December 31, 2012**		$ -

The accompanying notes are an integral part of this statement.

CITY OF EAGLE BUTTE

PROPRIETARY FUNDS STATEMENT OF NET POSITION - MODIFIED CASH BASIS
DECEMBER 31, 2012

		Liquor Fund	Water Fund	Sewer Fund	Totals
ASSETS:					
Current Assets:					
101	Cash	$ 184,683	$ 286,596	$ 103,738	$ 575,017
105.2	Savings Certificate - Investments	100,000	100,000	14,440	214,440
107.2	Restricted Savings Certificate - Investments	-	-	28,440	28,440
151	Investments	-	-	71,500	71,500
Total Current Assets		**$ 284,683**	**$ 386,596**	**$ 218,118**	**$ 889,397**
NET POSITION:					
253.2	Restricted for Debt Service	$ -	$ -	$ 28,440	$ 28,440
253.9	Unrestricted	284,683	386,596	189,678	860,957
Total Net Postion		**$ 284,683**	**$ 386,596**	**$ 218,118**	**$ 889,397**

The accompanying notes are an intergral part of this statement.

CITY OF EAGLE BUTTE

PROPRIETARY FUNDS STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN FUND NET POSITION -MODIFIED CASH BASIS
FOR THE YEAR ENDED DECEMBER 31, 2012

		Liquor Fund	Water Fund	Sewer Fund	Totals
Operating Revenue:					
380	Charges for Goods and Services and Operating Agreement	$ 1,438,322	$ 738,151	$ 340,500	$ 2,516,973
	Customer Deposits Received (Net)	-	6,725	-	6,725
Total Operating Revenue		**1,438,322**	**744,876**	**340,500**	**2,523,698**
Operating Expenses:					
410	Personal Services	112,627	115,278	146,264	**374,169**
420	Operating Expenses	68,781	81,811	66,859	**217,451**
426.2	Materials (Cost of Goods Sold)	1,053,291	400,301	-	**1,453,592**
429	Taxes Collected to be Remitted	62	-	-	**62**
Total Operating Expenses		**1,234,761**	**597,390**	**213,123**	**2,045,274**
Operating Income		**203,561**	**147,486**	**127,377**	**478,424**
Nonoperating Revenue (Expenses):					
361	Investment Earnings	-	-	11,288	**11,288**
441	Principal and Interest Payments on Debt	-	-	(29,457)	**(29,457)**
485	Capital Outlay	-	(57,961)	(36,000)	**(93,961)**
Total Nonoperating Expenses		**-**	**(57,961)**	**(54,169)**	**(112,130)**
Grants and Transfer:					
331	Capital Grants	-	8,000	10,000	**18,000**
511	Transfer Out	(147,462)	-	-	**(147,462)**
Grants and Transfer		**(147,462)**	**8,000**	**10,000**	**(129,462)**
Change in Net Position - Modified Cash Basis		**56,099**	**97,525**	**83,208**	**236,832**
Net Position - December 31, 2011		228,584	289,071	134,910	**652,565**
Net Position - December 31, 2012		**$ 284,683**	**$ 386,596**	**$ 218,118**	**$ 889,397**

The accompanying notes are an integral part of this statement.

CITY OF EAGLE BUTTE

STATEMENT OF FIDUCIARY NET POSITION - MODIFIED CASH BASIS
DECEMBER 31, 2012

		Private-Purpose Trust Fund
ASSETS		
104	Investments - Governmental Mutual Funds	$ 617
TOTAL ASSETS		**$ 617**
NET POSITION		
	Restricted for Retirement	$ 617
TOTAL NET POSITION		**$ 617**

The accompanying notes are an intergral part of this statement.

CITY OF EAGLE BUTTE

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION - MODIFIED CASH BASIS
FOR THE YEAR ENDED DECEMBER 31, 2012

		Private-Purpose Trust Fund
Additions:		
361 Investment Earnings	$	34
Total Additions		**34**
Deductions		
455 Pension and Pension Refunds		960
Total Deductions		**960**
Change in Net Position - Modified Cash Basis		(926)
Net Position - December 31, 2011		1,543
Net Position - December 31, 2012	**$**	**617**

The accompanying notes are an integral part of this statement.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS
DECEMBER 31, 2012

1. Summary of Significant Accounting Policies

As discussed further in Note 1.c, these financial statements are presented on a modified cash basis of accounting. The modified cash basis of accounting differs from accounting principles generally accepted in the United States of America (GAAP). Generally accepted accounting principles include all relevant Governmental Accounting Standards Board (GASB) pronouncements.

a. Financial Reporting Entity:

The reporting entity of the City of Eagle Butte (the City) consists of the primary government, which includes all of the funds, organizations, institutions, agencies, departments, and offices that make up the legal entity; those organizations for which the primary government is financially accountable; and other organizations for which the nature and significance of their relationship with the primary government are such that their exclusion would cause the financial reporting entity's financial statements to be misleading or incomplete.

b. Basis of Presentation:

Government-wide Financial Statements:
The Statement of Net Position and Statement of Activities display information about the reporting entity as a whole. These statements include all funds of the reporting entity, except fiduciary funds. The statements distinguish between governmental and business-type activities. Governmental activities generally are financed through taxes, intergovernmental revenues, and other non-exchange revenues. Business-type activities are financed in whole or in part by fees charged to external parties for goods or services.

The Statement of Activities presents a comparison between direct expenses and program revenues for each segment of the business-type activities of the City and for each function of the City's governmental activities. Direct expenses are those that are specifically associated with a program or function and, therefore, are clearly identifiable to a particular function. Program revenues include (a) charges paid by recipients of goods and services offered by the programs and (b) grants and contributions that are restricted to meeting the operational or capital requirements of a particular program. Revenues that are not classified as program revenues, including all taxes, are presented as general revenues.

Fund Financial Statements:
Fund financial statements of the reporting entity are organized into funds, each of which is considered to be a separate accounting entity. Each fund is accounted for by providing a separate set of self-balancing accounts that constitute its assets, liabilities, fund equity, revenues, and expenditures/expenses. Funds are organized into three major categories: governmental, proprietary and fiduciary. An emphasis is placed on major funds within the governmental and proprietary categories. A fund is considered major if it is the primary operating fund of the City or it meets the following criteria:

1. Total assets, liabilities, revenues, or expenditures/expenses of the individual governmental or enterprise fund are at least 10 percent of the corresponding total for all funds of that category or type, and
2. Total assets, liabilities, revenues, or expenditures/expenses of the individual governmental or enterprise fund are at least 5 percent of the corresponding total for all governmental and enterprise funds combined, or
3. Management has elected to classify one or more governmental or enterprise funds as major for consistency in reporting from year to year, or because of public interest in the fund's operations.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONTINUED)
DECEMBER 31, 2012

1. Summary of Significant Accounting Policies (Continued)

b. Basis of Presentation (Continued):

Fund Financial Statements (Continued):

The funds of the City's financial reporting entity are described below:

Governmental Funds:

General Fund – the General Fund is the general operating fund of the City. It is used to account for all financial resources except those required to be accounted for in another fund. The General Fund is always considered to be a major fund.

Proprietary Funds:

Enterprise Funds – enterprise funds are used to account for operations (a) that are financed and operated in a manner similar to private business enterprises, where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges; or (b) where the governing body has decided that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability, or other purposes.

Liquor Fund – Financed primarily by customer charges for goods and services and operating agreements, this fund accounts for the construction and operation of the on-sale municipal liquor store (SDCL 35-3-21). The liquor fund is a major fund.

Water Fund – Financed primarily by user charges, this fund accounts for the construction and operation of the municipal waterworks system and related facilities (SDCL 9-47-1). The water fund is a major fund.

Sewer Fund – Financed primarily by user charges, this fund accounts for the construction and operation of the municipal sanitary sewer system and related facilities (SDCL 9-48-2). The sewer fund is a major fund.

Fiduciary Funds:

Fiduciary fund types are used to account for assets held by a government unit in a trustee capacity or as an agent for individuals, private organizations, or other governmental units. Fiduciary funds are never considered major. The retirement fund is the only fiduciary fund of the City and is a private-purpose trust fund.

c. Measurement Focus and Basis of Accounting:

Measurement focus is a term used to describe how transactions are recorded within the various financial statements. Basis of accounting refers to when revenues and expenditures or expenses are recognized in the accounts and reported in the financial statements, regardless of the measurement focus.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONTINUED)
DECEMBER 31, 2012

1. Summary of Significant Accounting Policies (Continued)

c. Measurement Focus and Basis of Accounting (Continued):

Measurement Focus:
In the government-wide Statement of Net Position and Statement of Activities, both governmental and business-type activities are presented using the economic resources measurement focus, applied within the limitations of the modified cash basis of accounting as defined below.

In the fund financial statements, the current financial resources measurement focus or the economic resources measurement focus is used, applied within the limitations of the modified cash basis of accounting.

Basis of Accounting:
The government-wide Statement of Net Position and Statement of Activities and the fund financial statements, governmental and business-type activities are presented using a modified cash basis of accounting, which is a basis of accounting other than GAAP.

The modified cash basis of accounting involves the measurement of cash and cash equivalents and changes in cash and cash equivalents resulting from cash receipt and disbursement transactions. Under the modified cash basis of accounting, the statement of financial position reports only cash and cash equivalents. Under the modified cash basis of accounting, transactions are recorded in the accounts when cash and/or cash equivalents are received or disbursed. An acceptable modification to the cash basis of accounting implemented by the City in these financial statements is the investment balances and investment transactions are also included in the accompanying financial statements.

Under GAAP, transactions are recorded in the accounts when revenue is earned and liabilities are incurred. As a result of reporting on the modified cash basis of accounting, certain assets (i.e. capital assets) and their related revenues (such as accounts receivable and revenue for billed or provided services not yet collected) and certain liabilities and their related expenses (such as accounts payable and expenses for goods or services received but not yet paid, accrued expenses and liabilities, and capital assets and their related debt) are not recorded in these financial statements.

If the City applied GAAP, the fund financial statements for governmental funds would use the modified accrual basis of accounting, while the fund financial statements for proprietary fund types would use the accrual basis of accounting. All government-wide financial statements would be presented on the accrual basis of accounting.

d. Deposits and Investments:

For the purpose of financial reporting, "cash and cash equivalents" includes all demand and savings accounts and investments with a term to maturity at the date of acquisition of three months or less. Investments are recorded at fair market value.

e. Capital Assets:

Under the modified cash basis of accounting, the City's capital assets are considered a cost of the program for which they were acquired, for the amount paid in cash, in the government-wide financial statements, the fund financial statements, and the proprietary financial statements.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONTINUED)
DECEMBER 31, 2012

1. Summary of Significant Accounting Policies (Continued)

f. Long-Term Liabilities:

Under the modified cash basis of accounting, cash proceeds from long-term debt issuances are recorded as a receipt, while payments to creditors to reduce long-term debts are recorded as a cost of the program which benefits from the financing. Interest costs are not allocated, but are reported as a separate program cost category. Long-term debts arising from cash transactions of all funds are not reported as liabilities in these modified cash basis financial statements.

g. Program Revenues:

Program revenues derive directly from the program itself or from parties other than the City's taxpayers or citizenry, as a whole. Program revenues are classified into three categories, as follows:

1. Charges for services – These arise from charges to customers, applicants, or others who purchase, use, or directly benefit from the goods, services, or privileges provided, or are otherwise directly affected by the services.
2. Program-specific operating grants and contributions – These arise from mandatory and voluntary non-exchange transactions with other governments, organizations, or individuals that are restricted for use in a particular program.
3. Program-specific capital grants and contributions – These arise from mandatory and voluntary non-exchange transactions with other governments, organizations, or individuals that are restricted for the acquisition of capital assets for use in a particular program.

h. Proprietary Funds Revenue and Expense Classifications:

In the Proprietary Funds Statement of Revenues, Expenses, and Changes in Fund Net Position – Modified Cash Basis, revenues and expenses are classified as operating revenues and expenses unless the transactions relate to capital and related financing activities, noncapital financing activities, or investing activities.

i. Equity Classifications:

Government-wide Statements:
Equity is classified as net position and is displayed in two components under the modified cash basis:

1. Restricted net position – Consists of net position with constraints placed on their use either by (a) external groups such as creditors, grantors, contributors, or laws and regulations of other governments; or (b) law through constitutional provisions or enabling legislation.

2. Unrestricted net position – All other net positions that do not meet the definition of restricted.

Fund Financial Statements:
Governmental fund equity is classified as fund balance, and may distinguish between Nonspendable, Restricted, Committed, Assigned, or Unassigned components. Proprietary fund equity is classified the same as in the government-wide financial statements.

j. Application of Net Position:

It is the City's policy to first use restricted net position, prior to the use of unrestricted net position, when an expense is incurred for purposes for which both restricted and unrestricted net position are available.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONTINUED)
DECEMBER 31, 2012

1. Summary of Significant Accounting Policies (Concluded)

k. Fund Balance Classification Policies and Procedures

In accordance with Government Accounting Standards Board (GASB) No. 54, Fund Balance Reporting and Governmental Fund Type Definitions, the City classifies governmental fund balances as follows:

Nonspendable – includes fund balance amounts that cannot be spent either because it is not in spendable form or because of legal or contractual constraints.

Restricted – includes fund balance amounts that are constrained for specific purposes which are externally imposed by providers, such as creditors or amounts constrained due to constitutional provisions or enabling legislation.

Committed – includes fund balance amounts that are constrained for specific purposes that are internally imposed by the government through formal action of the highest level of decision making authority and does not lapse at year-end.

Assigned – includes fund balance amounts that are intended to be used for specific purposes that are neither considered restricted or committed. Fund Balance may be assigned by the City Council, Mayor, or Finance Officer.

Unassigned – includes positive fund balance within the General Fund which has not been classified within the above mentioned categories and negative fund balances in other governmental funds.

The City uses restricted /committed amounts first when both restricted and unrestricted fund balance is available unless there are legal documents/contracts that prohibit doing this, such as a grant agreement requiring dollar for dollar spending. Additionally, the City would first use committed, then assigned, and lastly unassigned amounts of unrestricted fund balance when expenditures are made.

The City does not have a formal minimum fund balance policy.

2. Deposits and Investments

The City follows the practice of aggregating the cash assets of various funds to maximize cash management efficiency and returns. Various restrictions on deposits and investments are imposed by statutes. These restrictions are summarized below:

Deposits - The City's cash deposits are made in qualified public depositories as defined by SDCL 4-6A-1, 9-22-6, 9-22-6.1, and 9-22-6.2, and may be in the form of demand or time deposits. Qualified depositories are required by SDCL 4-6A-3 to maintain at all times, segregated from their other assets, eligible collateral having a value equal to at least 100 percent of the public deposit accounts which exceed deposit insurance such as the FDIC and NCUA. In lieu of pledging eligible securities, a qualified public depository may furnish irrevocable standby letters of credit issued by federal home loan banks accompanied by written evidence of that bank's public debt rating, which may not be less than "AA," or a qualified public depository may furnish a corporate surety bond of a corporation authorized to do business in South Dakota.

Investments - In general, SDCL 4-5-6 permits City funds to be invested in (a) securities of the United States and securities guaranteed by the United States government either directly or indirectly; or (b) repurchase agreements fully collateralized by securities described in (a) above; or in shares of an open-end, no-load fund administered by an investment company whose investments are in securities described in (a) above and repurchase agreements described in (b) above. Also, SDCL 4-5-9 requires investments to be in the physical custody of the political subdivision or may be deposited in a safekeeping account with any bank or trust company designated by the political subdivision as its fiscal agent.

2. Deposits and Investments (Continued)

The City is invested in 2,507 shares of the Principal Financial Group stock with a fair market value of $71,500 at December 31, 2012. Such investment violates state law as noted above. The City received the stock due to a demutualization of the City's previous health insurance provider. The stock was not purchased by the City.

Custodial Credit Risk:

The risk that, in the event of a depository failure, the City's deposits may not be returned to it. The City does not have a deposit policy for custodial credit risk. As of December 31, 2012, none of the City's deposits were exposed to custodial credit risk.

Interest Rate Risk:

The City does not have a formal policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

Credit Risk:

State law limits eligible investments for the City, as discussed above. The City has no investment policy that would further limit its investment choices.

Assignment of Investment Income:

State law allows income from deposits and investments to be credited to either the General Fund or the fund making the investment. The City's policy is to credit all income from deposits and investments to the General Fund. GAAP, on the other hand, requires income from deposits and investments to be reported in the fund whose assets generated that income except where legal or contractual requirements require investment income to be credited to a fund other than the one associated with the assets. Where the governing board has discretion to credit investment income to a fund other than the fund that provided the resources for investment, a transfer to the designated fund is reported. Accordingly, in the fund financial statements, interfund transfers of investment earnings are reported, while in the government-wide financial statements, they have been eliminated, except for the net amounts transferred between governmental activities and business-type activities.

3. Property Taxes

Property taxes are levied on or before October 1 of the year preceding the start of the fiscal year. They attach as an enforceable lien on property, and become due and payable as of January 1, the first day of the fiscal year. Taxes are payable in two installments on or before April 30 and October 31 of the fiscal year. The City is permitted by several state statutes to levy varying amounts of taxes per $1,000 of taxable valuation on taxable real property in the City.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONTINUED)
DECEMBER 31, 2012

4. Long-Term Debt

Changes in long-term debt for the year ending December 31, 2012:

	Balance 12/31/2011	Additions	Retirements	**Balance 12/31/2012**	Due Within One Year
Governmental Activities:					
Capital Lease - Street Sweeper	$ -	$ 65,000	$ 10,000	**$ 55,000**	$ 17,438
Business-Type Activities:					
2001 Sewer Revenue Bonds	198,606	-	3,335	**195,271**	3,487
2002 Sewer Revenue Bonds	139,381	-	2,636	**136,745**	3,138
2002 Sewer and Storm Utility Revenue Bonds	105,016	-	1,999	**103,017**	2,378
Total Business-Type	443,003	-	7,970	**435,033**	9,003
Total Primary Government	**$ 443,003**	**$ 65,000**	**$ 17,970**	**$ 490,033**	**$ 26,441**

Long-term debt at December 31, 2012, is comprised of the following:

Revenue Bonds	
2001 Sewer Revenue Bonds due in monthly installments of $1,017, including interest at 4.5 percent, through July 2041. Sewer revenues are pledged for these bonds. Financed through the Sewer Fund.	$ 195,271
2002 Sewer Revenue Bonds due in monthly installments of $771, including interest at 4.5 percent, through June 2037. Sewer revenues are pledged for these bonds. Financed through the Sewer Fund.	136,745
2002 Sewer and Storm Utility Revenue Bonds due in monthly installments of $582, including interest at 4.5 percent through May 2037. Sewer revenues are pledged for these bonds. Financed through the Sewer Fund.	103,017
Capital Lease	
Capital lease for purchase of a street sweeper. Due in annual installments of $20,215, including interest at 5.05 percent, through June 2015. Financed through the General Fund.	55,000
Total Long-Term Debt	**$ 490,033**

No cash was received for the capital lease purchase, so the transaction is not included in the accompanying financial statements. The original cost of the equipment was $65,000 and no depreciation is recorded.

The City has a bond reserve of $28,440 at December 31, 2012, in compliance with their debt covenants.

Pledged Revenue

The City has pledged future revenues of the Sewer Fund for the retirement of its revenue bonds listed above. This debt was used to fund capital projects. The current principal balance plus interest at the stated applicable rate over the life of the debt represents the amount of future revenue pledged. Below is a comparison of principal and interest payments and total pledged revenue for the current year:

Current Year Principal and Interest	$ 29,457
Pledged Sewer Fund Revenue	340,500

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONTINUED)
DECEMBER 31, 2012

4. Long-Term Debt (Continued)

The annual requirements to amortize debt outstanding as of December 31, 2012 are as follows:

	Sewer Revenue Bonds		Capital Lease		**Total**	
	Principal	Interest	Principal	Interest	**Principal**	**Interest**
2013	$ 9,003	$ 19,436	$ 17,438	$ 2,778	**$ 26,441**	**$ 22,214**
2014	9,417	19,023	18,319	1,897	**27,736**	**20,920**
2015	9,850	18,590	19,243	972	**29,093**	**19,562**
2016	10,251	18,189	-	-	**10,251**	**18,189**
2017	10,774	17,666	-	-	**10,774**	**17,666**
2018-2022	61,712	80,488	-	-	**61,712**	**80,488**
2023-2027	77,256	64,944	-	-	**77,256**	**64,944**
2028-2032	96,695	45,505	-	-	**96,695**	**45,505**
2033-2037	112,039	21,183	-	-	**112,039**	**21,183**
2038-2041	38,036	3,028	-	-	**38,036**	**3,028**
Total	**$ 435,033**	**$ 308,052**	**$ 55,000**	**$ 5,647**	**$ 490,033**	**$ 313,699**

The total interest paid for the year ending December 31, 2012, was $20,469.

5. Retirement Plan

All employees, except for part-time employees, participate in the South Dakota Retirement System (SDRS), a cost-sharing, multiple employer public employee retirement system established to provide retirement benefits for employees of the State of South Dakota and its political subdivisions. The SDRS provides retirement, disability and survivor benefits. The right to receive retirement benefits vests after three years of credited service. Authority for establishing, administering and amending plan provisions are found in South Dakota Codified Law 3-12. The SDRS issues a publicly available financial report that includes financial statements and required supplementary information. That report may be obtained by writing to the SDRS, P.O. Box 1098, Pierre, SD 57501-1098 or by calling (605) 773-3731.

General employees are required by state statute to contribute 6 percent of their salary to the plan, while public safety and judicial employees contribute at 8 percent and 9 percent, respectively. State statute also requires the employer to contribute an amount equal to the employee's contribution. State statute also requires the employer to make an additional contribution in the amount of 6.2 percent for any compensation exceeding the maximum taxable amount for social security for general employees only. The City's share of contributions to the SDRS for the fiscal years ended December 31, 2012, 2011, and 2010 were **$82,973**, $99,045, and $12,322, respectively. The contributions during the years ended December 31, 2012 and 2011, included additional contributions of **$60,000** and $76,430, respectively, to provide a contribution equal to one year of retirement for current employees for each five years of consecutive full-time employment. These additional contributions were made in installments starting in 2011 and will continue into 2013.

6. Risk Management

The City is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries to employees; and natural disasters. During the period ended December 31, 2012, the City managed its risks as follows:

Unemployment Benefits:

The City has elected to be self-insured and retain all risk for liabilities resulting from claims for unemployment benefits. During the year ended December 31, 2012, the City paid unemployment benefits totaling $4,239. At December 31, 2012, no claims had been filed for unemployment benefits.

6. Risk Management (Continued)

Health Insurance:

The City purchases health insurance for its employees from a commercial insurance carrier. Settled claims resulting from these risks have not exceeded the liability coverage during the past three years.

Liability Insurance:

The City joined the South Dakota Public Assurance Alliance (SDPAA), a public entity risk pool currently operating as a common risk management and insurance program for South Dakota local government entities. The objective of the SDPAA is to administer and provide risk management services and risk sharing facilities to the members and to defend and protect the members against liability, to advise members on loss control guidelines and procedures, and provide them with risk management services, loss control and risk reduction information and to obtain lower costs for that coverage. The City's responsibility is to promptly report to and cooperate with the SDPAA to resolve any incident which could result in a claim being made by or against the City. The City pays an annual premium, to provide liability coverage detailed below, under a claims-made policy and the premiums are accrued based on the ultimate cost of the experience to date of the SDPAA member, based on their exposure or type of coverage. The City pays an annual premium to the pool to provide coverage for general liability, errors and omissions, property, auto (liability and physical damage), pollution liability, and police professional liability.

The agreement with the SDPAA provides that the above coverages will be provided up to a $1,000,000 limit. Member premiums are used by the pool for payment of claims and to pay for reinsurance for claims in excess of $250,000 for property coverage and $500,000 for liability coverage to the upper limit. A portion of the member premiums are also allocated to a cumulative reserve fund, on the following basis.

End of City's First Full Year	50%
End of City's Second Full Year	60%
End of City's Third Full Year	70%
End of City's Fourth Full Year	80%
End of City's Fifth Full Year	90%
End of City's Sixth Full Year and Thereafter	100%

As of December 31, 2012, the City has a vested balance in the cumulative reserve fund of $-0-, as 2012 was the City's first year under SDPAA. The City does not carry additional insurance to cover claims in excess of the upper limit. Settled claims resulting from these risks have not exceeded the liability coverage during the past three years.

Worker's Compensation:

The City participates in the South Dakota Municipal League Worker's Compensation Fund, a public entity risk pool currently operating as a common risk management and insurance program for South Dakota local government entities. The objective of the fund is to formulate, develop, and administer, on behalf of the member organizations, a program of worker's compensation coverage, to obtain lower costs for that coverage, and to develop a comprehensive loss control program. The City's responsibility is to initiate and maintain a safety program to give its employees safe and sanitary working conditions and to promptly report to and cooperate with the Fund to resolve any worker's compensation claims. The City pays an annual premium, to provide worker's compensation coverage for its employees, under a self-funded program and the premiums are accrued based on the ultimate cost of the experience to date of the Fund members. Coverage limits are set by state statute. The pool pays the first $650,000 of any claim per individual. The pool has reinsurance which covers up to the statutory limit in addition to a separate combined employee employer liability limit of $2,000,000 per incident. The City does not carry additional insurance to cover claims in excess of the upper limit. Settled claims resulting from these risks have not exceeded the liability coverage during the past three years.

CITY OF EAGLE BUTTE

NOTES TO FINANCIAL STATEMENTS – MODIFIED CASH BASIS (CONCLUDED)
DECEMBER 31, 2012

7. Interfund Transfers

Interfund transfers for the year ended December 31, 2012, were as follows:

	Transfer In	Transfer Out
General Fund	$ 147,462	$ -
Liquor Fund	-	147,462
Total	**$ 147,462**	**$ 147,462**

The Liquor Fund transferred funds to the General Fund to eliminate a deficit cash balance in the General Fund primarily due to normal budgetary deficits of the General Fund and airport project expenditures.

CITY OF EAGLE BUTTE

BUDGETARY COMPARISON SCHEDULE - BUDGETARY BASIS
GENERAL FUND
FOR THE YEAR ENDED DECEMBER 31, 2012

	Budgeted Amounts Original	Budgeted Amounts Final	Budgetary Basis Actual Amounts	Variance
Revenue:				
310 Taxes:				
311 General Property Taxes	$ 63,000	$ 63,000	$ 65,568	$ 2,568
313 Sales Taxes	575,000	575,000	455,755	(119,245)
315 Amusement Taxes	500	500	732	232
319 Penalties and Interest on Delinquent Taxes	-	-	1,537	1,537
320 Licenses and Permits	400	400	400	-
330 Intergovernmental Revenue				
331 Federal Grants - Airport Project	-	306,491	306,491	-
335.01 Bank Franchise Tax	350	350	375	25
335.02 Motor Vehicle Commercial Prorate	1,500	1,500	651	(849)
335.03 Liquor Tax Reversion	3,000	3,000	4,119	1,119
335.04 Motor Vehicle Licenses (5%)	1,000	1,000	1,333	333
335.08 Local Government Highway and Bridge	7,500	7,500	14,048	6,548
338.01 County Road Tax (25%)	9,000	9,000	9,687	687
340 Charges for Goods and Services:				
346 Culture and Recreation - Golf Course	-	81,891	81,891	-
360 Miscellaneous Revenue:				
361 Investment Earnings	2,500	2,500	1,953	(547)
362 Rentals	1,800	1,800	3,755	1,955
368 Liquor Operating Agreements	5,000	5,000	4,572	(428)
369 Other	101,600	101,600	1,640	(99,960)
Total Revenue	**772,150**	**1,160,532**	**954,507**	**(206,025)**

CITY OF EAGLE BUTTE

BUDGETARY COMPARISON SCHEDULE - BUDGETARY BASIS (CONTINUED)
GENERAL FUND
FOR THE YEAR ENDED DECEMBER 31, 2012

	Budgeted Amounts Original	Budgeted Amounts Final	Budgetary Basis - Actual Amounts	Variance
Expenditures:				
410 General Government:				
411 Legislative	35,000	48,189	48,189	-
412 Executive	19,000	19,000	17,158	1,842
413 Elections	1,000	2,609	2,609	-
414 Financial Administration	195,000	195,000	167,360	27,640
419 Other	80,000	80,000	32,867	47,133
420 Public Safety:				
421 Police	195,000	195,000	170,049	24,951
422 Fire	25,000	26,931	26,931	-
430 Public Works:				
431 Highways and Streets	197,000	197,000	158,921	38,079
435 Airport	10,000	236,057	236,057	-
440 Health and Welfare:				
441 Health	11,000	13,836	13,836	-
450 Culture and Recreation				
451 Recreation - Ballparks and Other	10,000	25,291	25,291	-
451 Recreation - Golf Course and Restaurant	42,000	133,718	118,483	15,235
452 Parks	46,000	53,207	52,207	1,000
460 Conservation and Development:				
465.3 Promoting the City	24,000	32,013	32,011	2
Total Expenditures	**890,000**	**1,257,851**	**1,101,969**	**155,882**
Other Financing Sources:				
391.01 Transfers In	-	147,462	147,462	-
Total Other Financing Sources	**-**	**147,462**	**147,462**	**-**
Net Change in Fund Balance	**(117,850)**	**50,143**	**-**	**(50,143)**
Fund Balance - December 31, 2011	-	-	-	-
Fund Balance - December 31, 2012	**$ (117,850)**	**$ 50,143**	**$ -**	**$ (50,143)**

The notes to the other information are an integral part of this statement.

CITY OF EAGLE BUTTE

NOTES TO OTHER INFORMATION
DECEMBER 31, 2012

(1) Budgets and Budgetary Accounting

The City's policy is to follow these procedures in establishing the budgetary data reflected in the financial statements.

1. At the first regular board meeting in September of each year or within ten days thereafter, the governing board introduces the annual appropriation ordinance for the ensuing fiscal year. The City approved the original 2012 budget during the February 15, 2012 council meeting.

2. After adoption by the governing board, the operating budget is legally binding and actual disbursements for each purpose cannot exceed the amounts budgeted, except as indicated in item number 4.

3. A line item for contingencies may be included in the annual budget. Such a line item may not exceed 5 percent of the total municipal budget and may be transferred by resolution of the governing board to any other budget category that is deemed insufficient during the year.

4. If it is determined during the year that sufficient amounts have not been budgeted, state statute allows the adoption of supplemental budgets.

5. Unexpended appropriations lapse at year end unless encumbered by resolution of the governing board.

6. The City did not encumber any amounts at December 31, 2012 and 2011.

7. Formal budgetary integration is employed as a management control device during the year for the general fund.

8. A budget for the general fund is adopted on a basis consistent with the modified cash basis of accounting.

(2) GAAP Budgetary Accounting Basis Differences

Financial statements prepared in conformity with the modified cash basis of accounting would present capital outlay expenditure information in a separate category of expenditures. Under the budgetary basis of accounting, capital outlay expenditures should be reported within the function to which they relate. For example, the purchase of a new fire truck should be reported as a capital outlay expenditure on the Governmental Funds Statement of Revenues, Expenditures, and Changes in Fund Balances; however, in the Budgetary Comparison Schedule, the purchase of a fire truck should be reported as an expenditure of the Public Safety/Fire Department function of government, along with all other current Fire Department related expenditures.

DonnaDenker&Associates
certified public accountants

INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

To the Mayor and City Council
City of Eagle Butte, South Dakota

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Eagle Butte, South Dakota (the City), as of and for the year ended December 31, 2012, and the related notes to the financial statements, which collectively comprise Eagle Butte, South Dakota's basic financial statements and have issued our report thereon dated May 14, 2014.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the City's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we do not express an opinion on the effectiveness of the City's internal control.

Our consideration of internal control was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. However, as described in the accompanying schedule of findings and recommendations, we identified deficiencies in internal control that we consider to be a material weakness and a significant deficiency.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. We consider the deficiency 1-2010, described in the accompanying schedule of findings and recommendations, to be a material weakness.

A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance. We consider the deficiency 2-2012, described in the accompanying schedule of findings and recommendations, to be a significant deficiency.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the City's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion, the result of our tests disclosed instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards* and which are described in the accompanying schedule of findings and recommendations as item 1-2010.

We noted certain other matters that we reported to the management of the City in a separate letter dated May 14, 2014.

Eagle Butte, South Dakota's Response to Findings

The Municipality did not wish to respond to the findings identified in our audit as described in the accompanying schedule of auditor's findings and recommendations.

Purpose of This Report

This report is intended solely for the information and use of the South Dakota Legislature and the governing board and management of the City of Eagle Butte, South Dakota and is not intended to be and should not be used by anyone other than these specified parties. However, as required by South Dakota Codified Law 4-11-11, this report is a matter of public record and its distribution is not limited.

Donna Denker & Associates
Certified Public Accountants

May 14, 2014

CITY OF EAGLE BUTTE
SCHEDULE OF AUDITOR'S FINDINGS AND RECOMMENDATIONS
DECEMBER 31, 2012

MATERIAL WEAKNESS

1-2010 Investment in Public Funds

Condition: The City has $71,500 invested in common stock.

Criteria: Public funds are required to be invested in qualified public depositories as defined in SDCL 4-6A or specific types of investment as defined in SDCL 4-5-6. Common stock investments are not allowed within the statutes.

Cause: The City received common stock due to the demutualization of the City's prior health insurance provider. No action has been taken by the City Council to move the funds to an allowable account.

Result: The City is not in compliance with State statutes.

Recommendation: We recommend the city invest these funds in a public depository as allowed by SDCL 4-6A or in investments allowed by SDCL 4-5-6.

SIGNIFICANT DEFICIENCY

2-2012 Internal Control over Disbursements

Condition: The City's internal controls over expenditures and payroll improved again in 2012, however, we noted some exceptions to City procedures during testing.

Criteria: Strong internal control requires proper segregation of duties as well as documentation of review and approval. Without proper documentation and review the City is at risk for misappropriation of assets.

Cause: The City improved controls over expenditures and payroll during the year by including the assistant finance officer as part of the control process. In addition, reports were provided to the Mayor and Council. Although the internal controls over disbursements and payroll improved during the year, we noted some missing approvals.

Result: We noted invoices were not available with the check documentation for 4 of the 60 items selected for testing. The invoices should be available for the check signers during the approval process and maintained with the check documentation. The invoices were provided subsequent to our field work. In addition, we noted warrant vouchers were not available for 2 of 60 items selected for testing. We noted a small difference in the approved pay for one employee selected for testing.

Recommendation: Documentation of the review process is a key to a good internal control system. All documentation should be available during the check approval process and maintained with the check documentation. During review of payroll reports pay rates should be monitored to ensure the wage paid agrees with the approved rate. In addition, accounts payable and payroll reports should be reviewed, agreed to the meeting minutes and initialed by the Mayor or a designated Council Member to show approval.

FACILITIES PLAN

FOR

WASTEWATER FACILITIES IMPROVEMENTS
EAGLE BUTTE, SOUTH DAKOTA

April 2012

I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Licensed Professional Engineer under the laws of the State of South Dakota.

By _____
Michael J. Carr, P.E.

South Dakota License No. 7631

Date 5/16/12

REGISTERED PROFESSIONAL ENGINEER
REG. NO.
7631
MICHAEL J.
CARR
SOUTH DAKOTA

DGR Project No. 662140

DEWILD GRANT RECKERT & ASSOCIATES COMPANY
CONSULTING ENGINEERS

ROCK RAPIDS, IA • **SIOUX FALLS, SD** • **SIOUX CITY, IA**
(712) 472-2531 **(605) 339-4157** **(712) 266-1554**

FACILITIES PLAN

FOR

WASTEWATER FACILITIES IMPROVEMENTS
EAGLE BUTTE, SOUTH DAKOTA

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FACILITIES PLAN

FOR

WASTEWATER FACILITIES IMPROVEMENTS
EAGLE BUTTE, SOUTH DAKOTA

I. INTRODUCTION

The City of Eagle Butte is a small community located in Dewey and Ziebach Counties in South Dakota.

In March 2012, DeWild Grant Reckert and Associates (DGR) was hired to complete a Wastewater System Study to prepare a comprehensive report of the City's existing wastewater collection and treatment system and identify areas for operational efficiencies and improvements. The City owns and operates their own collection and treatment system, and has experienced a number of problems including odor issues with the lagoon facility, undersized pond transfer piping, problems with aging sewer lines that cause backups, an aging lift station, and areas within the corporate limits that are not serviced by the municipal sewer utility. Many of these problems have reached a point of critical concern and will continue to get worse with age.

II. ENVIRONMENTAL REVIEW

A. Environmental Information:

1. Community Information

a. Contact Information

The City of Eagle Butte may be contacted through one of the methods below:

Mail: City of Eagle Butte
P.O. Box 150
209 Main Street
Eagle Butte, SD 57265-0150

Phone: (605) 964-8783
Fax: (605) 964-8785

Email: sjganje@cityofeaglebutte.com

b. Employee Identification Number (EIN)
46-6003342

c. City Council - January 2012

Stephanie Davidson, Mayor
Richard Zander
Kiel Lemke
Wanda M. Lind
Dale B. McCrea
Harley H. Morgan
J. Daniel Shepherd

The City of Eagle Butte has an aldermanic form of government whereby a six-person council is elected from three wards for staggered two-year terms and the mayor is elected at large by popular vote and serves a two-year term as well.

City Council Mission Statement:
The City of Eagle Butte Council shall govern with foresight, diplomacy, and diligence. It is our mission to provide quality and safe services that best meet the needs of the community for which they serve. The City shall act to ensure equality, liberty and justice for all.

City Council Goals and Objectives:
The City Council shall govern within the parameter provided by the State of South Dakota. The City Council's primary goal is to listen to the community and address the needs as expressed by the community or anticipated by the city council. The vision for our community is to continually strive to maintain past and current improvements, provide new improvements and added services and finally ensure a safe, esthetically pleasing and ever a progressive community where our

residents wish to remain and others are drawn into the community either on a permanent basis (new business and new families) or on a temporary basis (tourism, industry, shopping, education and services).

Planning/Development Personnel:
-Sheila J. Ganje, Finance Officer
-Benjamin Jon Ganje, Streets/Parks/Water/Wastewater Superintendent

2. Geography/History

The City of Eagle Butte is a municipality located in the rural, agricultural based and economically depressed, north central South Dakota, approximately 80 miles northwest of the capital city of Pierre. The city limits place the Eagle Butte community within the counties of Dewey County and Ziebach County. Eagle Butte's location is equidistant to and from three major mid-western metropolitan trading centers, Rapid City, South Dakota, Aberdeen, South Dakota, and Bismarck, North Dakota. See aerial photo in Figure No. 1 at the end of this report.

The City of Eagle Butte is considered to be very remote by most standards with the closest cities located either 90 miles from Eagle Butte – Pierre, SD or 180 miles from Eagle Butte – Rapid City, SD. US Highway 212, one of the longest major routes in the United States, passes through the northern edge of the Eagle Butte Community as serves as a major route to and from Eagle Butte. Highway 63 runs west of Eagle Butte where it connects with a highway leading to Pierre in one direction or to the Black Hills in another direction.

The City of Eagle Butte was incorporated in 1911. In 1910 Eagle Butte was composed of one store and a tent. Less than a year later, the lure of free land in South Dakota to homesteaders made Eagle Butte a thriving city of 66 businesses in the middle of the prairie. In 1960 the town became the headquarters of the Cheyenne River Sioux Tribe (CRST) and the Bureau of Indian Affairs (BIA) and was thereby transformed into a unique juxtaposition of culture and influences.

3. Demographics

The City of Eagle Butte is located in north central South Dakota within the rural, agricultural based, economically depressed counties of Dewey County and Ziebach County. Both counties were recently ranked in the top ten poorest counties in the United States. Ziebach County continues to have the highest poverty rate in America since 2004 and unemployment is common. The City of Eagle Butte is an under-served community suffering economic hardship. The counties of Dewey and Ziebach are rural and agriculturally based whereby the largest percentage of the individuals residing within these two counties derive an income generated by family owned farms and ranches. The farmers and ranchers rely on the natural resources of the grassland for their very livelihood. Aside from the farm and ranch industry whereby individuals are generally self-employed, the three largest employers within the community are the Bureau of Indian Affairs (BIA), Cheyenne River Sioux Tribe (CRST) and the Indian Health Service (IHS).

The Eagle Butte community is a rapidly growing population center in South Dakota. The population in Eagle Butte grew approximately 17% between 2000 and 2010 as shown by the Census Statistics below.

2000 Census	
Eagle Butte:	619
North Eagle Butte:	2,168
	2,787

2010 Census	
Eagle Butte:	1,318
North Eagle Butte:	1,954
	3,272

The corporate boundaries and close proximity of census tracts make it difficult to accurately estimate the population; however, the current population estimates indicate that 3300-3400 people reside within the Eagle Butte community that would include the City of Eagle Butte and North Eagle Butte (not incorporated). See Census Data at the end of this report.

The Eagle Butte community is the largest community in Dewey County and may well become the largest community in Ziebach County in the near future, given recent growth in the community in the portion of Eagle Butte lying in Ziebach County. Several population sources consistently understate the community's population because residential subdivisions on the outside of Eagle Butte are not annexed within the corporate limits and therefore are often not accounted for in their populations statistics. However, many of these residents receive service from the City of Eagle Butte water and sewer utilities. Since the 2000 Census a Local Developer – Oti Kaga has constructed numerous housing projects within Ziebach County and the city limits (South Main Apartments being the only housing complex as of the 2000 Census) to include Black Hawk Apartments, Falcon Apartments and most recently Buffalo Lodge Homes.

The population of North Eagle Butte is not often combined with the City of Eagle Butte's population given financial constraints associated with the annexation of land in trust with the US Government (nontaxable). Nonetheless, the service territory for the City of Eagle Butte Water Department does encompass the city limits as well as territory outside of the city limits such as North Eagle Butte. North Eagle Butte does include Bureau of Indian Affairs housing, Cheyenne River Sioux Tribal housing, Cheyenne River Housing Authority Housing and Indian Health Service Housing whereby all of this land is in trust with the US government, has no tax base and is therefore maintained by the respective agencies.

The City of Eagle Butte is also located in the heart of the Cheyenne River Sioux Reservation. Recent statistics established that the water and sewer services provided to the Eagle Butte community provided services to a population composed primarily of individuals considered to be of a minority whereby approximately 89% of the community served is of a minority. The predominant minority group is composed of American Indians. The City of Eagle Butte is filled with cultural and economic diversity and is rich in history of the Old West as well as Native American folklore and art.

Because of the distance from larger service centers such as Bismarck, Rapid City, and Aberdeen (all of equal distance from Eagle Butte - 320 miles round trip - 3 hours from Eagle Butte one way) and because Eagle Butte is the

headquarters for the Cheyenne River Sioux Tribe (CRST) and Cheyenne River Branch of the Bureau of Indian Affairs (BIA) and Indian Health Services/Public Health Services (IHS/PHS), Eagle Butte serves as an important service center for many surrounding communities to include Black Foot, Cherry Creek, Dupree, Faith, Green Grass, Iron Lightning, Lantry, LaPlant, Parade, Promise, Red Scaffold, Ridgeview, Swift Bird, Timber Lake, White Horse and more. The Cheyenne Agency is the administrative body and center for the Minneconjou, Sans Arc, Two Kettle and Blackfeet Sioux. The CRST Reservation consists of 2.8 million acres in Dewey and Ziebach counties, making it roughly the size of Connecticut. The Eagle Butte community also services the many rural residents of who are employed or derive an income from agriculture production and related services, which makes up the biggest share of the economic base or composes the primary source of revenue and industry. There are many community events that occur on an annual basis in the area to include but not limited to the CRST Fair/Rodeo/Pow Wow, Green Grass Sun Dance and other Sun Dances, Minneconjou Pow Wow as well as countless local business events. There are times when the services available in the area and, more particularly, at the park force event goers and visitors to travel to other communities to obtain park services while attending these events. Many of these events are a basis for the tourism industry.

4. Climate

Because of its mid-continental position and its location near the paths of many cyclonic storms, north central South Dakota has a markedly continental climate with extreme summer heat, extreme winter cold, and rapid fluctuation of temperature. Temperatures of 100° or more are not uncommon during summer months, but as they are ordinarily accompanied by low humidity, they are less oppressive than are such temperatures in the States farther east. Temperatures fall below zero frequently from November to March, and at times these low temperatures are accompanied by strong winds. The average precipitation for the area is 17"/yr.

5. Topography

The topography is gently sloping from an elevation of approximately 2,420 ft. on the south side of town to 2,390 in the middle of town and back up to approximately 2,400 on the north side of town. Contour elevations are shown in Figure No. 2 on a U.S.G.S. quadrangle map found at the end of this report.

6. Surface Water and Groundwater

Surface water conditions vary throughout the year with streams generally reaching high levels during the spring. Groundwater availability varies; quality drinking water in the region is often found at a depth of more than 3,000' below ground level.

7. Geology and Soils

The primary soil formation factor of the western South Dakota area consists of a parent material of sandstone and/or shale. The area is outside of the glacial drift deposits which are more common East River. Soil types include Morton silt loams, Belfield-Dylan silt loams; and Morton-Belfield, Morton-Farland, or Morton Lantry silt loam complex. Additional information can be found in Appendix A.

B. Historical and Archaeological Sites:

The City of Eagle Butte will complete a cultural survey of the proposed project area prior to construction. Procedures set forth by USDA and the State of South Dakota will be followed. Coordination will also be made with the Cheyenne River Sioux Tribe and the Tribal Historical Preservation Office.

Generally speaking, the areas of reference covered by this report are areas of previous excavation for utility installation purposes. If specific sites of cultural significance are found, the project facilities will be relocated to avoid disturbance to the site. The City anticipates working with the Tribal Historical Preservation Office during all excavation projects covered by this report.

If historical or archaeological sites are identifies at or near the site of the existing lagoon treatment system, every effort will be made to avoid them as relocation of the existing system ponds would be impractical and cost prohibitive.

C. Floodplains and Wetlands:

There are some wetlands that have been previously identified in the project area; however, the project will be developed to avoid these areas. Wetlands are rare in the project area and will be avoided if possible. Each of the potential alternatives identified in this report will occur at the same location of the existing infrastructure, and in no case will any previously undisturbed areas be disturbed. If additional wetlands are encountered during the construction process, the construction will be rerouted or installed using horizontal boring equipment to limit the disturbance to wetlands as a result of this project. No fill will be added to natural wetlands. All floodplain areas will be returned to their original condition after construction and there will be no lasting effect on the floodplain as a result of this project. A preliminary review of floodplain maps for Eagle Butte indicate that project areas covered by this report are not located in identified flood plains. See Figure 3, Flood Zone Map at the end of this report.

Erosion control procedures such as installation of silt fences, storm drain inlet protection and reseeding of disturbed areas will be implemented as required to minimize the potential for pollutants to reach environmentally sensitive areas.

D. Wild and Scenic Rivers:

There are no wild or scenic rivers that would be affected as a result of this project. Streams and waterways will be protected from environmental impacts as discussed in paragraph C above.

E. Fish and Wildlife Protection:

The project area does not include any areas of fish habitat. Wildlife inhabit the project area, but there are no known rare or endangered species within the project area. Biological resources in the area are those typical of an agricultural region. There are no game preserves, national forests, or any endangered or rare species present within the project area. If any rare or endangered species are encountered,

the appropriate agencies will be contacted. If possible, construction will be relocated to avoid such species. Construction on habitat areas will be carefully managed to minimize any potential effects to biological resources.

F. Water Quality and Quantity:

There are no water bodies or rivers in the project area. Small streams and ground water are areas that the project may impact. Streams and waterways will be protected from environmental impacts as discussed in paragraph C above. Groundwater and surface water quality will be improved if recommended improvements are implemented by reducing the quantity of wastewater that has to be pumped and treated as a result of infiltration and inflow reduction. In the event of a low groundwater table, exfiltration that may be occurring and the resulting groundwater contamination will also be eliminated. In general, improved wastewater treatment will increase the surface water and groundwater quality.

G. Miscellaneous Issues:

Items considered under this category include air quality, noise and solid waste management. These issues are present on nearly every construction project. This project will not include any long-term air emissions. Short-term effects on air quality include dust and construction equipment exhaust and will be similar to air quality impacts of present farming equipment within the region. No major sources of noise are anticipated, with the exception of minor disturbances created by construction equipment. This noise would be similar to noise created by normal farming operations and truck traffic within the project area. A small amount of solid wastes will be generated by construction activities, primarily in the form of packaging materials removed from equipment and materials which will be incorporated into the work.

Dust suppression will be provided as needed through the use of watering vehicles. Noise from construction equipment will be minimized through the use of appropriate mufflers and other noise devices. Construction equipment must meet all appropriate OSHA and state and federal laws regarding emissions and noise. Work will normally be limited to daylight hours, Monday through Saturday. Solid waste materials will be disposed of in approved landfills or by other methods approved by local and state regulations.

H. Direct and Indirect Impacts:

There will be no impacts, direct or indirect, on the environment due to construction of the proposed projects as outlined in this report. There will be beneficial impacts to the citizens of Eagle Butte as a result of this project.

I. Mitigating Adverse Impacts:

No mitigation required.

III. EXISTING AND FUTURE CONDITIONS

A. Project Need and Planning Area Identification:

1. Wastewater Collection System

The City of Eagle Butte currently provides sewer service to approximately 907 users. The collection system consists of 4" diameter gravity service piping, approximately 66,000 feet of 8" and 10" gravity sewer mains, and approximately 208 manholes. Much of the sewer main installed consists of VCP sewer pipe with bell and spigot joints. CIP is evident under highway crossings. Newer subdivisions primarily have 8" PVC as the construction material. Collection system drawings are found in the Appendix. Manholes are primarily constructed of concrete, with some concrete block manholes and a few brick manholes. Concrete manholes are typical of newer construction. A detailed inventory of manhole depths and materials of construction are found in the City's utility maps.

The City currently cleans approximately 1/3 of the sewer system annually. Portions of the system are televised on an as-needed basis. A review of the videos indicates pipeline that is in reasonably good condition considering the age of system. Some evidence of leaking joints, leaking service taps, and other infiltration was observed on the tapes. The City has not experienced pipe capacity issues or sewer backups due to infiltration issues.

One particular problem area is a 10" CIP sewer main that crosses Highway 212 north of Main Street and provides service to a critical commercial area and some residential properties. In reviewing the existing video logs, this line has rusted inward such that the camera could not pass. Backups and slow flow through this area are common problems. Pictures detailing this problem are found in Appendix D of the report.

There are also areas north of Highway 212 that are within the corporate limits that are currently unsewered, with on-site septic systems. The problems with the line crossing under Highway 212, as well as lack of depth for the existing sewer main, make serving this area difficult. A new lift station at this location or replacing an existing lift station with a deeper wet well and replacing sewer mains at lower depths would be required to provide sewer service.

2. Treatment Facility

The City's wastewater treatment system consists of a three cell, facultative lagoon system located in the northwest corner of the community. The facility is designed such that raw wastewater flows into the primary lagoon cell where sunlight, air movement, and naturally occurring bacteria treat the waste prior to transfer into Cell's #2 and #3. Discharge occurs if needed after a 180 day holding period. A copy of the City's NPDES permit is found in the Appendix B as well as the treatment system layout.

The lagoon cells appear to be well maintained, with no visible signs of erosion or burrowing animals present. Site pictures are found in Appendix D. In reviewing the Operation and Maintenance Manual, the primary lagoon cell organic loading is less than the 20 lb/ac/day maximum allowable by State rule. Hydraulically the system is not overloaded as the City has been able to operate within its permitted discharge window. Additional information regarding the size and capacity of the system are also found in the Appendix.

The City has experienced odor problems frequently throughout the year. The facility was upgraded in 2001 in anticipation of receiving wastewater from a new Indian Health Services (IHS) hospital. The odor issues have worsened since that project was completed. As-built plans and survey data that was

obtained as part of this study indicate that portions of the primary lagoon are in excess of 11' in the sludge storage area. The inlet pipe to the primary cell appears to have been installed very close to the dike, which likely reduces the flow distribution and organic loading dispersion in the cell.

Additionally, it has been noted that the Operator has had difficulty in transferring water from the primary lagoon cell to the secondary lagoon cells. State regulations require a minimum of 8" piping whereas the existing piping is 6" in diameter. Increasing the size of transfer piping would address this issue.

3. Lift Station

The City operates two lift stations for their wastewater service area. One lift station is located on the north end of the "No-heart" subdivision, which lies outside the corporate limits but is serviced by the City of Eagle Butte municipal sewer utility. This lift station was installed by others in the 1970's and then turned over to the City without Operation and Maintenance manuals or as-built information. The station is a 5 ft. diameter concrete manhole with two 5 hp submersible pumps. One pump has recently been replaced while the other pump has been rebuilt.

The other lift station is located in the northeast corner of the intersection of Main Street and Dupree Avenue. It is located on tribal property which is not able to be owned by the City. It is believed to be installed in the 1960's and is in disrepair. This lift station was installed by others as well and was also turned over to the City without Operation and Maintenance manuals. The station is a 5 ft. diameter concrete manhole with two 5 hp submersible pumps. The pumps have been replaced multiple times and the City has recently experienced electrical control panel issues as well as issues with the floats.

An inspection of the lift stations were performed and pictures are found in the Appendix. Corrosion of the concrete structure was very evident, with aggregate showing. The electric control panel is very old and out dated.

The City utilizes a portable generator for backup to the stations.

The planning area includes the entire City corporate limits, as well as the areas outside corporate limits that are served by the municipal sewer utility, and encompasses the collection system, lift stations, and treatment facility. Improvements to the treatment facility would occur within the existing site boundary.

B. Existing Wastewater Flows and Treatment System:

The treatment facility Operation and Maintenance (O & M Manual) indicates that the design criteria is as follows:

TABLE 1-1

2001 DESIGN YEAR LOADINGS
EAGLE BUTTE, SOUTH DAKOTA

POPULATION:

Current Population Base (2000 Census)	2820 people
Future Population Base (Estimated 2020)	4000 people
Future Hospital 50 bed	

HYDRAULIC LOADING:

Domestic	4000 people x 75 gpcpd = 300,000
Infiltration	= 3000
Hospital	= 12,500
Average Daily Flow	315,500 gpd

ORGANIC LOADING:

BOD	4000 people x .20 lbs BOD/day = 800 lbs/day

The wastewater facility was reconfigured in 2001 and consists of a primary lagoon cell with a surface area of 32.9 Acres and a usable storage volume (2' minimum depth) of 98.1 Ac.ft. The nominal depth is 5 ft., however the O & M manual indicates that a portion of the cell is 12 ft. in depth for sludge storage (this was verified as part of the study), Cell #2 has a surface area of 19.5 Ac. and a total capacity of 117.0 Ac.ft. The depth ranges from 6 to 7 ft. Cell #3 has a surface area of 15.0 Ac. And a total capacity of 193.6 Ac.ft. The total depth of Cell #3 ranges from 13 to 15 ft. A drawing showing the treatment facility as well as additional data are shown in Appendix B.

C. Infiltration and Inflow (I/I), Effluent Limitations:

Infiltration and Inflow exists within the sanitary sewer system. There are no specific areas in town that create an abnormal amount of clear water intrusion; however, as the system ages, this situation is likely to worsen. Infiltration and inflow does not currently affect the ability of the facility to meet effluent limitations. The effluent limitations currently in place are standard for lagoon facilities discharging to non-sensitive water bodies (i.e. ave 30 mg/L BOD, ave 30 mg/L TSS). The facility currently does not have a problem of meeting effluent limitations and is able to operate within its permitted discharge window indicating it is not hydraulically overloaded.

D. Future Conditions:

The 2000 Census population for the area served by the Eagle Butte treatment facility was 2,820 people. This includes areas described as the City of Eagle Butte, as well as areas on the Cheyenne River Indian Reservation adjacent to the community, commonly referred to as North Eagle Butte. The 2020 population estimated in the report was 4,000. The current population served is unknown due to the presence of adjacent sewer collection systems (primarily Tri-County Water Association); however, the current population of Eagle Butte and North Eagle Butte is estimated to be 3300-3400. It is not likely that this entire population is served by the municipal sanitary sewer utility. This allows for a large amount of excess capacity for growth of the community.

IV. DEVELOPMENT AND SCREENING OF ALTERNATIVES

A. Wastewater Treatment System:

1. Odor Control

Based on a preliminary review, it appears that the odor issues are a result of the close proximity to the City, prevailing winds from the west, inlet piping being located close to the dike, and deeper areas in the cells that may not be aerobic, as well as accumulation of sludge in Cell #1. City staff indicated that sludge was not removed as part of the 2001 project.

a. No Action Alternative

The treatment facility is functional in its current state and meets effluent limits needed to protect the environment. The odors are a nuisance to the community and quality of life. While no severe health concerns have been noted, this situation is not likely to improve and may worsen as the sludge accumulations increase. Increasing Public complaints about the severity and frequency of this problem make the no action alternative not feasible.

b. Alternative #1: Partial Aeration of Cell #1

An alternative was examined to aerate portions of Cell #1 near the inlet line as well as the deepened sludge storage area. Aerating these areas would improve treatment of the raw wastewater as well as improve oxygenation of the pond contents. A "cleaner" liquid is then transferred into Cell #2 which would then also have lesser odor problems and would polish the liquid before transferring into Cell #3. Improving the water being transferred into Cell #3 would also improve its characteristics and reduce odor during pond turnover.

c. Alternative #2: Total Aeration of Cell #1 and Sludge Removal

The second alternative considered was the aeration of the entire contents of Cell #1, as well as sludge removal from the deepened area. Since it appears that no sludge was removed in 2001, it is difficult to estimate whether sludge would also be present in Cell #2. Taking sludge depth readings to estimate the area to be removed would be required prior to defining the removal area. Cleaning the lagoon cells as needed would remove a source of oxygen demand as well as odor production prior to installation of an aeration system.

If floating aerators are used in the aeration package, this alternative also allows the possibility to move than to Cells #2 and #3 if needed. The depths of those cells make stratification likely, with anaerobic zones. Some aeration would assist in oxygen transfer and mixing. Another option would be to purchase backup aerators and provide several in each of the secondary cells to facilitate additional mixing, reduce odors, and increase the quality of the treated effluent.

2. Transfer Piping

Based on a preliminary review of the system hydraulics the existing 6" transfer piping is severely undersized. State regulations call for a minimum of 8" piping as well as the ability to transfer up to 6" of liquid volume per day.

a. No action alternative

The Operator currently is able to transfer water using the 6" transfer piping as well as a 10" auxiliary line in the SE corner of Cell #1; however, the time required to do so is significant. With the facility meeting effluent limits this practice is feasible in the near term. Once the population increases to the design population, the volume of water that needs to be transferred within a given timeframe will increase. The no action alternative is not considered a feasible long term solution and does not meet the standards to transfer 6" of pond volume per day.

b. Alternative #1: Installation of 12" transfer piping.

The first alternative considered with the installation of new 12" transfer piping to facilitate transfer of water. This piping would dramatically increase the transfer rate over the existing 6" piping and, in conjunction with the other existing piping, be adequate to transfer the 6" pond volume per day.

c. Alternative #2: Installation of 16" transfer pipe and abandonment of existing piping.

The second alternative considered with the installation of a larger diameter transfer pipe that would be sufficient to solely transfer the contents of Cell #1. The existing 6" and 10" line would then be abandoned. This alternative would remove some flexibility related to withdrawing water from multiple locations. In case of a valve or piping failure transferring water could be problematic. The cost of replacement valves, materials and installation for this alternative are also more expensive than alternative #1.

B. Lift Stations

The No-Heart lift station is in generally good repair without significant operational concern. The other lift station located at the intersection of Main Street and Dupree Avenue, appears to be approximately 50+ years old it is reaching the end of its design life. The pumping equipment, valves, electrical controls, and other features will need to be replaced as they fail. The lift station is currently on property that is not owned by the City of Eagle Butte. Relocating the lift station to City-owned or leased property and interconnecting to the existing gravity sewer and force main is recommended.

C. Collection System

1. Highway 212 Sewer Crossing

Upon reviewing the sewer video dating from 2000, the CIP line under Highway 212 is severely corroded. In the 12 years that have passed since that time, this situation has worsened and resulted in increasing frequency of operational problems.

a. No action alternative:

The no action alternative would result in increased cleaning frequency until the pipeline completely plugs and fails. This would eventually result in sewage backups and/or bypass pumping and is not considered feasible.

b. Alternative #1: Reaming CIP and lining pipeline:

The first alternative considered was reaming the CIP to regain the normal I.D. of the pipe. The pipeline would then be lined with a Cured-In-Place Pipe (CIPP) product to eliminate future corrosion and renew the structural integrity of the pipeline. The existing manholes and pipeline location would remain intact. The existing grade and elevation would remain the same.

c. Alternative #2: Bore and Jack new pipeline under Highway 212.

The second alternative considered is to bore and jack a new pipeline under Highway 212. In this alternative the grade of the pipe can be adjusted to provide more depth on the north side of the highway. This would allow for the possibility of extending the sewer main to the east to address users that are currently considered "unsewered".

d. Alternative #3: Installation of new lift station north of Highway 212.

The third alternative considered was the installation of a new lift station north of Highway 212 and installation of a new force main that discharges into the gravity sewer system. This alternative eliminates the need to bore and jack a large gravity sewer and casing under the highway. The force main is smaller diameter, can be installed at a reduced depth, and does not have to be installed on a grade. A new lift station location can increase the depth of the sewer main such that service can be provided to unsewered areas within the corporate limits. Property for a lift station would be required under this alternative as well as a standby generator.

2. Remaining Collection System

The remaining system shows signs of aging as well as inflow and infiltration. While not critical at the time of this study, aging infrastructure should be considered for replacement as part of future utility and infrastructure projects.

V. SELECTED PLAN, DESCRIPTION, AND IMPLEMENTATION

A. Alternative Comparison

1. Wastewater Treatment Facility

The recommended alternative is to aerate Cell # 1. A combination of diffused aeration with some small floating aerators/mixers offers flexibility to add air at low pond levels with the diffused aeration while the floating aerators provide more vigorous mixing at greater pond depths.

The inlet piping is recommended to be extended approximately 300' from its existing location to increase the dispersion of organic loading into the pond and allow for better mixing of influent.

The interconnecting piping between Cell #1 and #2 as well as Cell #2 and #3 needs to be replaced with multi-level, larger diameter (12") piping to facilitate transfer of water in a timely manner. The recommend lagoon improvements are estimated to cost $730,000. A detailed cost breakdown is found at the end of this section.

1. Collection System

It is recommended to install a new lift station north of Highway 212 to serve existing customers. The new lift station will discharge into the existing gravity sewer system on Sycamore Street. By placing the lift station north of Highway 212 the gravity sewer can be deepened to facilitate connection of existing businesses within the cooperate limits that currently are not on City sewer. Crossing Highway 212 with a smaller diameter pressure pipeline is less costly than installing a larger diameter gravity sewer on grade. A standby generator with automatic transfer switch is also recommended. A detailed cost breakdown is found at the end of this section.

B. Operation And Maintenance

Installing aerator equipment will increase the cost of operation and maintenance due to electrical costs and replacement aerators needed over time. These costs can be managed by optimizing the run time to positively affect the odor problem with the minimum amount of run time.

Installing new transfer piping will reduce the operator's time transferring water slightly. Installing a lift station north of Highway 212 will reduce maintenance costs due to reduced jetting needs and will reduce the risk of an emergency situation arising due to a plugged sewer system.

C. Conclusions and Recommendations

1. It is recommended that the City of Eagle Butte proceed with sludge removal and aeration of Cell #1, extension of the inlet piping and installation of 12" transfer piping to address the issues identified at the existing wastewater treatment system site. Due to the odor issues that impact health and quality of life as a result of the existing conditions, it is recommended that the improvements be performed as soon as feasible.

2. It is recommended that the City of Eagle Butte consider installation of a new lift station and sewer main north of Highway 212. These improvements are critical and should be completed as soon as possible to maintain wastewater collection service to properties served on the north side of Highway 212. A stand by generator should also be installed to provide emergency service.

3. It is recommended that the City consider additional wastewater collection system improvements to replace aging pipe infrastructure. This need is not considered critical and coordinating this work with other street and utility projects will result in significant cost savings.

4. As funding permits, the City should consider additional sanitary sewer collection system improvements to address areas currently unsewered within the corporate limits of town and operating with private septic systems.

5. The City should proceed with procuring adequate funding to address system needs as outlined in this study. The primary source of funding is anticipated to be South Dakota State Revolving Funds. Other funding sources that meet time constraints should also be considered, to include Community Development Block Grants and Rural Development funding opportunities.

6. The City should commence with completing the Environmental and Tribal Clearance process to address the system needs.

Sycamore and N212 Improvements		$1,005,000.00
Lagoon Improvements		$ 730,000.00
	Total	$1,735,000.00

The following table shows the cost of a 30 year loan @3.25% and its impact on sewer rates. As can be seen in the attached, without any grant the sewer rate will

have to be increased $12.43/month/user or an increase of 65%. The table shows various grant alternatives and the related rate increase.

D. Implementation Schedule

May 1, 2012	Request to be placed on the State Water Plan and request funding for critical improvement projects (Highway 212 wastewater sewer main crossing improvements and odor issue improvements at the treatment lagoon site)
June 28, 2012	SD DENR Board Meeting
July 1, 2012	Begin plans and specifications for water main improvement projects and water meter replacement project
September 1, 2012	Funds available
October 1, 2012	Receive project bids
October 15, 2012	Begin construction
July 1, 2013	Construction completed
Ongoing	Continue to pursue options to address other needs identified in this report

Note that above schedule is dependent upon timing of funding announcement.

CENSUS DATA

FactFinder

DP-1

Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: North Eagle Butte CDP, South Dakota

Subject	Number	Percent
SEX AND AGE		
Total population	1,954	100.0
Under 5 years	225	11.5
5 to 9 years	202	10.3
10 to 14 years	209	10.7
15 to 19 years	212	10.8
20 to 24 years	128	6.6
25 to 29 years	127	6.5
30 to 34 years	111	5.7
35 to 39 years	114	5.8
40 to 44 years	125	6.4
45 to 49 years	135	6.9
50 to 54 years	86	4.4
55 to 59 years	90	4.6
60 to 64 years	55	2.8
65 to 69 years	48	2.5
70 to 74 years	43	2.2
75 to 79 years	22	1.1
80 to 84 years	12	0.6
85 years and over	10	0.5
Median age (years)	25.1	(X)
16 years and over	1,282	65.6
18 years and over	1,193	61.1
21 years and over	1,076	55.1
62 years and over	165	8.4
65 years and over	135	6.9
Male population	939	48.1
Under 5 years	109	5.6
5 to 9 years	103	5.3
10 to 14 years	105	5.4
15 to 19 years	108	5.5
20 to 24 years	67	3.4
25 to 29 years	63	3.2
30 to 34 years	52	2.7
35 to 39 years	55	2.8
40 to 44 years	61	3.1
45 to 49 years	71	3.6
50 to 54 years	35	1.8
55 to 59 years	41	2.1
60 to 64 years	24	1.2
65 to 69 years	23	1.2
70 to 74 years	15	0.8
75 to 79 years	5	0.3
80 to 84 years	1	0.1
85 years and over	1	0.1

Median age (years)	23.5	(X)
16 years and over	607	31.1
18 years and over	562	28.8
21 years and over	499	25.5
62 years and over	59	3.0
65 years and over	45	2.3
Female population	1,015	51.9
Under 5 years	116	5.9
5 to 9 years	99	5.1
10 to 14 years	104	5.3
15 to 19 years	104	5.3
20 to 24 years	61	3.1
25 to 29 years	64	3.3
30 to 34 years	59	3.0
35 to 39 years	59	3.0
40 to 44 years	64	3.3
45 to 49 years	64	3.3
50 to 54 years	51	2.6
55 to 59 years	49	2.5
60 to 64 years	31	1.6
65 to 69 years	25	1.3
70 to 74 years	28	1.4
75 to 79 years	17	0.9
80 to 84 years	11	0.6
85 years and over	9	0.5
Median age (years)	26.8	(X)
16 years and over	675	34.5
18 years and over	631	32.3
21 years and over	577	29.5
62 years and over	106	5.4
65 years and over	90	4.6
RACE		
Total population	1,954	100.0
One Race	1,901	97.3
White	85	4.4
Black or African American	4	0.2
American Indian and Alaska Native	1,806	92.4
Asian	2	0.1
Asian Indian	0	0.0
Chinese	0	0.0
Filipino	2	0.1
Japanese	0	0.0
Korean	0	0.0
Vietnamese	0	0.0
Other Asian [1]	0	0.0
Native Hawaiian and Other Pacific Islander	0	0.0
Native Hawaiian	0	0.0
Guamanian or Chamorro	0	0.0
Samoan	0	0.0
Other Pacific Islander [2]	0	0.0
Some Other Race	4	0.2
Two or More Races	53	2.7
White; American Indian and Alaska Native [3]	27	1.4
White; Asian [3]	0	0.0
White; Black or African American [3]	0	0.0
White; Some Other Race [3]	0	0.0
Race alone or in combination with one or more other races: [4]		
White	114	5.8
Black or African American	12	0.6
American Indian and Alaska Native	1,859	95.1

	Number	Percent
Asian	4	0.2
Native Hawaiian and Other Pacific Islander	0	0.0
Some Other Race	20	1.0
HISPANIC OR LATINO		
Total population	1,954	100.0
Hispanic or Latino (of any race)	32	1.6
Mexican	19	1.0
Puerto Rican	0	0.0
Cuban	0	0.0
Other Hispanic or Latino [5]	13	0.7
Not Hispanic or Latino	1,922	98.4
HISPANIC OR LATINO AND RACE		
Total population	1,954	100.0
Hispanic or Latino	32	1.6
White alone	2	0.1
Black or African American alone	0	0.0
American Indian and Alaska Native alone	17	0.9
Asian alone	0	0.0
Native Hawaiian and Other Pacific Islander alone	0	0.0
Some Other Race alone	4	0.2
Two or More Races	9	0.5
Not Hispanic or Latino	1,922	98.4
White alone	83	4.2
Black or African American alone	4	0.2
American Indian and Alaska Native alone	1,789	91.6
Asian alone	2	0.1
Native Hawaiian and Other Pacific Islander alone	0	0.0
Some Other Race alone	0	0.0
Two or More Races	44	2.3
RELATIONSHIP		
Total population	1,954	100.0
In households	1,937	99.1
Householder	569	29.1
Spouse [6]	143	7.3
Child	683	35.0
Own child under 18 years	463	23.7
Other relatives	399	20.4
Under 18 years	270	13.8
65 years and over	11	0.6
Nonrelatives	143	7.3
Under 18 years	15	0.8
65 years and over	7	0.4
Unmarried partner	76	3.9
In group quarters	17	0.9
Institutionalized population	13	0.7
Male	4	0.2
Female	9	0.5
Noninstitutionalized population	4	0.2
Male	3	0.2
Female	1	0.1
HOUSEHOLDS BY TYPE		
Total households	569	100.0
Family households (families) [7]	423	74.3
With own children under 18 years	205	36.0
Husband-wife family	143	25.1
With own children under 18 years	75	13.2
Male householder, no wife present	74	13.0
With own children under 18 years	37	6.5
Female householder, no husband present	206	36.2
With own children under 18 years	93	16.3

	Number	Percent
Nonfamily households [7]	146	25.7
Householder living alone	118	20.7
Male	53	9.3
65 years and over	14	2.5
Female	65	11.4
65 years and over	24	4.2
Households with individuals under 18 years	310	54.5
Households with individuals 65 years and over	119	20.9
Average household size	3.40	(X)
Average family size [7]	3.90	(X)
HOUSING OCCUPANCY		
Total housing units	626	100.0
Occupied housing units	569	90.9
Vacant housing units	57	9.1
For rent	26	4.2
Rented, not occupied	4	0.6
For sale only	0	0.0
Sold, not occupied	2	0.3
For seasonal, recreational, or occasional use	10	1.6
All other vacants	15	2.4
Homeowner vacancy rate (percent) [8]	0.0	(X)
Rental vacancy rate (percent) [9]	6.5	(X)
HOUSING TENURE		
Occupied housing units	569	100.0
Owner-occupied housing units	196	34.4
Population in owner-occupied housing units	667	(X)
Average household size of owner-occupied units	3.40	(X)
Renter-occupied housing units	373	65.6
Population in renter-occupied housing units	1,270	(X)
Average household size of renter-occupied units	3.40	(X)

X Not applicable.

[1] Other Asian alone, or two or more Asian categories.

[2] Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.

[3] One of the four most commonly reported multiple-race combinations nationwide in Census 2000.

[4] In combination with one or more of the other races listed. The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.

[5] This category is composed of people whose origins are from the Dominican Republic, Spain, and Spanish-speaking Central or South American countries. It also includes general origin responses such as "Latino" or "Hispanic."

[6] "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."

[7] "Family households" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples. Same-sex couple households are included in the family households category if there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.

[8] The homeowner vacancy rate is the proportion of the homeowner inventory that is vacant "for sale." It is computed by dividing the total number of vacant units "for sale only" by the sum of owner-occupied units, vacant units that are "for sale only," and vacant units that have been sold but not yet occupied; and then multiplying by 100.

[9] The rental vacancy rate is the proportion of the rental inventory that is vacant "for rent." It is computed by dividing the total number of vacant units "for rent" by the sum of the renter-occupied units, vacant units that are "for rent," and vacant units that have been rented but not yet occupied; and then multiplying by 100.

Source: U.S. Census Bureau, 2010 Census.

FactFinder

DP-1

Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: Eagle Butte city, South Dakota

Subject	Number	Percent
SEX AND AGE		
Total population	1,318	100.0
Under 5 years	189	14.3
5 to 9 years	149	11.3
10 to 14 years	132	10.0
15 to 19 years	120	9.1
20 to 24 years	115	8.7
25 to 29 years	123	9.3
30 to 34 years	72	5.5
35 to 39 years	80	6.1
40 to 44 years	61	4.6
45 to 49 years	80	6.1
50 to 54 years	55	4.2
55 to 59 years	45	3.4
60 to 64 years	32	2.4
65 to 69 years	29	2.2
70 to 74 years	15	1.1
75 to 79 years	7	0.5
80 to 84 years	5	0.4
85 years and over	9	0.7
Median age (years)	22.8	(X)
16 years and over	825	62.6
18 years and over	774	58.7
21 years and over	706	53.6
62 years and over	80	6.1
65 years and over	65	4.9
Male population	624	47.3
Under 5 years	97	7.4
5 to 9 years	79	6.0
10 to 14 years	63	4.8
15 to 19 years	61	4.6
20 to 24 years	56	4.2
25 to 29 years	56	4.2
30 to 34 years	27	2.0
35 to 39 years	34	2.6
40 to 44 years	31	2.4
45 to 49 years	28	2.1
50 to 54 years	30	2.3
55 to 59 years	20	1.5
60 to 64 years	13	1.0
65 to 69 years	13	1.0
70 to 74 years	9	0.7
75 to 79 years	2	0.2
80 to 84 years	3	0.2
85 years and over	2	0.2

Subject	Number	Percent
Median age (years)	21.1	(X)
16 years and over	373	28.3
18 years and over	347	26.3
21 years and over	313	23.7
62 years and over	37	2.8
65 years and over	29	2.2
Female population	694	52.7
Under 5 years	92	7.0
5 to 9 years	70	5.3
10 to 14 years	69	5.2
15 to 19 years	59	4.5
20 to 24 years	59	4.5
25 to 29 years	67	5.1
30 to 34 years	45	3.4
35 to 39 years	46	3.5
40 to 44 years	30	2.3
45 to 49 years	52	3.9
50 to 54 years	25	1.9
55 to 59 years	25	1.9
60 to 64 years	19	1.4
65 to 69 years	16	1.2
70 to 74 years	6	0.5
75 to 79 years	5	0.4
80 to 84 years	2	0.2
85 years and over	7	0.5
Median age (years)	24.9	(X)
16 years and over	452	34.3
18 years and over	427	32.4
21 years and over	393	29.8
62 years and over	43	3.3
65 years and over	36	2.7
RACE		
Total population	1,318	100.0
One Race	1,274	96.7
White	90	6.8
Black or African American	4	0.3
American Indian and Alaska Native	1,176	89.2
Asian	2	0.2
Asian Indian	0	0.0
Chinese	0	0.0
Filipino	2	0.2
Japanese	0	0.0
Korean	0	0.0
Vietnamese	0	0.0
Other Asian [1]	0	0.0
Native Hawaiian and Other Pacific Islander	0	0.0
Native Hawaiian	0	0.0
Guamanian or Chamorro	0	0.0
Samoan	0	0.0
Other Pacific Islander [2]	0	0.0
Some Other Race	2	0.2
Two or More Races	44	3.3
White; American Indian and Alaska Native [3]	25	1.9
White; Asian [3]	1	0.1
White; Black or African American [3]	0	0.0
White; Some Other Race [3]	0	0.0
Race alone or in combination with one or more other races: [4]		
White	116	8.8
Black or African American	12	0.9
American Indian and Alaska Native	1,218	92.4

Subject	Number	Percent
Asian	10	0.8
Native Hawaiian and Other Pacific Islander	1	0.1
Some Other Race	5	0.4
HISPANIC OR LATINO		
Total population	1,318	100.0
Hispanic or Latino (of any race)	57	4.3
Mexican	38	2.9
Puerto Rican	1	0.1
Cuban	0	0.0
Other Hispanic or Latino [5]	18	1.4
Not Hispanic or Latino	1,261	95.7
HISPANIC OR LATINO AND RACE		
Total population	1,318	100.0
Hispanic or Latino	57	4.3
White alone	3	0.2
Black or African American alone	0	0.0
American Indian and Alaska Native alone	46	3.5
Asian alone	1	0.1
Native Hawaiian and Other Pacific Islander alone	0	0.0
Some Other Race alone	2	0.2
Two or More Races	5	0.4
Not Hispanic or Latino	1,261	95.7
White alone	87	6.6
Black or African American alone	4	0.3
American Indian and Alaska Native alone	1,130	85.7
Asian alone	1	0.1
Native Hawaiian and Other Pacific Islander alone	0	0.0
Some Other Race alone	0	0.0
Two or More Races	39	3.0
RELATIONSHIP		
Total population	1,318	100.0
In households	1,316	99.8
Householder	384	29.1
Spouse [6]	74	5.6
Child	508	38.5
Own child under 18 years	380	28.8
Other relatives	227	17.2
Under 18 years	149	11.3
65 years and over	2	0.2
Nonrelatives	123	9.3
Under 18 years	15	1.1
65 years and over	2	0.2
Unmarried partner	73	5.5
In group quarters	2	0.2
Institutionalized population	0	0.0
Male	0	0.0
Female	0	0.0
Noninstitutionalized population	2	0.2
Male	2	0.2
Female	0	0.0
HOUSEHOLDS BY TYPE		
Total households	384	100.0
Family households (families) [7]	279	72.7
With own children under 18 years	183	47.7
Husband-wife family	74	19.3
With own children under 18 years	45	11.7
Male householder, no wife present	34	8.9
With own children under 18 years	19	4.9
Female householder, no husband present	171	44.5
With own children under 18 years	119	31.0

Subject	Number	Percent
Nonfamily households [7]	105	27.3
Householder living alone	93	24.2
Male	45	11.7
65 years and over	16	4.2
Female	48	12.5
65 years and over	14	3.6
Households with individuals under 18 years	229	59.6
Households with individuals 65 years and over	54	14.1
Average household size	3.43	(X)
Average family size [7]	3.90	(X)
HOUSING OCCUPANCY		
Total housing units	414	100.0
Occupied housing units	384	92.8
Vacant housing units	30	7.2
For rent	13	3.1
Rented, not occupied	2	0.5
For sale only	1	0.2
Sold, not occupied	1	0.2
For seasonal, recreational, or occasional use	5	1.2
All other vacants	8	1.9
Homeowner vacancy rate (percent) [8]	0.6	(X)
Rental vacancy rate (percent) [9]	5.3	(X)
HOUSING TENURE		
Occupied housing units	384	100.0
Owner-occupied housing units	154	40.1
Population in owner-occupied housing units	522	(X)
Average household size of owner-occupied units	3.39	(X)
Renter-occupied housing units	230	59.9
Population in renter-occupied housing units	794	(X)
Average household size of renter-occupied units	3.45	(X)

X Not applicable.

[1] Other Asian alone, or two or more Asian categories.

[2] Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.

[3] One of the four most commonly reported multiple-race combinations nationwide in Census 2000.

[4] In combination with one or more of the other races listed. The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.

[5] This category is composed of people whose origins are from the Dominican Republic, Spain, and Spanish-speaking Central or South American countries. It also includes general origin responses such as "Latino" or "Hispanic."

[6] "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."

[7] "Family households" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples. Same-sex couple households are included in the family households category if there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.

[8] The homeowner vacancy rate is the proportion of the homeowner inventory that is vacant "for sale." It is computed by dividing the total number of vacant units "for sale only" by the sum of owner-occupied units, vacant units that are "for sale only," and vacant units that have been sold but not yet occupied; and then multiplying by 100.

[9] The rental vacancy rate is the proportion of the rental inventory that is vacant "for rent." It is computed by dividing the total number of vacant units "for rent" by the sum of the renter-occupied units, vacant units that are "for rent," and vacant units that have been rented but not yet occupied; and then multiplying by 100.

Source: U.S. Census Bureau, 2010 Census.

FIGURES

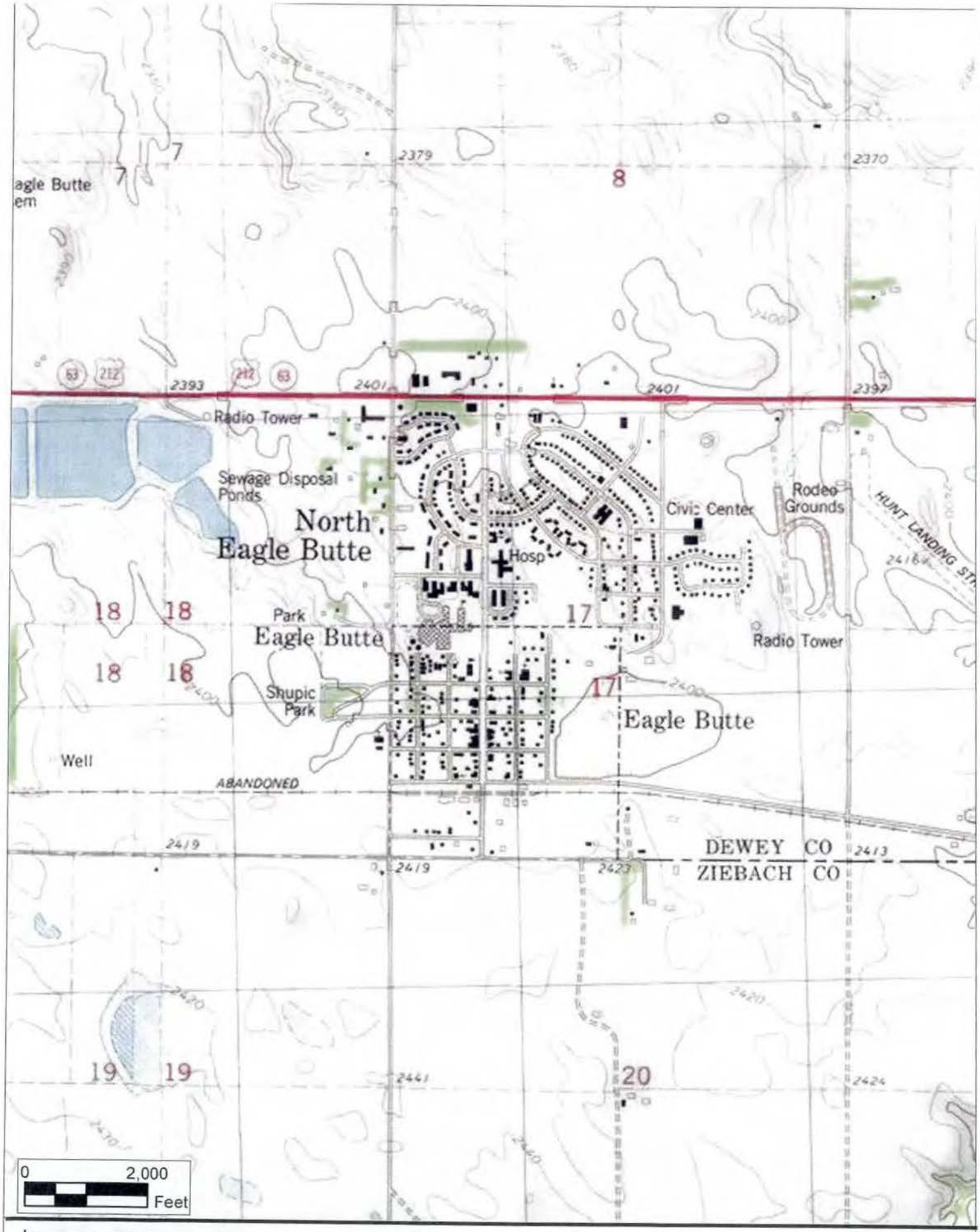
DeWild Grant Reckert and Associates Company
Consulting Engineers
Rock Rapids, Iowa

Date	MAR 2012
Drawn By	MNO
Approved	MNO
Revised	

CITY OF EAGLE BUTTE
SOUTH DAKOTA

FIG. 1

N



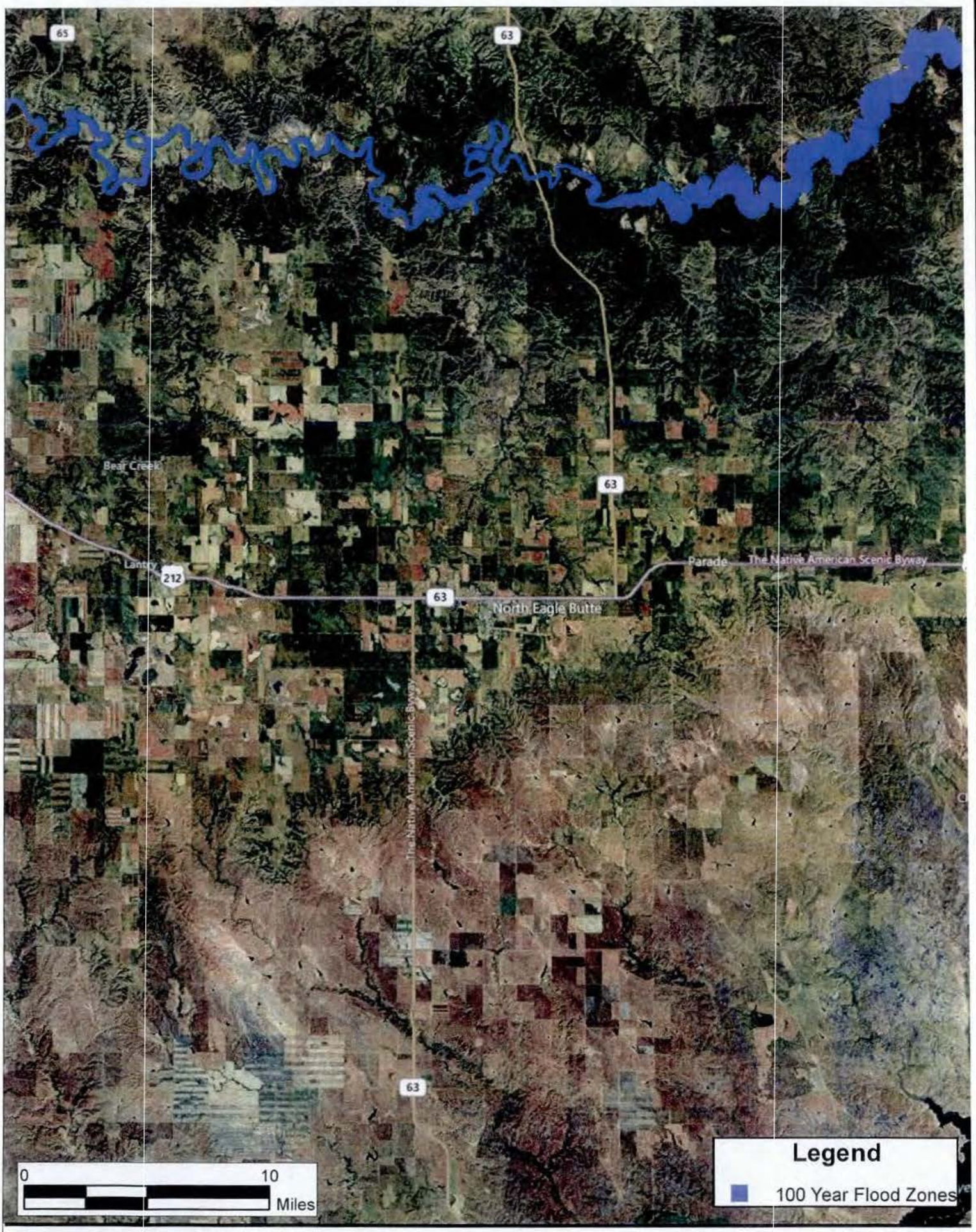
DeWild Grant Reckert and Associates Company
Consulting Engineers
Rock Rapids, Iowa

Date	MAR 2012
Drawn By	MNO
Approved	MNO
Revised	

CITY OF EAGLE BUTTE
SOUTH DAKOTA

FIG. 2

N



DeWild Grant Reckert and Associates Company
Consulting Engineers
Rock Rapids, Iowa

Date	MAR 2012
Drawn By	MNO
Approved	MNO
Revised	

CITY OF EAGLE BUTTE
SOUTH DAKOTA

FIG. 3

N

TABLES

SEWER RATE ANALYSIS

Existing Sewer Rate:	$19 per month
No. of Users:	800
Principal:	$1,735,000
Interest Rate:	3.25%
Repayment Period:	20 years

Hwy 212 & Sycamore =	$1,005,000
Lagoon Improvements =	$730,000
Total Project Costs =	**$1,735,000**

Grant/Loan Ratio	0%	25%	50%	75%	100%
Grant Amount	$0	$433,750	$867,500	$1,301,250	$1,735,000
Loan Amount	$1,735,000	$1,301,250	$867,500	$433,750	$0
Debt Service	$119,331	$89,499	$59,666	$29,833	$0

Minimum Rate Increase Required for Debt Service	$12.43	$9.32	$6.22	$3.11	$0.00
Additional Revenue with Minimum Rate Increase	$119,331	$89,499	$59,666	$29,833	$0
Surplus/Deficit (Revenue - Debt Service)	$0	$0	$0	$0	$0
Proposed Sewer Rate	**$31.43**	**$28.32**	**$25.22**	**$22.11**	**$19.00**
Percentage Increase Required	**65%**	**49%**	**33%**	**16%**	**0%**

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PRELIMINARY PROJECT COST ESTIMATE

SYCAMORE and HWY 212 UTILITY IMPROVEMENTS PROJECT - EAGLE BUTTE, SD

Prepared by DGR & Associates Company
April 24, 2012

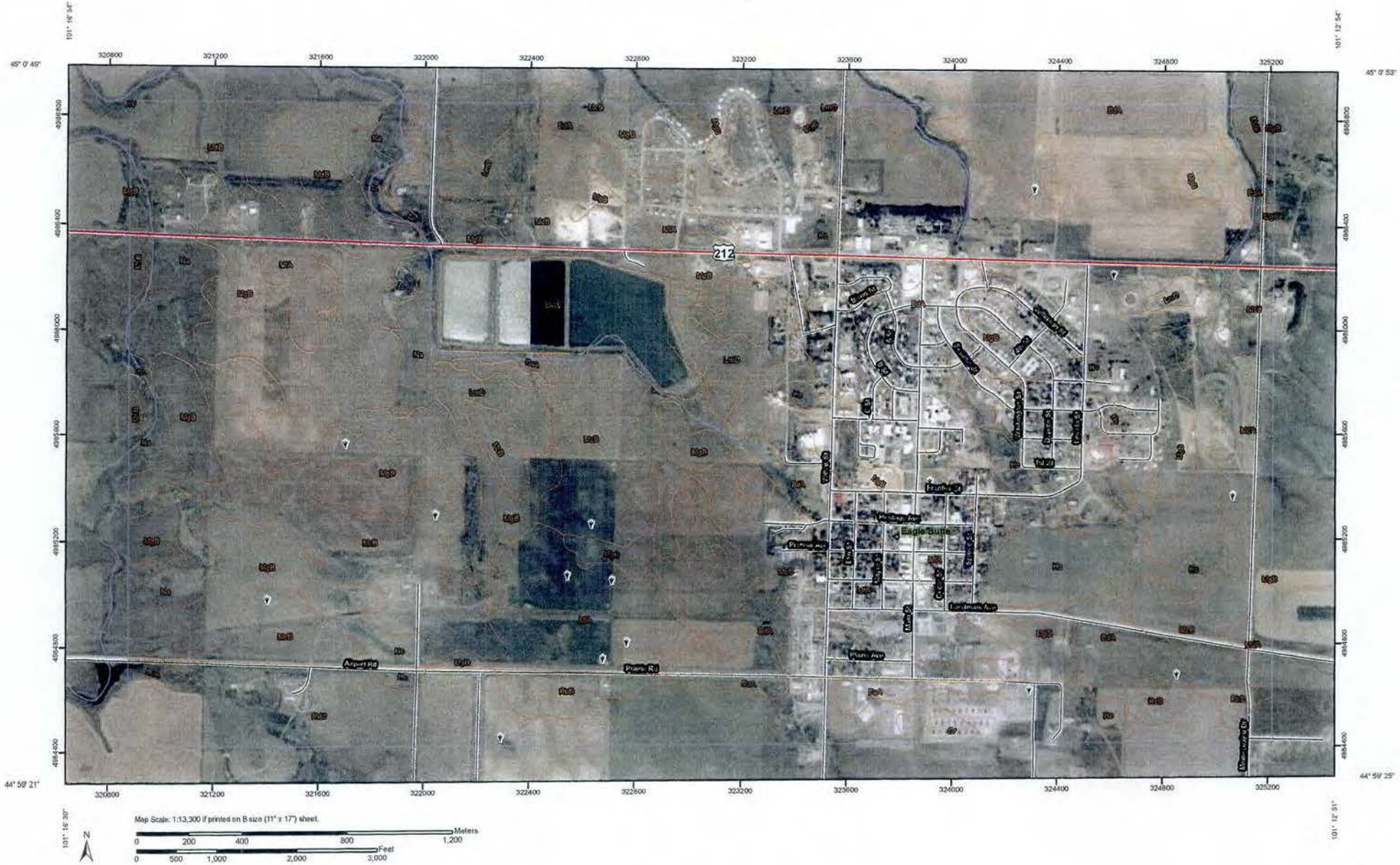
ITEM NO.	ITEM DESCRIPTION	UNIT PRICE		TOTAL PROJECT QTY	TOTAL PROJECT TOTAL	CLEAN WATER QTY	CLEAN WATER EARNED	DRINKING WATER QTY	DRINKING WATER EARNED
	GENERAL & STREET IMPROVEMENTS								
1	Mobilization	75,000.00	L.S.	1	75,000.00	0.5	37,500.00	0.5	37,500.00
2	Remove, Sawcut, & Dispose of Pavement	5.00	SQYD	900	4,500.00	450	2,250.00	450	2,250.00
3	Clearing	5,000.00	L.S.	1	5,000.00	0.5	2,500.00	0.5	2,500.00
4	Traffic Control	20,000.00	L.S.	1	20,000.00	0.5	10,000.00	0.5	10,000.00
5	Incidental Work (Grading)	5,000.00	L.S.	1	5,000.00	0.5	2,500.00	0.5	2,500.00
6	Incidental Work (Utilities)	5,000.00	L.S.	1	5,000.00	0.5	2,500.00	0.5	2,500.00
7	9" Scarify and Recompact	2.00	SQYD	4,200	8,400.00	2100	4,200.00	2100	4,200.00
8	6" Gravel Surfacing	15.00	TON	1,900	28,500.00	950	14,250.00	950	14,250.00
9	Trench Stabilization Material	30.00	TON	250	7,500.00	125	3,750.00	125	3,750.00
10	6" PCC Approach Pavement	80.00	SQYD	225	18,000.00	112.5	9,000.00	112.5	9,000.00
11	Curb and Gutter	20.00	L.FT	100	2,000.00	50	1,000.00	50	1,000.00
12	4" Concrete Sidewalk	5.50	SQFT	5,750	31,625.00	2875	15,812.50	2875	15,812.50
13	Detectable Warning Panel	40.00	SQFT	72	2,880.00	36	1,440.00	36	1,440.00
14	Salvage and Replace Topsoil	10.00	CUYD	2,450	24,500.00	1225	12,250.00	1225	12,250.00
15	Seeding/Fertilize/Mulch	3,500.00	ACRE	3	10,500.00	1.5	5,250.00	1.5	5,250.00
16	Erosion Control	10,000.00	L.S.	1	10,000.00	0.5	5,000.00	0.5	5,000.00
17	Verify & Locate Utility	500.00	EACH	10	5,000.00	5	2,500.00	5	2,500.00
18	Utility Easement Acquisition	15,000.00	L.S.	1	15,000.00	0.5	7,500.00	0.5	7,500.00
			Construction Subtotal		278,405.00		139,202.50		139,202.50
			Contingencies (10%)		27,595.00		13,797.50		13,797.50
	Estimated General & Street Improvements Construction Subtotal				***306,000.00***		***153,000.00***		***153,000.00***
			Engineering and Administration		61,000.00		30,500.00		30,500.00
			General & Street Improvements Total		**367,000.00**		**183,500.00**		**183,500.00**
	WATER MAIN IMPROVEMENTS								
19	6" PVC Water Main w/Bedding Material	25.00	L.FT	7,050	176,250.00			7,050	176,250.00
20	6" MJ Gate Valve/Box	1,000.00	EACH	7	7,000.00			7	7,000.00
21	6"x6" MJ Tee	500.00	EACH	18	9,000.00			18	9,000.00
22	6" MJ Bends	400.00	EACH	1	400.00			1	400.00
23	6" MJ Long Sleeve	350.00	EACH	1	350.00			1	350.00
24	6" MJ Cap	200.00	EACH	3	600.00			3	600.00
25	1" Water Service Corp Stop with Service Saddle	220.00	EACH	15	3,300.00			15	3,300.00
26	1" Curb Stop w/Box	185.00	EACH	15	2,775.00			15	2,775.00
27	1" Water Service	13.00	L.FT	600	7,800.00			600	7,800.00
28	12" Jack and Bore Casing Pipe	175.00	L.FT	465	81,375.00			465	81,375.00
29	Connect to Existing Water Main	1,000.00	EACH	1	1,000.00			1	1,000.00
30	Standard Fire Hydrant	3,000.00	EACH	15	45,000.00			15	45,000.00
31	Abandon Existing AC Water Main	2,500.00	L.S.	1	2,500.00			1	2,500.00
			Construction Subtotal		337,350.00				337,350.00
			Contingencies (10%)		33,650.00				33,650.00
	Estimated Water Main Improvements Construction Subtotal				***371,000.00***				***371,000.00***
			Engineering and Administration		74,000.00				74,000.00
			Water Main Improvements Total		**445,000.00**				**445,000.00**
	SANITARY SEWER IMPROVEMENTS								
32	6" PVC Sanitary Sewer Force Main w/Bedding Material	25.00	L.FT	2700	67,500.00	2700	67,500.00		
33	8" PVC Sanitary Sewer w/Bedding Material	45.00	L.FT	3700	166,500.00	3700	166,500.00		
34	4" Sanitary Sewer Service w/Bedding Material	25.00	L.FT	280	7,000.00	280	7,000.00		
35	6" Sanitary Sewer Service w/Bedding Material	25.00	L.FT	320	8,000.00	320	8,000.00		
36	8x4 Sewer Wye	300.00	EACH	7	2,100.00	7	2,100.00		
37	8x8 Sewer Wye	300.00	EACH	8	2,400.00	8	2,400.00		
38	48" Sanitary Manhole w/Frame and Lid	3,500.00	EACH	13	45,500.00	13	45,500.00		
39	Sanitary Sewer Bypass Pumping	3,000.00	L.S.	1	3,000.00	1	3,000.00		
40	12" Jack and Bore Casing Pipe	175.00	L.FT	565	98,875.00	565	98,875.00		
41	Connect to Existing Sanitary Sewer	1,000.00	EACH	1	1,000.00	1	1,000.00		
42	Backup Generator with Automatic Transfer Switch	50,000.00	L.S.	1	50,000.00	1	50,000.00		
43	Electric Control Panel with Autodialer	25,000.00	L.S.	1	25,000.00	1	25,000.00		
44	Security Fencing	24.00	L.FT	84	2,016.00	84	2,016.00		
45	Security Gate	1,000.00	L.S.	1	1,000.00	1	1,000.00		
46	Sanitary Sewer Lift Station	150,000.00	L.S.	1	150,000.00	1	150,000.00		
			Construction Subtotal		629,891.00		629,891.00		
			Contingencies (10%)		63,109.00		63,109.00		
	Estimated Sanitary Sewer Improvements Construction Subtotal				***693,000.00***		***693,000.00***		
			Engineering and Administration		138,000.00		138,000.00		
			Sanitary Sewer Improvements Total		**831,000.00**		**831,000.00**		
	Estimated Construction Total:				**$1,370,000.00**		**$846,000.00**		**$524,000.00**
	Estimated Engineering and Administration Total:				**$273,000.00**		**$168,500.00**		**$104,500.00**
	Estimated Subtotal project (Construction and Engineering):						**$1,014,500.00**		**$628,500.00**
	ESTIMATED TOTAL PROJECT:				**$1,643,000.00**				

PRELIMINARY PROJECT COST ESTIMATE
SANITARY SEWER LAGOON IMPROVEMENTS PROJECT - EAGLE BUTTE, SD
Prepared by DGR & Associates Company
April 24, 2012

ITEM NO	ITEM DESCRIPTION	UNIT PRICE		TOTAL PROJECT QTY	TOTAL PROJECT TOTAL	CLEAN WATER QTY	CLEAN WATER EARNED	DRINKING WATER QTY	DRINKING WATER EARNED
	SANITARY SEWER LAGOON IMPROVEMENTS								
1	Mobilization	$50,000.00	L.S.	1	50,000.00	1	50,000.00		
2	12" DIP transfer pipe	$75.00	L.FT	230	17,250.00	230	17,250.00		
3	12" Gate valve and box	$2,500.00	EACH	4	10,000.00	4	10,000.00		
4	12" DIP 90 deg. Bend	$750.00	EACH	2	1,500.00	2	1,500.00		
5	12" DIP 45 deg. Bend	$500.00	EACH	10	5,000.00	10	5,000.00		
6	Control structure	$5,000.00	EACH	2	10,000.00	2	10,000.00		
7	6" Concrete slab	$50.00	SQFT	650	32,500.00	650	32,500.00		
8	12" DIP inlet pipe	$75.00	L.FT	300	22,500.00	300	22,500.00		
9	Connect to existing inlet pipe	$10,000	L.S.	1	10,000.00	1	10,000.00		
10	Inlet discharge concrete pad	$5,000	L.S.	1	5,000.00	1	5,000.00		
11	1/2 HP Diffused aeration system	$3,000.00	EACH	3	9,000.00	3	9,000.00		
12	1/2" Weighted PVC air hose	$2.00	L.FT	2,500	5,000.00	2,500	5,000.00		
13	2 HP Floating aerators	$3,800.00	EACH	6	22,800.00	6	22,800.00		
14	Stainless steel anchor cable	$2.00	L.FT	650	1,300.00	650	1,300.00		
15	Aerator power cable	$15.00	L.FT	4,300	64,500.00	4,300	64,500.00		
16	Installation of diffusers and aerators	$5,000.00	EACH	9	45,000.00	9	45,000.00		
17	Electrical power	$15.00	L.FT	2,750	41,250.00	2,750	41,250.00		
18	Sludge removal and land application	$100,000.00	L.S.	1	100,000.00	1	100,000.00		
19	Control Building	$25,000.00	L.S.	1	25,000.00	1	25,000.00		
20	Electrical controls	$50,000.00	L.S.	1	50,000.00	1	50,000.00		
21	Transfer pumping	$25,000.00	L.S.	1	25,000.00	1	25,000.00		
			Construction Subtotal		552,600.00		552,600.00		
			Contingencies (10%)		55,400.00		55,400.00		
			Estimated Sanitary Sewer Lagoon Improvements Construction Subtotal		***608,000.00***		***608,000.00***		
			Engineering and Administration		122,000.00		122,000.00		
			Sanitary Sewer Lagoon Improvements Total		**730,000.00**		**730,000.00**		
			Estimated Construction Total:		**$608,000.00**		**$608,000.00**		
			Estimated Engineering and Administration Total:		**$122,000.00**		**$122,000.00**		
			Estimated Subtotal Project (Construction and Engineering):				**$730,000.00**		
			ESTIMATED TOTAL PROJECT:		**$730,000.00**				

APPENDIX A
SOILS INFORMATION

Soil Map—Dewey County, South Dakota, and Ziebach County, South Dakota



USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/29/2012
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Gully

Short Steep Slope

Other

Political Features

Cities

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

Map Scale: 1:13,300 if printed on B size (11" × 17") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 14N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dewey County, South Dakota
Survey Area Data: Version 12, Mar 22, 2011

Soil Survey Area: Ziebach County, South Dakota
Survey Area Data: Version 11, Mar 30, 2011

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Date(s) aerial images were photographed: 7/30/2004; 8/14/2004; 7/26/2004

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Dewey County, South Dakota (SD041)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
BdA	Belfield-Daglum silt loams, 0 to 2 percent slopes	254.3	9.7%
DaA	Daglum silt loam, 0 to 2 percent slopes	4.2	0.2%
Gb	Glenross fine sandy loam	1.8	0.1%
Hc	Heil soils	75.5	2.9%
LmD	Lantry-Morton silt loams, 6 to 15 percent slopes	60.9	2.3%
M-W	Miscellaneous water	82.0	3.1%
McB	Morton silt loam, 2 to 6 percent slopes	984.6	37.7%
MdA	Morton-Belfield complex, 0 to 2 percent slopes	44.1	1.7%
MdB	Morton-Belfield complex, 2 to 6 percent slopes	42.8	1.6%
MfA	Morton-Farland silt loams, 0 to 2 percent slopes	171.5	6.6%
MgB	Morton-Lantry silt loams, 2 to 9 percent slopes	449.7	17.2%
Na	Lohler, channeled-Rhoades complex	131.9	5.1%
W	Water	12.4	0.5%
Subtotals for Soil Survey Area		**2,315.7**	**88.7%**
Totals for Area of Interest		**2,609.5**	**100.0%**

Ziebach County, South Dakota (SD137)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
DaA	Daglum loam, 0 to 2 percent slopes	10.0	0.4%
FaA	Farland silt loam, 0 to 2 percent slopes	11.6	0.4%
Gr	Grail silt loam	6.7	0.3%
He	Heil silt loam	7.2	0.3%
RbB	Reeder loam, 2 to 6 percent slopes	26.9	1.0%
RcB	Reeder-Daglum loams, 1 to 6 percent slopes	10.3	0.4%
RdC	Reeder-Lantry complex, 2 to 9 percent slopes	221.1	8.5%
Subtotals for Soil Survey Area		**293.7**	**11.3%**
Totals for Area of Interest		**2,609.5**	**100.0%**

Dewey County, South Dakota

McB—Morton silt loam, 2 to 6 percent slopes

Map Unit Setting

Elevation: 1,660 to 3,610 feet
Mean annual precipitation: 14 to 18 inches
Mean annual air temperature: 41 to 46 degrees F
Frost-free period: 120 to 135 days

Map Unit Composition

Morton and similar soils: 75 percent
Minor components: 25 percent

Description of Morton

Setting

Landform: Plains
Landform position (two-dimensional): Backslope, summit
Down-slope shape: Linear
Across-slope shape: Linear, convex
Parent material: Silty residuum weathered from sedimentary rock

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent
Gypsum, maximum content: 2 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Low (about 5.7 inches)

Interpretive groups

Land capability (nonirrigated): 2e
Ecological site: Loamy (R054XY031ND)
Other vegetative classification: Droughty Loam (G054XY120ND)

Typical profile

0 to 5 inches: Silt loam
5 to 17 inches: Silt loam
17 to 37 inches: Loam
37 to 60 inches: Weathered bedrock

Minor Components

Belfield

Percent of map unit: 5 percent

Landform: Swales
Landform position (two-dimensional): Footslope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: Clayey (R054XY020ND)
Other vegetative classification: Clayey Subsoil (G054XY210ND)

Farland

Percent of map unit: 5 percent
Landform: Swales
Landform position (two-dimensional): Footslope
Down-slope shape: Concave, linear
Across-slope shape: Linear, concave
Ecological site: Loamy (R054XY031ND)
Other vegetative classification: Loam (G054XY100ND)

Heil

Percent of map unit: 5 percent
Landform: Closed depressions
Landform position (two-dimensional): Toeslope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Closed Depression (R054XY022ND)
Other vegetative classification: Not suited (G054XY000ND)

Lantry

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Summit, shoulder
Down-slope shape: Convex
Across-slope shape: Convex, linear
Ecological site: Thin Loamy (R054XY038ND)
Other vegetative classification: Limy Upland (G054XY400ND)

Reeder

Percent of map unit: 5 percent
Landform: Plains
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear, convex
Ecological site: Loamy (R054XY031ND)
Other vegetative classification: Droughty Loam (G054XY120ND)

Data Source Information

Soil Survey Area: Dewey County, South Dakota
Survey Area Data: Version 12, Mar 22, 2011

Soil Survey Area: Ziebach County, South Dakota
Survey Area Data: Version 11, Mar 30, 2011

Dewey County, South Dakota

BdA—Belfield-Daglum silt loams, 0 to 2 percent slopes

Map Unit Setting

Elevation: 1,660 to 3,610 feet
Mean annual precipitation: 14 to 18 inches
Mean annual air temperature: 41 to 46 degrees F
Frost-free period: 120 to 135 days

Map Unit Composition

Belfield and similar soils: 60 percent
Daglum and similar soils: 20 percent
Minor components: 20 percent

Description of Belfield

Setting

Landform: Swales
Landform position (two-dimensional): Footslope
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Residuum weathered from shale and siltstone

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Very slightly saline to moderately saline (4.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 20.0
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability (nonirrigated): 3s
Ecological site: Clayey (R054XY020ND)
Other vegetative classification: Clayey Subsoil (G054XY210ND)

Typical profile

0 to 11 inches: Silt loam
11 to 22 inches: Silty clay
22 to 60 inches: Clay loam

Description of Daglum

Setting

Landform: Swales

Landform position (two-dimensional): Footslope
Down-slope shape: Linear
Across-slope shape: Linear, concave
Parent material: Clayey residuum weathered from shale

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Slightly saline to moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 25.0
Available water capacity: Moderate (about 7.9 inches)

Interpretive groups

Land capability (nonirrigated): 4s
Ecological site: Claypan (R054XY021ND)
Other vegetative classification: Claypan (G054XY800ND)

Typical profile

0 to 7 inches: Silt loam
7 to 21 inches: Silty clay
21 to 60 inches: Silty clay

Minor Components

Farland

Percent of map unit: 7 percent
Landform: Swales
Landform position (two-dimensional): Footslope
Down-slope shape: Concave
Across-slope shape: Linear
Ecological site: Loamy (R054XY031ND)
Other vegetative classification: Loam (G054XY100ND)

Morton

Percent of map unit: 6 percent
Landform: Plains
Landform position (two-dimensional): Backslope
Down-slope shape: Linear
Across-slope shape: Linear, convex
Ecological site: Loamy (R054XY031ND)
Other vegetative classification: Droughty Loam (G054XY120ND)

Reeder

Percent of map unit: 6 percent
Landform: Plains
Landform position (two-dimensional): Backslope

Down-slope shape: Linear
Across-slope shape: Linear, convex
Ecological site: Loamy (R054XY031ND)
Other vegetative classification: Droughty Loam (G054XY120ND)

Heil

Percent of map unit: 1 percent
Landform: Closed depressions
Landform position (two-dimensional): Toeslope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Closed Depression (R054XY022ND)
Other vegetative classification: Not suited (G054XY000ND)

Data Source Information

Soil Survey Area: Dewey County, South Dakota
Survey Area Data: Version 12, Mar 22, 2011

Soil Survey Area: Ziebach County, South Dakota
Survey Area Data: Version 11, Mar 30, 2011

APPENDIX B
TREATMENT FACILITY INFORMATION AND NPDES PERMIT

TABLE 2-1
DESIGN DATA
WASTEWATER TREATMENT FACILITIES
EAGLE BUTTE, SOUTH DAKOTA

ORGANIC DESIGN OF TREATMENT FACILITY:

Organic Loading (See Table 1-1)	800 lb. BOD/day
Allowable Loading/Total Pond Acreage	20 lb. BOD/day/Ac.
Allowable Loading/Primary Pond Acreage	30 lb. BOD/day/Ac.
Total Pond Acreage Required	40.0 Ac.
Primary Pond Acreage Required	26.7 Ac.

HYDRAULIC DESIGN OF TREATMENT FACILITY:

Hydraulic Loading (See Table 1-1)	315,500 gpd
Total ....or	353.4 Ac. ft.

Cell #1 (Primary):

Surface Area	32.9 Ac.
Total Depth	5 ft.
Design Seepage Loss (1/16 in./day)	62.5 Ac. ft.
Rain – Evaporation (Net Loss)	57.6 Ac. ft.
Capacity (Based on 2' minimum depth)	98.1 Ac. ft.

Cell #2

Surface Area	19.5 Ac.
Total Depth (Split Level)	6 ft. to 7 ft.
Design Seepage Loss (1/16 in./day)	37.1 Ac. ft.
Rain – Evaporation (Net Loss)	34.1 Ac. ft.
Capacity (Total)	117.0 Ac. ft.

Cell #3

Surface Area	15.0 Ac.
Total Depth (Sloped Floor)	13 ft. to 15 ft.
Design Seepage Loss (1/16 in./day)	28.5 Ac. ft.
Rain – Evaporation (Net Loss)	26.2 Ac. ft.
Capacity (Total)	193.6 Ac. ft.

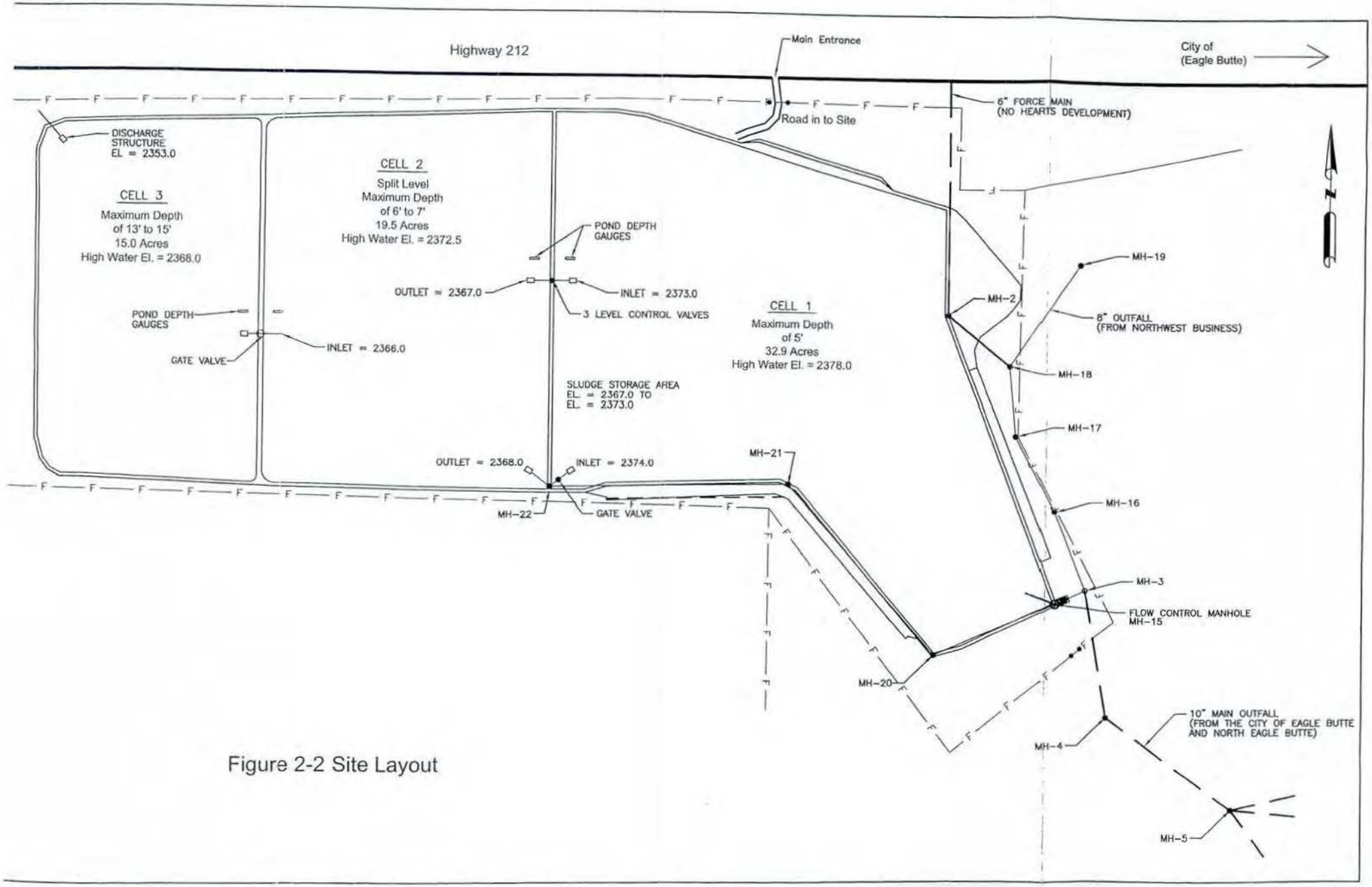
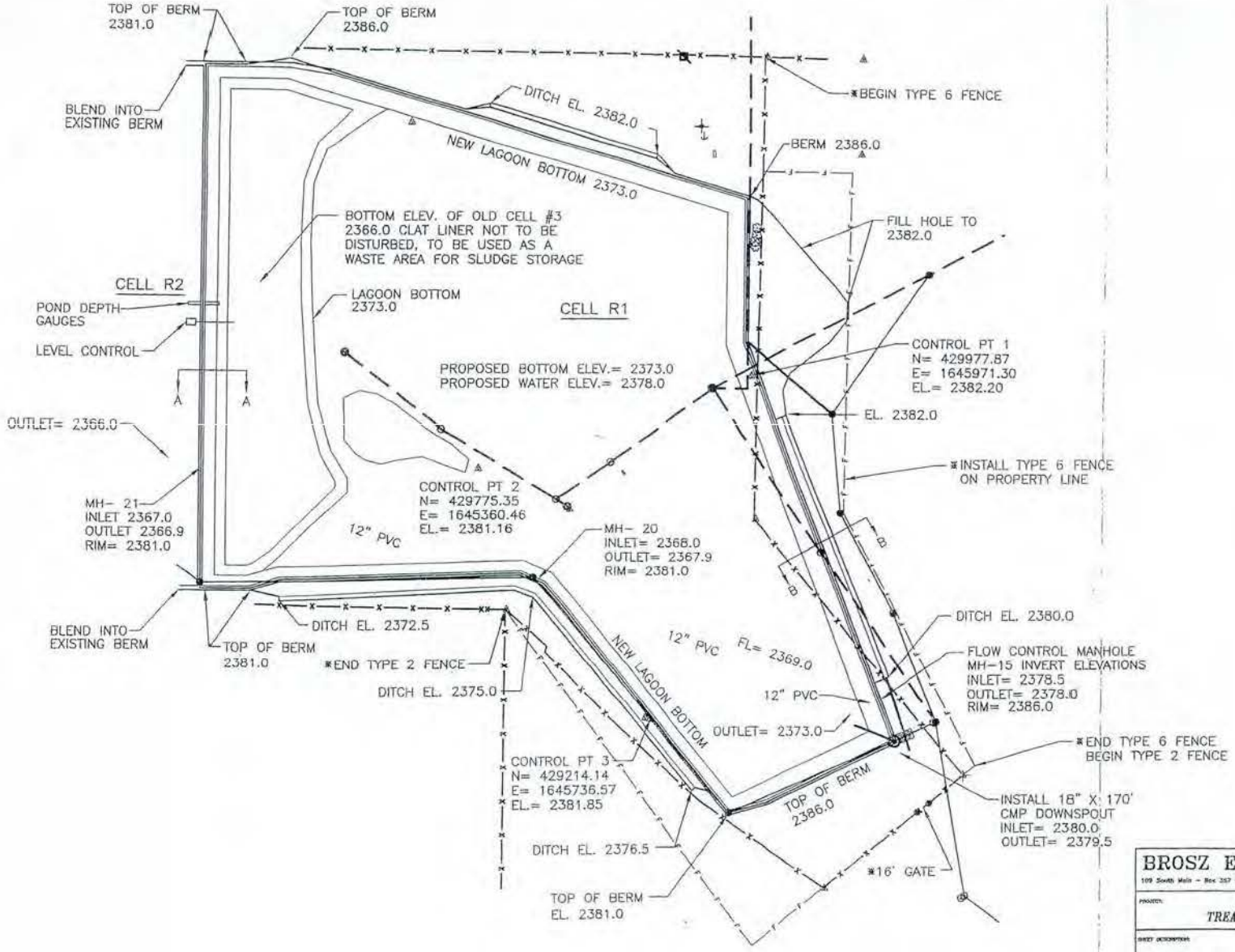


Figure 2-2 Site Layout



PROJECT LAYOUT

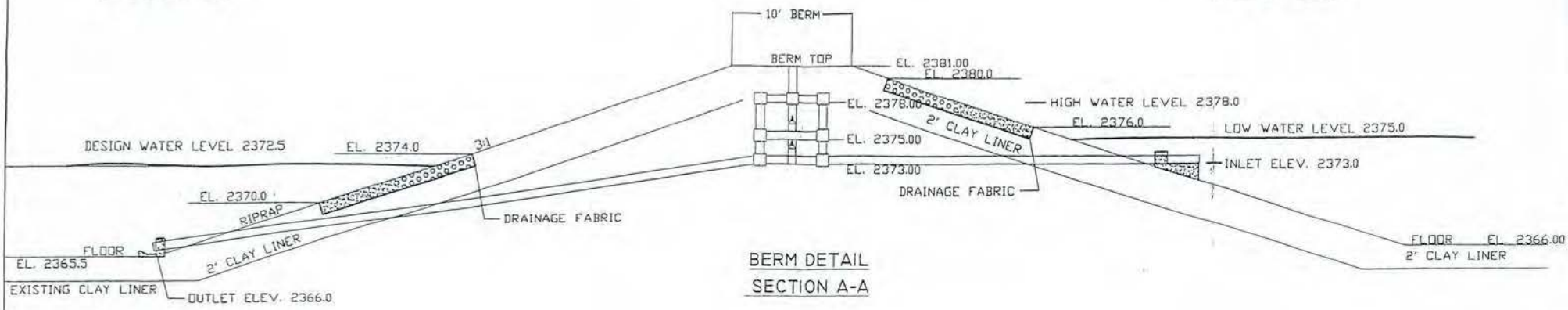
BROSZ ENGINEERING, INC.

109 South Main – Box 257 – Bowman, North Dakota 58623 – Phone (701)523-3349 – FAX (701)523

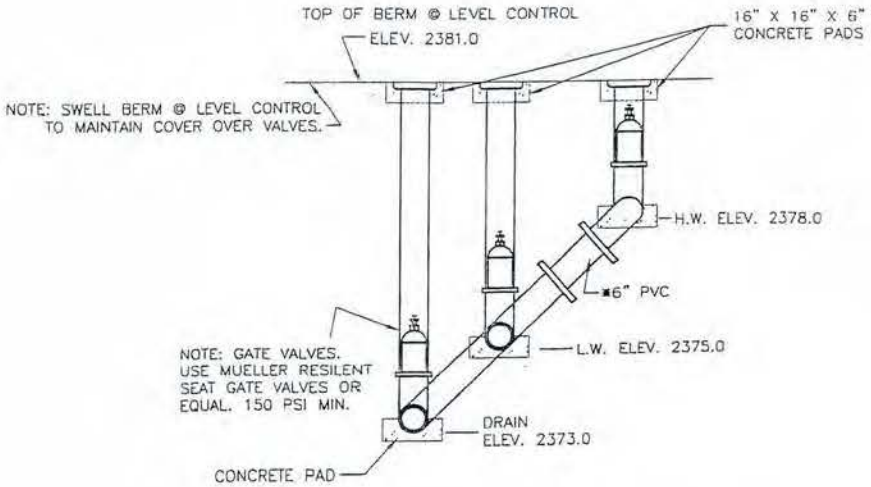
PROJECT: *EAGLE BUTTE WASTEWATER TREATMENT FACILITY IMPROVEMENTS*

SHEET DESCRIPTION: *PROJECT LAYOUT*

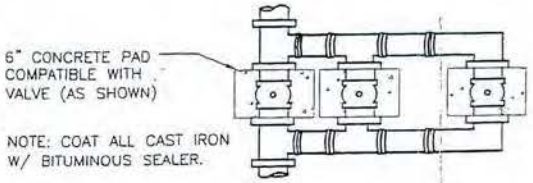
DRAWN BY:	CHECKED BY:	REVISIONS:	SCALE:	DATE:	SHEET
JWH	GBB	*6/12/01		5/01	W3



BERM DETAIL
SECTION A-A



ELEVATION VIEW



PLAN VIEW

BROSZ ENGINEERING, INC.
109 South Main – Box 357 – Bowman, North Dakota 58623 – Phone (701)523-3240 – FAX (701)523-5243

PROJECT:	EAGLE BUTTE WASTEWATER TREATMENT FACILITY IMPROVEMENTS				
SHEET DESCRIPTION:	LEVEL CONTROL DETAILS				
DRAWN BY:	CHECKED BY:	REVISIONS:	SCALE:	DATE:	SHEET:
MLH	GBB	6/12/01		5/01	W11

Permit No.: SD-0020192

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 WYNKOOP STREET
DENVER, COLORADO 80202-1129

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended (33 U.S.C. § 1251 et seq; "the Act"),

the City of Eagle Butte, South Dakota,

is authorized to discharge from its wastewater treatment facility located 3/8 mile west of the City of Eagle Butte in Section18, Township 12N, Range 24E, latitude 45° 00' 20" N and longitude 101° 14' 50" W, on the Cheyenne River Sioux Reservation in Dewey County, South Dakota,

to **Green Grass Creek,**

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein. Authorization for discharge is limited to those outfalls specifically listed in the permit.

This permit shall become effective to be determined upon issuance

This permit and the authorization to discharge shall expire at midnight, to be determined upon issuance

Signed this day of

Stephen S. Tuber, Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

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1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1.1. Definitions.

The *30-day (and monthly) average*, other than for microbiological organisms (e.g., bacteria, viruses, etc.), is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for microbiological organisms unless specified otherwise in the permit. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.

The *7-day (and weekly) average*, other than for microbiological organisms (e.g., bacteria, viruses, etc.), is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. Geometric means shall be calculated for microbiological organisms unless specified otherwise in the permit. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week, which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains the Saturday.

Daily Maximum (Daily Max.) is the maximum measured value for a pollutant discharged during a calendar day or any 24-hour period that reasonably represents a calendar day for purposes of sampling. For pollutants with daily maximum limitations expressed in units of mass (e.g., kilograms, pounds), the daily maximum is calculated as the total mass of pollutant discharged over the calendar day or representative 24-hour period. For pollutants with limitations expressed in other units of measurement (e.g., milligrams/liter, parts per billion), the daily maximum is calculated as the average of all measurements of the pollutant over the calendar day or representative 24-hour period. If only one measurement or sample is taken during a calendar day or representative 24-hour period, the single measured value for a pollutant will be considered the daily maximum measurement for that calendar day or representative 24-hour period.

Daily Minimum (Daily Min.) is the minimum value allowable in any single sample or instantaneous measurement collected during the course of a day.

Grab sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.

Instantaneous measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.

Composite samples shall be flow proportioned. The composite sample shall, at a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours, nor more than twenty-four (24) hours. Acceptable methods for the preparation of composite samples are as follows:

a. Constant time interval between samples, sample volume proportional to flow rate at the time of sampling;

b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time of the first sample was collected may be used;

c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,

d. Continuous collection of sample with sample collection rate proportional to flow rate.

Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

Director means the Regional Administrator of the EPA Region 8 or an authorized representative.

EPA means the United States Environmental Protection Agency.

Storm Water means storm water runoff, snow melt runoff, and surface runoff and drainage.

CWA means the Clean Water Act (formerly referred to as either the Federal Water Pollution Act or the Federal Water Pollution Control Act Amendments of 1972), Pub. L. 92-500, as amended by Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483, Pub. L. 97-117, and Pub. L. 100-4. In this permit the CWA may be referred to as "the Act".

Sewage Sludge is any solid, semi-solid or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary or advanced wastewater treatment processes; and a material derived from sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works.

Whole Effluent Toxicity, Acute occurs when 50 percent or more mortality is observed for either species (see Part 1.3.) at any effluent concentration. Mortality in the control must simultaneously be 10 percent or less for the effluent results to be considered valid.

E. coli means *Escherichia coli*

1.2. Description of Discharge Point(s). The authorization to discharge provided under this permit is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under an NPDES permit is a violation of the Clean Water Act and could subject the person(s) responsible for such discharge to penalties under Section 309 of the Act.

Outfall Serial Number(s)	Description of Discharge Point(s)
001	Outfall pipe located at the northwest corner of the third cell of the wastewater lagoon system (latitude 45° 00' 27"N, longitude 101° 15' 30"W)

1.3. Specific Limitations and Self-Monitoring Requirements

1.3.1. Effluent Limitations - Outfall 001. Effective immediately and lasting through the life of this permit, no discharge shall occur until permission has been granted by the permit issuing authority. Permission to discharge does not release the facility from liability should effluent violations occur. The quality of effluent discharged by the facility shall, at a minimum, meet the limitations as set forth below:

Effluent Characteristic	Effluent Limitation		
	30-Day Average a/	7-Day Average a/	Daily Maximum a/
BOD5, mg/L	30	45	N/A
Total Suspended Solids, mg/L	110	165	N/A
Escherichia coli, a onetime grab sample shall not exceed 235 colonies/100 mL. The 5-day geometric mean shall not exceed 126 colonies/100 mL. b/			
The pH of the effluent shall not be less than 6.5 or greater than 9.0 in any single sample or analysis.			
The concentration of oil and grease in any single sample shall not exceed 10 mg/L.			

a/ See Definitions, Part 1.1., for definition of terms.

b/ The limits for *Escherichia coli* of 126 colonies/100mL based on the geometric mean, require a minimum of 5 samples be obtained during separate 24-hour periods for any 30-day period. In addition, any single sample result may not exceed 235 colonies/100 mL, nor shall more than 20 percent of the samples examined in this same 30-day period exceed 126 colonies/100 mL. The limits for *Escherichia coli* apply between May 1 and September 30 only.

1.3.2. Effluent Self-Monitoring Requirements – Outfall 001

1.3.2.1. **Applicable when the permittee is requesting permission to discharge.**

Prior to the start of any discharge from the treatment system, the permittee shall collect a grab sample between the hours of 11:00 a.m. and 4:00 p.m. from each treatment unit from which it is desired to discharge the water and have the sample analyzed for the following constituents:

BOD5, mg/L
Total Suspended Solids, mg/L
Escherichia coli, No./100 mL (Monitoring applicable only if discharging between May 1 and September 30)
pH, s.u.
Oil and grease, mg/L

The results of the analyses, along with a statement whether any sheen is visible on the water to be discharged and a written request to discharge, shall be provided to the permit issuing authority at the following addresses unless notified otherwise:

Original to: U.S. EPA, Region 8
NPDES Enforcement Unit (8ENF-W-NP)
Attention: NPDES Unit Chief
1595 Wynkoop Street
Denver, CO 80202-1129

Copy to: Cheyenne River Sioux Tribe Department of Environment and Natural Resources
Attention: 106 Water Quality Program
P.O. Box 590
Eagle Butte, SD 57625

The written request to discharge shall explain why a discharge is needed, when the discharge would start, the expected duration of the discharge, the outfall(s) from which the discharge will occur, the lagoon cell(s) that will be drawn down, and the approximate volume of water to be discharged. The estimated flow condition of the receiving water shall also be reported (i.e., dry, low, normal, high). No discharge shall occur until permission has been granted by the EPA. Permission to discharge does not release the facility from liability should effluent violations occur.

1.3.2.2. **Applicable when a discharge is occurring**.

At least seventy-two (72) hours notification in advance of any proposed discharge shall be provided to the Cheyenne River Sioux Tribe Department of Environment and Natural Resources.

During periods of discharge, the permittee shall, at a minimum, monitor the discharge for the constituents listed below at the frequencies and with the types of samples indicated. The sample and measurements shall be representative of the volume and nature of the monitored discharge. If no discharge occurs during the entire monitoring period, it shall be stated on the Discharge Monitoring Report Form (EPA No. 3320-1) that no discharge or overflow occurred. Additional monitoring requirements necessary to ensure that the discharge will not violate water quality standards and/or where additional effluent limitations have been imposed, will be specified in the written notice of authorization of coverage or subsequent letter from the permit issuing authority.

Effluent Characteristic	Frequency	Sample/Monitoring Type a/
Flow, MGD c/	b/	Instantaneous
BOD5, mg/L	b/	Grab
Total Suspended Solids, mg/L	b/	Grab
Escherichia coli, no./100 ml. e/	d/	Grab
pH, standard units f/	b/	Grab
Oil and Grease Sheen, Visual	b/	Observation g/
Oil and Grease, mg/L	g/	Grab
Floating Solids and Foam	h/	Observation
Ammonia, as N, mg/L	b/	Grab
Temperature, °C	b/	Instantaneous

a/ See Definitions, Part 1.1., for definition of terms.

b/ A minimum of three (3) samples or measurements shall be taken during any discharge of wastewater. It is required that a sample be taken at the beginning, middle, and end of the discharge if the discharge is less than one week in duration. If a single, continuous discharge is greater than one week in duration, three (3) samples shall be taken during the first week and one (1) during each following week. All of the samples collected during the 7 day or 30 day period are to be used in determining the averages. The permittee always has the option of collecting additional samples if appropriate.

c/ Flow measurements of effluent volume shall be made in such a manner that the permittee can affirmatively demonstrate that representative values are being obtained. The average flow rate (in million gallons per day) during the reporting period and the daily maximum flow (maximum volume discharged during a 24-hour period) shall be reported. **The date and time of the start and termination of each discharge shall be recorded in the daily log notebook and reported in the Discharge Monitoring Report Form (EPA No. 3320 1).**

d/ For each discharge, one (1) *Escherichia coli* sample shall be collected at the discharge point prior to discharge as part of the "permission to discharge" process, and each day for the first five (5) days of discharge and then weekly thereafter until the discharge is terminated. Should the discharge be less than 4 days in duration, a minimum of 5 samples (including "permission" stage sample) shall be taken in order to correctly calculate the geometric mean value. Weekly samples shall be collected simultaneously with the weekly for BOD_5, etc. This monitoring is applicable only if the discharge occurs between May 1 and September 30.

e/ Acceptable analytical methods for *Escherichia coli* testing are referenced in 40 CFR Part 136.

f/ Measurement must be taken within fifteen (15) minutes of sampling.

g/ If a visible sheen or floating oil is detected in the discharge, a grab sample shall be taken immediately, analyzed and recorded in accordance with the requirements of 40 CFR Part 136. The concentration of oil and grease shall not exceed 10 mg/L in any sample.

h/ A weekly visual observation for floating solids and foam is required, recorded in the daily log notebook and reported.

1.3.3. Receiving Stream Self-Monitoring Requirements

Monitored data (pH, temperature and flow characteristics) collection frequency for the receiving stream shall be monthly (minimum) for the effective period of this permit. The permittee can provide additional data if the opportunity arises. The monitoring location shall be identified and located far enough downstream of the discharge point to allow for complete stream mixing of the effluent and receiving stream waters or when no discharge is occurring. Stream monitoring shall be conducted when practical and accessible.

All receiving stream monthly monitored data collected, including detailed location (latitude, longitude), dates and times of the sample collections, shall be reported on the monthly Discharge Monitoring Report Form (EPA No. 3320 1).

1.3.4. Inspection Requirements

1.3.4.1. On at least a weekly basis, unless otherwise approved by the permit issuing authority, the permittee shall inspect its wastewater treatment facility and record in a bound notebook, at a minimum, for the following:

1.3.4.1.1. Determine if a discharge is occurring, has occurred since the previous inspection, and/or if a discharge is likely to occur before the next inspection. (Note: If a discharge has occurred or is likely to occur before the next inspection, perform the appropriate monitoring and reporting requirements in Parts 1.3.2 and 2.4 of this permit if not already done.);

1.3.4.1.2. Check to see if there is any leakage through the dikes;

1.3.4.1.3. Check to see if there are any animal burrows in the dike;

1.3.4.1.4. Check to see if there has been any excessive erosion of the dikes;

1.3.4.1.5. Check to see if there are any rooted plants, including weeds growing in the water; and

1.3.4.1.6. Check to see if vegetation growth on the dikes needs mowing.

1.3.4.1.7. Determine if proper operation and maintenance procedures are being undertaken at the wastewater treatment facility.

1.3.4.2. The permittee shall maintain a **bound notebook** recording information obtained during each inspection. At a minimum, the notebook shall include the following:

1.3.4.2.1. Date and time of the inspection;

1.3.4.2.2. Name of the inspector(s);

1.3.4.2.3. The facility's discharge status;

1.3.3.2.4. The flow rate of the discharge if occurring;

1.3.4.2.5. Identification of operational problems and/or maintenance problems;

1.3.4.2.6. Recommendations, as appropriate, to remedy identified problems;

1.3.4.2.7. A brief description of any actions taken with regard to problems identified; and,

1.3.4.2.8. Other information, as appropriate.

The permittee shall maintain the notebook in accordance with proper record-keeping procedures keep the notebook on-site and shall make the log available for inspection, upon request, by authorized representatives of the U.S. Environmental Protection Agency or the Cheyenne River Sioux Tribe Department of Environment and Natural Resources.

1.3.4.3. Problems identified during the inspection shall be addressed through proper operation and maintenance. (See Part 3.5 of this permit.)

2. MONITORING, RECORDING AND REPORTING REQUIREMENTS

2.1. Representative Sampling. Samples taken in compliance with the monitoring requirements established under Part 1. shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Sludge samples shall be collected at a location representative of the quality of sludge immediately prior to use-disposal practice.

2.2. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Sludge monitoring procedures shall be those specified in 40 CFR 503, or as specified in the permit.

2.3. Penalties for Tampering. The Act provides that any person who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than two years, or by both. Second conviction is punishable by a fine of not more than $20,000 per day of violation, or by imprisonment of not more than four years, or both.

2.4. Reporting of Monitoring Results. **All effluent monitoring results obtained during the previous month shall be summarized and reported on one Discharge Monitoring Report Form (EPA No. 3320 1), postmarked no later than the 28th day of the month following the completed reporting period.** All blank spaces on the DMR **must** be completed when there is discharge data to report. If no

discharge occurs during the reporting period, "no discharge" shall be reported. Until further notice, sludge monitoring results may be reported in the testing laboratory's normal format (there is no EPA standard form at this time), but should be on letter size pages. Whole effluent toxicity (biomonitoring) results must be reported on the most recent version of the EPA Region 8's Guidance For Whole Effluent Reporting. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the Signatory Requirements (see Part 4.), and submitted to the EPA Region 8 Policy, Information Management & Environmental Justice Program and the Cheyenne River Sioux Tribe Department of Environment and Natural Resources at the addresses given below:

original to: U.S. EPA, Region 8
Policy, Information Management & Environmental Justice Program (8ENF-PJ)
Attention: Director
1595 Wynkoop Street
Denver, Colorado 80202-1129

copy to: Cheyenne River Sioux Tribe Department of Environment and Natural Resources
Attention: 106 Water Quality Program
P.O. Box 590
Eagle Butte, SD 57625

2.5. Additional Monitoring by the Permittee. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR 136, 40 CFR 503, or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated.

2.6. Records Contents. Records of monitoring information collected shall include:

2.6.1. The date, exact place, and time of sampling or measurements;

2.6.2. The initials or name(s) of the individual(s) who performed the sampling or measurements;

2.6.3. The date(s) analyses were performed;

2.6.4. The time(s) analyses were initiated;

2.6.5. The initials or name(s) of individual(s) who performed the analyses;

2.6.6. References and written procedures, when available, for the analytical techniques or methods used; and,

2.6.7. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

2.7. Retention of Records. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. Records of monitoring required by this permit related to sludge use and disposal activities must be kept at least five years (or longer as required by 40 CFR 503). This period may be extended by request of the Director at any time. Data collected on site, data used to prepare the DMR, copies of Discharge Monitoring Reports, and a copy of this NPDES permit must be maintained on site.

2.8. Twenty-four Hour Notice of Noncompliance Reporting.

2.8.1. The permittee shall report any noncompliance which **may endanger health or the environment** as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of the circumstances. The report shall be made to the EPA, Region 8, Site Assessment/Emergency Response Program at (303) 293-1788, and the Cheyenne River Sioux Tribe Department of Environment and Natural Resources at (605) 964-6558. In addition to the twenty-four (24) hours notification, the permittee shall also report by telephone to the EPA, Region 8, NPDES Enforcement Unit at (800) 227-8917 (8:00 a.m. - 4:30 p.m. Mountain Time) by the first workday following the day the permittee became aware of the circumstances.

2.8.1.1. The following shall be included as information which must be reported within 24 hours:

2.8.1.1.1. Any unanticipated bypass which exceeds any effluent limitation in the permit (See Part 3.7., Bypass of Treatment Facilities.);

2.8.1.1.2. Any upset which exceeds any effluent limitation in the permit (See Part 3.8., Upset Conditions.); or,

2.8.1.1.3. Violation of a maximum daily discharge limitation for any of the pollutants listed in Part 1.3. of the permit to be reported within 24 hours.

2.8.2. In addition to the notifications described in Part 2.8.1., a written submission shall also be provided to the USEPA, Office of Enforcement, Compliance and Environmental Justice, and to the Cheyenne River Sioux Tribe Department of Environment and Natural Resources within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:

2.8.2.1. A description of the noncompliance and its cause;

2.8.2.2. The period of noncompliance, including exact dates and times;

2.8.2.3. The estimated time noncompliance is expected to continue if it has not been corrected; and,

2.8.2.4. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

2.8.3. The Director may waive the written report on a case-by-case basis for an occurrence of noncompliance listed under Part 2.8.1.1. above, if the incident has been orally reported in accordance with the requirements of Part 2.8.1.

2.8.4. Reports shall be submitted to the addresses in Part 2.4., Reporting of Monitoring Results.

2.9. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for Part 2.4. are submitted. The reports shall contain the information listed in Part 2.8.3.

2.10. Inspection and Entry. The permittee shall allow the Regional Administrator, or authorized representative (including an authorized contractor acting as a representative of the Administrator), upon presentation of credentials and other documents as may be required by law, to:

2.10.1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2.10.2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

2.10.3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,

2.10.4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

3. COMPLIANCE RESPONSIBILITIES

3.1. Duty to Comply. The permittee must comply with all conditions of this permit. Any failure to comply with the permit may constitute a violation of the Clean Water Act and may be grounds for enforcement action, including, but not limited to permit termination, revocation and reissuance, modification, or denial of a permit renewal application. The permittee shall give the director advance notice of any planned changes at the permitted facility that will change any discharge from the facility, or of any activity that may result in failure to comply with permit conditions.

3.2. Penalties for Violations of Permit Conditions. The Clean Water Act provides for specified civil and criminal monetary penalties for violations of its provisions. However, the Federal Civil Penalties Inflation Adjustment Act of 1990, as amended by the Debt Collection Improvement Act of 1996, requires the EPA to adjust the civil monetary penalties for inflation on a periodic basis. The EPA previously adjusted its civil monetary penalties on December 31, 1996 (61 Fed. Reg. 69359-69365), with technical corrections and additions published on March 20, 1997 (62 Fed. Reg. 13514-13517), June 27, 1997 (62 Fed. Reg. 35037-35041) and February 13, 2004 (69 Fed. Reg. 7121-7127). On December 11, 2008 (73 Fed. Reg. 75340-75346) the EPA once again adjusted its civil monetary penalties. The civil and criminal penalties, as of January 12, 2009, for violations of the Act (including permit conditions) are given below:

3.2.1. Any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $37,500 per day for each violation.

3.2.2. Any person who *negligently* violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment for not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment for not more than 2 years, or both.

3.2.3. Any person who *knowingly* violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment for not more than 6 years, or both.

3.2.4. Any person who *knowingly* violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment for not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment for not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

3.2.5. Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing

any of such sections in a permit issued under section 402 of this Act. Where an administrative enforcement action is brought for a Class I civil penalty, the assessed penalty may not exceed $16,000 per violation, with a maximum amount not to exceed $37,500. Where an administrative enforcement action is brought for a Class II civil penalty, the assessed penalty may not exceed $16,000 per day for each day during which the violation continues, with the maximum amount not to exceed $177,500.

3.3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

3.4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

3.5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. However, the permittee shall operate, at a minimum, one complete set of each main line unit treatment process whether or not this process is needed to achieve permit effluent compliance.

3.5.1 The permittee shall, as soon as reasonable and practicable, but no later than six (6) months after the effective date of this permit, do the following as part of the operation and maintenance program for the wastewater treatment facility:

3.5.1.1. Have a current O & M Manual(s) that describes the proper operational procedures and maintenance requirements of the wastewater treatment facility;

3.5.1.2. Have the O & M Manual(s) readily available to the operator of the wastewater treatment facility and require that the operator become familiar with the manual(s) and any updates;

3.5.1.3. Have a schedule(s) for routine operation and maintenance activities at the wastewater treatment facility; and,

3.5.1.4. Require the operator to perform the routine operation and maintenance requirements in accordance with the schedule(s).

3.5.2. The permittee shall maintain a daily log in a bound notebook(s) containing a summary record of all operation and maintenance activities at the wastewater treatment facility. At a minimum, the notebook shall include the following information:

3.5.2.1. Date and time;

3.5.2.2 Name and title of person(s) making the log entry;

3.5.2.3. Name of the persons(s) performing the activity;

3.5.2.4. A brief description of the activity; and,

3.5.2.5. Other information, as appropriate.

The permittee shall maintain the notebook in accordance with proper record-keeping procedures and shall make the log available for inspection, upon request, by authorized representatives of the U.S.

Environmental Protection Agency or the Cheyenne River Sioux Tribe Department of Environment and Natural Resources.

3.6. Removed Substances. Collected screenings, grit, solids, sludge, or other pollutants removed in the course of treatment shall be buried or disposed in a manner consistent with all applicable federal (e.g., 40 CFR 257, 40 CFR 258, 40 CFR 503) and Cheyenne River Sioux tribal regulations and in a manner so as to prevent any pollutant from entering any waters of the United States or creating a health hazard. **In addition, the use and/or disposal of sewage sludge shall be done under the authorization of an NPDES permit issued for the use and/or disposal of sewage sludge by the appropriate NPDES permitting authority for sewage sludge.** Sludge/digester supernatant and filter backwash shall not be directly blended with or enter either the final plant discharge and/or waters of the United States.

3.7. Bypass of Treatment Facilities.

3.7.1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts 3.7.2. and 3.7.3.

3.7.2. Notice:

3.7.2.1. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior written notice, if possible at least 10 days before the date of the bypass to the USEPA, Technical Enforcement Program, and the Cheyenne River Sioux Tribe Department of Environment and Natural Resources.

3.7.2.2. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part 2.8., Twenty-four Hour Noncompliance Reporting, to the USEPA, Technical Enforcement Program, and the Cheyenne River Sioux Tribe Department of Environment and Natural Resources.

3.7.3. Prohibition of bypass.

3.7.3.1. Bypass is prohibited and the Director may take enforcement action against a permittee for a bypass, unless:

3.7.3.1.1. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

3.7.3.1.2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

3.7.3.1.3. The permittee submitted notices as required under Part 3.7.2.

3.7.3.2. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part 3.7.3.1.

3.8. Upset Conditions

3.8.1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part 3.8.2. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review (i.e., Permittees will have the opportunity for a judicial determination on any claim of upset only in an enforcement action brought for noncompliance with technology-based permit effluent limitations).

3.8.2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

3.8.2.1. An upset occurred and that the permittee can identify the cause(s) of the upset;

3.8.2.2. The permitted facility was at the time being properly operated;

3.8.2.3. The permittee submitted notice of the upset as required under Part 2.8., Twenty-four Hour Notice of Noncompliance Reporting; and,

3.8.2.4. The permittee complied with any remedial measures required under Part 3.4., Duty to Mitigate.

3.8.3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

3.9. Industrial Waste Management (Minor POTWs in Indian country)

3.9.1. The Permittee has the responsibility to protect the Publicly-Owned Treatment Works (POTW) from pollutants which would inhibit, interfere, or otherwise be incompatible with operation of the treatment works including interference with the use or disposal of municipal sludge.

3.9.2. Pretreatment Standards (40 CFR Section 403.5) developed pursuant to Section 307 of the Federal Clean Water Act (the Act) require that the Permittee shall not allow, under any circumstances, the introduction of the following pollutants to the POTW from any source of nondomestic discharge:

3.9.2.1. Any other pollutant which may cause Pass Through or Interference.

3.9.2.2. Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than sixty (60) degrees Centigrade (140 degrees Fahrenheit) using the test methods specified in 40 CFR Section 261.21;

3.9.2.3. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with a pH of lower than 5.0 s.u., unless the treatment facilities are specifically designed to accommodate such discharges;

3.9.2.4. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, or other interference with the operation of the POTW;

3.9.2.5. Any pollutant, including oxygen demanding pollutants (e.g., BOD), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with any treatment process at the POTW;

3.9.2.6. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds forty (40) degrees Centigrade (104 degrees Fahrenheit) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;

3.9.2.7. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

3.9.2.8. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

3.9.2.9. Any trucked or hauled pollutants, except at discharge points designated by the POTW; and

3.9.2.10. Any specific pollutant which exceeds a local limitation established by the Permittee in accordance with the requirements of 40 CFR Section 403.5(c) and (d).

3.9.3. For the POTWs covered by this permit, the EPA presently is the Approval Authority for the Pretreatment Program and the mailing address for all reporting and notifications to the Approval Authority shall be: USEPA - Region 8, NPDES Enforcement Unit (8ENF-W-NP), 1595 Wynkoop Street, Denver, CO 80202-1129.

3.9.4. In addition to the general limitations expressed above, more specific Pretreatment Standards have been and will be promulgated for specific industrial categories under Section 307 of the Act (40 CFR Part 405 et. seq.).

3.9.5. The Permittee must notify the Approval Authority of any new introductions by new or existing industrial users or any substantial change in pollutants from any industrial user within sixty (60) days following the introduction or change. Such notice must identify:

3.9.5.1. Any new introduction of pollutants into the POTW from an industrial user which would be subject to Sections 301, 306, or 307 of the Act if it were directly discharging those pollutants; or

3.9.5.2. Any substantial change in the volume or character of pollutants being introduced into the POTW by any industrial user;

3.9.5.3. For the purposes of this section, adequate notice shall include information on:

3.9.5.3.1. The identity of the industrial user;

3.9.5.3.2. The nature and concentration of pollutants in the discharge and the average and maximum flow of the discharge to be introduced into the POTW; and

3.9.5.3.3. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from or biosolids or sludge produced at such POTW.

3.9.5.4. For the purposes of this section, an industrial user shall include:

3.9.5.4.1. Any discharger subject to Categorical Pretreatment Standards under Section 307 of the Act and 40 CFR chapter I and subchapter N;

3.9.5.4.2. Any discharger who has a process wastewater flow of 25,000 gallons or more per day;

3.9.5.4.3. Any discharger contributing five percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant;

3.9.5.4.4. Any discharger who is designated by the Approval Authority as having a reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or requirements;

3.9.6. At such time as a specific Pretreatment Standard or requirement becomes applicable to an industrial user of the Permittee, the Approval Authority may, as appropriate:

3.9.6.1. Amend the Permittee's NPDES discharge permit to specify the additional pollutant(s) and corresponding effluent limitation(s) consistent with the applicable national Pretreatment Standards;

3.9.6.2. Require the Permittee to specify, by ordinance, order, or other enforceable means, the type of pollutant(s) and the maximum amount which may be discharged to the Permittee's POTW for treatment. Such requirement shall be imposed in a manner consistent with the program development requirements of the General Pretreatment Regulations at 40 CFR Part 403; and/or,

3.9.6.3. Require the Permittee to monitor its discharge for any pollutant which may likely be discharged from the Permittee's POTW, should the industrial user fail to properly pretreat its waste.

3.9.7. The Approval Authority retains, at all times, the right to take legal action against any source of nondomestic discharge, whether directly or indirectly controlled by the Permittee, for violations of a permit, order or similar enforceable mechanism issued by the Permittee, violations of any Pretreatment Standard or requirement, or for failure to discharge at an acceptable level under national standards issued by the EPA under 40 CFR, chapter I, subchapter N. In those cases where a NPDES permit violation has occurred because of the failure of the Permittee to properly develop and enforce Pretreatment Standards and requirements as necessary to protect the POTW, the Approval Authority shall hold the Permittee and/or industrial user responsible and may take legal action against the Permittee as well as the Industrial user(s) contributing to the permit violation.

4. GENERAL REQUIREMENTS

4.1. Planned Changes. The permittee shall give notice to the Director and tribe as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

4.1.1. The alteration or addition could significantly change the nature or increase the quantity of pollutant discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit; or,

4.1.2. There are any planned substantial changes to the existing sewage sludge facilities, the manner of its operation, or to current sewage sludge management practices of storage and disposal. The permittee shall give the Director notice of any planned changes at least 30 days prior to their implementation.

4.1.3. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source.

4.2. Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

4.3. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

4.4. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application should be submitted at least 180 days before the expiration date of this permit.

4.5. Duty to Provide Information. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

4.6. Other Information. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.

4.7. Signatory Requirements. All applications, reports or information submitted to the Director shall be signed and certified.

4.7.1. All permit applications shall be signed by either a principal executive officer or ranking elected official.

4.7.2. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

4.7.2.1. The authorization is made in writing by a person described above and submitted to the Director; and,

4.7.2.2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

4.7.3. Changes to authorization. If an authorization under Part 4.7.2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part 4.7.2. must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.

4.7.4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

4.8. Penalties for Falsification of Reports. The Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than six months per violation, or by both.

4.9. Availability of Reports. Except for data determined to be confidential under 40 CFR Part 2, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Director. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.

4.10. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

4.11. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, tribal or local laws or regulations.

4.12. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

4.13. Transfers. This permit may be automatically transferred to a new permittee if:

4.13.1. The current permittee notifies the Director at least 30 days in advance of the proposed transfer date;

4.13.2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,

4.13.3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part 4.13.2.

4.14. Permittees in Indian Country. The EPA has not approved the Cheyenne River Sioux Tribe or the State of South Dakota to implement the CWA NPDES program on the Cheyenne River Reservation. "Indian country" is defined at 18 U.S.C. § 1151. Therefore, the EPA directly implements the CWA NPDES program on the Cheyenne River Reservation.

4.15. Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations (and compliance schedule, if necessary), or other appropriate requirements if one or more of the following events occurs:

4.15.1. Water Quality Standards: The water quality standards of the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.

4.15.2. Wasteload Allocation: A wasteload allocation is developed and approved by the EPA for incorporation in this permit.

4.15.3. Water Quality Management Plan: A revision to the current water quality management plan is approved and adopted which calls for different effluent limitations than contained in this permit.

4.16. Toxicity Limitation-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include whole effluent toxicity limitations if whole effluent toxicity is detected in the discharge.

APPENDIX C
UTILITY RATES

City of Eagle Butte Utility Office

(605) 964-8784

Minimum Bill:

$30.00 Water + $19.00 Sewer = $49.00

Beginning January 1, 2012

(for December 2011 consumption)

The rate charge for the City of Eagle Butte Water Department shall be as follows:

Gals.	Total	Gals.	Total
4,000	$30.00	16,000	$106.20
5,000	$36.35	17,000	$112.55
6,000	$42.70	18,000	$118.90
7,000	$49.05	19,000	$125.25
8,000	$55.40	20,000	$131.60
9,000	$61.75	21,000	$137.95
10,000	$68.10	22,000	$144.30
11,000	$74.45	23,000	$150.65
12,000	$80.80	24,000	$157.00
13,000	$87.15	25,000	$163.35
14,000	$93.50	26,000	$169.70
15,000	$99.85	27,000	$176.05

RATES PER UNIT:

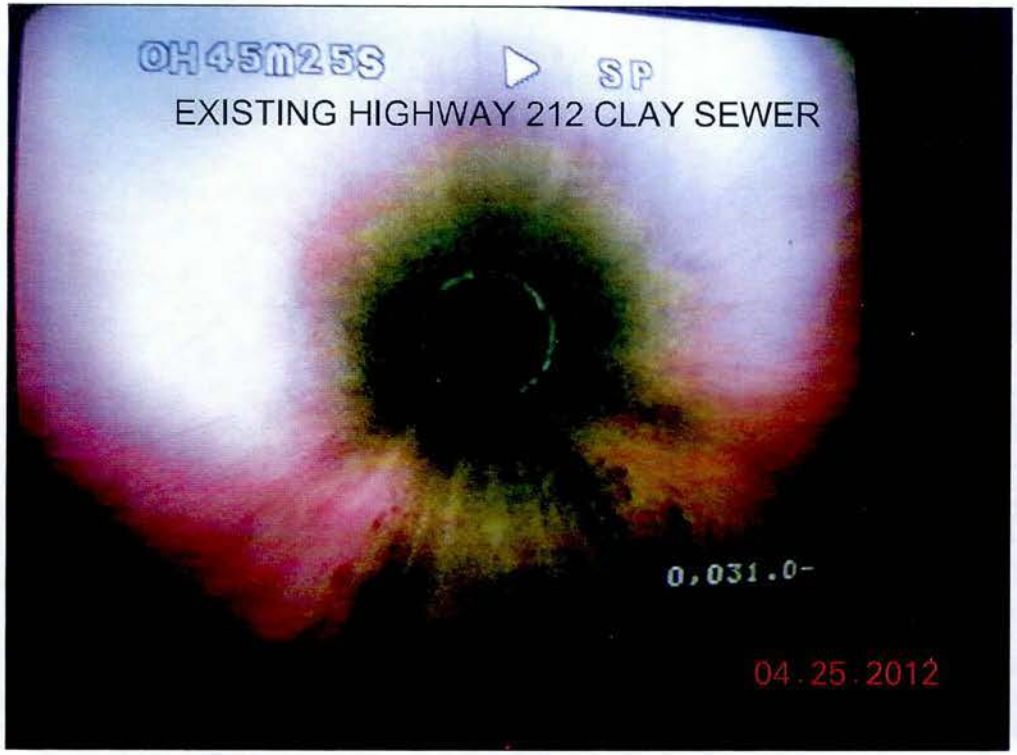
1,000 - 4,000 gallons (minimum) ...$30.00

over 4,000 gallons at $6.35 per thousand

The rate charge for the City of Eagle Butte Sewer Department shall be as follows ... $19.00 per unit

Note: Rates increased to $22 per 5000 gallons on June 1, 2012

APPENDIX D
SITE PHOTOS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OH45M30S
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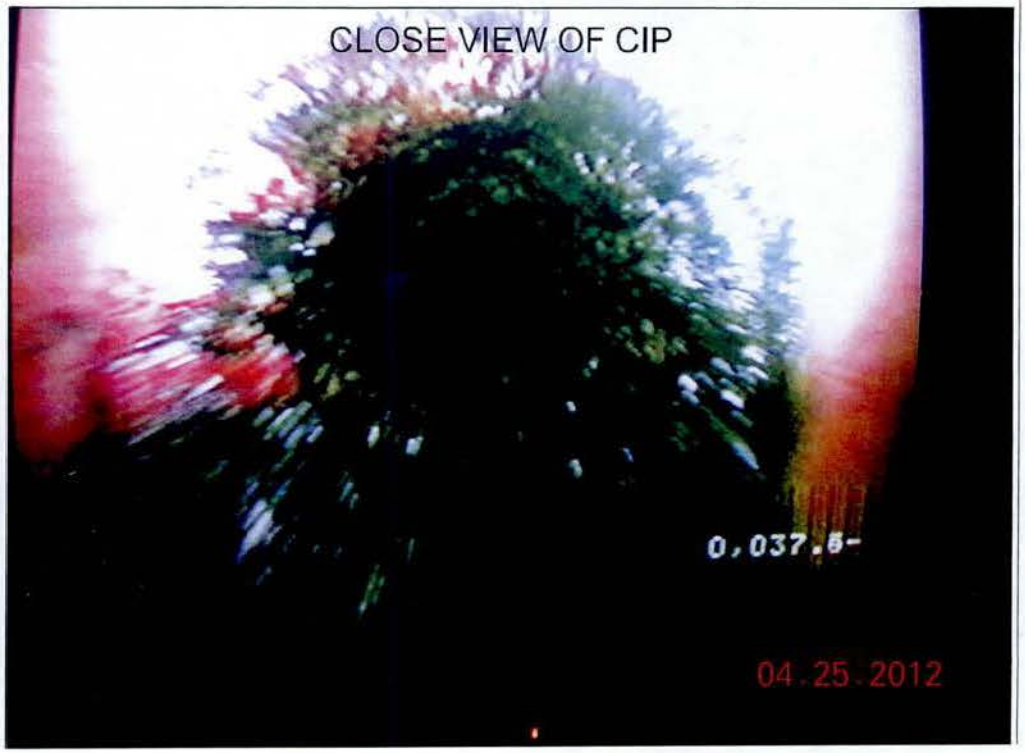
04.25.2012


CLOSE VIEW OF CIP
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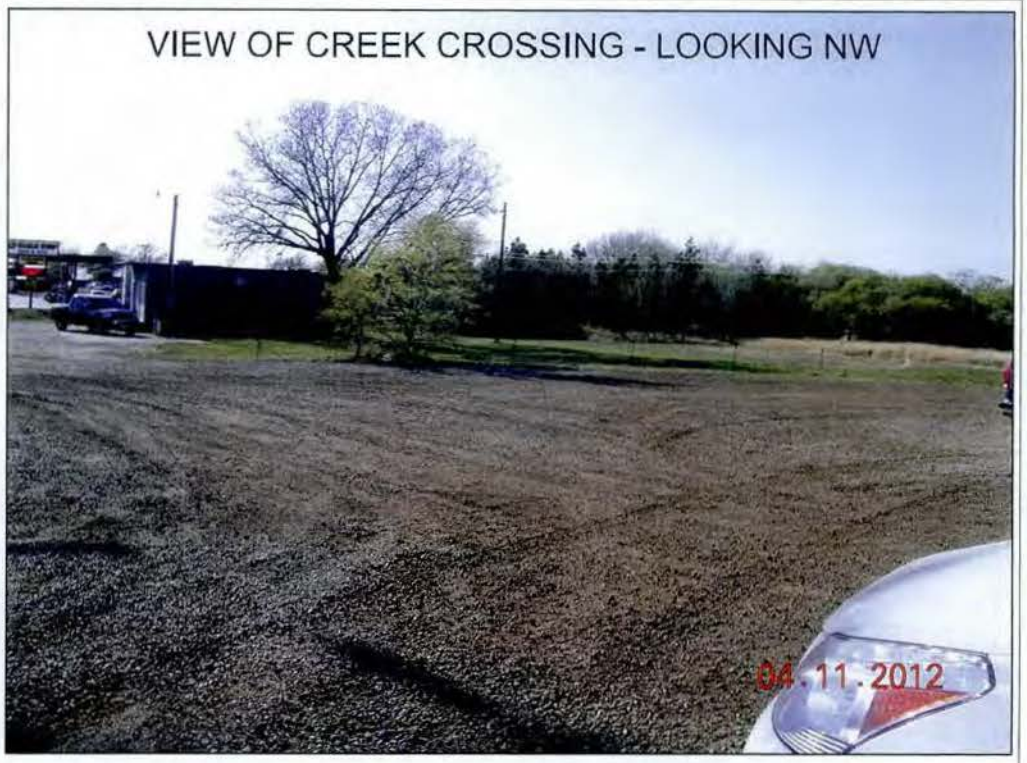
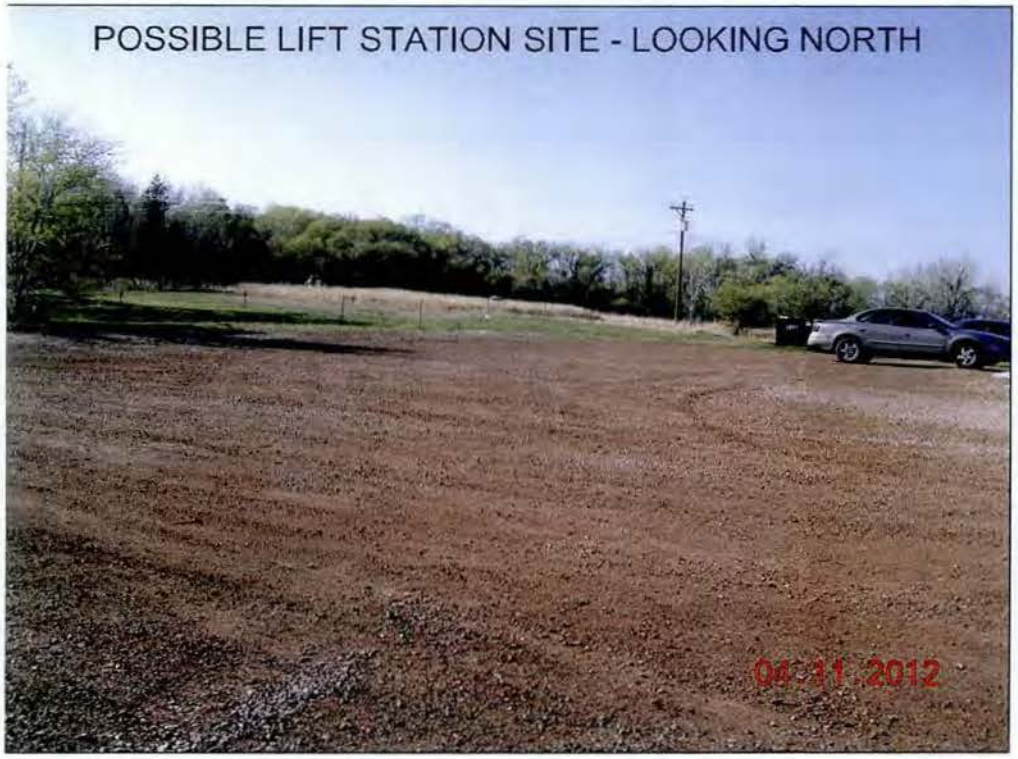
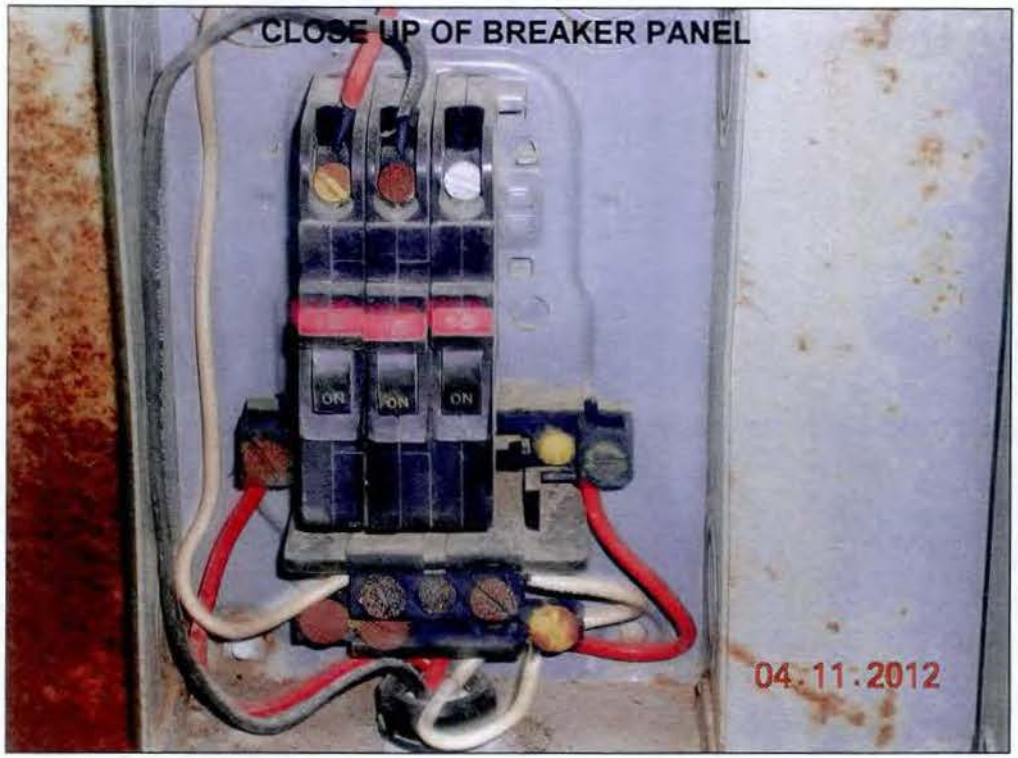
04.25.2012

VIEW OF HWY 212 SEWER FROM EAST
HWY 212 SEWER
04.11.2012


VIEW OF CREEK CROSSING - LOOKING NW
04.11.2012


POSSIBLE LIFT STATION SITE - LOOKING NORTH
04.11.2012

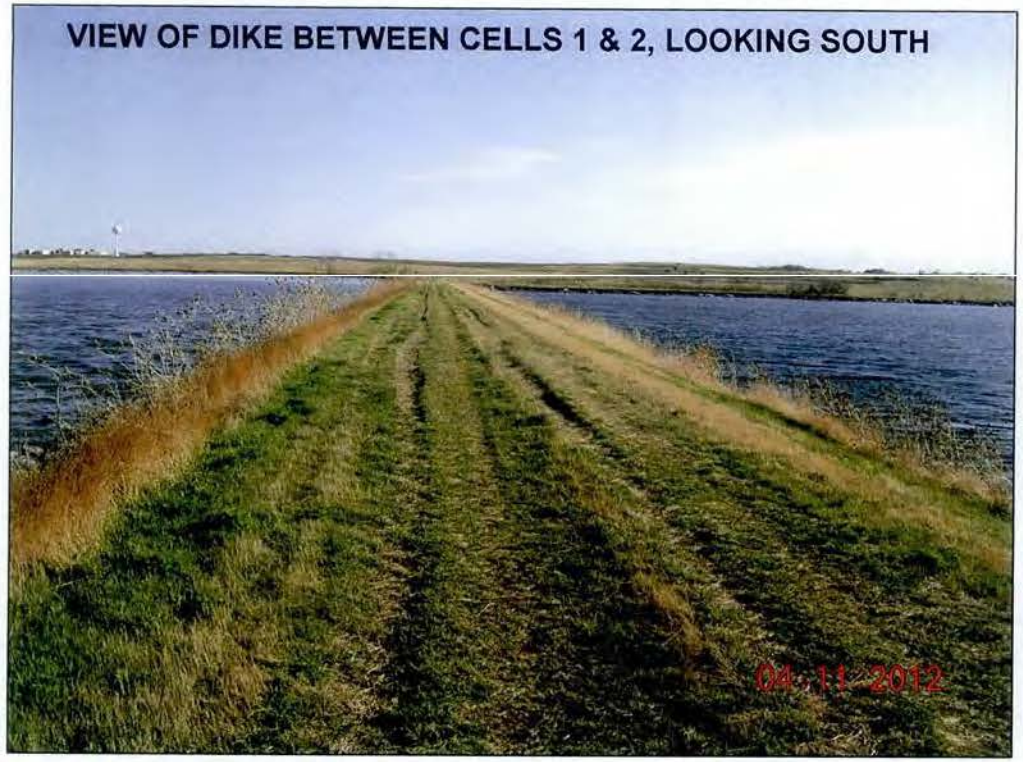
UNSEWERED AREA - LOOKING EAST
04.11.2012

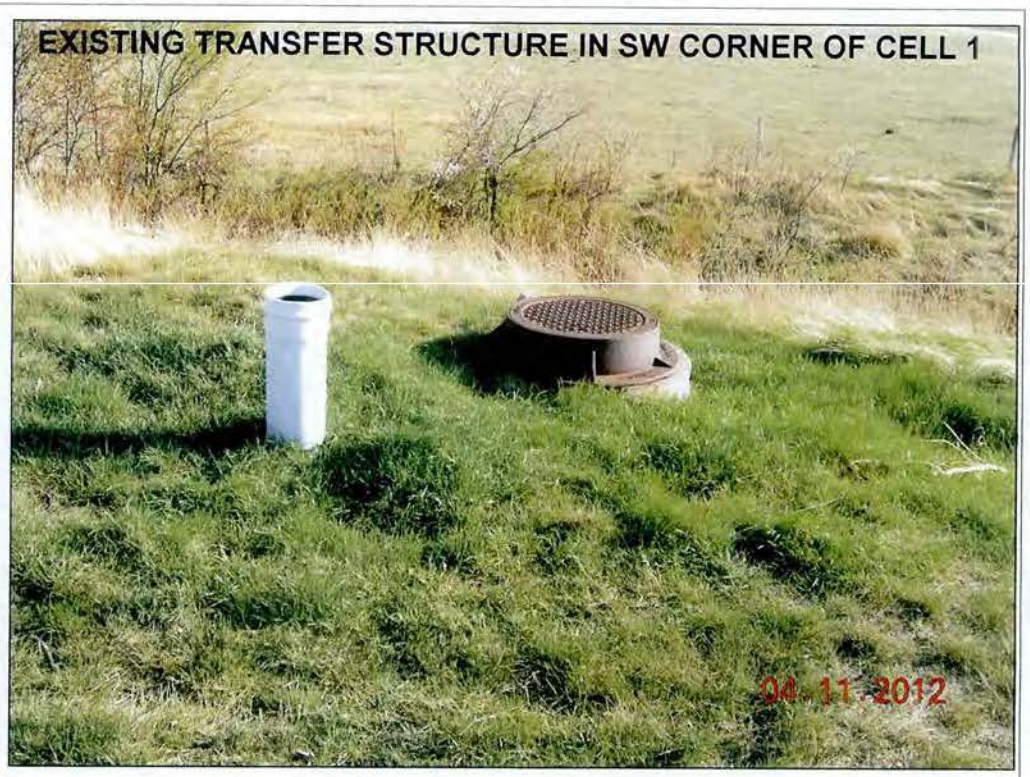

CLOSE UP OF BREAKER PANEL
ON
ON
ON
04.11.2012

EXISTING WET WELL
04.11.2012

ISTING LIFT STATION CONTROL PANEL
04.11.2012

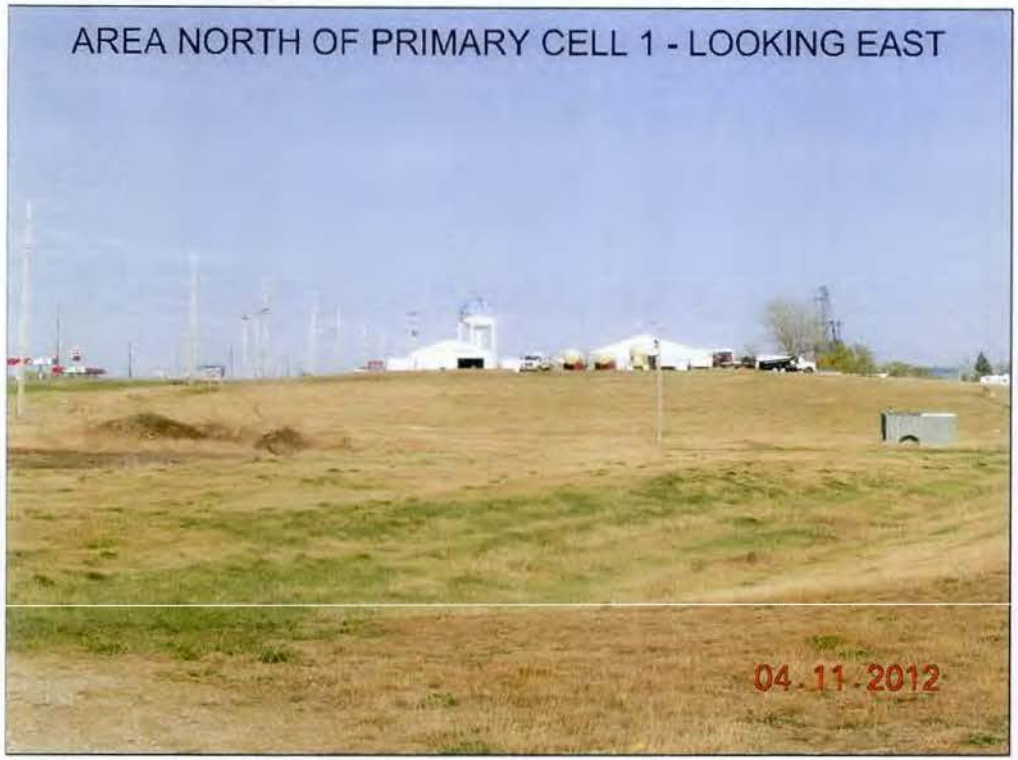
CORROSION IN WET WELL
04.11.2012


VIEW OF DIKE BETWEEN CELLS 1 & 2, LOOKING SOUTH
04-11-2012

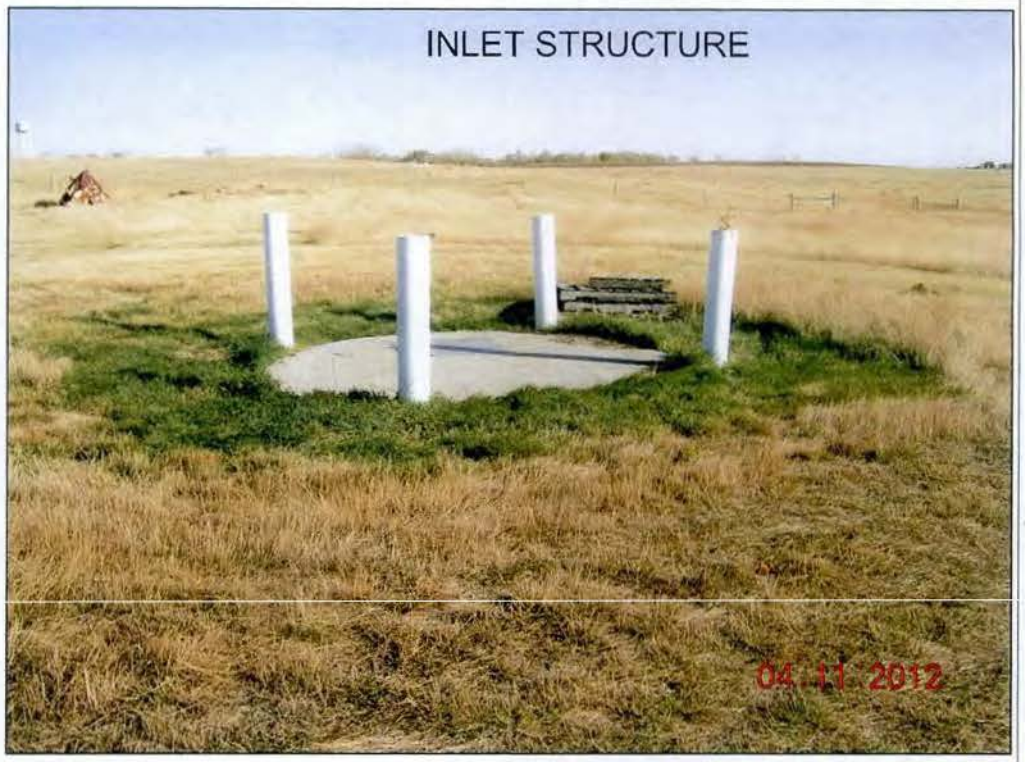

EXISTING TRANSFER STRUCTURE IN SW CORNER OF CELL 1
04-11-2012

VIEW OF CELL 1, LOOKING EAST
04-11-2012

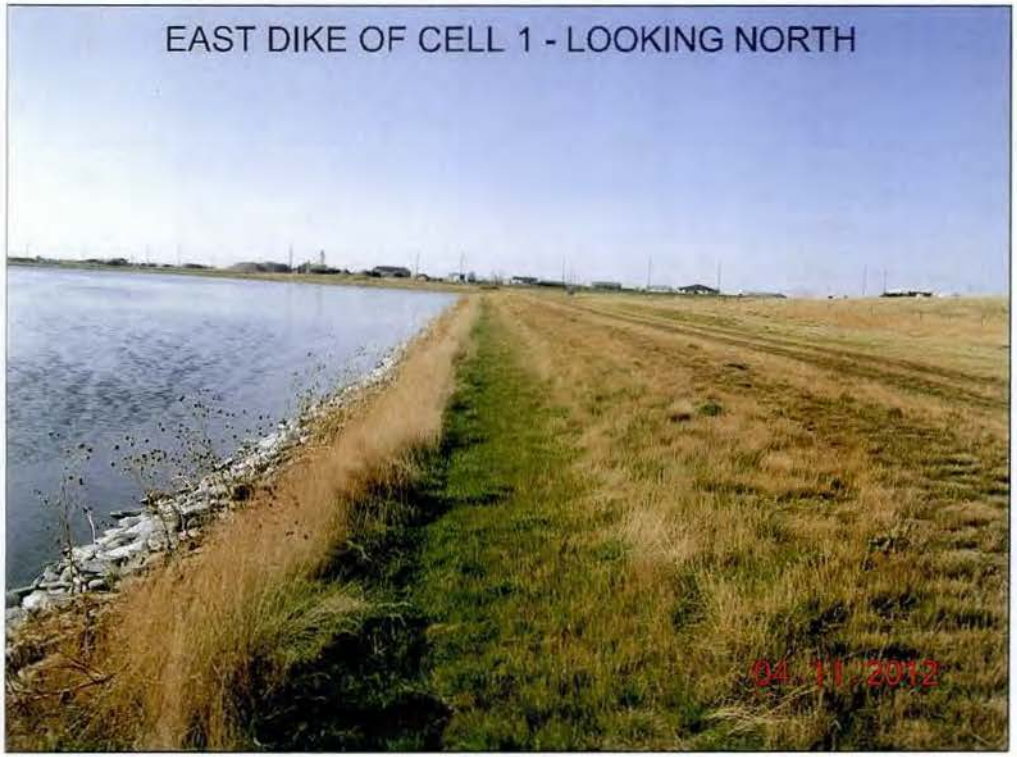
04-11-2012
EXISTING DEPTH MARKER



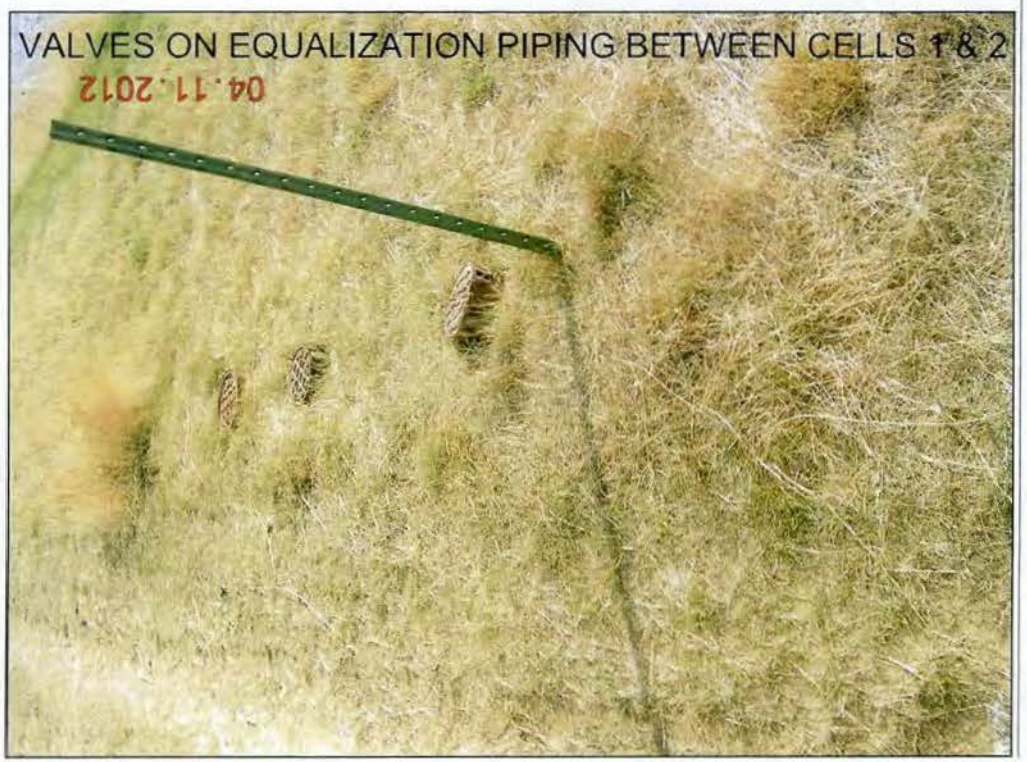
AREA NORTH OF PRIMARY CELL 1 - LOOKING EAST



INLET STRUCTURE



EAST DIKE OF CELL 1 - LOOKING NORTH



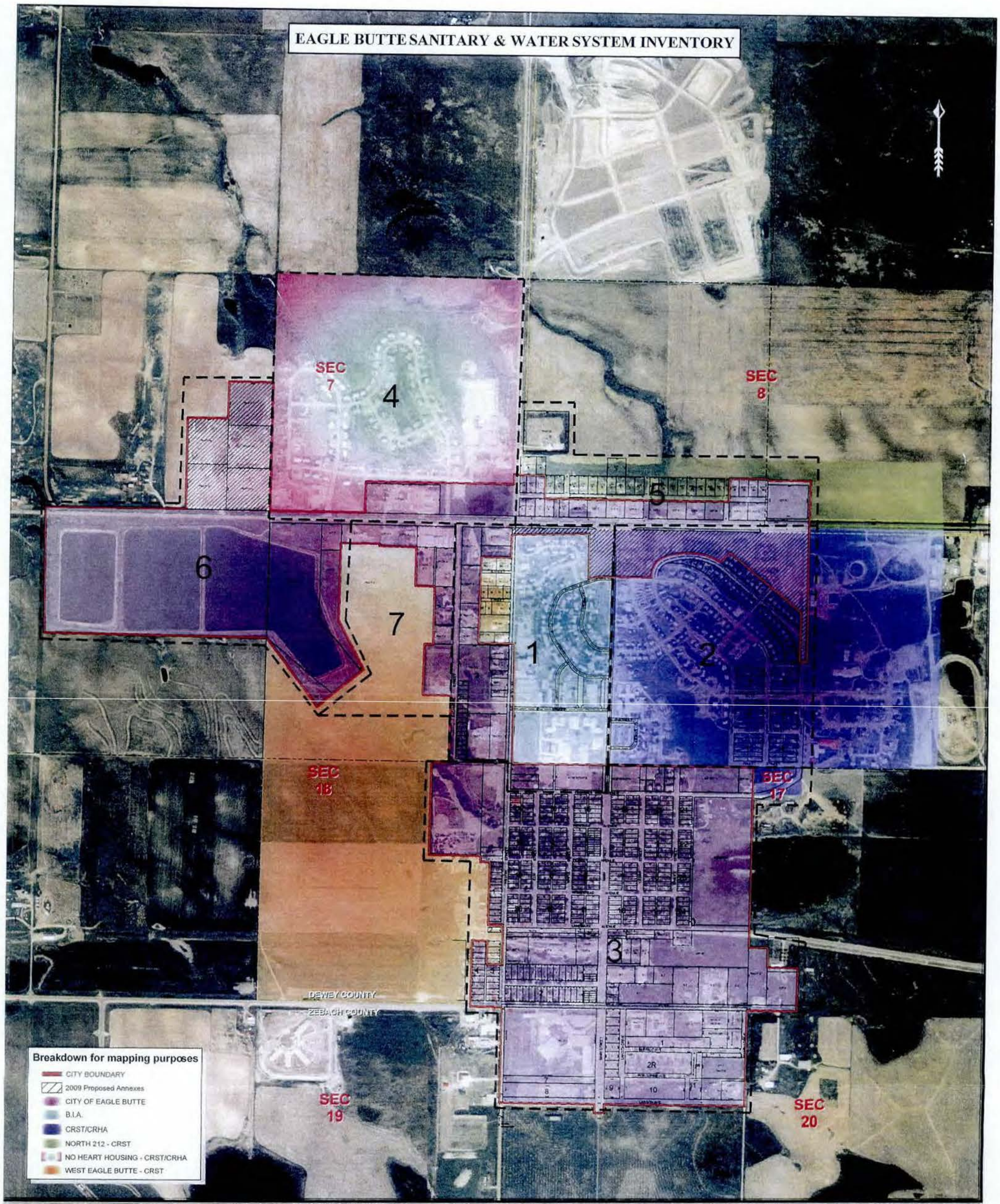
VALVES ON EQUALIZATION PIPING BETWEEN CELLS 1 & 2

APPENDIX E
SANITARY SYSTEM MAPPING

X:\06\62\140\662140\DWG\SANITARY SYSTEM.DWG

Plot Date: 4/26/2012 11:11:34 AM

EAGLE BUTTE SANITARY & WATER SYSTEM INVENTORY



JOB NO.	REVISIONS	CLIENT	PROJECT DESCRIPTION
R:\2006MAP\303-21\eagle_butte_data\Overview.mxd	Final Revisions 4/15/09	City of Eagle Butte & Cheyenne River Sioux Tribe/BIA	OVERVIEW
SHEET NO. 1 of 7		SCALE 1" = 330'	CITY OF EAGLE BUTTE
		DRWN BY Ernie Canode & Josh Warne	
		CHK'D BY Derek McTighe	EAGLE BUTTE, SOUTH DAKOTA
		DATE 4/15/09	

PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES

SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA

Brosz Engineering, Inc.

OFFICE LOCATION: 3030 AIRPORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501
PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

GRAPHIC SCALE

500 0 250 500 1000

(IN FEET)

Project Number: 662140

Sheet 0

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - LOCATION PLAN

EAGLE BUTTE, SOUTH DAKOTA

X:\06\62\140\662140\DWG\SANITARY SYSTEM.DWG

Plot Date: 4/26/2012 11:12:48 AM

EAGLE BUTTE SANITARY SEWER SYSTEM INVENTORY

US HWY 212
BIA Water Tower
CRST Wellness Center
Teton Hall
Lakota Thirty Hall
CRST Judges Chambers
CRST HIP
BIA Fire Station
Storage
Street Dept.
Land Operations
Maintenance Shop
Warehouse
Bus Garage
BIA Admin. Office
Hospital
Eagle Center
BIA Kitchen
Swimming Pool
Walter Miner Law Enforcement
Dakota Field
Junior High
Elementary
Admin.
Kinder-garten
High School
Auditorium/Gym
City Park
Sesame St. Housing
Sycamore Street
Willow Street - Section Line
North Main Street
Sesame Street
Washington Street
"A" Street
"B" Street
"C" Street
"D" Street
"E" Street
Bison
CTR St.
Miner's Ave.
West Frontier Avenue
East Frontier Avenue

Inventory Key

- Sanitary Manhole
- 2009 City Bounda
- ProposedAnnex

Sanitary Sewer Size, Type

- 4, Clay
- 6" Clay Tile
- 8" Clay Tile
- 10" Clay Tile
- 4" PVC
- 6" PVC
- 8" PVC
- 10" PVC
- 12" PVC

JOB NO. R:\2008MAP\583-2\eagle_butte_data\BIA_Sanitarysewer08.mxd	REVISIONS	CLIENT City of Eagle Butte & Cheyenne River Sioux Tribe/BIA	PROJECT DESCRIPTION B.I.A.
SHEET NO. 3 of 7		SCALE 1" = 100'	CITY OF EAGLE BUTTE
		DRAWN BY Ernie Canode & Josh Warne	
		CHK'D BY Derek McTigue	
		DATE 4/15/09	EAGLE BUTTE, SOUTH DAKOTA

Brosz Engineering, Inc.
PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES
SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA
OFFICE LOCATION: 3030 AIR FORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501
PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

GRAPHIC SCALE
150 0 75 150 300
(IN FEET)

Sheet 1

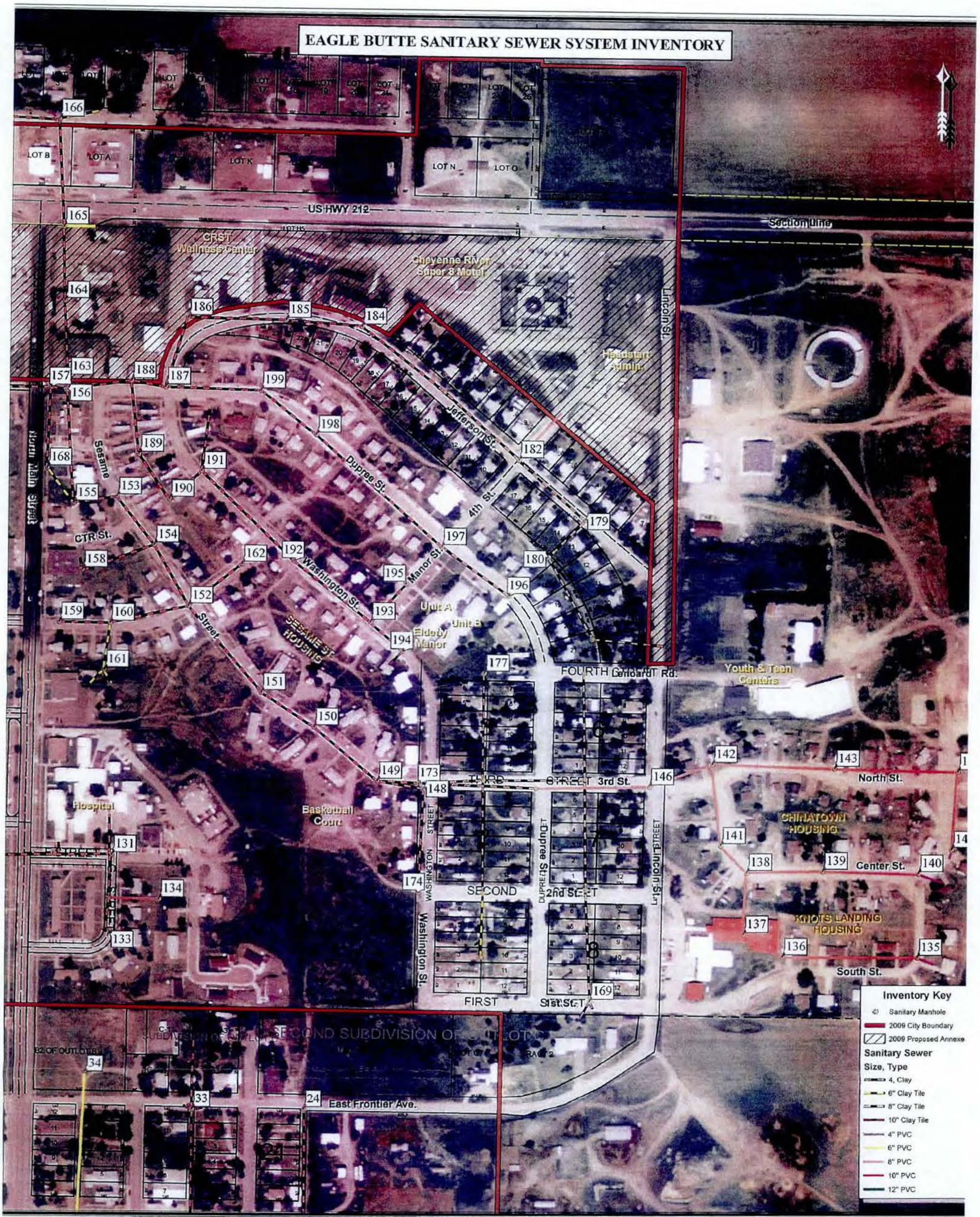
Project Number: 662140

DGR
DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 1

EAGLE BUTTE, SOUTH DAKOTA

EAGLE BUTTE SANITARY SEWER SYSTEM INVENTORY



JOB NO. R:\2008MAP\983-2\eagle_butte_data\CRST_CRHA_Sanitary06.mxd

SHEET NO. 4 of 7

REVISIONS

CLIENT: City of Eagle Butte / Cheyenne River Sioux Tribe/BIA

SCALE: 1" = 100'

DRAWN BY: Ernie Canode & Josh Warne

CHK'D BY: Derek McTighe

DATE: 4/15/09

PROJECT DESCRIPTION: CRST / CRHA — CITY OF EAGLE BUTTE — EAGLE BUTTE, SOUTH DAKOTA

PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES

SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA

Rosz Engineering, Inc.

OFFICE LOCATION: 3030 AIRPORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501

PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

GRAPHIC SCALE

150 0 75 150 300

(IN FEET)

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 2

EAGLE BUTTE, SOUTH DAKOTA

X:\06\62\140\662140\DWG\SANITARY SYSTEM.DWG

Plot Date: 4/26/2012 11:18:05 AM

GRAPHIC SCALE

250 0 125 250 500

(IN FEET)

Project Number: 662140

Sheet 3

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 3

EAGLE BUTTE, SOUTH DAKOTA

EAGLE BUTTE SANITARY SEWER SYSTEM INVENTORY

JOB NO. R:\2008 MAP\563-21\eagle_butte_data\NoHeart_Sanitary08.mxd

SHEET NO. 6 of 7

REVISIONS

CLIENT: City of Eagle Butte & Cheyenne River Sioux Tribe/BIA

SCALE: 1" = 100'

DRWN BY: Ernie Canode & Josh Warne

CHK'D BY: Derek McTighe

DATE: 4/15/09

PROJECT DESCRIPTION: NO HEART HOUSING — CITY OF EAGLE BUTTE — EAGLE BUTTE, SOUTH DAKOTA

PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES

Brosz Engineering, Inc.

SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA

OFFICE LOCATION: 3030 AIRPORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501
PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

GRAPHIC SCALE

150 0 75 150 300

(IN FEET)

Sheet 4

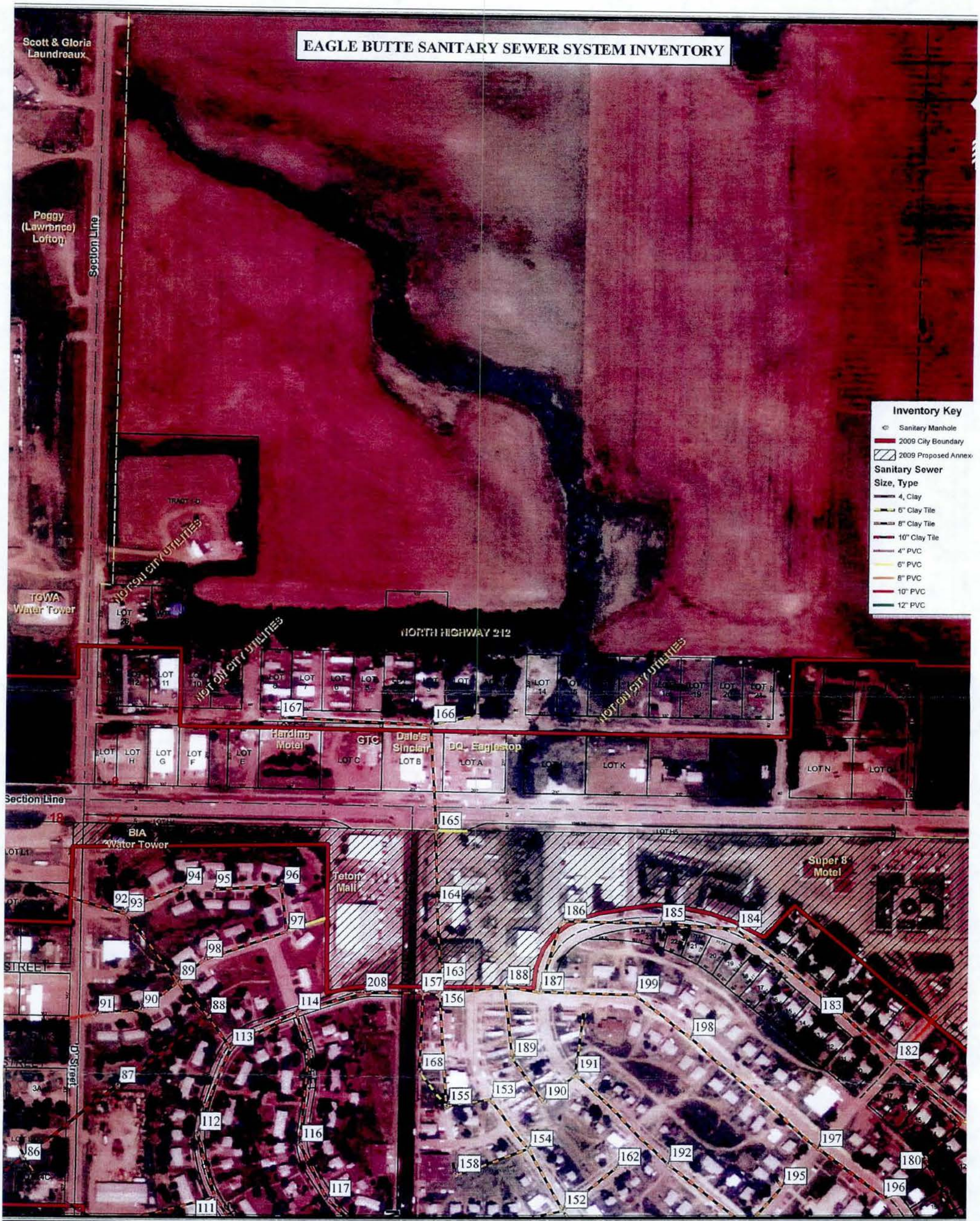
Project Number: 662140

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 4

EAGLE BUTTE, SOUTH DAKOTA

EAGLE BUTTE SANITARY SEWER SYSTEM INVENTORY



JOB NO. R:\2008MAP\503-2\eagle_butte_data\North_212_Sanitary04.mxd	REVISIONS	CLIENT City of Eagle Butte & Cheyenne River Sioux Tribe/BIA	PROJECT DESCRIPTION NORTH HWY. 212
SHEET NO. 5 of 7		SCALE 1" = 100'	CITY OF EAGLE BUTTE
		DRAWN BY Ernie Canode & Josh Warne	EAGLE BUTTE, SOUTH DAKOTA
		CHK'D BY Derek McTighe	
		DATE 4/15/09	

PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES
SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA
Brosz Engineering, Inc.
OFFICE LOCATION: 3030 AIRPORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501
PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

GRAPHIC SCALE
150 0 75 150 300
(IN FEET)

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 5

EAGLE BUTTE, SOUTH DAKOTA

JOB NO. R:\2006MAP\003-2\eagle_butte_data\WestEagleButte_Sanitary06.mxd

SHEET NO. 7 of 7

REVISIONS

CLIENT: City of Eagle Butte & Cheyenne River Sioux Tribe/BIA

SCALE: 1" = 125'

DRWN BY: Ernie Canode & Josh Warne

CHK'D BY: Derek McTighe

DATE: 4/15/09

PROJECT DESCRIPTION

WEST EAGLE BUTTE

CITY OF EAGLE BUTTE

EAGLE BUTTE, SOUTH DAKOTA

Frosz Engineering, Inc.

PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES

SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA

OFFICE LOCATION: 3030 AIRPORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501

PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

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By proceeding to use this data, each user agrees to waive, release, and indemnify City of Eagle Butte, its agents, consultants, contractors, and employees from any and all claims, actions, or causes of action for damages or injury to persons or property arising from the use or inability to use City of Eagle Butte West Eagle Butte Sanitary Sewer System information.

GRAPHIC SCALE

200 0 100 200 400

(IN FEET)

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 6

EAGLE BUTTE, SOUTH DAKOTA

EAGLE BUTTE SANITARY SEWER SYSTEM INVENTORY

JOB NO.	REVISIONS	CLIENT: City of Eagle Butte & Cheyenne River Sioux Tribe/BIA	PROJECT DESCRIPTION: WEST EAGLE BUTTE
SHEET NO. 7 of 7		SCALE: 1" = 150'	CITY OF EAGLE BUTTE
		DRWN BY: Ernie Canode & Josh Warne	
		CHK'D BY: Derek McTighe	EAGLE BUTTE, SOUTH DAKOTA
		DATE: 4/15/09	

PROFESSIONAL ENGINEERS & LICENSED LAND SURVEYORS WITH GIS/GPS SERVICES

Rosz Engineering, Inc.

SERVING: SOUTH DAKOTA, NORTH DAKOTA, WYOMING, MONTANA and NEBRASKA

OFFICE LOCATION: 3030 AIRPORT ROAD, SUITE A - P.O. BOX 23 - PIERRE SD, 57501
PHONE: (605) 224-1123 - FAX: (605) 224-0659

DATA DISCLAIMER:

GRAPHIC SCALE

250 0 125 250 500

(IN FEET)

DeWild Grant Reckert and Associates Company
Consulting Engineers and Land Surveyors
Rock Rapids, IA - Sioux City, IA - Sioux Falls, SD

WASTEWATER COLLECTION SYSTEM - SECTION 7

EAGLE BUTTE, SOUTH DAKOTA

APPENDIX F
PROJECT CLEARANCES

DeWild Grant Reckert and Associates Company

CONSULTING ENGINEERS AND LAND SURVEYORS

2909 E. 57TH STREET
SUITE 101
SIOUX FALLS, SD 57108
(605) 339-4157
FAX: (605) 339-4175

May 11, 2012

South Dakota Dept. of Game, Fish and Parks
Division of Wildlife
523 East Capitol Avenue
Pierre, SD 57501-3181
Attn: Leslie Petersen, Interagency Coordinator

RE: Water System and Wastewater Facilities Improvements
Eagle Butte, South Dakota
DGR Project 662140

Dear Ms. Petersen:

The purpose of this letter is to provide you with a brief description and a location map for the above referenced project. The City of Eagle Butte is applying for project funding through South Dakota's Clean and Drinking Water State Revolving Fund Program. Please review the enclosed information and provide us with your comments or concerns regarding this project.

The City of Eagle Butte is preparing for a utility improvement project during the 2012 calendar year. The City is planning on the following improvements (see attached display map):

1. The City of Eagle Butte is planning to construct water distribution system improvements to extend service to an un-served portion of their community and to improve reliability and operational efficiency to the existing water system. The project includes construction of approximately 7,050 feet of new 6-inch PVC main to improve water service on the west and north side of town , approximately 2,080 feet of 8-inch PVC to replace aged asbestos-cement water main within the downtown area of Eagle Butte and the replacement of approximately 1,200 water service meters with automatic read equipment.

2. The City also plans to replace and relocate an aging lift station to eliminate maintenance issues with the existing lift station and gravity sewer located under Highway 212. Install aeration and construct piping modifications at the wastewater lagoons to reduce odor problems and facilitate transfer of water.

The existing ground adjacent to the project north of Highway 212 is presently commercial property and bordered by Cheyenne River Sioux Tribe trust land on the south. The existing ground adjacent to the project on Sycamore Street is bordered by residential properties of the City of Eagle Butte. The wastewater lagoon site is situated on the west side of town and bordered by pasture land to the east, south, west and Highway 212 to the north. The water meter replacement project will encompass the corporate limits of the City of Eagle Butte.

There is one known wetland adjacent to the project area. All construction activities during this project will take place outside of the identified wetland area. Construction activities will also be minimized in this area and erosion control measures will be installed to minimize the impact to the wetland. There will be no fill placed in the natural wetland during construction.

There are no game preserves, national forests, or any known endangered or rare species present within the project areas. If any rare or endangered species are encountered, construction activities will be halted and the appropriate agencies will be contacted. If possible, construction will be relocated to avoid such species. Any construction on habitat areas will be carefully managed to minimize any potential effects to biological resources.

Thank you for providing us with your review and comments regarding this project. If you have any questions, please contact us.

Sincerely,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Trent Bruce, PE
Project Manager

Enclosures

DEPARTMENT OF GAME, FISH, AND PARKS
Foss Building
523 East Capitol
Pierre, South Dakota 57501-3182

May 22, 2012

Mr. Trent Bruce
DGR, Inc.
2909 E. 57th Street
Suite 101
Sioux Falls, SD 57108

RE: Water System and Wastewater Facilities Improvements
Eagle Butte, South Dakota
DGR Project No. 662140

Dear Mr. Bruce:

The South Dakota Department of Game, Fish and Parks, Division of Wildlife, has reviewed the above referenced project involving water distribution system improvements in the City of Eagle Butte, South Dakota.

At this time, the project described will have no impacts on fish and wildlife resources. However, if the project design changes or if new information becomes available, please submit the changes for review.

If you have any questions, please contact me at (605) 773-6208.

Sincerely,

Leslie Murphy

Leslie Murphy
Senior Biologist

DeWild Grant Reckert and Associates Company
CONSULTING ENGINEERS AND LAND SURVEYORS
2909 E. 57TH STREET
SUITE 101
SIOUX FALLS, SD 57108
(605) 339-4157
FAX: (605) 339-4175

May 11, 2012

Steven Vance, Acting THPO
CRST Preservation Office
P.O. Box 590
Eagle Butte, SD 57625

RE: Water System and Wastewater Facilities Improvements
Eagle Butte, South Dakota
DGR Project 662140

Dear Mr. Vance:

The purpose of this letter is to provide you with a brief description and a location map for the above referenced project. The City of Eagle Butte is applying for project funding through South Dakota's Clean and Drinking Water State Revolving Fund Program. Please review the enclosed information and provide us with your comments or concerns regarding this project.

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Thank you for providing us with your review and comments regarding this project. If you have any questions, please contact us.

Sincerely,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Trent Bruce, PE
Project Manager

Enclosures

DeWild Grant Reckert and Associates Company
CONSULTING ENGINEERS AND LAND SURVEYORS
2909 E. 57TH STREET
SUITE 101
SIOUX FALLS, SD 57108
(605) 339-4157
FAX: (605) 339-4175

May 11, 2012

Scott Larson
United States Department Of Interior
Fish And Wildlife Service
420 S. Garfield Avenue
Pierre, SD 57501-5408

RE: Water System and Wastewater Facilities Improvements
Eagle Butte, South Dakota
DGR Project 662140

Dear Mr. Larson:

The purpose of this letter is to provide you with a brief description and a location map for the above referenced project. The City of Eagle Butte is applying for project funding through South Dakota's Clean and Drinking Water State Revolving Fund Program. Please review the enclosed information and provide us with your comments or concerns regarding this project.

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Thank you for providing us with your review and comments regarding this project. If you have any questions, please contact us.

Sincerely,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Trent Bruce, PE
Project Manager

Enclosures

DeWild Grant Reckert and Associates Company
CONSULTING ENGINEERS AND LAND SURVEYORS
2909 E. 57TH STREET
SUITE 101
SIOUX FALLS, SD 57108
(605) 339-4157
FAX: (605) 339-4175

May 11, 2012

United States Department of Agriculture
Natural Resources Conservation Services
200 Fourth Street SW
Huron, SD 57350-2475
Attn: Deanna Peterson, State Soil Scientist

RE: Water System and Wastewater Facilities Improvements
Eagle Butte, South Dakota
DGR Project 662140

Dear Ms. Peterson:

The purpose of this letter is to provide you with a brief description and a location map for the above referenced project. The City of Eagle Butte is applying for project funding through South Dakota's Clean and Drinking Water State Revolving Fund Program. Please review the enclosed information and provide us with your comments or concerns regarding this project.

The City of Eagle Butte is preparing for a utility improvement project during the 2012 calendar year. The City is planning on the following improvements (see attached display map):

1. The City of Eagle Butte is planning to construct water distribution system improvements to extend service to an un-served portion of their community and to improve reliability and operational efficiency to the existing water system. The project includes construction of approximately 7,050 feet of new 6-inch PVC main to improve water service on the west and north side of town , approximately 2,080 feet of 8-inch PVC to replace aged asbestos-cement water main within the downtown area of Eagle Butte and the replacement of approximately 1,200 water service meters with automatic read equipment.

2. The City also plans to replace and relocate an aging lift station to eliminate maintenance issues with the existing lift station and gravity sewer located under Highway 212. Install aeration and construct piping modifications at the wastewater lagoons to reduce odor problems and facilitate transfer of water.

The existing ground adjacent to the project north of Highway 212 is presently commercial property and bordered by Cheyenne River Sioux Tribe trust land on the south. The existing ground adjacent to the project on Sycamore Street is bordered by residential properties of the City of Eagle Butte. The wastewater lagoon site is situated on the west side of town and bordered by pasture land to the east, south, west and Highway 212 to the north. The water meter replacement project will encompass the corporate limits of the City of Eagle Butte.

There is one known wetland adjacent to the project area. All construction activities during this project will take place outside of the identified wetland area. Construction activities will also be minimized in this area and erosion control measures will be installed to minimize the impact to the wetland. There will be no fill placed in the natural wetland during construction.

There are no game preserves, national forests, or any known endangered or rare species present within the project areas. If any rare or endangered species are encountered, construction activities will be halted and the appropriate agencies will be contacted. If possible, construction will be relocated to avoid such species. Any construction on habitat areas will be carefully managed to minimize any potential effects to biological resources.

Thank you for providing us with your review and comments regarding this project. If you have any questions, please contact us.

Sincerely,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Trent Bruce, PE
Project Manager

Enclosures

DeWild Grant Reckert and Associates Company
CONSULTING ENGINEERS AND LAND SURVEYORS
2909 E. 57TH STREET
SUITE 101
SIOUX FALLS, SD 57108
(605) 339-4157
FAX: (605) 339-4175

May 11, 2012

U.S. Army Corps of Engineers, Omaha District
Planning Division
Attn: CENWO-PM-AE
1616 Capital Avenue
Omaha, NE 68102-4901

RE: Water System and Wastewater Facilities Improvements
Eagle Butte, South Dakota
DGR Project 662140

Dear Planning Division:

The purpose of this letter is to provide you with a brief description and a location map for the above referenced project. The City of Eagle Butte is applying for project funding through South Dakota's Clean and Drinking Water State Revolving Fund Program. Please review the enclosed information and provide us with your comments or concerns regarding this project.

The City of Eagle Butte is preparing for a utility improvement project during the 2012 calendar year. The City is planning on the following improvements (see attached display map):

1. The City of Eagle Butte is planning to construct water distribution system improvements to extend service to an un-served portion of their community and to improve reliability and operational efficiency to the existing water system. The project includes construction of approximately 7,050 feet of new 6-inch PVC main to improve water service on the west and north side of town , approximately 2,080 feet of 8-inch PVC to replace aged asbestos-cement water main within the downtown area of Eagle Butte and the replacement of approximately 1,200 water service meters with automatic read equipment.

2. The City also plans to replace and relocate an aging lift station to eliminate maintenance issues with the existing lift station and gravity sewer located under Highway 212. Install aeration and construct piping modifications at the wastewater lagoons to reduce odor problems and facilitate transfer of water.

The existing ground adjacent to the project north of Highway 212 is presently commercial property and bordered by Cheyenne River Sioux Tribe trust land on the south. The existing ground adjacent to the project on Sycamore Street is bordered by residential properties of the City of Eagle Butte. The wastewater lagoon site is situated on the west side of town and bordered by pasture land to the east, south, west and Highway 212 to the north. The water meter replacement project will encompass the corporate limits of the City of Eagle Butte.

There is one known wetland adjacent to the project area. All construction activities during this project will take place outside of the identified wetland area. Construction activities will also be minimized in this area and erosion control measures will be installed to minimize the impact to the wetland. There will be no fill placed in the natural wetland during construction.

There are no game preserves, national forests, or any known endangered or rare species present within the project areas. If any rare or endangered species are encountered, construction activities will be halted and the appropriate agencies will be contacted. If possible, construction will be relocated to avoid such species. Any construction on habitat areas will be carefully managed to minimize any potential effects to biological resources.

Thank you for providing us with your review and comments regarding this project. If you have any questions, please contact us.

Sincerely,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY

Trent Bruce, PE
Project Manager

Enclosures

APPENDIX G
MINUTES FROM PUBLIC HEARING

Published notice and minutes from public hearing will be included in this section of the appendix after the public hearing date.

WRAP Review Sheet
Sanitary/Storm Sewer Facilities Funding Application
Applicant: Town of Saint Lawrence

Project Title:	Lagoon Repairs
Funding Requested:	$373,000
Other Proposed Funding:	$0
Total Project Cost:	$373,000
Green Reserve Amount:	$0
Project Description:	The Town of Saint Lawrence is proposing to reshape and rip-rap the berm at the wastewater lagoon. The town is also proposing to add gravel to the road leading to the lagoon. These changes will repair current erosion issues as well as prevent erosion in the future.
Alternatives Evaluated:	Alternative one will place drainage fabric, rip rap the pond inslopes, reshape the top of the dikes and seed them to prevent erosion. A small amount of gravel would be used to repair some erosion on the existing road. Alternative two will place drainage fabric, rip rap the pond inslopes, reshape the top of the dikes and cover them with gravel. Any additional disturbed areas would be seeded. The town chose alternative one for lower first cost, better erosion protection and lower future costs.
Implementation Schedule:	The city anticipates that construction will start in Spring of 2015 with a completion date of August 30, 2015.
Service Population:	198
Current Domestic Rate:	$25/flat rate
Proposed Domestic Rate at Project Completion:	$48/flat rate

Interest Rate: 3.25% Term: 30 years Security: Wastewater Surcharge

DEBT SERVICE CAPACITY

Coverage at Maximum Loan Amount:	If all funding is provided as loan, Saint Lawrence would need to enact a surcharge of $22.93. When added to the current rate of $25/5,000 gallons, residents would pay $47.93/5,000 gallons.

25% Funding Subsidy:	$93,250 subsidy with a loan of $279,750.
Coverage at 25% Subsidy:	Based on a 25 percent subsidy and a loan of $279,750, Saint Lawrence would need to enact a surcharge of $17.20, and residents would pay $42.20/5,000 gallons.

50% Funding Subsidy:	$186,500 subsidy with a loan of $186,500
Coverage at 50% Subsidy:	Based on a 50 percent subsidy and a loan of $186,500, Saint Lawrence would need to enact a surcharge of $11.47, and residents would pay $36.47/5,000 gallons.

75% Funding Subsidy:	$279,750 subsidy with a loan of $93,250
Coverage at 75% Subsidy:	Based on a 75 percent subsidy and a loan of $93,250, Saint Lawrence would need to enact a surcharge of $11.47, and residents would pay $30.74/5,000 gallons.

ENGINEERING REVIEW COMPLETED BY: DREW HUISKEN

FINANCIAL REVIEW COMPLETED BY: ELAYNE LANDE

Sanitary/Storm Sewer Facilities Funding Application

Consolidated Water Facilities Construction Program (CWFCP)
Clean Water State Revolving Fund Program (CWSRF)

Applicant	Proposed Funding Package	
Town of Saint Lawrence		
Address	CWFCP / CWSRF	$373,000
PO Box 37 St. Lawrence, SD 57373	Local Cash	
	Other	
Subapplicant	Other	
	Other	
DUNS Number 079299878	**TOTAL**	$373,000

Project Title: Town of Saint Lawrence Lagoon Repairs

Description:

The Town of Saint Lawrence is proposing to reshape and rip-rap the berm at the wastewater lagoon. They are also proposing to add some gravel to the road leading to the lagoon. The Town has a flat rate of $25.00 and does not have a reserve fund established for this utility yet.

The Applicant Certifies That:

I declare and affirm under the penalties of perjury that this application has been examined by me and, to the best of my knowledge and belief, is in all things true and correct.

Shirley Peck, Town President — Shirley Peck — Mar 10, 2014

Name & Title of Authorized Signatory (Typed) — Signature — Date

Professional Consultants

Application Prepared By: Northeast Council of Governments

Contact Person: Ted Dickey

Mailing Address: PO Box 1985

City, State, and Zip: Aberdeen, SD 57402

Telephone Number: (605) 626-2595 Fax: (605) 626-2975

Email address: ted@necog.org

Consulting Engineering Firm: Pierce and Harris

Contact Person: Randy Hoscheid

Mailing Address: 15 Masonic temple

City, State, and Zip: Huron, SD 57350

Telephone Number: (605) 352-5382 Fax:

Email address: pierceharris@basec.net

Legal Counsel's Firm: Fosheim, Haberstick and Hutchinson

Legal Counsel: Carl Haberstick

Mailing Address: 239 Wisconsin Avenue SW #203

City, State, and Zip: Huron, SD 57350

Telephone Number: (605) 352-0702 Fax:

Email address:

Bond Counsel's Firm: Meierhenry Sargent

Bond Counsel: Todd Meierhenry

Mailing Address: 315 S. Phillips Avenue

City, State, and Zip: Sioux Falls, SD 57104

Telephone Number: (605) 336-3075 Fax: (605) 336-2593

Email address: todd@meierhenrylaw.com

BUDGET SHEET

Cost Classification	A CWFCP / DWSRF	B	C	D	E	Total Funds
1. Administrative Expenses						
A. Personal Services	$5,000.00					$5,000.00
B. Travel						
C. Legal including Bond Counsel	$3,730.00					$3,730.00
D. Other						
2. Land, Structure, Right-of-Way						
3. Engineering						
A. Bidding and Design Fees	$25,000.00					$25,000.00
B. Project Inspection Fees	$37,000.00					$37,000.00
C. Other						
4. Construction and Project Improvement	$271,240.00					$271,240.00
5. Equipment						
6. Contractual Services						
7. Other						
8. Other						
9. Subtotal (Lines 1-8)	$341,970.00					$341,970.00
10. Contingencies	$31,030.00					$31,030.00
11. Total (Lines 9 and 10)	$373,000.00					$373,000.00
12. Total %	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%

Columns A - E: Identify each funding source and enter the amounts budgeted by cost category.

Comments:

Method of Financing

Source Header	Secured Funds	Unsecured Funds (Date Anticipated)
Local Cash (Identify Source)		
Other (Explain) CWSRF		$373,000.00 Jun 27, 2014
Other (Explain)		
Other (Explain)		
Other (Explain)		
Other (Explain)		
TOTAL		$373,000.00

Comments:

7.4.1 Repayment Information

Interest rate and term you are applying for: 3.25 %, 30 years.

What security is being pledged toward the repayment of this loan?

- ☐ 1. General Obligation bond (requires bond election)
- ☐ 2. Wastewater Revenue bond
- ☐ 3. Storm Sewer Revenue bond
- ☒ 4. Project Surcharge Revenue bond
- ☐ 5. Sales Tax Revenue bond

7.4.2 Documents That Must Be Submitted With Application

Financial Documents

1. Most recent audit or unaudited financial statement to include specific accounting of fund pledged for repayment.
2. Current year's budget.

Planning and Legal Documents

1. Governing user charge ordinance or resolution and its effective date.
2. Resolution of authorized signatory for submission of Clean Water SRF application and signing of payment requests. This resolution must also include the maximum loan amount requested, interest rate and term being applied for, description of proposed project, and security pledged towards repayment of the loan.

Facilities Plan (See section 8.4.16 for a detailed outline.)

7.4.3 General Information

The month and day your fiscal year begins: January 1

Population Served

Current 198 2000 210 1990 223

Top Five Employers Within 30 Miles	Number of Employees	Type of Business
Miller School District	94	Education
Hand County Memorial	85	Hospital
Prairie Good Samaritan	72	Elderly Care
Hand County	72	Government
Data Trak	60	Medical Coding

Please indicate employers within boundary of issuing entity with an asterisk (*).

7.4.4 Wastewater Utility Information

Current Wastewater Utility Debt

Year	1996						
Purpose	Water and Sewer	under highway					
Security Pledged	Water and Waste	1/2 charged to each	account				
Amount	$233,400.00						
Maturity Date (mo/yr)	6/36						
Debt Holder	USDA-RD						
Debt Coverage Requirement	110%						
Avg. Annual Required Payment	$13,644.00	$6,822 charged to	sewer account.	1/2 of $186,187.98	is owed by sewer.		
Outstanding Balance	$186,187.98						

Use additional sheets if more room is required to list all current wastewater utility debt.

Wastewater Utility Cash Flow

	Prior Year	Prior Year	Current Year Budgeted	Future Year *
Fiscal Year	2012	2013	2014	2016
OPERATING CASH FLOW				
Wastewater Sales	$18,650	$19,194.00	$23,500.00	$23,500.00
Surcharge Fee				$21,528.00
Other (Explain)				
OPERATING PAYMENTS				
Personal Services	($3,359)	($10,112.00)	($16,678.00)	($16,678.00)
Chemical, Material & Supplies				
Electric & Other Utilities				
Other (Explain)				
NET CASH FROM OPERATIONS	$15,291	$9,082.00	$6,822.00	$28,350.00
NONOPERATING CASH FLOW				
Interest Income				
Other Revenue (Explain)				
Transfers In (Explain)				
Fixed Asset Sale (Explain)				
Transfers Out (Explain)				
Fixed Asset Purchases (Explain)				
Debt Payment (Principal Only)	($2,119.05)	($2,224.68)	($2,230.00)	($2,250.00)
Debt Payment (Interest Only)	($4,702.95)	($4,597.32)	($4,592.00)	($4,572.00)
Other Expenses (Explain) 2nd SRF Princi				($9,479.00)
2nd SRF Interest				($10,000.00)
NET CASH FROM NONOPERATING	($6,822)	($6,822.00)	($6,822.00)	($26,301.00)
Net Increase (Decrease) in Cash	$8,469	$2,260.00	$0.00	$2,049.00
Beginning Cash Balance	$31,746	$40,215.00	$42,475.00	$42,475.00
Ending Cash Balance	$40,215	$42,475.00	$42,475.00	$44,524.00
RESTRICTED BALANCE	$0			
UNRESTRICTED BALANCE	$40,215	$42,475.00	$42,475.00	$44,524.00

* Future Year: First full year after project completion.

Restricted Funds Breakdown:

Amount	Anticipated Expense	Method Used to Encumber

Wastewater Fees:

Attach current and proposed rate ordinances or resolutions and rate schedules.

Municipal or Sanitary District - monthly rates at 5,000 gallons (670 cubic feet)

Others Systems - monthly rates at 7,000 gallons (935 cubic feet)

Check one: ✓ Incorporated Municipality or Sanitary District

or

____ Other System

Monthly:	Current Rate	Proposed Rate	# of Accounts	Average use gallons/cubic feet
Domestic	25.00	48.00	73	4,000
Business	25.00	48.00	5	5,000
Other:				
Other:				

Are fees based on usage or flat rate? Flat

When is proposed fee scheduled to take effect? _____

When did the current fee take effect? September 2013

What was the fee prior to the current rate? 21.00

Attach current and proposed rate ordinances or resolutions and rate schedules.

Five Largest Customers	Type of Business	% of System Revenues
Thad Stevens	Residential User	2
Steve Kolda	Residential User	2
Dave Neighbor	Residential User	2
Wheat Growers	Elevator	2
Robbie Ross	Residential User	2

Storm Sewer Projects:

Does sponsor have a separate storm water fee? Yes _____ No ✓

If yes, attach the current and proposed rate ordinances or resolutions and rate schedules. Identify below the rate charged and explain how fee is calculated.

7.4.5 Property Tax Information

(Complete this section only if General Obligation bond is pledged to repay your loan.)

Three year valuation trend:

Year			
Assessed Valuation			
Full & True Valuation			

Three year levies and collection trend:

Year			
Amount Levied			
Collected			
Penalties/Interest			
Late Payments			

Three Largest Taxpayers	Description	Assessed Valuation

List all current debt secured by General Obligation bond:

Year					
Purpose					
Security Pledged					
Amount					
Maturity Date (mo/yr)					
Debt Holder					
Debt Coverage Requirement					
Avg. Annual Required Payment					
Outstanding Balance					

Use additional sheets if more room is required to list all current G.O. debt.

7.4.6 Sales Tax Information

(Complete only if sales tax is pledged to repay your loan.)

Sales tax revenue history for the most current fifteen months:

Month/Year	Amount Collected

List all current debt secured by sales tax:

Year Issued									
Purpose									
Amount									
Maturity Date (mo/yr)									
Debt Holder									
Debt Coverage Requirement									
Avg. Annual Required Payment									
Outstanding Balance									

Use additional sheets if more room is required to list all current sales tax debt.

7.4.7 Facilities Plan Checklist

Before submitting the application, please take a few moments to complete the following checklist. Addressing these items prior to submitting the application will help expedite the review process.

Checklist of SRF Facilities Plan Requirements	
Have the following items been addressed?	
♦ Submission of a Facilities Plan to the department that addresses those items found in section 8.4.16.	×
♦ A public hearing held discussing the project and the use of an SRF loan to finance the project. (See section 8.4.15)	×
♦ Minutes of the public hearing prepared and submitted to the department for inclusion into the final Facilities Plan.	×
♦ The affidavit of publication of the public hearing received and submitted to the department for inclusion into the final Facilities Plan. (See section 8.4.15)	×
♦ The four review agencies contacted and responses received for inclusion into the final Facilities Plan. (See section 8.4.16)	
The Cultural Resources Effects Assessment Summary and supporting documentation, such as an archaeological survey or Historic Register database search. (See section 8.4.18)	

7.4.8 Certification of Point Source Needs Categories

Identify the loan amount associated with the needs categories described below. If the loan addresses needs in more than one category, please break down the total amount into estimated amounts for each category.

Category	Definition	Proposed Loan Amount
I	Secondary Treatment and Best Practicable Wastewater Treatment Technology. Costs for facilities to achieve secondary levels of treatment, regardless of the actual treatment levels required at the facility site. Incremental costs for treatment levels above secondary are to be reported in Category II. For purposes of the Survey, "best practicable wastewater treatment technology" and secondary treatment are considered synonymous. Identified alternative conveyance systems (e.g., small diameter gravity, pressure and vacuum sewers) are to be included in Category I.	$373,000
II	Advanced Treatment. Incremental costs above secondary treatment for facilities which require advanced levels of treatment. This requirement generally exists where water quality standards require removal of such pollutants as phosphorus, ammonia, nitrates, or organic and other substances. In addition, this requirement exists where removal requirements for conventional pollutants exceed 85 percent.	
III A	Infiltration/Inflow Correction. Costs for correction of sewer system infiltration/inflow (I/I) problems. Costs should also be reported for the preparation of preliminary I/I analysis or for a detailed sewer system evaluation survey.	
III B	Major Sewer System Rehabilitation. Replacement and/or major rehabilitation of existing sewer systems. Costs are reported if the corrective actions are necessary to the total integrity of the system. Major rehabilitation is considered to be extensive repair of existing sewer beyond the scope of normal maintenance programs (i.e., where sewers are collapsing or structurally unsound).	

Category	Definition	Proposed Loan Amount
IV A	New Collectors and Appurtenances. Costs of construction of new collector sewer systems and appurtenances designed to correct violations caused by raw discharges or seepage to waters from septic tanks, or to comply with Federal, State or local actions.	
IV B	New Interceptors and Appurtenances. Costs for new interceptor sewers and pumping stations necessary for the bulk transmission of clean water.	
V	Correction of Combined Sewer Overflows. Costs for facilities, including conveyance, storage, and treatment, necessary to prevent and/or control periodic bypassing of untreated wastes from combined sewers to achieve water quality objectives and which are eligible for Federal funding. It does not include treatment and/or control of storm waters in separate storm and drainage systems.	
VI	New Construction or Rehabilitation of Storm Sewer Systems and Appurtenances. Cost of new construction or rehabilitation associated with the bulk transmission or detention of storm sewer flows. This category includes only runoff projects in communities with Phase I or Phase II storm water permits.	
TOTAL		$373,000

Town of Saint Lawrence

Name of Applicant

Shirley Peck

Signature of Authorized Representative

March 10, 2014

Date

7.4.9 Certification of Nonpoint Source Needs Categories

Identify the loan amount associated with the needs categories described below. If the loan addresses needs in more than one category, please break down the total amount into estimated amounts for each category.

Category	Definition	Loan Amount
VII-A	NPS pollution - agricultural activities. Plowing, pesticide spraying, irrigation, fertilizing, planting, and harvesting. Example BMPs include conservation tillage, nutrient management, and irrigation water management.	_____
VII-B	NPS pollution - animal production. Confined animal facilities and grazing. Example BMPs include animal waste storage, animal waste nutrient management, composting, and planned grazing.	_____
VII-C	NPS pollution - forestry. Removal of streamside vegetation, road construction and use, timber harvesting, and mechanical preparation for the planting of trees. Example BMPs include preharvest planning, streamside buffers, road management, and revegetation of disturbed areas.	_____
VII-D	NPS pollution - new or existing development in urban or rural setting. Erosion, sedimentation, and discharge of pollutants (e.g., inadequately treated wastewater, oil grease, road salts, and toxic chemicals) into water resources from construction sites, roads, bridges, parking lots, and buildings. Example BMPs include wet ponds, construction site erosion and sedimentation controls, sand filters, and detention basin retrofit. This category includes only runoff projects in communities without phase I or phase II storm water permits.	_____
VII-E	NPS pollution - ground water protection. Wellhead and recharge protection areas. Activities attributed to specific causes are included in a later, more specific category.	_____
VII-F	NPS pollution - boating and marinas. Poorly flushed waterways, boat maintenance activities, discharge of sewage from boats, and physical alteration of shoreline, wetlands, and aquatic habitat during operation or construction of a marina. Example BMPs include pumpout systems and oil containment booms.	_____

Category	Definition	Loan Amount
VII-G	NPS pollution - mining and quarrying activities. Example BMPs: detention berms and seeding or revegetation.	
VII-H	NPS pollution - abandoned, idle, and underused industrial sites. All pollution control activities at these sites regardless of activity. Example BMPs include ground water monitoring wells, in situ treatment of contaminated soils and ground water, capping to prevent storm water infiltration, and storage tank activities at brownfields.	
VII-I	NPS pollution - tanks designed to hold chemicals, gasoline, or petroleum products. Tanks may be located either above or below ground. Example BMPs include spill containment, in situ treatment of contaminated soils and ground water, and upgrade, rehabilitation, or removal of petroleum/chemical storage tanks.	
VII-J	NPS pollution - sanitary landfills. Example BMPs include leachate collection or on-site treatment, gas collection and and control, and capping and closure.	
VII-K	NPS pollution - channel modification, dams, streambank and shoreline erosion, and wetland or riparian area protection or restoration. Example BMPs include conservation easements, swales or filter strips, shore erosion control, wetland development and restoration, and bank and channel stabilization.	
VII-L	NPS pollution - rehabilitation or replacement of individual or community sewerage disposal system. Construction of collector sewers to transport wastes to a cluster septic tank or other decentralized facilities.Collection sewers and expansion of existing or construction of new centralized treatment facilities that replace individual or community sewerage disposal system are included on Point Source Category table.	
TOTAL		$0

Town of Saint Lawrence

Name of Applicant

S Riley Peck

Signature of Authorized Representative

Mar 10, 2014

Date

7.4.10 Preaward Compliance Review

FORM Approved By OMB: No. 2030-0020 Expires 12-31-2011

United States Environmental Protection Agency
Washington, DC 20460

Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note : Read instructions on other side before completing form.

I. Applicant/Recipient (Name, Address, State, Zip Code).	DUNS No.
Town of Saint Lawrence, PO Box 37, Saint Lawrence, SD 57373	079299878

II. Is the applicant currently receiving EPA assistance? No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7. See instructions on reverse side.) None

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective action taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7. See instructions on reverse side.) None

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3)). None

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable bypersons with disabilities, explain how a regulatory exception (40 C.F.R. § 7.70) applies. No

VII.* Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex,age, or disability in its programs or activities? (40 C.F.R. § 5.140 and § 7.95)

a. Do the methods of notice accommodate those with impaired vision or hearing?Yes b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications? Yes c. Does the notice identify a designated civil rights coordinator? Yes

VIII.* Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. § 7.85(a)) Yes

IX.* Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166) Yes

X.* If the applicant/recipient is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator. Town has less than 15 employees.

XI* If the applicant/recipient is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet address for, or a copy of, the procedures. Town has less than 15 employees.

For the Applicant/Recipient I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official	B. Title of Authorized Official	C. Date
Shirley Peck	Town President	

For the U.S. Environmental Protection Agency I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preawardcompliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisionsof 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized EPA Official See ** note on reverse side.	B. Title of Authorized EPA Official	C. Date

EPA Form 4700-4 (Rev. 03/2008). Previous editions are obsolete.

7.4.11 Certification Regarding Debarment, Suspension, and Other Responsibility Matters

The prospective participant certifies to the best of its knowledge and belief that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and

(d) Have not within a three year period preceding this application/ proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 U.S.C. §1001, a false statement may result in a fine of up to $10,000 or imprisonment for up to 5 years, or both.

Shirley Peck, Town President

Name & Title of Authorized Representative

Shirley Peck

Signature of Authorized Representative Date

____ I am unable to certify to the above statements. Attached is my explanation

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF FUND CASH BALANCES
ALL FUNDS
December 31, 20 11

	General Fund	Fund	Fund	Enterprise Funds: Water Fund	Sewer Fund	Fund	Total
Cash Assets:							
Cash in Checking Accounts	109,123			31,634	22,805		163,562
Change and Petty Cash							
Passbook Savings							
Savings Certificates C.D.'s	84,815						84,815
101 FUND CASH BALANCES (Note 1)	193,938			31,634	22,805		248,377

Municipal funds are deposited or invested with the following depositories:

American Bank & Trust	163,562
Quion Financial Bank	84,815
Total	248,377

Note 1: These amounts must equal the amounts stated on the bottom line of Exhibit II, page 3.

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF RECEIPTS, DISBURSEMENTS AND CHANGES IN FUND CASH BALANCES
ALL FUNDS
For the Year Ended December 31, 20 11

				Enterprise Funds					
	General Fund	Fund	Fund	Water Fund	Sewer Fund	Fund	Fund	Fund	Total
Receipts (Source):									
311 Property Taxes	22,086								22,086
313 Sales Tax	46,608								46,608
316 911 Telephone Surcharge									
311-319 Other Taxes (319)	220								220
320 Licenses and Permits									
331 Federal Grants									66
335.1 Bank Franchise Tax	66								
335.2 Motor Vehicle Commercial Prorate									
335.3 Liquor Tax Reversion									
335.4 Motor Vehicle Licenses (5%)									
335.6 Fire Insurance Premium Reversion									
335.7 Liquor License Reversion									
335.8 Local Government Highway and Bridge Fund	11,909								11,909
338.1 County Road Tax (25%)									
338.2 County Highway and Bridge Reserve Tax (25%)									
338.3 County Wheel Tax									
331-339 Other Intergovernmental Revenue (339)									
341-349 Charges for Goods and Services (341)									
351-359 Fines and Forfeits (351)									
361 Investment Earnings	1864								1864
362 Rentals									
363-369 Other Revenues (369)	12,915								12,915

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF RECEIPTS, DISBURSEMENTS AND CHANGES IN FUND CASH BALANCES
ALL FUNDS
For the Year Ended December 31, 2011
(continued)

				Enterprise Funds					
	General Fund	Fund	Fund	Water Fund	Sewer Fund	Fund	Fund	Fund	Total
ENTERPRISE FUNDS									
380 Enterprise Operating Revenue				39,981	21,997				60,978
Surcharge as Security for Debt									
380.5 Lottery Revenues									
330 Operating Grants									
Total Receipts	95,668			39,981	20,997 21,997				156,646 157,646
Disbursements (Function):									
411-419 General Government (414)	49,963								49,963
421 Police									
422 Fire									
423-429 Other Public Safety (429)									
431 Highways and Streets (includes snow removal & street lights)	13,787								13,787
432 Sanitation (includes garbage & rubble sites)									
437 Cemeteries									
433-439 Other Public Works (435)									
441-449 Health and Welfare (441)									
451-459 Culture-Recreation (451)									
461-469 Conservation and Development (465)									
470 Debt Service									
480 Intergovernmental Expenditures									
491 Miscellaneous									

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF RECEIPTS, DISBURSEMENTS AND CHANGES IN FUND CASH BALANCES
ALL FUNDS
For the Year Ended December 31, 2011
(continued)

				Enterprise Funds					
	General Fund	Fund	Fund	Water Fund	Sewer Fund	Fund	Fund	Fund	Total
ENTERPRISE FUNDS									
410 Personal Services									
420 Other Expenses				45,378	9559				54,937
426 Supplies and Materials									
Total Disbursements	63,750			45,378	9559				118,687
39101 Transfers In				5285					
51100 Transfers Out	5285								
391.2 Money Received From Borrowing									
Subtotal of Receipts, Disbursements and Transfers	26,633			(112)	11,438				37,959
Fund Cash Balance, January 1, 20__ 2012	220,806			31,746	11,367				263,919
Adjustments:									
Adjust to Actual	(53,501)								(53,501)
Restated Fund Cash Balance, January 1, 20__	167,305			31,746	11,367				210,418
FUND CASH BALANCE, DECEMBER 31, 20__	193,938								248,377

Exhibit III

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF CHANGES IN LONG-TERM DEBT
For the Year Ended December 31, 20 11

	General Long-Term Debt			Enterprise	
	General Obligation Bonds	Special Assessment Bonds	Rural Dev Loan Other	Revenue Bonds	Total
Debt Payable, January 1, 2011			198,912.29		
Add New Issues:					
Less Debt Retired			4,036.82		
DEBT PAYABLE, DECEMBER 31, 2011			194,875.47		
	(23101)	(23103)	(23900)	(23102)	

Note: Amounts reported do not include interest.

Exhibit IV

MUNICIPALITY OF _____
STATEMENT OF REVENUES, EXPENSES AND NET INCOME
LIQUOR FUND
For the Year Ended December 31, 20__

	On Sale Operation			Off-Sale Operation			
	Liquor Sales	Beer Sales	Other Sales	Liquor Sales	Beer Sales	Operating Agreements	Total
Lottery Sales							
Other Sales (Net)							
Cost of Sales:							
Inventory, January 1, 20__ (At Cost)							
Purchases (Net)							
Goods Available							
Less Inventory, December 31, 20__ (At Cost)							
Total Cost of Sales							
GROSS PROFIT							
Gross Profit/Cost of Sales							
Operating Expenses:							
Net Operating Income							
Add Nonoperating Revenue							
Operating Transfers In							
Less Nonoperating Expenses:							
Operating Transfers Out							
NET INCOME (LOSS)							

Exhibit I

MUNICIPALITY OF St Lawrence, S.D.
STATEMENT OF FUND CASH BALANCES
ALL FUNDS
December 31, 2012

	General Fund	Fund	Fund	Enterprise Funds: Water Fund	Enterprise Funds: Sewer Fund	Enterprise Funds: Fund	Enterprise Funds: Fund	Enterprise Funds: Fund	Total
Cash Assets:									
Cash in Checking Accounts	95,983.84			(14,377.24)	33,726.67				115,333.27
Change and Petty Cash									
Passbook Savings									
Savings Certificates									
C.D.	85,910.98								85,910.98
C.D.	14,595.81								14,595.81
101 FUND CASH BALANCES (Note 1)	196,490.63			(14,377.24)	33,726.67				215,840.06

Municipal funds are deposited or invested with the following depositories:

American Bank & Trust-Checking	95,983.84
American Bank & Trust-C.D.	14,595.81
Quoin Financial Bank- C.D.	85,910.98
TOTAL	196,490.63

Note 1: These amounts must equal the amounts stated on the bottom line of Exhibit II, page 3.

MUNICIPALITY OF St. Lawrence, S.D.
STATEMENT OF RECEIPTS, DISBURSEMENTS AND CHANGES IN FUND CASH BALANCES
ALL FUNDS
For the Year Ended December 31, 201

					Enterprise Funds			
	General Fund	Fund	Fund	Fund	Water Fund	Sewer Fund	Fund	Total
Receipts (Source):								
311 Property Taxes	21,598.80							21,598.80
313 Sales Tax	25,828.54							25,828.54
316 911 Telephone Surcharge								
311-319 Other Taxes (319)								
320 Licenses and Permits	925.00							925.00
331 Federal Grants								
335.1 Bank Franchise Tax	88.99							88.99
335.2 Port of Entry	2,727.16							2,727.16
335.3 Liquor Tax Reversion	1,398.92							1,398.92
335.4 Motor Vehicle Licenses (5%)								
335.6 Special Highway	6,127.72							6,127.72
335.7 Liquor License Reversion								
335.8 Local Government Highway and Bridge Fund								
338.1 County Road Tax (25%)	557.45							557.45
338.2 County Highway and Bridge Reserve Tax (25%)								
338.3								
331-339 Other Intergovernmental Revenue (339)	44.09							44.09
341-349 Charges for Goods and Services (341)								
351-359 Fines and Forfeits (351)								
361 Earnings on Deposits and Investments								
362 Rentals								
363-369 Other Revenues (369)	2,531.27							2,531.27

MUNICIPALITY OF St Lawrence, S.D.
STATEMENT OF RECEIPTS, DISBURSEMENTS AND CHANGES IN FUND CASH BALANCES
ALL FUNDS
For the Year Ended December 31, 2012
(continued)

				Enterprise Funds					
	General Fund	Fund	Fund	Water Fund	Sewer Fund	Fund	Fund	Fund	Total
ENTERPRISE FUNDS									
380 Enterprise Operating Revenue				11,707.67/18,650.44					
Surcharge as Security for Debt									
380.05 Lottery Revenues									
330 Operating Grants									
Total Receipts	61,822.94			11,707.67/18,650.44					92,181.05
Disbursements (Function):									
411-419 General Government (414)	49,650.41								49,650.41
421 Police									
422 Fire									
423-429 Other Public Safety (429)									
431 Highways and Streets (includes snow removal & street lights)	13,668.94								13,668.94
432 Sanitation (includes garbage & rubble sites)									
437 Cemeteries									
433-439 Other Public Works (435)									
441-449 Health and Welfare (441)									
451-459 Culture-Recreation (451)									
461-469 ~~Conservation and Development (465)~~ Water Project	65,997.00								65,997.00
470 Debt Service									
480 Intergovernmental Expenditures									
490-492 Miscellaneous (492)									

MUNICIPALITY OF St Lawrence, S.D.
STATEMENT OF RECEIPTS, DISBURSEMENTS AND CHANGES IN FUND CASH BALANCES
ALL FUNDS
For the Year Ended December 31, 2012
(continued)

				Enterprise Funds					
	General Fund	Fund	Fund	Water Fund	Sewer Fund	Fund	Fund	Fund	Total
ENTERPRISE FUNDS									
410 Personal Services									
420 Other Expenses				58,781.04	10,180.64				68,961.68
426 Supplies and Materials									
Total Disbursements	129,316.55			58,781.04	10,180.64				198,278.03
39101 Transfers In									
51100 Transfers Out									
391.2 Money Received From Borrowing									
391.07 Capital Contributions (Grants)									
Subtotal of Receipts, Disbursements and Transfers									
Fund Cash Balance, January 1, 20__									
Adjustments:									
Restated Fund Cash Balance, January 1, 20__									
FUND CASH BALANCE, DECEMBER 31, 20__									

Exhibit III

MUNICIPALITY OF St Lawrence, S.D.
STATEMENT OF CHANGES IN LONG-TERM DEBT
For the Year Ended December 31, 2012

	General Long-Term Debt			Enterprise	
	General Obligation Bonds	Special Assessment Bonds	Rural Dev Loan ~~Other~~	Revenue Bonds	Total
Debt Payable, January 1, 2012			194,875.43		194,875.43
Add New Issues:					
Less Debt Retired			4238.09		4238.09
DEBT PAYABLE, DECEMBER 31, 2012			190,637.34		190,637.34
	(23101)	(23103)	(23900)	(23102)	

Note: Amounts reported do not include interest.

Exhibit IV

MUNICIPALITY OF St Lawrence, S.D.
STATEMENT OF REVENUES, EXPENSES AND NET INCOME
LIQUOR FUND
For the Year Ended December 31, 20 12

	On Sale Operation			Off-Sale Operation			
	Liquor Sales	Beer Sales	Other Sales	Liquor Sales	Beer Sales	Operating Agreements	Total
Lottery Sales							
Other Sales (Net)							
Cost of Sales:							
Inventory, January 1, 20__ (At Cost)							
Purchases (Net)							
Goods Available							
Less Inventory, December 31, 20__ (At Cost)							
Total Cost of Sales							
GROSS PROFIT							
Gross Profit/Cost of Sales							
Operating Expenses:							
Net Operating Income							
Add Nonoperating Revenue							
Operating Transfers In							
Less Nonoperating Expenses:							
Operating Transfers Out							
NET INCOME (LOSS)							

FORM RD 1951-9
TY00013301 L19519RD
(06/13)

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL DEVELOPMENT
ANNUAL STATEMENT OF LOAN ACCOUNT

SAVE THIS INFORMATION
FOR INCOME TAX PURPOSES

PAGE 001
DATE 123113

CASE NUMBER 47-030-******6135 FINAL YEAR OF LOAN 2036
FUND CODE 93 LOAN NUMBER 01 DATE OF LOAN 07/02/96 INTEREST RATE 04.8750 AMOUNT OF LOAN 233,400.00

DESCRIPTION	ADVANCES	INTEREST	PRINCIPAL	TOTAL	T	INTEREST RATE	EFFECTIVE DATE
BEGIN LOAN BALNCE		738.40	190,637.34	191,375.74			010113
PAYMENT		789.32	347.68	1,137.00	R	04.8750	010213
PAYMENT		787.88	349.12	1,137.00	R	04.8750	020213
PAYMENT		710.32	426.68	1,137.00	R	04.8750	030213
PAYMENT		784.67	352.33	1,137.00	R	04.8750	040213
PAYMENT		757.94	379.06	1,137.00	R	04.8750	050213
PAYMENT		781.64	355.36	1,137.00	R	04.8750	060213
PAYMENT		754.99	382.01	1,137.00	R	04.8750	070213
PAYMENT		778.59	358.41	1,137.00	R	04.8750	080213
PAYMENT		777.10	359.90	1,137.00	R	04.8750	090213
PAYMENT		750.59	386.41	1,137.00	R	04.8750	100213
PAYMENT		774.01	362.99	1,137.00	R	04.8750	110213
PAYMENT		747.59	389.41	1,137.00	R	04.8750	120213
TOTAL LOAN PMTS		9,194.64	4,449.36	13,644.00			
TOTAL PAID ON ALL LOANS THIS YEAR		9,194.64	4,449.36	13,644.00			

LOAN ACTIVITY 0.00 9,194.64 4,449.36 13,644.00
LOAN BALANCE UNPD INTEREST 721.15 ** UNPD PRIN 186,187.98 **
NXT AMT DUE 1,137.00 DATE DUE 010214
PAYMENT STATUS ON SCHEDULE INT PAID 9,194.64
TAXES PAID
ALL LOAN ACTIVITY 0.00 9,194.64 4,449.36 13,644.00
BORR BAL UNPD INTEREST 721.15 UNPD PRIN 186,187.98
**These unpaid balances may not reflect the total amount due to the Agency at payoff.

RECIPIENT'S/LENDER'S name, street address, city or town, province or state, country, ZIP or foreign postal code, and telephone number

USDA RURAL DEVELOPMENT
PHONE#(314)457-4310
4300 GOODFELLOW BLVD FC-351
ST. LOUIS, MO 63120-1703

CAUTION: The amount shown may not be fully deductible by you. Limits based on the loan amount and the cost and value of the secured property may apply. Also, you may only deduct interest to the extent it was incurred by you, actually paid by you, and not reimbursed by another person.

OMB NO. 1545-0901

2013

Form 1098

☐ CORRECTED (if checked)

Mortgage Interest Statement

RECIPIENT'S federal identification no.: 431757115

PAYER'S social security number: ******6135

1 Mortgage interest received from payer(s)/borrower(s)*: $ 0.00

2 Points paid on purchase of principal residence: $

3 Refund of overpaid interest: $

4 Mortgage insurance premiums: $

5 IRS FORM 1098 DOES NOT APPLY TO YOUR LOAN TYPE. PLEASE SEE IRS INSTRUCTIONS.

PAYER'S/BORROWER'S name, street address, city or town, province or state, country, and ZIP or foreign postal code

ST. LAWRENCE 47-702
PO BOX 37
ST. LAWRENCE, SD 57373

Account number (see instructions)
47030******613593 01

COPY B
FOR PAYER/BORROWER

The information in boxes 1, 2, 3, and 4 is important tax information and is being furnished to the Internal Revenue Service. If you are required to file a return, a negligence penalty or other sanction may be imposed on you if the IRS determines that an underpayment of tax results because you overstated a deduction for this mortgage interest or for these points or because you did not report this refund of interest on your return.

CASH ASSETS:	General Fund	Enterprise Funds Fund	Water Fund	Sewer Fund	Total
Cash/Checking	89,797.17				89,797.17
Passbook Savings	46,396.15				46,396.15
Saving Certificates	90,015.70				90.015.70
Note 1: 101 Cash Fund Balances	226,119.02				226,119.02

Municipal funds are deposited or invested with the following:

American Bank and Trust	150,699.13
Quoin Financial Bank	75,419.89
Total	226,119.02

Exhibit II

MUNICIPALITY OF ST LAWRENCE

Statement of Receipts-Disbursements and changes in Fund Balances

For The Year ending December 31,20

	General Fund	Highway 14 Fund	Enterprise Funds Water Fund	Sewer Fund	Total
311 Property Taxes	23,286.81				23,286.81
313 Sales Tax	69,280.07				69,280.07
319 Penalties and Interest on taxes	81.32				81,32
320 Liquor License	475.00				475.00
335.1 Bank Franchise	110.37				110.37
3352 Port of Entry	1881.94				1881.94
335.4 M.V. Licenses	573.44				573.44
335.9 Special Highway	6,263.09				6263.09
361 Investment Earnings	573.44				573.44
Road Tax Reversion	557.45				557.45
369 Other Revenue	2,746.33				2,746.33
380 Enterprise Fund		10,702.88/19,194.54			
Total Revenue					136,194.54

	Enterprise Funds Water Fund	Sewer Fund
Disbursements(Function):		
411-419 General Government 414	46,483.03	
431 Highway and Streets (Includes Snow Removal & Street Lights)	19,465.25	
TOTAL DISBURSEMENTS:	40,981.95/16,934.90	
		123,865.13

Exhibit I

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF FUND CASH BALANCES
ALL FUNDS
December 31, 2013

	General Fund	Fund	Fund	Enterprise Funds: Water Fund	Sewer Fund	Fund	Fund	Fund	Total
h Assets:									
sh in Checking Accounts	89,797.17		10,702.88	19,194.54					119,694.59
enge and Petty Cash									
ssbook Savings	46,396.15								46,396.15
/ings Certificates	90,015.70								90,015.70
FUND CASH BALANCES	226,209.02								256,106.44
te 1)									

cipal funds are deposited or invested with the following depositories:

American Bank & Trust	150,789.13
Quoin Financial Bank	75,419.89
Total	226,209.02

1: These amounts must equal the amounts stated on the bottom line of Exhibit II, page 3.

2013 Disbursements $123,865.13

General(Insurance Included)	21,865.13
Electricity(Fire Hall)	787.69
Heat	2,864.23
Legal Proceedings	997.37
Street Lights	3,294.85
Snow Removal	2,140.00
Street Maintenance	14,030.40
Payroll	18,895.48
Telephone & Internet	1,032.95
Water Expense	40,981.95
Sewer Expense	16,934.90
Yearly Total	123,865.13

Exhibit III

MUNICIPALITY OF St Lawrence, South Dakota
STATEMENT OF CHANGES IN LONG-TERM DEBT
For the Year Ended December 31, 2014

	General Long-Term Debt			Enterprise	
	General Obligation Bonds	Special Assessment Bonds	Other	Revenue Bonds	Total
Debt Payable, January 1, 2013			191,375.74		191,375.7
Add New Issues:					
Less Debt Retired			13,644.00		13,644.00
DEBT PAYABLE, DECEMBER 31, 2013			186,187.98		186,187.98
	(23101)	(23103)	(23900)	(23102)	

Note: Amounts reported do not include interest.

Exhibit IV

MUNICIPALITY OF _____
STATEMENT OF REVENUES, EXPENSES AND NET INCOME
LIQUOR FUND
For the Year Ended December 31, 20__

	On Sale Operation			Off-Sale Operation			
	Liquor Sales	Beer Sales	Other Sales	Liquor Sales	Beer Sales	Operating Agreements	Total
Lottery Sales							
Other Sales (Net)							
Cost of Sales:							
Inventory, January 1, 20__ (At Cost)							
Purchases (Net)							
Goods Available							
Less Inventory, December 31, 20__ (At Cost)							
Total Cost of Sales							
GROSS PROFIT							
Gross Profit/Cost of Sales							
Operating Expenses:							
Net Operating Income							
Add Nonoperating Revenue							
Operating Transfers In							
Less Nonoperating Expenses:							
Operating Transfers Out							
NET INCOME (LOSS)							

September 3, 2013

BOARD OF TRUSTEES
St LAWRENCE, SOUTH DAKOTA
2014 BUDGET ESTIMATED

RECEIPTS

311 Property Taxes & Interest	27,057
313 Sales Tax	60,000
320 Liquor License	925
335.1 Bank Franchise Tax	89
335.2 Port of Entry	2,750
335.3 Liquor Bev Fund	1,400
335.6 Special Highway	6,127
338.1 County Road Tax(25%)	580
361 Interest Earnings (Investments)	1,529
369 Other Revenues(includes State of SD)	21,169
Enterprise Funds	
Water Revenue	12,800
Sewer Revenue	23,500
	157,926

DISBURSEMENTS

General Government:	
414 Telephone, Legal & Proceedings	14,126
414 Electricity & Heat	8,500
414 Insurance	6,000
414 Payroll	25,000
431 Street Expenses(Lights,Maintenance & Snow Removal)	19,500
Enterprise Funds	
Water	38,000
Sewer	46,800
	157,926

Donna J Roth

Donna J. Roth
Finance Officer

RESOLUTION # 229

Resolution to increase sewer rate for St Lawrence

WHEREAS THE CITY OF ST LAWRENCE, after inspection of the Lagoon, by the Department of Environment and Natural Resourses, was advised that the following repairs were needed: replacing areas where rip-rap is missing, repairing erosion on sides of the cells, and placing gravel on the tops of the berms.

NOW THEREFORE BE IT RESOLVED by the Board of Trustees of St Lawrence, South Dakota, that the sewer rate of the customers served by St Lawrence, will increase from $21.00 (twenty-one dollars) a month to $25.00 (twenty-five dollars) per month, as of September 1, 2013.

Shirley Peck
President of Trustees

ATTEST Donna J Roth
Finance Officer

Terry Naber
Trustee

Richard M Roth
Trustee

Seal

STATE OF South Dakota
COUNTY OF HAND

IT IS HEREBY CERTIFIED THAT THE ABOVE RESOLUTION IS A TRUE AND CORRECT COPY OF THE RESOLUTION ADOPTED THIS 17th DAY OF June, 2013.

Donna J Roth
Finance Officer

RESOLUTION NO. _____

RESOLUTION AUTHORIZING AN APPLICATION FOR FINANCIAL ASSISTANCE, AUTHORIZING THE EXECUTION AND SUBMITTAL OF THE APPLICATION, AND DESIGNATING AN AUTHORIZED REPRESENTATIVE TO CERTIFY AND SIGN PAYMENT REQUESTS.

WHEREAS, the Town of Saint Lawrence (the "Town") has determined it is necessary to proceed with improvements to its Wastewater System, including but not limited to reshape and rip-rap the berm at the wastewater lagoon and also add some gravel to the road leading to the lagoon (the "Project"); and

WHEREAS, the Town has determined that financial assistance will be necessary to undertake the Project and an application for financial assistance to the South Dakota Board of Water and Natural Resources (the "Board") will be prepared; and

WHEREAS, it is necessary to designate an authorized representative to execute and submit the Application on behalf of the Town and to certify and sign payment requests in the event financial assistance is awarded for the Project,

NOW THEREFORE BE IT RESOLVED by the Town as follows:

1. The Town hereby approves the submission of an Application for financial assistance in an amount not to exceed $373,000 to the South Dakota Board of Water and Natural Resources for the Project.

2. The Town President is hereby authorized to execute the Application and submit it to the South Dakota Board of Water and Natural Resources, and to execute and deliver such other documents and perform all acts necessary to effectuate the Application for financial assistance.

3. The Town President is hereby designated as the authorized representative of the Town to do all things on its behalf to certify and sign payment requests in the event financial assistance is awarded for the Project.

Adopted at St Lawrence, South Dakota, this 10th day of March 2014.

APPROVED:
Sherley Peck
Town President
Town of Saint Lawrence

(Seal)
Attest: Donna J. Roth
Finance Officer

St. Lawrence

FACILITIES PLAN

PIERCE & HARRIS
CONSULTING ENGINEERS

31 4TH STREET SE
POST OFFICE BOX 1384
HURON, SOUTH DAKOTA 57350

PHONE: 605-352-5382
TOLL FREE: 1-888-352-5382
FAX: 605-352-5942

Cost Estimate
St Lawerence Waste Water Treatment Site

January 24, 2014

Mobilization	1 Ea	@	$ 33,000.00 =	$ 33,000.00
Berm Shaping	8500 Sq Yds	@	$ 1.00 =	$ 8,500.00
Seeding	1 L S	@	$ 1,500.00 =	$ 1,500.00
Gravel Roadway	2000 Ton	@	$ 18.00 =	$ 36,000.00
Drainage Fabric	5100 Sq Yds	@	$ 3.00 =	$ 15,300.00
Rip Rap	4800 Ton	@	$ 45.00 =	$ 216,000.00

Total Construction	$ 310,300.00
Preliminary Engineering	$25,000.00
Construction Services	$37,000.00
Total Project	$372,300.00

ACEC
MEMBER

NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING
for the
Saint Lawrence Lagoon Improvement Project

The Town of Saint Lawrence is seeking $373,000 of funding from the Board of Water and Natural Resources make improvements to their lagoon system including repair of the berm, rip-rap the lagoon. The funds could be either a grant from the state Consolidated Water Facilities Construction Program or a loan from the Clean Water State Revolving Fund (SRF) Program. The Clean Water SRF loan terms are 3.25% for 30 years, and the Board of Water and Natural Resources may forgive all or a portion of loan principal. The amount, source of funds, and terms will be determined by the Board of Water and Natural Resources when the application is presented at a scheduled board meeting. The purpose of the public hearing is to discuss the proposed project, the proposed financing, and the source of repayment for the loan. The public is invited to attend and comment on the project.

The public hearing will be held at Saint Lawrence City hall on March 10 at 7 pm..

March 10, 2014
Public Hearing
Lagoon Improvement Project
St Lawrence, South Dakota

The Public Hearing , for the St Lawrence Lagoon Improvement Project, was opened at 7 p.m.. Present were Richard Batin, Terry Naber, President Shirley Peck, and Donna J. Roth, Finance Officer. Also attending was Ted Dickey, from NECOG(Northeast Council of Governments), who was present to answer questions because the Town of St Lawrence is seeking $373,000.00 of funding from the Board of Water and Natural Resources, to make improvements to our lagoon system and explain the funding procedure.

The Board of Trustees of St Lawrence, passed a Resolution that designated President Shirley Peck to represent the Board of Trustees and was designated the person to sign any and all papers related to the request for funding.

Peck made a motion to adjourn this hearing and Naber seconded the motion.

Donna J Roth

Donna J Roth
Finance Office

Publish on March 19, 2014 at the approximate cost of _____

- The need for the project; The project is needed to provide adequate wastewater service to the citizens of the Town of St. Lawrence.

- All alternatives that were evaluated, including the cost of each; All alternatives were looked at by the Town of St. Lawrence and their engineer.

- A description of the project; The Town of St. Lawrence is proposing to reshape and rip-rap the berm at the wastewater lagoon and also add some gravel to the road leading to the lagoon.

- The proposed financing for the project; The Town of St. Lawrence is proposing to apply for funding from the South Dakota Department of Environment and Natural Resources for a Clean Water State Revolving Fund.

- The amount of SRF loan expected to be borrowed; Up to $373,000.

- The revenue source pledged for repayment; Clean Water Surcharge Revenue Bonds.

- The interest rate and term of the loan; The loan will be for up to 3.25% at a term no greater than 30 years.

- The effect of the proposed financing on user rates. If the proposed project financing is borrowed at the full amount, rate and term, the wastewater rates would need to increase $23.00 to $48.00 per user per month.

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FACILITY PLAN

WASTE WATER TREATMENT FACILITY

ST LAWRENCE, SOUTH DAKOTA

AUGUST, 2014

ACEC
MEMBER

PURPOSE

The Town of St Lawrence retained Pierce and Harris Engineering to complete an investigation of its existing wastewater treatment facility in response to an inspection on July 27, 2010 by SDDENR. The intent of this investigation is to identify and quantify problems that exist within this system and to make a plan for the necessary upgrades to ensure long facility life and to meet the requirements of their Surface Water Discharge Permit.

EXISTING CONDITIONS

The town of St. Lawrence operates a wastewater treatments facility located approximately ¼ mile north of town in the Northeast 1/4 length ranges in the really while of Section 7, Township 112 North, Range 67 West, in Hand County South Dakota.

Wastewater flows by gravity to a lift station, which pumps water into cell number one. The existing wastewater treatment facility consists of three cells constructed in 1994. Cell one contains 2.02 acres, cell two 1.14 acres, and cell three 1.08 acres all at five foot. The system is operated in series.

This wastewater treatment facility serves a population of 198 people (2010) census. There are no industrial users contributing flow to the system. This population expected to remain fairly stable over the next 20 years. There are 78 contributors to the waste water system.

All of the cells were riprapped with small stone during the original construction.

NEED FOR THE PROJECT

Over time the tops of the dikes have eroded down onto the rip rap and into the ponds. Each time it rains this condition advances. In addition, the tops of the dikes are very slippery after a rain fall or when snow is melting which impedes pond maintenance and operation.

It appears that much of the original rock is in place and there is very minor if any damage to the liner. The real concern is stabilizing the erosion on the tops of the dikes and installing adequate size rip rap which will protect the pond liner and the dikes.

ALTERNATIVES

Alternative one is to place drainage fabric, rip rap the pond inslopes, reshape the top of the dikes so they drain outward and seed them with a grass cover crop to stop the erosion. A small amount gravel will be used to repair the erosion on existing access road.

Alternative two is to place drainage fabric, rip rap on the pond inslopes, reshape the top of the dikes so they drain outward, and cover the tops of the dikes with gravel. Areas disturbed but not graveled would also be seeded.

Most of the original rip rap is in place, however, it is composed of very small rock and does not meet today's standards for rip rap. Much of it along the top of the

dikes has been covered by erosion and there is some damage to the rip rap due to wave action. The proposed riprap and drainage fabric will prevent erosion from degrading the existing liner in the ponds and the reshaping of the top of the dikes to drain outward and seeding or graveling the tops of the dike will minimize erosion from running into the ponds.

Alternate 1 is the preferred option because of lower first cost and better erosion protection and lower future maintenance costs.

FINANCING

The current base sewer rate is $25 per month. There are 78 users contributing to the wastewater facility. The existing wastewater treatment facility is not paid for at this time. The town pays $568.50 monthly for the existing facility.

The 2013 revenue was $20,684.50 while the 2013 expenses were $17,411 leaving a balance to work with the $3273.50. The town board would like to have a grant/loan program which would fit within these parameters with a modest rate increase.

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COST ESTIMATE

WASTE WATER TREATMENT FACILITY IMPROVEMENTS

ALTERNATE 1

August 15, 2014

Mobilitation	1 Ea	@	$33,000.00 =	$33,000.00
Berm Shaping	8500 Sq Yds	@	$1.00 =	$8,500.00
Seeding	1 L S	@	$3,000.00 =	$3,000.00
Top Soil	1000 Yds	@	$8.00 =	$8,000.00
Geavel	100 Ton	@	$18.00 =	$1,800.00
Drainage Fabric	5100 Sq Yds	@	$3.00 =	$15,300.00
Rip Rap	4800 Ton	@	$45.00 =	$216,000.00
	Total Construction			$285,600.00
	Preliminary Engineering			$25,000.00
	Construction Engineering			$37,000.00
	Total Project			$347,600.00

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COST ESTIMATE

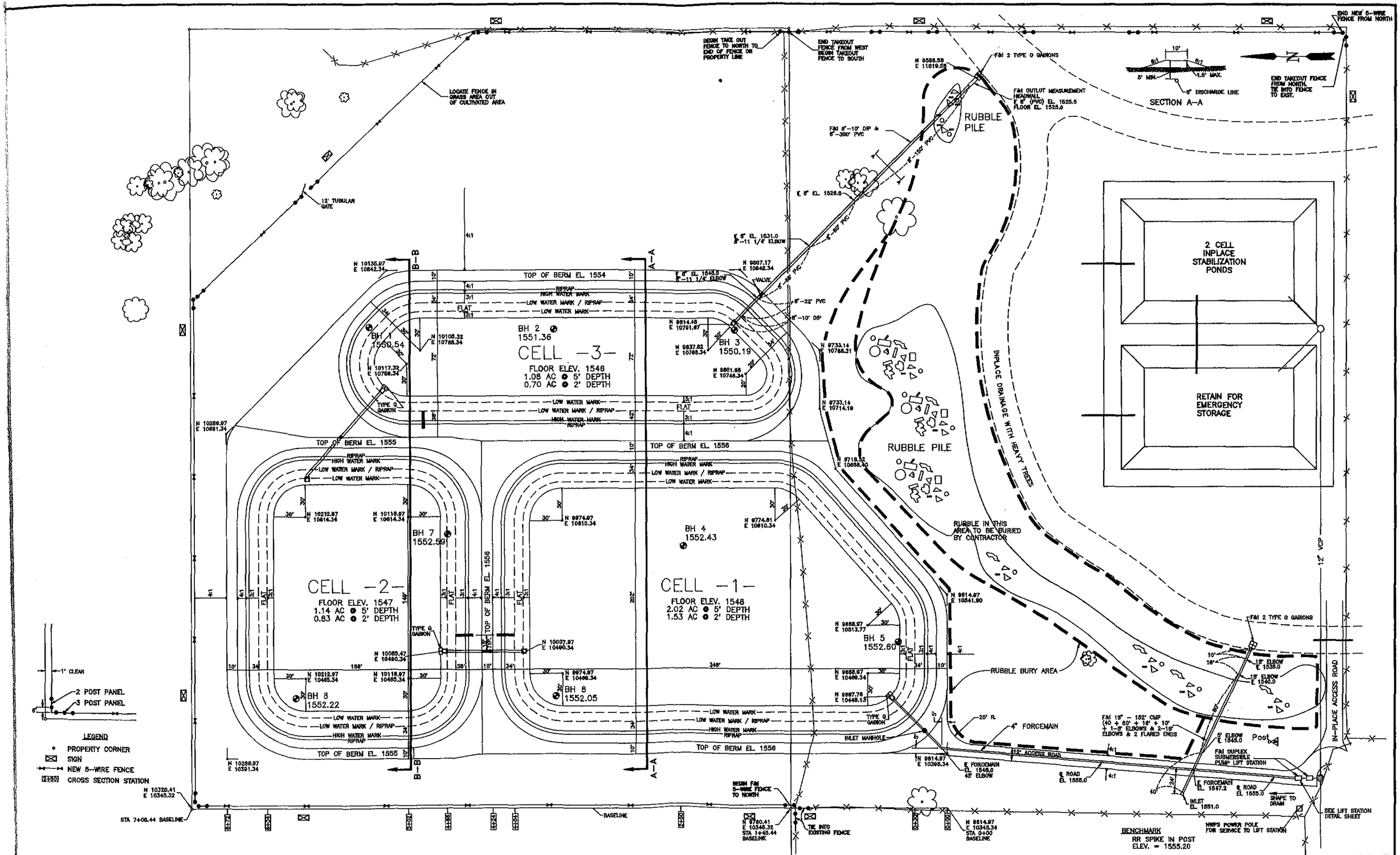
WASTE WATER TREATMENT FACILITY IMPROVEMENTS

ALTERNATE 2

August 15, 2014

Mobilitation	1 Ea	@	$33,000.00 =	$33,000.00
Berm Shaping	8500 Sq Yds	@	$1.00 =	$8,500.00
Seeding	1 LS	@	$1,500.00 =	$1,500.00
Gravel Roadway	2000 Ton	@	$18.00 =	$36,000.00
Drainage Fabric	5100 Sq Yds	@	$3.00 =	$15,300.00
Rip Rap	4800 Ton	@	$45.00 =	$216,000.00
	Total Construction			$310,300.00
	Preliminary Engineering			$25,000.00
	Construction Engineering			$37,000.00
	Total Project			$372,300.00

ACEC
MEMBER



CLARK ENGINEERING CORPORATION

CONSULTING ENGINEERING & LAND SURVEYORS
ABERDEEN / RAPID CITY, SOUTH DAKOTA

DRAWN BY:	CHECKED BY:	REVISIONS:	SCALE:	PROJECT:	SHEET DESCRIPTION:	DATE:	SHEET
KJR	LGA		1" = 40'	1994 ST. LAWRENCE WASTERWATER TREATMENET FACILITY IMPROVEMENTS	POND LAYOUT WITH COORDINATES, FENCING & PIPING	3/94	4 OF 10