Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

May 23, 2008

Tod Fife
1006 View Street
Rock Springs, WY 82935

RE: Fife Small Waste Water Treatment System – Permit Number 08-301R, Section 29, T20N, R105W, Lot 5, Boar's Tusk Subdivision, Sweetwater County

Dear Mr. Fife:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the three bedroom home with a 1,077 sq ft leach field has been reviewed and is hereby approved with the following precaution.

You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

Steve Warner
Reviewer

xc: IPS, Cheyenne
Chuck Sykes, Sweetwater County Environmental Health, 550 Uinta Dr., Suite D, Green River, WY 82935

Encl: General permit for one Small Waste Water Systems

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LAND QUALITY (307) 332-3047 FAX 332-7726
SOLID & HAZARDOUS WASTE (307) 332-6924 FAX 332-7726
WATER QUALITY (307) 332-3144 FAX 332-3183

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John Corra, Director

NOTIFICATION OF COVERAGE

May 19, 2008

Jason Hunzie
1110 Cedar Ave.
Kemmerer, WY 82443

RE: Hunzie Small Waste Water Treatment System – Permit Number 08-302R, Lot 606162, Rolling Hills Subdivision, Lincoln County

Dear Mr. Hunzie:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the four bedroom home with a 1,518 sq ft leach field has been reviewed and is hereby approved with the following precaution.

You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

Steve Warner
Reviewer

xc: IPS, Cheyenne
Michael Archibald, 220 Wyoming Hwy., Kemmerer, WY 83101
Kent Slovernick, 220 Wyoming Hwy., Kemmerer, WY 83101

Encl: General permit for one Small Waste Water Systems

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John Corra, Director

NOTIFICATION OF COVERAGE

June 26, 2008

Donald Davidson
Etna Water and Sewer District
P.O. Box 5031
Etna, Wyoming 83118

RE: Etna - Paradise Valley Subdivision - Water Main Extension - Permit Number 08-304, SW ¼, Section 11, T35N, R119W, Lincoln County

Dear Mr. Davidson:

The above application for coverage under General Permit to Construct the extension of a public water supply distribution system consisting of about 400 feet of 4-inch PVC to serve a 4-lot residential subdivision in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Clarence S. Kemp, Forsgren Associates Inc., 849 Front St., Suite 201, Evanston, WY 82930

encl: General Permit for a Public Water Supply Distribution System,

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WATER QUALITY (307) 332-3144 FAX 332-3183

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 24, 2008

Vince S. Martin
P.O. Box 581
Saratoga, Wyoming 82331

RE: Martin Residential Septic System, Application No. **08-305**
Location: SE¼ NW¼, Section 23, T15N, R83W, Carbon County

Dear Mr. Martin:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **3 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the condition listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific condition also applies:

> Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway **from each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on July 24, 2010. Please reference Application Number **08-305** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0562

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301
John Bergeson, J.B. Backhoe Service, P.O. Box 374, Encampment, WY 82325

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. **08-306** DISCHARGE PERMIT NO. WY0056308

Sheridan County School District No. 1
Bighorn Campus Wastewater Treatment Facility

This permit hereby authorizes the applicant:

Jeremy Smith
P.O. Box 819
Ranchester, WY 82839-0819

to construct, install or modify the Sheridan County School District No. 1 - Bighorn Campus Wastewater Treatment Facility, according to the procedures and conditions of the application number **08-306**. The facility is located in the SW1/4 of Section 4, Township 54N, Range 84W, further located in the City of Bighorn, Wyoming, in Sheridan County. All construction, installation, or modification allowed by this permit shall be completed within one year of issuance.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 3 The applicant will provide immediate oral or written notice to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

8-20-08
Date of Issuance

KLF/rm/8-0618

cc: James Nickleson, Morrison Maierle, Inc., P.O. Box 1113, Boxeman, MT 59771

STATEMENT OF BASIS

1. Permit Number: **08-306**

2. Application reviewed for compliance with the following applicable regulations :

   Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations

3. Does the permit comply with all applicable regulations identified above?

   YES

   The permit approval is based upon a deviation from applicable regulations in accordance with Section 5 of Chapter 12

4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.

   The permit includes the use of an advanced wastewater treatment system (AdvanTex by Orenco) that has been previously permitted by WDEQ and used successfully for wastewater treatment projects.

5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.

6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Karen L. Farley and completed on August 14, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

Dave Freudenthal, Governor

Department of Environmental Quality

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John Corra, Director

NOTIFICATION OF COVERAGE

May 14, 2008

Joseph Hill
691 Hwy. 20 North
Thermopolis, WY 82443

RE: Hill Small Waste Water Treatment System – Permit Number 08-307, Section 6, T43N, R94W, Hot Springs County

Dear Mr. Hill:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the three bedroom home with a 634 sq ft leach field has been reviewed and is hereby approved with the following suggestions and precaution.

1. On the submitted drawing there is no indication of a replacement area for the leach field. Looking over the drawing there appears to be adequate space between the trenches for a future replacement field. Your permit has been approved with the understanding that this space will be utilized at some future date when the need arises.

2. Daily sewage flows do not require the use of a 1500 gallon septic tank for a three bedroom home. The owner has the option of using a smaller 1000 gallon tank, if so desired.

3. Norwesco septic tanks should be tested for structural integrity by filling the tank with water during burial and immediately after pumping. Also, the manways (one on each compartment) must be extended to the ground surface because no clean-outs are provided.

You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

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SOLID & HAZARDOUS WASTE (307) 332-6924 FAX 332-7726
WATER QUALITY (307) 332-3144 FAX 332-3183

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

Steve Warner
Reviewer

xc: IPS, Cheyenne
Lee Campbell, Hot Springs County, 415 Arapahoe St., Thermopolis, WY 82443

Encl: General permit for one Small Waste Water Systems

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

ERMIT NO. 08-308R

Targhee Landing - Water and Sewer Infrastructure Improvements
PWS # WY5601021

This permit hereby authorizes the applicant:

WYO/MCS LLC
Mary McSorley
P.O. Box 7545
Jackson, WY 83002

to construct a public water supply distribution system consisting of pitless unit, well house and distribution mains along with a sewer collection main system with lift station to serve an 85 unit PUD residential subdivision according to the procedures and conditions of the application number **08-308R.** The facility is located about 1 ¼ miles northwest of the Town of Alpine at SWNW ¼ and SENW ¼ Section 20,T37N, R118W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 22, 2010.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when onstructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit.

This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 5 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer,510 Meadow View Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and
b. Date that the facility was placed in operation; and
c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 of 5 Water quality data such as that for bacteriological contaminants, inorganic contaminants (IOC), volatile organic contaminants (VOC), synthetic organic contaminants (SOC) and radionuclide contaminants must be submitted before any new water well is put into service. The well water quality must be in compliance with the United States Environmental Protection Agency (USEPA) National Primary Drinking Water Standards.

4 of 5 Sewage will be disposed of either through a septic system or through the connection to the Town of Alpine's sewage treatment plant. In either case a second permit is required.

5 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

7/23/08
Date of Issuance

John V. Corra
Director
Department of Environmental Quality

MDB/rm/8-0557

STATEMENT OF BASIS

1. Permit Number: 08-308R

2. Application reviewed for compliance with the following regulations:

   Chapters 3, 11 and 12 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   Yes.

4. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Not Required.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mbaron@state.wy.us, Southwest District Engineer and completed on July 2, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Robert T. Ablondi, P.E., Rendezvous Engineering, P.C., P.O. Box 4858, Jackson, WY 83001

The State
of Wyoming

Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

May 14, 2008

Ken Muller
Sheridan County
224 South Main Street, Suite B8E
Sheridan, WY 82801

RE: Sheridan County Road 122 Dust Control Pilot Project, Permit # 08-309

Dear Mr. Muller:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Pilot Project in accordance with Section 5, Chapter 11, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

The following items need to be submitted to WDEQ/WQD CBM Group:

a. Date that the road application was completed; and

b. Certification the road application was done in accordance with the terms and conditions of the permit; or

   Certification the road application was completed with changes or modifications. Submit the information necessary to clearly indicate the road application as actually performed. This information shall include a contour map depicting only those sections of road where produced CBM water was used in the construction.

c. Only brine water generated by an EMIT water treatment plant shall be used for this project.

d. Use of brine water shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs. No brine water will be allowed to run off project roads.

e. Only the roads designated in this permit are authorized for application of the brine water. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the WQD.

Please notify WDEQ at least one week prior to applying brine water to roads. If you have any questions, please contact Kim Medina at 152 North Durbin, Casper, WY, 82601, (307) 473-3476 or kmedin@state.wy.us . Thank you.

Sincerely,

Kim J. Medina
Geological Project Analyst
DEQ/WQD

cc: IPS Cheyenne

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

July 14, 2008

Paul Kauchich
City of Rock Springs
212 D Street
Rock Springs, WY 82901

RE: A New Facility for YWCA Daycare; Permit Number 08-310, SW1/4 Section 27, T19N, R105W, Rock Springs, Sweetwater County, Wyoming

Dear Mr. Kauchich:

The application for coverage under General Permits to Construct water main extensions consisting of 35 feet of 6 inch PVC with fire hydrant and 300 feet 4 inch PVC extensions serving the new facility for YWCA Daycare located in Rock Springs in accordance with Chapter 3, Section 7, Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Perry Roberson
Engineering Consultant
Water Quality Division

Mark Baron P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Amy Allen, JFC Engineers and Surveyors, 1515 Ninth Street, Rock Springs, WY 82901

encl: General Permit for a Public Water Supply Distribution System,

Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 4, 2008

Tim Horst
352 Sage Creek Road
P.O. Box 341
Rawlins, Wyoming 82301

RE: Horst Residential Septic System, Application No. **08-311**
Location: NW¼, Section 31, T21N, R87W, Carbon County

Dear Mr. Horst:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **5 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Minimum Leachfield Size - a small error was made when calculating the percolation rate which resulted in the calculated required minimum infiltrative surface area being too small. This has been accounted for with the following result: **a minimum of 33 *Infiltrator* Brand, EQ36 Model chamber units shall be installed** in four separate trenches. This will add one extra chamber unit to each trench beyond the submitted plan of 29 units.

2. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway **from each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 4, 2010. Please reference Application Number **08-311** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0442

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301
John Kurtz, Sage Creek Excavating, P.O. Box 102, Rawlins, Wyoming 82301

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER
WYOMING WATER QUALITY RULES AND REGULATIONS
CHAPTER 16

CLASS V INJECTION WELL

( ) New
(X) Modified

Permit Number UIC **08-312**
(Reference permit no. 07-542)
UIC Facility Number WYS-033-00252

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: Beneterra, LLC
1415 N. Main Street
Sheridan, WY 82801
(307) 673-0607

Beneterra, LLC, hereafter referred to as the permittee, is authorized to operate the proposed Class V (5F2) Subsurface Drip Irrigation (SDI) Project known as the Dutch Creek North in Sections 13, 24, and 25, Township 56 North, Range 83 West, and Sections 18, 19, 20, and 29, Township 56 North, Range 82 West, 6th Principal Meridian, Sheridan County, according to the procedures and conditions of application 08-312 and requirements and other conditions of this area permit.

This permit shall become effective on date of issuance.

John Wagner, Administrator
Water Quality Division
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002
(307)-777-7781

6/27/08
Date

John V. Corra, Director
Department of Environmental Quality
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002

6/27/08
Date

UMW/rm/8-0506

Table of Contents

A. Discharge Zone 3

B. Well and Area of Review 3

C. Groundwater Classification 5

D. Authorized Operations 5

E. Hazardous Waste 5

F. Proper Operation and Maintenance 5

G. Entry and Inspection 6

H. Environmental Monitoring Program for Groundwaters of the State 6

I. Requirements for Monitoring the Discharge 7

J. Test Procedures 10

K. Records and Reports 11

L. Permit Actions 11

M. Abandonment 11

N. Duties of the Permittee 12

O. Signatories Requirement 12

P. Noncompliance 13

Q. Permit Transfer 13

R. Property Rights 13

S. Severability 14

A. Discharge Zone

The Dutch Creek North Project is authorized to inject into the alluvial deposits adjacent to Dutch Creek, an intermittent stream in northern Sheridan County. Dutch Creek is a tributary to Prairie Dog Creek.

B. Well and Area of Review

The injection wells associated with the Dutch Creek North Project authorized by this area permit are located as follows:

There are 21 irrigated fields associated with this project located in parts of sections 13, 24, and 25, Township 56 North, Range 83 West, and sections 18, 19, 20, and 29, Township 56 North, Range 82 West, 6th Principal Meridian. Each of these fields is authorized as an injection well. The locations of the approximate center of each field are listed in Table 1 below. Maps showing the project location and the layout of the irrigated fields are presented in Figures 1 through 6 of the "Application for Underground Injection Control Permit for Dutch Creek North Subsurface Drip Irrigation Project". The injectate will be sampled at the surge pond which is located in the NWSWSE of section 18, Township 56 North, Range 83 West, 6th Principal Meridian.

Table 1: Field Locations

Field Identification	Location of Field Center
B-1	NWSWNE, Section 13, T. 56N, R. 83W
B-2	SENESE, Section 13, T. 56N, R. 83W
B-3	SESESW, Section 18, T. 56N, R. 82W
B-4	NESWNE, Section 19, T. 56N, R. 82W
B-5	NWSWSW, Section 20, T. 56N, R. 82W
B-6	SWNENW, Section 29, T. 56N, R. 82W
P-1	NENWNW, Section 19, T. 56N, R. 82W
P-2	SWNESW, Section 19, T. 56N, R. 82W
P-3	SWSWNE, Section 19, T. 56N, R. 82W
P-4	NESESE, Section 19, T. 56N, R. 82W
P-5	SWSWSW, Section 24, T. 56N, R. 83W
P-6	SENESE, Section 24, T. 56N, R. 83W
F-1	NENWNW, Section 24, T. 56N, R. 83W
F-2	SWNWNE, Section 24, T. 56N, R. 83W
F-3	NESENW, Section 24, T. 56N, R. 83W
F-4	SESESW, Section 24, T. 56N, R. 83W
F-5	NWNWNE, Section 25, T. 56N, R. 83W
F-6	SENWSE, Section 24, T. 56N, R. 83W
F-7	NESESE, Section 24, T. 56N, R. 83W
F-8	NWSENE, Section 24, T. 56N, R. 83W
F-9	NENENE, Section 24, T. 56N, R. 83W

The Area of Review around these systems is described as follows:

The area of review includes all portions of the aquifer which will be affected in a measurable way within ten years of granting the permit. The Dutch Creek North area of review was calculated based on the following:

- Direction of groundwater flow;
- Proximity of the project to hydrologic boundaries (i.e., bedrock outcrops and subcrops, Dutch Creek, etc.); and
- Monthly water balance calculations.

The water balance calculations were computed for each of the 21 proposed fields on a monthly basis for the ten year duration of the operation and included the following assumptions:

- Monthly precipitation rates based on historical data from Sheridan, Wyoming,
- Average vadose zone thickness and porosity for each field based on observations made during site investigation,
- Monthly evapotranspiration rates of the irrigated crop estimated using the Blaney-Criddle method,
- Monthly irrigation rates specific to each field,
- Average water holding capacity,
- Average rooting zone depth, etc.

Detailed explanation of the water balance calculations and assumptions is presented in the "Application for Underground Injection Control Permit for Dutch Creek North Subsurface Drip Irrigation Project" and "Modification to Underground Injection Control Permit #07-542".

The Area of Review around these systems is described as follows:

- SESWSW, S ½ of SESW, SWSWSE, Section 12, Township 56 North, Range 83 West;
- NENWNW, SENWNW, NESWNW, SESWNW, NENW, SENW, NWNE, SWNE, SENE, SWNENE, NWNESW, NENESW, SESESW, SWSESW, SESWSW, SWSWSW, NWSE, NESE, SESE, SESWSE, SWSWSE, Section 13, Township 56 North, Range 83 West;
- SESESE, Section 14, Township 56 North, Range 83 West;
- NENENE, SENENE, Section 23, Township 56 North, Range 83 West;
- NE, SE, NENW, NWNW, SENW, NWSWNW, NESWNW, SESWNW, NESW,SESW, NENWSW, SENWSW, NESWSW, SESWSW, Section 24, Township 56 North, Range 83 West;
- NWNENWNENE, SWNENE, NENENE, NESWNE, NESWNE, NENENW, NWNENW, SENENW, Section 25, Township 56 North, Range 83 West;
- NWSWNW, SWSWNW, NWNWSW, SWNWSW, SENWSW, SWNENW, SENWSW, SWSW, SESW, SWNWSE, SWSESE, SWSESE, Section 18, Township 56 North, Range 82 West;
- NWNW, NENW, SENW, NWNE, SWNE, SENE, NWNENE, SWNENE, NWSE, NENS, SESE, NESWSE, NWSWSE, SESWSE, SWSW, NWSW, SWSESW, NWSESW, Section 19, Township 56 North, Range 82 West;
- SWSWNW, SESWNW, SWSENW, NWSW, SWSW, SESW, NWNESW, SWNESW, Section 20, Township 56 North, Range 82 West;
- NWNWNW, NENWNW, SENWNW, NENW, SENW, NESWNW, SWSWNE, NWNWSE, NENESW, NWNESW, Section 29, Township 56 North, Range 82 West;

6th Principal Meridian.

C. Groundwater Classification

Data from thirty monitoring wells were used to characterize the groundwater for the original Dutch Creek North permit (07-542) along with the additional groundwater data included in this permit application. Water quality analyses indicate the groundwater beneath the proposed operation is a mixture of Class III and Class IV in accordance with Wyoming Water Quality Rules and Regulations, Chapter 8. Ambient water quality exceeds Class I and Class II standards for TDS and Sulfate (Table 1- Chapter 8) in all groundwater quality samples.

Class IV groundwater was identified in six samples: Three groundwater samples exceeded Class III TDS limits of 5000 mg/l and three groundwater samples exceeded standards for mercury. Of the three that exceeded TDS limits, two are immediately adjacent to Dutch Creek with relatively shallow monitoring well completions (20-40 ft bgs); the third is located in an ephemeral tributary and has a relatively deep completion (70-100 ft bgs). Of the three that exceeded Mercury limits, two were previously classified in impoundment studies for the Helvey #2 and the Many Flowers reservoirs. The remaining Class IV due to Mercury has a TDS of 4170 mg/l. Three of the class IV wells will be part of the on-going compliance monitoring program.

D. Authorized Operations

The permittee is authorized to inject 2.418 million gallons per day of produced coalbed methane water through the Dutch Creek North Project. The produced water originates from coal bed methane wells completed in the Smith, Dietz 1, Dietz 3, Monarch and Carney coal seams. Water migrating from the drip irrigation system shall not enter into Dutch Creek or any of its tributaries.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes: effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

The facilities covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapter 16. A "UIC Construction Notification" form (available on the WDEQ's groundwater website at http://deq.state.wy.us/wqd/groundwater/index.asp) shall be submitted to the Groundwater program in Sheridan upon completion of construction of all or any portion of the project prior to placing that portion of the project into operation. The operator shall also submit detailed "as-built" drawings of the facility upon completion. The drawings shall include all surge ponds, piping, manifolds, a general layout of the drip tape, etc.

The permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the

Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until the permit is approved, construction of that well is complete and WDEQ/WQD has either inspected the well or waived its option to inspect the well.

G. Entry and Inspection

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

H. Environmental Monitoring Program for Groundwaters of the State

General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the 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 (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.

3. The permittee shall use electronic data deliverable (EDD) reporting when required by the Department.

4. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;
   b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
   c. The date(s) analyses were performed;
   d. The time(s) analyses were initiated;
   e. The initials or name(s) of the individual(s) who performed the analyses;
   f. References and written procedures for the analytical techniques or methods used;
   g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.

5. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

6. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified decommissioning procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.

7. The permittee shall report any noncompliance which may endanger health or the environment within 2 hours from the time the operator becomes aware of the circumstances. The report should include:

a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
c. A written submission shall be provided within 5 days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

8. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.

9. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 30 days following each schedule date.

I. Requirements for Monitoring the Discharge.

1. The permittee shall monitor the quantity and quality of the injected fluid on the schedule listed in Table 2 below.

Table 2: Injected Fluid Monitoring Schedules

Sampling and Reporting Schedule	Parameter Analyzed	Analytical Method	Permit limit or UCL*
Quarterly 12/31; 3/31; 6/30; 9/30	Total Volume discharged to each field (B-1, B-2, B-3, B-4, B-5, B-6, P-1, P-2, P-3 P-4, P-5, P-6, F-1, F-2, F-3, F-4, F-5, F-6, F-7, F-8, F-9)	Duration of flow, pressure and valve capacity	The volume of flow from all ten fields combined shall not exceed 2.814 million gallons/day
Annually 12/31	Total Dissolved Solids (sample to be collected at the surge pond)	EPA 160.1	5,000 mg/L

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2. The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in Table 3.

Table 3: Groundwater Monitoring Schedules

WELL NAME OR NUMBER	SAMPLING SCHEDULE	REPORTING SCHEDULE (DUE DATE)	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT
All wells[1]	Monthly	Quarterly (3/31; 6/30; 9/30; 12/31)	Depth to static water (ft)	Steel tape with chalk or electronic tape	None (tracking purposes: surface water protection)
All Class III wells[2]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Total Dissolved Solids	EPA 160.1	5,000 milligrams/liter
MW4-19, MW16A-19, R4-24-56-83	Quarterly	Quarterly (12/31)	Total Dissolved Solids	EPA 160.1	10,000 milligrams/liter
All Class III wells[2]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sulfate	EPA 300.0	3,000 milligrams/liter
MW4-19, MW16A-19, R4-24-56-83	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sulfate	EPA 300.0	None (tracking purposes: surface water protection)
All wells[1]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Bicarbonate and Carbonate	SM 2320B	None (tracking purposes: surface water protection)
All Class III wells[2]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Chloride	EPA 300.0	2,000 milligrams/liter
MW4-19, MW16A-19, R4-24-56-83	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Chloride	EPA 300.0	None (tracking purposes: surface water protection)
All wells[1]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sodium, Magnesium and Calcium	EPA 200.7	None (tracking purposes: surface water protection)
All wells[1]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Electrical Conductivity	SM 2510B	None (tracking purposes: surface water protection)
All Class III wells[2]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	pH	EPA 150.1	6.5 – 8.5 standard units
MW4-19, MW16A-19, R4-24-56-83	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	pH	EPA 150.1	None (tracking purposes: surface water protection)
All wells[1]	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sodium Adsorption Ratio	Calculation	None (tracking purposes: surface water protection)

[1] "All wells" includes: MW10-13, MW3-13, MW9-13, MW4-19, MW10-19, MW7-19, MW3-19, MW16A-19, R4-24-56-83, MW2-24, MW1-24, MW3-24.
[2] "All Class III wells" includes all of the above except: MW4-19, MW16A-19 and R4-24-56-83.

3. No water from this facility shall reach any surface water, including ephemeral drainages. The surface water shall be sampled and the following parameters analyzed according to the schedule identified in Table 4. The reach of Eyechaner Draw shall be visually inspected on a monthly basis for seeps from the facility. The point of inspection shall begin upstream of the most upstream active field and extend downstream on Eyechaner Draw to its confluence with Dutch Creek. For example, if field F-3 is active and fields F-4 through F-7 are not active then the inspection shall begin above field F-3. Any seeps shall be documented and reported to the WDEQ immediately.

Table 4: Surface Water Monitoring Schedules

SURFACE WATER STATION NAME OR NUMBER	SAMPLING SCHEDULE	REPORTING SCHEDULE (DUE DATE)	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT OR UCL*
Eyechaner Draw as described above	Monthly	Quarterly 3/31; 6/30; 9/30; 12/31	Visual inspection for surface seepage	Visual	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Monthly	Quarterly 3/31; 6/30; 9/30; 12/31	Surface water elevation	Survey or Staff Gage	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Flow	USGS accepted method	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Total Dissolved Solids	EPA 160.1	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Sulfate and Chloride	EPA 300.0	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Alkalinity as Bicarbonate and Carbonate	SM 2320B	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Sodium, Magnesium and Calcium	EPA 200.7	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Electrical Conductivity	SM 2510B	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Sodium Adsorption Ratio	Calculation	None (tracking purposes: surface water protection)
DCSW-1, DCSW-2, DCSW-3, DCSW-4.	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	pH	EPA 150.1	None (tracking purposes: surface water protection)

4. If construction and operation of fields proceeds in a staged manner, the monitoring locations associated with that field shall be sampled during the first quarterly event after construction of the field. The operator shall notify the WDEQ upon construction of each field by completing and submitting the "Underground Injection Control Notification of Completion of Construction of Injection Well" form. Table 5 lists which monitoring locations shall be monitored after construction of the field.

Table 5: Field Monitoring Locations

Field Identification	Monitoring Locations
B-1	MW3-13, MW10-13
B-2	MW9-13
B-3	MW4-19
B-4	MW3-19, MW7-19, MW10-19
B-5	MW16A-19, MW10-19
B-6	MW16A-19
P-1	MW4-19, DCSW-3
P-2	MW3-19, DCSW-3
P-3	MW7-19, DCSW-2
P-4	MW10-19, DCSW-1
P-5	No groundwater monitoring
P-6	No groundwater monitoring
F-1	R4-24-56-83
F-2	MW2-24, MW3-24, DCSW-4
F-3	MW3-24, inspection of Eyechaner Draw
F-4	MW2-24, inspection of Eyechaner Draw
F-5	MW1-24, inspection of Eyechaner Draw
F-6	MW1-24, inspection of Eyechaner Draw
F-7	No groundwater monitoring
F-8	MW1-24, inspection of Eyechaner Draw
F-9	MW4-19, DCSW-3

All chemical parameters listed in this permit are expressed in mg/L unless otherwise noted. The parameter pH is expressed in standard units. The permittee shall use the above listed analytical methods unless an alternate method is first approved by the Water Quality Division.

Failure to perform and report analyses in accordance with the prescribed schedule and method is a violation of this permit.

The requirements for monitoring the discharge, groundwater and surface water listed in Table 2, Table 3, and Table 4 shall be submitted to the following address: WDEQ, Groundwater Program, UIC Coordinator, Herschler Building 4W, 122 West 25th Street, Cheyenne, Wyoming. A copy of the data shall also be supplied to the WDEQ, Sheridan field office at the following address: WDEQ, Groundwater Program, 1866 South Sheridan Ave., Sheridan, WY 82801.

J. Test Procedures

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. All samples taken shall include a trip blank of distilled water for each sampling date and a duplicate sample at least once per year. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

K. Records and Reports

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Reports of compliance or noncompliance with, and any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted no later than thirty (30) days following each schedule date. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

L. Permit Actions

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to any of the following:

1. Violation of this permit; or

2. Obtaining a permit by misrepresentation of facts in the application.

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

M. Abandonment

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.

2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.

3. The injection systems covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12. Groundwater monitoring wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 11, Part G.

N. Duties of the Permittee

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions, other than authorized operation and maintenance, to the permitted facility and receive authorization prior to implementing the proposed alternation or addition. The permittee shall furnish the Administrator within a reasonable time any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit. Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application. The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

If any cultural materials are discovered during construction, work in the area should halt immediately. The Administrator and the Wyoming State Historic Preservation Office shall be contacted (777-7697) and the materials shall be evaluated by an archaeologist or historian meeting the Secretary of the Interior's Professional Qualification Standards (48 FR 22716, Sept. 1983).

O. Signatories Requirement

All reports filed in conjunction with this permit shall contain 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."

All reports required by this permit and other requested information shall be signed as follows:

<u>For a corporation</u> – by a principal executive officer of at least the level of vice-president;

<u>For a partnership or sole proprietorship</u> – by a general partner or the proprietor, respectively;

For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the prescribed principals;

2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Administrator prior to or together with any reports or information, to be signed by the new authorized representative.

P. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

The filing of any 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.

Q. Permit Transfer

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator and the Director. No transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit. The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

R. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege. This permit does not authorize injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

S. Severability

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

UMW/rm/8-0506

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: 08-312

B. Facilities Covered: The Beneterra, LLC., Dutch Creek North (subsurface irrigation system) is located adjacent to Dutch Creek (an intermittent drainage) in northern Sheridan County, Wyoming. These facilities will inject produced coal bed methane water into the alluvial and colluvial deposits at depths up to 10 feet. The system is designed to inject up to a capacity of 2.418 million gallons per day. Because of the nature of this water, the permit has been written to allow up to this capacity.

C. Class of Facility: 5F2 (Under Chapter 16)

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter 8	Yes	D. Chapter 12	No
B. Chapter 9	No	E. Chapter 13	No
C. Chapter 11	Yes	F. Chapter 16	Yes

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

Yes

B. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

NOT Applicable

V. Application requires review to determine groundwater impacts in accordance with Wyoming Water Quality Rules and Regulations Chapters 8 and 16. Groundwater beneath this proposed facility is classified as a mixture of Class IV and Class III. Groundwater monitoring is proposed for this site to protect groundwater and surface water. This permit provides for a total flow capacity of 2.418 million gallons per day.

VI. Documentation of Statement of Basis.

A. The archive file for this permit will include adequate documentation of all sections of this Statement of Basis.

VII. Applicant and Public Participation

A. The applicant has been provided with a draft permit prior to the permit being issued.

B. A Public Notice has been issued with a public notice period May 26, 2008 and ending on June 24, 2008. (Thirty day notice is required by Chapter 16.) This notice was published in the Casper Star Tribune on or before the start of the public comment period.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Ursula Williams, P.G # 1503, Groundwater Program, North District Geologic Project Analyst, and completed on May 19, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

UMW/rm/8-0506

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 08-313R

Kelly Campus - Teton Science School Storage Tanks, Pump Station & Water Mains

This permit hereby authorizes the applicant:

Gary Danczyk, P.E., Chief of Planning & Project Manager
Grand Teton National Park
P.O. Box 170
Moose, WY 83012

to construct a new booster pump house with hypochlorination, install two 30,000-gallon fiberglass storage tanks, and install approximately 1,750 linear feet of 6-inch water main with five fire hydrants; according to the procedures and conditions of the application number **08-313R.** The facility is within S ½, Section 24, T43N, R115W in the county of Teton, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 30, 2010.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

6-18-08
Date of Issuance

JSB/rm/8-0475

STATEMENT OF BASIS

1. Permit Number: 08-313R

2. Application reviewed for compliance with the following regulations:

   Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above? Yes.

4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.

   No.

5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Public water supply systems are exempted from review by Chapter 3, Section 17

6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by James S. Brough, Northwest District Engineer, and completed on June 16, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

Cc: Aaron Japel, P.E., Jorgensen Associates, P.C., P.O. Box 9550, Jackson, WY 83002

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 30, 2008

Allan Beerkircher
23 Indian Hills Lane
P.O. Box 722
Encampment, Wyoming 82325

RE: Allan Beerkircher: Lot 6 Block 1 Indian Hills Estates — Residential Septic System, Application No. **08-315**

Location: SE¼, Section 6, T14N, R83W, — Carbon County

Dear Mr. Beerkircher:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **3 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the condition listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific condition also applies:

> Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway **from each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on July 30, 2010. Please reference Application Number **08-315** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0579
Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Acting Planning Director, Kristy Rowan, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301
John Bergeson, J.B. Backhoe Service, P.O. Box 374, Encampment, WY 82325

Department of Environmental Quality

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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

May 20, 2008

Mayor Phyllis McWhorter
Town Of Sinclair
PO Box 247
Sinclair, WY 82334

RE: 2008 Sinclair Water, Sewer and Street Project
Application No. **08-316**

Dear Mayor McWhorter:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and Existing Sewage Collection Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

The approval granted under this Notification Of Coverage and the General Permit shall expire on October 1, 2009. Please reference Application Number **08-316** in any future correspondence.

If you have any questions, please contact me at (307) 777-6371.

Sincerely,

Brian Mark

Brian Mark
Staff Engineer
Water Quality Division

BDM/rm/8-0392

Enclosures: GENERAL PERMIT - Extensions/Modifications of Existing Public Water Supply Distribution Systems
GENERAL PERMIT - Extensions/Modifications of Existing Sewage Collection Systems
Certificate of Completion form

cc: Gary Steele, PMPC, PO Box 370, Saratoga, WY 82331

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

May 28, 2008

Mr. Herman Noe
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003

RE: D3B SUBDIVISION, Application No. **08-317**, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and of Existing Sewage Collection Systems described as water and sewer lines, NW1/4 Section 27 T14N R66W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by January 11, 2012.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-317** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon

Louis B. Harmon PE-PG
Southeast District Engineer
Water Quality Division

LBH/rm/8-0408

cc: IPS, Cheyenne

Kelly W. Hafner, Benchmark Engineers,PC; 1920 Thomes Ave.,Cheyenne, WY 82001

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

July 17, 2008
Amy M. Allen
JFC Engineers & Surveyors
1515 Ninth Street
Rock Springs, WY 82901

RE - Wexpro 1955 Blairtown Road

Dear Amy Allen:

Your permit application materials are being returned as requested in the response letter to review comments from the Wyoming Department of Environmental Quality sent July 10, 2008. According to Chapter 3 of the Water Quality Rules and Regulations Section 9(a)(B),If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned.

The specific information for your proposed project is as follows:

Facility Name: Rock Springs - Wexpro 1955 Blairtown Road
DEQ/WQD Reference Number: #08-318
DEQ/WQD Reviewing Engineer: Perry Roberson, Consulting Engineer
Date of DEQ/WQD Review: July 10, 2008

The construction, installation, or modification of any sewerage system, treatment works, disposal system including septic systems, or other facility capable of causing or contributing to pollution, or public water supply system including water mains, water wells, water services greater than 2-inch in diameter or other facilities without a Permit to Construct, is a violation of Wyoming State Statute 35-11-301.

If you have any questions regarding my review comments or this letter, please contact me at 307-335-6962.

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • http://deq.state.wy.us

ABANDONED MINES (307) 332-5085 FAX 332-7726
AIR QUALITY (307) 332-6755 FAX 332-7726
LAND QUALITY (307) 332-3047 FAX 332-7726
SOLID & HAZARDOUS WASTE (307) 332-6924 FAX 332-7726
WATER QUALITY (307) 332-3144 FAX 332-3183

Sincerely,

Perry Roberson

Perry Roberson, Consulting Engineer
Department of Environmental Quality/WQD

PDR/pdr

Enclosure: Permit Application Package 08-318

xc:

Questar-Wexpro, 180 East 100 South, Salt Lake City, UT 84111

IPS

file (3)

08-319

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

January 7, 2009

Douglas D. McKenzie
P.O. Box 689
Mountain View, Wyoming 82939

RE - Big Pee Storage Tank Facility

Dear Mr. McKenzie:

Your permit application materials are being returned since no written response has been received as requested in the Wyoming Department of Environmental Quality's July 3, 2008 permit application review letter. According to Chapter 3 of the Water Quality Rules and Regulations Section 9(a)(B),If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned.

Our Records indicate that a written review was done on the following project. A copy of this review was sent to you, requesting additional information. The requested, information, necessary to process this application has not yet been received by the Department of Environmental Quality. The specific information for your proposed project is as follows:

Facility Name: Big Pee Storage Tank Facility
DEQ/WQD Reference Number: #08-319
DEQ/WQD Reviewing Engineer: Mark Baron, P.E.
Date of DEQ/WQD Review: July 3, 2008

The construction, installation, or modification of any sewerage system, treatment works, disposal system including septic systems, or other facility capable of causing or contributing to pollution, or public water supply system including water mains, water wells, water services greater than 2-inch in diameter or other facilities without a Permit to Construct, is a violation of Wyoming State Statute 35-11-301.

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • http://deq.state.wy.us

ABANDONED MINES (307) 332-5085 FAX 332-7726
AIR QUALITY (307) 332-6755 FAX 332-7726
LAND QUALITY (307) 332-3047 FAX 332-7726
SOLID & HAZARDOUS WASTE (307) 332-6924 FAX 332-7726
WATER QUALITY (307) 332-3144 FAX 332-3183

If you have any questions regarding my review comments or this letter, please contact me at 307-335-6962.

Sincerely,

Mark Baron, P.E.
Southwest District Engineer

MDB/mdb

Enclosure: Permit Application Package 08-319

xc: Kenneth Walker, P.E., Uinta Engineering and Surveying, 808 Main Street, Evanston, WY 82930

IPS

file (3)

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 10, 2008

Patrick Cain
P.O. Box 669
Rawlins, Wyoming 82301

RE: N. Garner Tract (Lot 2) – Septic System, Application No. **08-321**
Location: SW¼ & SE¼, Section 18, T21N, R87W, Carbon County

Dear Mr. Cain:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **4 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Site Plan Required - When an actual layout for the lot is determined (i.e. – location of the house, garage, other buildings, water well, and any other pertinent information), a site plan **SHALL** be submitted to the DEQ / Water Quality Division for review before the septic system is constructed. The site plan shall contain, besides the physical locations of structures and features, the relative distances between the various structures, features, property lines, neighbors well's, and so on.

2. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 10, 2011. Please reference Application Number **08-321** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0461

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

June 10, 2008

Patrick Cain
P.O. Box 669
Rawlins, Wyoming 82301

RE: Cain Tract (Lot 3) – Septic System, Application No. **08-322**
Location: SW¼, Section 18, T21N, R87W, Carbon County

Dear Mr. Cain:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **4 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Site Plan Required - When an actual layout for the lot is determined (i.e. – location of the house, garage, other buildings, water well, and any other pertinent information), a site plan **SHALL** be submitted to the DEQ / Water Quality Division for review before the septic system is constructed. The site plan shall contain, besides the physical locations of structures and features, the relative distances between the various structures, features, property lines, neighbors well's, and so on.

2. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 10, 2011. Please reference Application Number **08-322** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0462

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 10, 2008

Patrick Cain
P.O. Box 669
Rawlins, Wyoming 82301

RE: D. Garner Tract (Lot 4) – Septic System, Application No. **08-323**
Location: SW¼, Section 18, T21N, R87W, Carbon County

Dear Mr. Cain:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **4 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Site Plan Required - When an actual layout for the lot is determined (i.e. – location of the house, garage, other buildings, water well, and any other pertinent information), a site plan **SHALL** be submitted to the DEQ / Water Quality Division for review before the septic system is constructed. The site plan shall contain, besides the physical locations of structures and features, the relative distances between the various structures, features, property lines, neighbors well's, and so on.

2. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 10, 2011. Please reference Application Number **08-323** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm8-0463

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304, P.O. Box 487, Rawlins, Wyoming 82301

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

May 28, 2008

Mr. Herman Noe
Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne WY 82003

RE: CHEYENNE SOUTH HIGH SCHOOL WATER AND SEWER LINE EXT. Application No. **08-324**, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and of Existing Sewage Collection Systems described as water and sewer lines, S1/4 Section 7 T13N R66W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by January 11, 2012.

Two additional 8" gate valves are required. A valve must be installed in the existing Cheyenne BOPU water line in Cribbon Street between the tap for the "A" line and the tap for the "B" line. A valve needs to be added in the "B" line within 50 ft of the tee into the "A" line.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-324** in any future correspondence.

Sincerely,

Louis B. Harmon

Louis B. Harmon PE-PG
Southeast District Engineer
Water Quality Division

LBH/rm/8-0409

cc: IPS, Cheyenne

Gary N.Grigsby, Western Research & Development; 5908 Yellowstone Rd; Cheyenne, WY 82009

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

July 9, 2008

Phil Kellogg
Desert Development Company
1927 Edgar Street
Rock Springs, WY 82901

RE: Rock Springs - Desert Development Company - Water and Sewer Main Extensions - Permit Number 08-326R, NW ¼, Section 23, T19N, R105W, Sweetwater County

Dear Mr. Kellogg:

The above application for coverage under General Permits to Construct the extension of a public water supply distribution system and the extension of a sewage collection system consisting of about 950 feet of 8-inch PVC water main and about 982 feet of 8-inch PVC sewer main serve a 17 lot manufactured mobile home park in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Amy Allen, P.E., JFC Engineering & Surveyors, 1515 Ninth Street, Rock Springs, WY 82901

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • http://deq.state.wy.us

ABANDONED MINES	AIR QUALITY	LAND QUALITY	SOLID & HAZARDOUS WASTE	WATER QUALITY
(307) 332-5085	(307) 332-6755	(307) 332-3047	(307) 332-6924	(307) 332-3144
FAX 332-7726	FAX 332-7726	FAX 332-7726	FAX 332-7726	FAX 332-3183

encl: General Permit for a Public Water Supply Distribution System,
General Permit for a Sewage Collection System

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

May 23, 2008

Ernest Mecca
P.O. Box 669
670 Eagle Ridge Road
Thermopolis, WY 82443

RE: Mecca Small Waste Water Treatment System – Permit Number 08-327, Section 18, T43N, R95W, Hot Springs County

Dear Mr. Mecca:

The above application for coverage under General Permit to Construct a conventional wastewater treatment and disposal system to serve the three bedroom home with a 563 sq ft leach field has been reviewed and is hereby approved with the following precaution.

You are authorized to construct the facilities in accordance with the general permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

James Brough, P.E.
Northwest District Engineer
Water Quality Division

Steve Warner
Reviewer

xc: IPS, Cheyenne
Lee Campbell,Hot Springs County, 415 Arapahoe, Thermopolis, WY 82443

Encl: General permit for one Small Waste Water Systems

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • http://deq.state.wy.us

ABANDONED MINES (307) 332-5085 FAX 332-7726
AIR QUALITY (307) 332-6755 FAX 332-7726
LAND QUALITY (307) 332-3047 FAX 332-7726
SOLID & HAZARDOUS WASTE (307) 332-6924 FAX 332-7726
WATER QUALITY (307) 332-3144 FAX 332-3183

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. **08-328R** Reference Permit NO. 07-680

Etna Village Estates - Well House Project
PWS # WY5600157

This permit hereby authorizes the applicant:

Remy Levy & Tim Tennyson
Dream Venture II, LLC
970 West Broadway, #299
Jackson, WY 83001

to construct a public water supply well connection (water well was permitted under 07-680) consisting of pitless unit and well house along with a chlorinator to serve 124 lot residential subdivision according to the procedures and conditions of the application number **08-328R.** The facility is located just west of the unincorporated Town of Etna at NE ¼ Section 10,T35N, R119W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 25, 2010.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer,510 Meadow View Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and
b. Date that the facility was placed in operation; and
c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 of 4 Water quality data such as that for bacteriological contaminants, inorganic contaminants (IOC), volatile organic contaminants (VOC), synthetic organic contaminants (SOC) and radionuclide contaminants must be submitted before any new water well is put into service. The well water quality must be in compliance with the United States Environmental Protection Agency (USEPA) National Primary Drinking Water Standards.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

9/9/08
Date of Issuance

MDB/rm/8-0673

STATEMENT OF BASIS

1. Permit Number: 08-328R

2. Application reviewed for compliance with the following regulations:

   Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   Yes.

4. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Not Required.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mbaron@state.wy.us, Southwest District Engineer and completed on August 25, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Ryan J. Erickson, P.E., Sunrise Engineering, P.O. Box 609,Afton, WY 83110

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

June 2, 2008

Phillip Smith
Town of Big Piney
P.O. Box 70
Big Piney, WY 83113

RE: Big Piney - Elementary School Modular Classrooms - Sewer Main Extension - Permit Number 08-329, Lat: 42.536, Long:-110.114, Sublette County

Dear Mr. Mayor Smith:

The above application for coverage under General Permit to Construct the extension of a sewage collection system consisting of about 480 linear feet (LF) of 6-inch PVC sewer main to serve three modular classrooms in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits.

If you have any questions, please contact me at 307-332-3144.

Sincerely,

Mark Baron

Mark Baron, P.E.
Southwest District Engineer
Water Quality Division

xc: IPS, Cheyenne
Jason Zakotnik, P.E., WLC Engineering, Surveying and Planning, P.O. Box 1519, Pinedale, WY 82941

encl: General Permit for a Sewage Collection System

Lander Field Office • 510 Meadowview Drive • Lander, WY 82520 • http://deq.state.wy.us

ABANDONED MINES (307) 332-5085 FAX 332-7726
AIR QUALITY (307) 332-6755 FAX 332-7726
LAND QUALITY (307) 332-3047 FAX 332-7726
SOLID & HAZARDOUS WASTE (307) 332-6924 FAX 332-7726
WATER QUALITY (307) 332-3144 FAX 332-3183

The State
of Wyoming

Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

May 29, 2008

Antone Swanda
486 Deadman Road
Oshoto, WY 82721

RE: Swanda Residential Septic System, Crook County
Permit # 08-330

Dear Mr. Swanda:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

If you have any questions, please contact me at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3478. Thank you.

Sincerely,

Kim J. Medina
Geological Project Analyst
WDEQ/WQD

Enclosures: General Permit
Certificate of Completion

cc: Tim Lyons, Crook County Growth and Development
Josh Franzen, JW Services, 519 State Hwy 116, Sundance, WY 82729
IPS, Cheyenne
WDEQ File

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450
Fax: (307) 473-3458

AIR QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458

WATER QUALITY DIVISION
(307) 473-3465
Fax: (307) 473-3458

The State
of Wyoming

Dave Freudenthal, Governor

Department of Environmental Quality

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

NOTIFICATION OF COVERAGE

May 29, 2008

Carey Berndt
6600 Hendrich Court
Gillette, WY 82718

RE: Berndt Residential Septic System, Crook County
Permit # 08-332

Dear Mr. Berndt:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

If you have any questions, please contact me at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3478. Thank you.

Sincerely,

Kim J. Medina
Geological Project Analyst
WDEQ/WQD

Enclosures: General Permit
Certificate of Completion

cc: Tim Lyons, Crook County Growth and Development
Denver Gilbert, P.O. Box 265, Huntley, MT 59037 (no enclosures)
Gerald McInerney, Mac's Construction, P.O. Box 124, Sundance, WY 82729
IPS, Cheyenne
WDEQ File

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450
Fax: (307) 473-3458

AIR QUALITY DIVISION
(307) 473-3455
Fax: (307) 473-3458

WATER QUALITY DIVISION
(307) 473-3465
Fax: (307) 473-3458

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. **08-333** REFERENCE PERMIT NO. 06-716, 08-625

The Shores at Lake De Smet Water Treatment, Storage, and Distribution System, Phase I

This permit hereby authorizes the applicant:

Piney Creek Land Company, LLC
1406 Warren Avenue
Sheridan, WY 82801

to construct the Water Treatment, Storage, and Distribution System, Phase I, for the Shores at Lake De Smet according to the procedures and conditions of the application number **08-333**. The facility is located in portions of Section 19 and 20, Township 52N, Range 82W, Johnson County, Wyoming. All construction, installation, or modification allowed by this permit shall be completed within one year of issuance.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable permit conditions or other operational requirements. Compliance with all applicable standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 3 The applicant will provide immediate oral or written notice to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

9-29-08
Date of Issuance

KLF/rm/8-0740

cc: Dale Lee, P.E., Centennial Collaborative, 237 N. Main Street, Suite 200, Sheridan, WY 82801

STATEMENT OF BASIS

1. Permit Number: **08-333**

2. Application reviewed for compliance with the following applicable regulations :

   Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations

3. Does the permit comply with all applicable regulations identified above?

   YES

4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.

   N/A

5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.

6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Karen L. Farley and completed on September 25, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 08-335

PWS WY5601393

This permit hereby authorizes the applicant:

to construct, install or modify a Drilling, Construction, Developing and Testing the SOL Well No. 1 according to the procedures and conditions of the application number 08-335. The facility is located in 1/4 Section 16,T15N R67W; Albany County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed July 22, 2011.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and

permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-5973, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 The well will need a locking well cover or a welded cover to prevent unauthorized use or entry into the well until it is connect to the existing water system.

2 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and

b. Date that the facility was placed in operation; and

c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

Date of Issuance 7/24/08

RRC/rm/8-0558

STATEMENT OF BASIS

1. Permit Number: **08-335**

2. This application was reviewed for compliance with the applicable regulations ;

   Chapters 3, 12

3. Does the permit comply with all applicable regulations identified above?

   Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

   Public water supplies are exempted from review by Chapter 3 Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Rich Cripe, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality/Water Quality Division, and completed on July 23, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

The State
of Wyoming

Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

152 N. Durbin Street • Suite 100 • Casper, Wyoming 82601

IPS

August 21, 2008

Clinton Reynolds
15750 US HWY 14
Moorcroft, WY 82721

RE: Return of Application for the Reynolds Residential Septic System, WDEQ #08-336
Crook County

Dear Mr. Reynolds:

The Wyoming Department of Environmental Quality (DEQ) received an application on May 29, 2008 for a Permit to Construct a small wastewater system in Crook County for the proposed Reynolds residential septic system. DEQ performed a review of the application and sent this review to the above address on June 4, 2008. The review stated that if DEQ did not receive the information requested within **one** month, the incomplete application would be returned. As of today, August 21, 2008, DEQ has not received the required information.

Therefore, in accordance with Wyoming Department of Environmental Quality/Water Quality Rules and Regulations Chapter 3, Section 14 – Denial of a Permit or Coverage under a General Permit, DEQ is returning all of the application materials to you, as DEQ is unable to process your application without the required information. A blank copy of the design instructions is enclosed for your use.

You can resubmit the application at any time. It will be assigned a new DEQ tracking number and will be reviewed in accordance with Chapter 3 of the Wyoming Department of Environmental Quality/Water Quality Rules and Regulations.

If you have any questions, please contact me at (307) 473-3473 or spagor@wyo.gov

Sincerely,

Suzanne Pagorek

Suzanne Pagorek
WDEQ/WQD

Enclosures: application materials

cc: WDEQ File (w/o encl)
IPS (w/o encl)
Tim Lyons, Crook County Growth and Development (w/o enclosures)

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO.08-339 REFERENCE PERMIT NO.91-391, 05-478

LAND APPLICATION, PTI # 2 JESSEN PIVOT 2

This permit hereby authorizes the applicant:

Champ, LLC
P.O. Box 127
Albin, WY 82050

to construct, install or modify a land application of liquid swine waste to the NE 1/4 Section 11 T16N R61W 4.5 miles southwest of Albin, Wyoming according to the procedures and conditions of the application number 08-339. The facility is located in NE1/4 Section 11 T16N R61W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed August 2, 2008.
The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 All land application conducted under this permit shall be consistent with the requirements of DEQ/WQD Permit 91-391 as transferred to Champ LLC by Permit 05-478. These requirements are as follows:
   a. Not more than 36 inches of water including precipitation shall be applied annually, measured from November 1 to October 31.
   b. Nitrate levels in the soil shall be measured annually after crops are harvested. The total of nitrogen available in the soil after harvest plus nitrogen applied during the following growing year shall not exceed 150 lbs/acre/year.
   c. If directly edible crops such as dry beans are to be grown, compliance with Chapter 11, Section 55(c)(i) criteria must be verified by weekly testing irrigation water quality.

2 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

Date of Issuance 6-3-08

LBH/rm/8-0431

cc: Mr. Ronald Lerwick
2814 County Road 159
Albin WY 82050

STATEMENT OF BASIS

1. Permit Number: **08-339**

2. This application was reviewed for compliance with the applicable regulations ;

   Chapters 3, 11

3. Does the permit comply with all applicable regulations identified above?

   Yes

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.

   Land application of biosolids is exempted from review by Chapter 3, Section 17.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Louis Harmon, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on June 3, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

May 30, 2008

Mr. William Edwards

RE: GRAND VIEW HEIGHTS SECOND FILING WATER AND SEWER EXT. Application No. **08-340**, Albany County

Dear Mr. Edwards:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and of Existing Sewage Collection Systems described as water and sewer lines, E1/4 Section 2 T15N R73W; Albany County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by July 13, 2010.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-340** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon

Louis B. Harmon PE-PG
Southeast District Engineer
Water Quality Division

LBH/rm/8-0419

cc: IPS, Cheyenne

Jim Cavalli; Aspen-Banner Engineering; 1575 N. 4th St., Ste 105; Laramie, WY 82072

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

July 28, 2008

Rich Elliott
Public Works Director, City of Laramie
P.O. Box C
Laramie, WY 82073

RE: CITY OF LARAMIE- ADAMS STREET, WATER MAIN LOOP
Application No. **08-342**, ALBANY County

Dear Rich Elliott:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and of Existing Sewage Collection Systems described as Adams Street Reconstruction, Water Main Loop Connection, SE1/4 Section 31 T16N R73W; ALB County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by July 28, 2010.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-342** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Rich Cripe

Rich Cripe PE
Southeast District Engineer
Water Quality Division

RRC/rm/8-0572

cc: IPS, Cheyenne
Tammy Reed, TRIHYDRO CORPORATION , 1252 Commerce Dr., Laramie, WY 82070

Dave Freudenthal, Governor

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

John Corra, Director

NOTIFICATION OF COVERAGE

February 2, 2009

Andrew Schwartz, Chairman
Teton County Administrative Services
PO Box 3594
Jackson, WY 83001

RE: Permit #08-343R: Children's Learning Center, located on Lot 331, Rafter J Subdivision, Teton County

Dear Mr. Schwartz:

This project involves the water and sanitary sewer service for a day care facility. The water service is primarily 8"PVC C900 pipe and is 423 lf in length. The Sanitary service is 6" PVC pipe and is 370' in length. The above application for coverage under General Permit has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

If you have any questions, please contact either myself or James Brough at 307-332-3144.

Sincerely,

Tod Polson, PE
Water Quality Division

xc: IPS, Cheyenne
Daniel Smith, Jorgensen Associates, PO Box 9550 Jackson, WY 83002

encl: General Permits an Public Water Supply and Existing Sewage Collection Systems

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
"AS-BUILT" PERMIT TO CONSTRUCT

PERMIT NO. **08-344**

East Bitter Creek, Phase II

This permit hereby authorizes the applicant:

Storm Cat Energy (USA) Operating Company
Attn.: Mr. Keith Knapstad
1125 17th Street, Suite 2310
Denver, CO 80202

to have installed two compliance monitoring wells according to the procedures and conditions of the application number **08-344**. The facilities are proximal to coalbed methane produced water impoundments located in Township 57N, Range 74W, Sections 15 and 16 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit

does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4: The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Groundwater Program, 1866 South Sheridan Avenue, Sheridan, WY 82801, 307-673-9337, fax 307-672-2213 when discharge to each impoundment covered under this permit commences.

3 of 4: Monitoring Requirements:
Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at downgradient well: Cutler 5-15-5774 Reservoir MW-01 and Oedekoven 15-16-5774 MW-01.
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Cutler 5-15-5774

Parameter	Cutler 5-15-5774 MW-01 Background Value (mg/L) (6/28/2007)	Class III Water Quality Standards (mg/L)
Arsenic	ND (0.001)	0.2
Selenium	0.007	0.05
Sulfate	1390	3000
Total Dissolved Solids (TDS)	2380	5000
pH	7.39	6.5 – 8.5 (s.u)

Oedekoven 15-16-5774

Parameter	Oedekoven 15-16-5774 MW-01 Background Value (mg/L) (6/28/2007)	Class III Water Quality Standards (mg/L)
Arsenic	ND (0.001)	0.2
Selenium	0.007	0.05
Sulfate	1390	3000
Total Dissolved Solids	2380	5000
pH	7.39	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (http://deq.state.wy.us/wqd/groundwater/pollution.asp). These data shall be submitted electronically on the due dates established above to the following department address: DEQ-cbmgroundwater@wyo.gov. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

4 of 4. Any exceedence of the water quality standards listed above will be considered a violation of this permit. If an exceedence of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require a more frequent monitoring schedule, further investigation of the groundwater impacts, remediation of the groundwater impacts, and cessation of discharge into the impoundment.

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

8/22/08
Date of Issuance

UMW/rm/8-0628

GROUNDWATER PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1866 South Sheridan Avenue
Sheridan, WY 82801
Phone: 307-672-6457

PERMIT TYPE: CBM: Groundwater Compliance Monitoring Program

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 08-344

SITE (POD) NAME: East Bitter Creek, Phase II

APPLICANT: Storm Cat Energy (USA) Operating Corporation
Attn.: Mr. Keith Knapstad
1125 17th St., Suite 2310
Denver, CO 80202

CONSULTANT: CBM Associates
Attn.: Luke McMahan
500 Lott St.
Buffalo, WY 82834

LOCATION: Drainage: Bitter Creek,
tributary to Powder River
County : Campbell
Township 57 North; Range 74 West

WYPDES No: WY0055999

Date of Original Report: January 10, 2008

REVIEWING OFFICIAL: Ursula Williams, North District Geologic Analyst

DATE OF THIS Review: August 20, 2008

ACTION: Compliance Monitoring Plan authorized for East Bitter Creek, Phase II pursuant to conditions on permit # 08-344.

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: Bitter Creek, tributary to Powder River

Groundwater Classification:

Class 1 (domestic) _____
Class 2 (agricultural) _____
Class 3 (livestock) 2

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality meets Water Quality Rules and Regulations Chapter 8 Class III standards and exceeds both Class I and Class II standards for Sulfate and TDS (Table 1- Chapter 8).

Table 1. Basis for Ground Water Classification

Monitoring Well	Sulfate (mg/l)	TDS (mg/l)	SAR	Groundwater Class
Cutler 05-15-5774 Reservoir MW-01	1390	2380	4.0	III
Oedekoven 11-22-5774	2150	3090	4.4	III
Oedekoven 15-16-5774	2160	2920	4.1	III
Oedekoven 16-22-5774	1550	2620	12.5	III

Description of Hydrogeology:

Cutler 5-15-5774 Reservoir: Groundwater was encountered in scoria which was encountered from 35 to 60 feet below ground surface (bgs) or 3682 to 3657 feet amsl. Above the scoria are 12 feet of clay at the surface and then 23 feet of unconsolidated sand and gravel. The static water level (SWL) is 3782.5 ft amsl with no confining layer present, thus the aquifer is unconfined. Monitoring Well Cutler 5-15-5774 Reservoir MW-01 is the down-gradient monitoring well.

The scoria, which is described as fractured, is likely to be very permeable thus, any infiltrating water will move very quickly once it reaches the scoria. The unconsolidated gravel and sand above the scoria are also likely to be very permeable. If the scoria crops out below the reservoir it may be possible for a significant amount of coproduced water to resurface. If the 12-foot clay at the surface is penetrated during reservoir construction, the potential for coproduced water to resurface increases dramatically. Predicting where resurfacing may occur is problematic due to the

unpredictable nature of scoria fracturing. The reservoir is located about 0.3 miles above Bitter Creek in an unnamed side draw.

Oedekoven 15-16-5774: First groundwater was encountered a sandstone claystone mix from 27 to 47 feet bgs (3658 to 3638 ft amsl). Above the target aquifer is a 27-foot clay. The SWL is 3651 ft amsl. Approximately seven feet of the target aquifer is not saturated, thus the aquifer is not confined.

Oedekoven 11-22-5774: First groundwater occurs in a five foot coal encountered from 60 to 65 feet bgs (3660 and 3665 ft amsl). Strata overlying the coal are comprised of clay and claystone. SWL in the coal is 3691.5 feet amsl, approximately 26 feet above the top of the coal, thus the coal is a confined aquifer.

Only one well was installed at this location. The operator makes the argument that this coal is part of the same aquifer as the other three locations investigated (including the scoria and sandstone aquifers discussed above) thus groundwater flow direction can be determined using water levels measured at those sites. Oedekoven 11-22-5774 is 0.9 miles from Oedekoven 15-16-5774 and 1.2 miles from Cutler 5-15-5774. This is quite a long way to correlate in the Wasatch Fm. The WDEQ does not agree with this conclusion and a Groundwater Compliance Permit will not be authorized for this location. Two additional wells are required at this locations to determine the direction of groundwater flow and identify the down-gradient monitoring well. A separate permit to construct (compliance monitoring plan) will need to be submitted for this location.

Oedekoven 16-22-5774: First groundwater was encountered in a five-foot sandstone and a 12-foot coal from 50 to 67 feet bgs (3676 to 3659 ft amsl). The strata above these units are comprised of clay and claystone. The SWL at this locations is 3710 ft amsl some, 34 feet above the top of the target aquifer, thus the aquifer is confined.

As with Oedekoven 11-22-5774, only one well was drilled at this location. The operator makes similar arguments regarding the potentiometric surface and for similar reasons, the WDEQ does not authorize a compliance monitoring program for this location. Two additional wells are required at this locations to determine the direction of groundwater flow and identify the down-gradient monitoring well. A separate permit to construct (compliance monitoring plan) will need to be submitted for this location or combined with a monitoring plan with the Oedekoven11-22-5774.

Table 2. Names of Impoundments covered under Permit 08-344

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down gradient Monitoring Well
Cutler 5-15-5774 Reservoir	27.27	SWNW	15	57N	74W	Cutler 5-15-5774 Reservoir MW-01
Oedekoven 15-16-5774	12.5	SWSE	16	57N	74W	Oedekoven 15-16-5774 MW-01

A stock well is located within one quarter mile of Cutler 5-15-5774. The well does not appear to be down-gradient from the proposed reservoir and is completed in a sandstone which is deeper than the water table scoria aquifer beneath Cutler 5-15-5774. It is not likely that this well will be affected by the proposed activity.

A previously existing stock reservoir is located immediately downstream from Oedekoven 15-16-5774, within one quarter mine. The SEO database lists the status of this reservoir as canceled.

No seeps or springs are noted in the immediate area.

2.0 MONITORING AND REPORTING REQUIREMENTS

Groundwater monitoring at the impoundments shall be performed on a quarterly basis until further notice and shall include the following information:

- Measurement of static water level and sampling and analysis of groundwater at down-gradient well: Cutler 5-15-5774 Reservoir MW-01 and Oedekoven 15-16-5774 MW-01.
- Reporting results of quarterly monitoring and sampling to the department by January 15th, April 15th, July 15th, and October 15th of each year. The first set of data will be due by October 15, 2008
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundment:

Cutler 5-15-5774

Parameter	Cutler 5-15-5774 MW-01 Background Value (mg/L) (6/28/2007)	Class III Water Quality Standards (mg/L)
Arsenic	ND (0.001)	0.2
Selenium	0.007	0.05
Sulfate	1390	3000
Total Dissolved Solids (TDS)	2380	5000
pH	7.39	6.5 – 8.5 (s.u)

Oedekoven 15-16-5774

Parameter	Oedekoven 15-16-5774 MW-01 Background Value (mg/L) (6/28/2007)	Class III Water Quality Standards (mg/L)
Arsenic	ND (0.001)	0.2
Selenium	0.007	0.05
Sulfate	1390	3000
Total Dissolved Solids	2380	5000
pH	7.39	6.5 – 8.5 (s.u)

If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (http://deq.state.wy.us/wqd/groundwater/pollution.asp). These data shall be submitted electronically on the due dates established above to the following department address: DEQ-cbmgroundwater@wyo.gov. In addition, the accompanying analytical laboratory reports must also be submitted either electronically (pdf format) or hard copy via mail to the WDEQ, Sheridan office at the address listed above.

END OF REVIEW

UMW/rm/8-0628

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 18, 2008

Cody Heimsoth
P.O. Box 5
Wheatland, Wyoming 82201

RE: Heimsoth Residential Septic System, Application No. **08-345**
Location: NE¼, Section 21, T24N, R68W, Platte County

Dear Mr. Heimsoth:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **4 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.

2. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation.** Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 17, 2010. Please reference Application Number **08-345** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0479

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Platte County Planner, Marlin Johnson, P.O. Box 728, Wheatland, Wyoming 82201

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Foster Residential Septic System

LOCATION: Unknown, **Carbon County**

ENGINEER: None

APPLICANT: Ken Foster
33 Minter Lane
Riverton, Wyoming 82501
Ph: (307) 389-185(3 or 5 or 0)?

WATER QUALITY DIVISION REFERENCE NUMBER: **08-347**

REVIEWING ENGINEER: Ronald L. Ewald, P.E.
Phone: (307) 777-6183

DATE OF REVIEW: June 18, 2008

Professional Engineer (Civil)
RONALD L. EWALD
62799
Date: 06-18-2008
WYOMING

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 12 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Completed and Signed Application Form Required - a completed and signed (by the owner) application form is required before any application can be approved. There was no application form with this application package. Please complete the partially filled in application form provided with this review and sign and date it; or complete the blank application form if there are any errors on the partially completed form.

2. Project/Property Location Required - the ¼ section, Section, Township, and Range that the proposed septic system is to be located in is required on the application form, and on Page 1 of the application package.

3. Minimum Leachfield Length Too Short - the calculated minimum leachfield length of 43 "Standard Quick4" *Infiltrator*™ chambers is too short because the wrong "Equivalent Area per Unit (EA/U)" value was used in the calculation. An EA/U of 40.0 square feet per unit was used instead of the correct value of 26.5 sf/u for the standard Quick4 chamber. The 40.0 sf/u is the EA/U value for the original standard 6 foot 3 inch long chamber. The effective length of the Quick4 is only 4 feet, which is 2/3 of the original 6 foot long unit, therefore you get the 26.5 sf/u EA/U for the standard Quick4 model. When using the correct EA/U factor, the minimum leachfield length becomes (1714 sq. ft.) / 26.5 = 65 standard Quick4 chamber units. If 66 units are used in two trenches the trenches would each be a minimum of 33 * 4ft = 132 ft long plus several more feet for two end caps. If four trenches were used (2 @ 16 units long and 2 @ 17 units long), the minimum trench length would be 17 * 4ft = 68 ft long plus several feet for two end caps. Trenches of 132 plus feet long are really too long for a chamber system to work correctly and be effective. The DEQ / Water Quality Division (WQD) recommends that leachfield trenches be kept under 75 feet long if possible and 100 feet at a maximum. Therefore:

   A minimum of 66 "Standard Quick4" model *Infiltrator* brand chamber units SHALL be installed in this leachfield. Additionally, these 66 chamber units are to be installed in a minimum of four(4) distinct and separate trenches.

4. Chamber Trench Leachfield Detail Sheet Required - either a "Four Trench Chambered Leachfield" detail sheet, or if more than four trenches are to be used a "Multiple Trench Chambered Leachfield" detail sheet must be completed.

5. Leachfield and Septic Tank Will NOT Fit on the Property as Laid Out - the site plan submitted has the proposed septic tank location and leachfield running almost due north from the north side of the house. According to the information submitted the lot is only 258 feet wide in the north/south direction, and 30 feet of that is unusable because it is utility easement. This leaves only 228 feet of useable space. According to site information submitted, the south side of the house is about 90 ft north of the south utility easement line. Estimate the house is at least 40 ft long.

The plans show 20 ft from the north side of the house to the septic tank, septic tanks are at least 10 ft long, and then another 10 ft to the head of the leach field. Including that the leachfield must stay at least 10 ft away from the north utility easement line, the total north/south footage taken up by these items is 180 feet. This leaves only (228 – 180 =) 48 feet to construct the leachfield lines in. The length of the submitted trenches (22 units), which was 33% too short, was at least 88 feet. The corrected length of the trenches would be 132+ feet in two trenches (which will not be allowed), or 68+ feet in four trenches. Even the four trench arrangement is 20 feet longer than what is available if everything is laid out straight north and south. Therefore:

> A leachfield configuration and layout that actually fits on this lot must be laid out on the site plan with dimensions and distances that actually add up and fit within the dimensions of the lot.

Enclosures: Blank Application form, and partially completed Application form
Replacement blank worksheets and detail sheets

RLE/rm/8-0486

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

January 15, 2009

Ken Foster
33 Minter Lane
Riverton, WY 82501

RE: **Inactive Application Number: 08-347** **Action: Application Returned-Non Response**
Facility: Foster Residential Septic System, Location: Platte County

Dear Mr. Foster:

Your application, number 08-347, for a residential on-site septic system, is considered inactive. It has been over 6 months since the Wyoming Department of Environmental Quality / Water Quality Division (WQD) sent out review comments dated June 18, 2008 with the **Action: Not Authorized For Construction**. These review comments indicated that this application could not be permitted as proposed because the application package had numerous deficiencies or incorrect calculations. Since the WQD has not received any written response to these concerns within the required maximum 6 month response period, this application is being returned under the assumption that the applicant does not wish to proceed with the permit to construct permitting process at this time.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and is punishable with fines not to exceed $10,000 per day of violation. **If this project has already been constructed or partially constructed**, it is your responsibility to immediately contact this office for further information and instructions. If you wish to reconsider construction of this facility, then the application process must be started over and the application procedures pursuant to Chapter 3 of the Wyoming Water Quality Rules and Regulations must be followed.

If you should have any questions, or if the WQD has gotten any of the facts of this situation wrong, or has made any errant assumptions, please contact Ronald Ewald at either (307) 777-6183 or rewald@wyo.gov. Please be reminded that the WQD could show up some time in the future to verify that no unauthorized septic system construction/installation has occurred at this location.

Sincerely;

Ronald L. Ewald

Ronald L. Ewald
Consulting Engineer
SE District, Water Quality Division

RLE/rm/9-0034

cc: IPS
Southeast District, WQD: Inactive - Application Returned file

Enclosures: Application package
Copy of review comments dated June 18, 2008

08-347

WYOMING WATER QUALITY APPLICATION FORM

WQD USE ONLY	
APP. NO.	
DATE	
PROG.	

Use for Construction, Groundwater Monitoring, Groundwater Remediation, Subdivisions and Land Application of Wastewater

A complete application package must include three copies of each of the following:
Application Form; at least one copy must have original signatures.
Investigations, design reports, plans, specifications, and any other information as appropriate.

Submit to appropriate office	http://deq.state.wy.us/wqd/www/district_Map.jpg
DEQ/Water Quality Division, 122 West 25th Street, Cheyenne, WY 82002	(307) 777-7781
DEQ/Water Quality Division, 510 Meadowview Drive, Lander, WY 82520	(307) 332-3144
DEQ/Water Quality Division, 1866 South Sheridan, Sheridan, WY 82801	(307) 673-9337
DEQ/Water Quality Division, 152 North Durbin Street, Ste 100, Casper, WY 82601	(307) 473-3465

NAME OF PROPOSAL

Foster Residential Septic System

DESCRIPTION OF PROJECT

LOCATION: **County:** Carbon **Latitude:** **Long.:**

Legal Description (1/4 Section, Section, Township and Range or Lot No. and Subdivision)

SIGNATURES: **All undersigned agree to comply with applicable Wyoming Statutes and Regulations and to allow the activities described in this application.**

Real Estate Owner The real estate owner or the grantee of the applicable easement must sign this form

Sign Above

Address: 33 Minter Lane
City: Riverton
State: WY ZIP Code: 82501
Phone Number: (307) 789-1850

Printed Name: Ken Foster Title: owner

If the owner or easement grantee is a public entity, partnership, or corporation, a legally binding authority must sign

Operator or Developer (If same as real estate owner this space may be left blank)

Sign Above

Address:
City:
State: ZIP Code:
Phone Number:

Printed Name: Title:

If the operator or developer is a public entity, partnership, or corporation, a legally binding authority must sign

Engineer or Geologist

Printed Name: WY P.E.# WY PG#

Firm Name:

Address:
City:
State: Zip Code:
Phone Number:

Please complete information on the second page or the back of this form

prepared by RLF

WYOMING DEQ/WQD http://deq.state.wy.us/wqd/index.asp Phone 307-777-7781

The Wyoming Environmental Quality Act, W.S. 35-11-101 and Wyoming Environmental Quality Act, Article 3, W.S. 35-11-301 mandates that permits are required for construction or modification of public water supplies, wastewater facilities, land application systems, and confined swine feeding operations. W.S. 18-5-306 requires the review of the safety and adequacy of proposed sewage systems and water systems in new subdivisions by the Department of Environmental Quailty.

All Wyoming Water Quality Regulations are available at http://deq.state.wy.us/wqd/WQDrules/index.asp

Chapter 3 of the Wyoming Water Quality Division Rules and Regulations defines the permitting process.

Specific chapters of the the Wyoming Water Quality Rules and Regulations have been developed for each of the areas that require a permit. The regulatory chapters for types of projects that this application is to be used for are listed below. Please check all that apply to your project.

X	11	Design and Construction Standards for Sewerage Systems, Treatment Works, Disposal System of other Facilities Capable of Causing or Contributing to Pollution, includes septic tanks/leach fields, monitoring wells, and road application of wastewater
	12	Design and Construction Standards for Public Water Supplies, includes subdivision water supplies and water line extensions
	21	Standards for the Reuse of Treated Wastewater
	23	Minimum Standards for Subdivision Applications
	Other	Describe briefly

Previous or Associated State of Wyoming Permits	
WQD Permit to Construct	
WQD Subdivision Recommendation to County	
Air Quality	
Land Quality	
Oil and Gas Commission	
Solid and Hazardous Waste	
State Engnineers Surface Water Right or Well Permit	
WQD Underground Injection Control	
WYPDES (discharge permit)	
US EPA Public Water Supply (PWS) Number	

DESIGN INSTRUCTIONS and WORKSHEETS for a LESS than 2000 Gallons Per Day GRAVITY SEPTIC SYSTEM utilizing a LEACHFIELD	For Office Use Only

RECEIVED JUN 2 - 2008 WYOMING

A. General Information.

1. Name of Facility: Foster Septic System

2. Location: County Carbon

   1/4 Section _____, Section _____, Township _____N, Range _____W

3. Subdivision or Tract: a) Name Weber Mesa *

   b) Lot # 2, c) Block # _____, d) Date Platted or Approved _____ *

   e) Attach legal description of property (from Sales Contract or Deed)

4. Is the proposed facility in compliance with a county approved subdivision or plat? Yes X, No ____. *

5. Is the proposed facility located within an area covered by an approved water quality management plan? Yes X, No ____. * (if No - skip to 7.)

6. a. Is the proposed facility consistent with an approved water quality management plan? Yes X, No ____. * (if Yes - skip to 7.)

   b. If not, has a temporary exemption been approved? Yes ____, No ____. *

7. Is the proposed facility in conflict with an approved well-head protection program or source water protection program? Yes ____, No ____. *

* Note: Your local county planning office or the appropriate DEQ District Office for your county can assist you with information relating to items 3, 4, 5, 6, and 7.

B. Site Information.

1. Lot Size: 853 ft. by 258 ft., Area: ____sf, or 5.2 acres

2. Water Supply: ____ community, or X private well

3. Ground Slope (at location of leachfield): 2 ft./ 100 ft., or 2 %

4. Soil Description: Sandy, Gravel below

5. Percolation Rate in minutes per inch (mpi) as determined from *Percolation Test Procedure attachment.* (The actual percolation test data must be submitted with the application)

   a. **If 3 to 5 holes were tested**, the slowest rate (largest number) was 40 mpi

   b. **If 6 or more holes were tested**, the average percolation rate was _____mpi

   c. **If the percolation rate is less than 1 mpi or greater than 60 mpi**, this site is unsuitable for a typical leachfield. Please contact the nearest DEQ district office or your local small wastewater program administrator for assistance.

6. The seasonally high groundwater level is 25' feet below the ground surface.

   How and where was this determined?

   Water well driller and local Rancher

   Who determined this? Owner Ken Foster, Date 5-18-08

7. The depth to bedrock or an impermeable soil layer (perk rate greater than 60 mpi) is 12' + feet below the ground surface. (If the depth to bedrock is greater then 12 feet, the exact depth is not necessary - answer: more than 12 ft.)

   How was this determined?

   I dug a hole to 12'

   Who determined this and qualifications? Ken Foster (owner

8. Complete the blank *Site Plan detail sheet* included herein.

C. Septic Tank Information.

1. Tank size: 1000 gallons, 1 compartment_____, or 2 compartment X

2. Manufacturer: Norwesco, Model _____

3. Supplier: Hasco, Riverton, Wy, Phone # _____

4. *Standard Septic Tank detail sheet* must be completed.

D. Absorption system (leachfield) size calculations.

1. Design wastewater volume (circle a, b, or c - and complete that section):

   a. Permanent Structure: 150 gpd/bedroom x 4 bedrooms = 600 gpd

   b. Mobile home: 1 or 2 bdrms = 350, 3 bdrms = 500, 4 bdrms = 650gpd (circle one)

   c. Non-residential design loads (show calculations as appropriate)

   _____

   _____

   _____

2. The absorption system loading rate is: 0.35 gpd/sf.

   (The loading rate is determined from your percolation rate and the "Loading Rate Table", Appendix PT, in the *Percolation Test Procedure attachment*)

3. The minimum required infiltrative surface area is calculated as follows:

   $$\frac{\text{Wastewater volume (D.1.)}}{\text{Loading rate (D.2.)}} = \frac{600 \text{ gpd}}{.35 \text{ gpd/sf}} = 1714 \text{ sf}$$

E. Absorption system layout (Leachfield):

1. Type of system: (check one)

Rock and perforated pipe **Trench** _____	complete part E.2.
Rock and perforated pipe **Bed** _____	complete part E.3.
Chamber Trench system ___X___	complete part E.4.
Chamber Bed system _____	complete part E.5.

2. Trench Design for Washed Rock and Perforated Pipe: (Distinct trenches with at least 3 feet of undisturbed soil between trenches)

   a. Minimum infiltrative surface area required = _____ sf from D.3.

   Choose your trench dimensions:

   b. Total depth = _____ inches

   c. Width = _____ inches

   d. Depth below bottom of pipe = _____ inches (6" minimum)

   Calculate minimum length of trench needed:

   e. Square feet per linear foot =

   (side [E.2.d.] + bottom [E.2.c.] + side [E.2.d.]) / 12 = _____ sf / foot

   f. Total minimum trench length = E.2.a. / E.2.e. = _____ linear feet

   g. Trench layout - (check one) Depending on the total minimum trench length required (E.2.f.); choose one of the following:

_____	1 single trench	see *Single Trench Pipe Leachfield detail sheet*
_____	2 trenches	see *Two Trench Pipe Leachfield detail sheet*
_____	4 trenches	see *Four Trench Pipe Leachfield detail sheet*
_____	Multiple trenches (requires "D" Box)	see *Multiple Trench Pipe Leachfield detail sheet*

3. Bed Design for Washed Rock and Perforated Pipe: (one continuous excavation - no distinct trenches)

   a. Minimum infiltrative surface area required = _____ sf from D.3.

   Choose your bed dimensions (must always be more than the minimum area required.)

   b. Width _____ ft. Length _____ ft. = Total square feet _____ sf.

   c. Bed layout: Complete *Bed Type Pipe Leachfield detail sheet*

4. Trench Design for Chamber Leachfied Systems: (Distinct trenches with at least 3 feet of undisturbed soil between trenches)

a. Minimum infiltrative surface area required = 1714 sf from D.3.

b. Choose your make and model of leachfield Chamber:

Manufacturer Infiltrator, Model Quick 4

Width 34 inches, Height 12 inches, Length "52" feet & inches

c. Equivalent area per unit = 40.0 (See *Chamber Systems Attachment*)

d. Minimum number of units required is:

(Minimum area [E.4.a.] / Equivalent unit area [E.4.c.]) =
(_____/_____) = 43 units [round up]

e. Number of units to be used = 43 (same or more than E.4.d.)

f. Trench layout - Depending on the number of units to be used, choose one of the following:

_____	1 single trench	see *Single Trench Chambered Leachfield detail sheet*
X	2 trenches	see *Two Trench Chambered Leachfield detail sheet*
_____	4 trenches	see *Four Trench Chambered Leachfield detail sheet*
_____	Multiple trenches (requires "D" Box)	see *Multiple Trench Chambered Leachfield detail sheet*

5. Bed Design for Chamber Leachfield Systems: (one continuous excavation - no distinct trenches)

a. Minimum infiltrative surface area required = _____ sf from D.3.

b. Choose your make and model of leachfield Chamber:

Manufacturer _____, Model _____

Width _____ inches, Height _____ inches, Length _____ feet & inches

c. Equivalent bed area per unit = _____ (See *Chamber Systems Attachment*)

d. Minimum number of units required is:

(Minimum area [E.5.a.] / Equivalent unit area [E.5.c.]) =
(_____/_____) = _____ units [round up]

e. Number of units to be used = _____ (same or more than E.5.d.)

f. Bed layout: Complete *Bed Type Chambered Leachfield detail sheet*

F. Site Plan and detail sheets:

A site plan sheet (site sketch) of your property showing the septic system and leachfield layout along with detail sheets which are appropriate for your specific system must be completed and submitted with these worksheets. Sheets which do not apply to your system need not be submitted. Empty boxes will appear throughout the plan and detail sheets. These boxes require that you fill in information and/or dimensions that apply to your specific design. Much, but not all, of this information can be obtained from the blanks you have just filled out throughout the worksheets. Please select and complete the appropriate sheets for your system.

G. Installer Information:

Agent or Contractor's Name: Ken Foster

Business Name (if applicable):

Mailing Address: 33 Minder Lane Riverton, Wyo 82501

Phone number: 307-389-1850

H. General Comments:

Such as unusual site conditions or physical limitations, special requests, or any other pertinent information not previously explained in the worksheets.

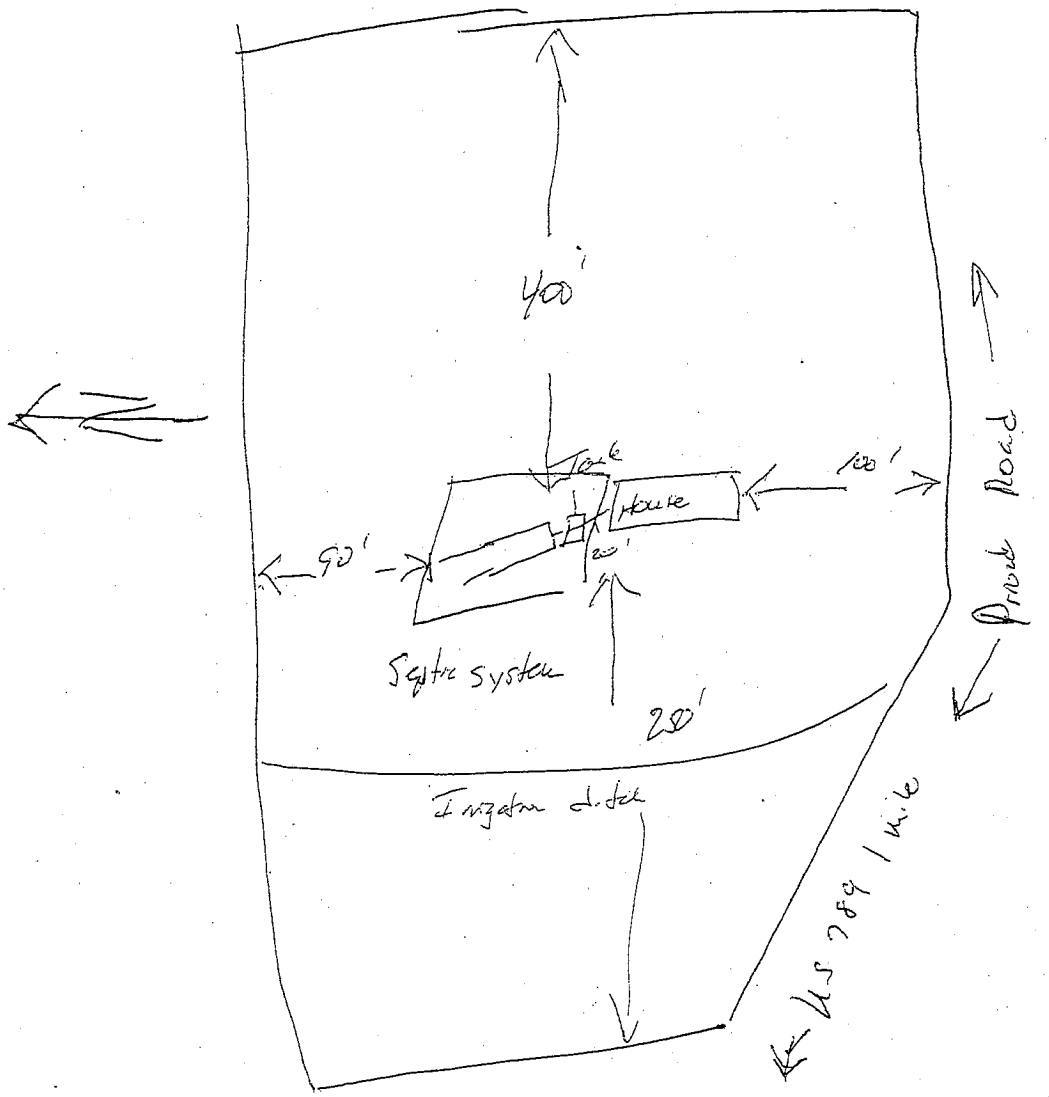
I will be installing the system myself.

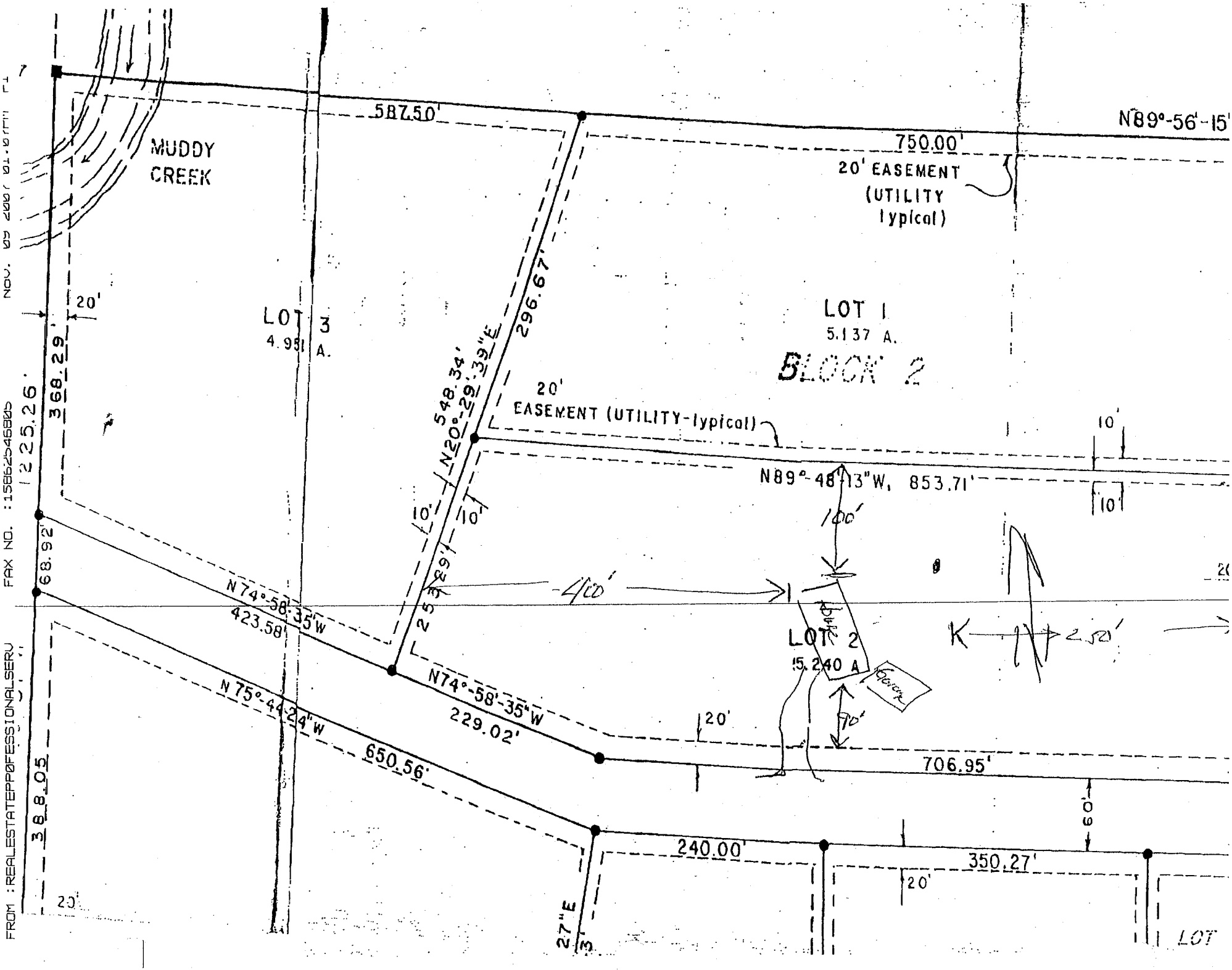
/pjb
00814.doc

Kenneth Foster

Lot #2 Weber Mesa Baggs Wyoming

Residential




MUDDY CREEK
587.50'
N89°-56'-15'
750.00'
20' EASEMENT (UTILITY typical)
LOT 3
4.981 A.
LOT 1
5.137 A.
BLOCK 2
296.67'
548.34'
N20°-29'-39"E
20' EASEMENT (UTILITY-typical)
N89°-48'-13"W, 853.71'
1225.26'
368.29'
20'
10'
68.92'
N74°-58'-35"W
423.58'
N75°-44'-24"W
650.56'
N74°-58'-35"W
229.02'
LOT 2
15.240 A
100'
400'
250'
70'
706.95'
60'
240.00'
350.27'
388.05'
27"E
LOT

PERCOLATION TEST RESULTS

1. Performed by: Ken Foster Test Date(s): 5-16-08

   Credentials or Status of Tester: Owner

   (Owner, contractor, installer, engineer, geologist, sanitarian, soil scientist, or other)

2. The **time interval (ti)** between water level measurements was: 10 minutes.

3. **TEST DATA**: The test holes were **PRESOAKED** for: _____ hours, or ___ overnight.

Test Hole # is:		36		37		41	
Hole depth (inches) =							
Interval Number	Elapsed Time	Water Level / Drop		Water Level / Drop		Water Level / Drop	
Start =	0 min	12"		12		12	
1		14½"	1½	14¼		15⁰⁰	
2		15½	1	15½		16½	
3		16¾	½	16¼		17¾	
4		16¾	¾	16¾		17⁰⁰	
5		17½	½	17½		18⁰⁰	
6		17	¼	17⁰⁰		18½	
7		18¾	½	18½		19	
8		18¼	½			19¼	
9		19¾	¼				
10		20					
Final Drop (NOT Total) =		¼		½		¼	
Perc rate(mpi) is: [ti / Final Drop] =		40		20		40	

a. If **6 or more holes** were tested, the **average perc rate** was: _____mpi, or

b. If **3 to 5 holes** were tested, the **slowest perc rate** (largest number) was: 40 mpi.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Foster Residential Septic System

LOCATION: Unknown, **Carbon County**

ENGINEER: None

APPLICANT: Ken Foster
33 Minter Lane
Riverton, Wyoming 82501
Ph: (307) 389-185(3 or 5 or 0)?

WATER QUALITY DIVISION REFERENCE NUMBER: **08-347**

REVIEWING ENGINEER: Ronald L. Ewald, P.E.
Phone: (307) 777-6183

DATE OF REVIEW: June 18, 2008

Professional Engineer (Civil)
RONALD L. EWALD
6279
WYOMING
Ronald L. Ewald
06-25-2008
Date

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 12 (a), Chapter III, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with Section 7. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Completed and Signed Application Form Required - a completed and signed (by the owner) application form is required before any application can be approved. There was no application form with this application package. Please complete the partially filled in application form provided with this review and sign and date it; or complete the blank application form if there are any errors on the partially completed form.

2. Project/Property Location Required - the ¼ section, Section, Township, and Range that the proposed septic system is to be located in is required on the application form, and on Page 1 of the application package.

3. Minimum Leachfield Length Too Short - the calculated minimum leachfield length of 43 "Standard Quick4" *Infiltrator*™ chambers is too short because the wrong "Equivalent Area per Unit (EA/U)" value was used in the calculation. An EA/U of 40.0 square feet per unit was used instead of the correct value of 26.5 sf/u for the standard Quick4 chamber. The 40.0 sf/u is the EA/U value for the original standard 6 foot 3 inch long chamber. The effective length of the Quick4 is only 4 feet, which is 2/3 of the original 6 foot long unit, therefore you get the 26.5 sf/u EA/U for the standard Quick4 model. When using the correct EA/U factor, the minimum leachfield length becomes (1714 sq. ft.) / 26.5 = 65 standard Quick4 chamber units. If 66 units are used in two trenches the trenches would each be a minimum of 33 * 4ft = 132 ft long plus several more feet for two end caps. If four trenches were used (2 @ 16 units long and 2 @ 17 units long), the minimum trench length would be 17 * 4ft = 68 ft long plus several feet for two end caps. Trenches of 132 plus feet long are really too long for a chamber system to work correctly and be effective. The DEQ / Water Quality Division (WQD) recommends that leachfield trenches be kept under 75 feet long if possible and 100 feet at a maximum. Therefore:

   A minimum of 66 "Standard Quick4" model *Infiltrator* brand chamber units SHALL be installed in this leachfield. Additionally, these 66 chamber units are to be installed in a minimum of four(4) distinct and separate trenches.

4. Chamber Trench Leachfield Detail Sheet Required - either a "Four Trench Chambered Leachfield" detail sheet, or if more than four trenches are to be used a "Multiple Trench Chambered Leachfield" detail sheet must be completed.

5. Leachfield and Septic Tank Will NOT Fit on the Property as Laid Out - the site plan submitted has the proposed septic tank location and leachfield running almost due north from the north side of the house. According to the information submitted the lot is only 258 feet wide in the north/south direction, and 30 feet of that is unusable because it is utility easement. This leaves only 228 feet of useable space. According to site information submitted, the south side of the house is about 90 ft north of the south utility easement line. Estimate the house is at least 40 ft long.

The plans show 20 ft from the north side of the house to the septic tank, septic tanks are at least 10 ft long, and then another 10 ft to the head of the leach field. Including that the leachfield must stay at least 10 ft away from the north utility easement line, the total north/south footage taken up by these items is 180 feet. This leaves only (228 – 180 =) 48 feet to construct the leachfield lines in. The length of the submitted trenches (22 units), which was 33% too short, was at least 88 feet. The corrected length of the trenches would be 132+ feet in two trenches (which will not be allowed), or 68+ feet in four trenches. Even the four trench arrangement is 20 feet longer than what is available if everything is laid out straight north and south. Therefore:

> A leachfield configuration and layout that actually fits on this lot must be laid out on the site plan with dimensions and distances that actually add up and fit within the dimensions of the lot.

Enclosures: Blank Application form, and partially completed Application form
Replacement blank worksheets and detail sheets

RLE/rm/8-0486

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

June 18, 2008

James M. Spell
780 Big Goose Rd.
Sheridan, Wyoming 82801

RE: Spell Residential Septic System, Application No. **08-348**
Location: SW¼, Section 5, T16N, R83W, Carbon County

Dear Mr. Spell:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **3 bedroom** house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 18, 2010. Please reference Application Number **08-348** in any future correspondence.

If you have any questions, please contact me at (307) 777-6183.

Sincerely,

Ronald L. Ewald

Ronald L. Ewald, P.E.
Consulting Engineer
Southeast District, Water Quality Division

RLE/rm/8-0489

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Kent Smith, Box 684, Saratoga, Wyoming 82331
Carbon County Planning Director, Lou Kline, 215 W. Buffalo Street, #304,
P.O. Box 487, Rawlins, Wyoming 82301

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY / WATER QUALITY DIVISION
122 West 25th Street, Herschler Building 4 West, Cheyenne, Wyoming 82002

PROJECT: University of Wyoming, College of Business Building, Water Main Realignment
ENGINEER: Trihydro Corporation
APPLICANT: City Of Laramie

Professional Engineer (Civil) RICHARD R. CRIPE 8288 Date 7/1/2008 WYOMING

WATER QUALITY DIVISION REFERENCE NUMBER: **08-349**
REVIEWING ENGINEER: Rich Cripe
DATE OF REVIEW: July 1, 2008

ACTION: **NOT AUTHORIZED FOR CONSTRUCTION**. In accordance with Section 14(a), Chapter 3, Wyoming Water Quality Rules and Regulations, the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. Please address the comments outlined below and submit the requested information in order that the application process may be completed in accordance with said Section 9. If the applicant fails to provide the requested information within six months the incomplete application shall be returned.

COMMENTS, INADEQUACIES, AND QUESTIONS

1. Chapters 12, Section 6 require all permit applications to include an engineer's design report. For simple projects like this one the design report can be part of the cover letter.
2. The design report needs to address current and projected system water demands (see Chapters 12, Section 6.b.ii) for average day, maximum day, maximum hour, needed fire flows and per capita maximum daily flows.
3. The design report needs to address the fire flow requirements for the addition to College of Business Building as determined by the Wyoming State Fire Marshall.
   a. The minimum pressure and fire flow to the building sprinkler system should be listed.
   b. For the water system, residual pressures at fire flows should be discussed. The requirement is for a residual pressure of 20 psi at full hydrant flow at peak daily flow.
4. The plans do not show a fire line to the building for the sprinklers.
5. The specifications need to have a cross connection control statement that states it meets Chapters 12 DEQ Regulations and the City of Laramie Code.
6. Is the 8"valve correct at the new fire hydrant?

RRC/rm/8-0508

Reviewed by Rich Cripe, Phone 307-777-7075, email rcripe@wyo.gov.

Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

August 19, 2008

Phil Harris, V.P. for Administration
University of Wyoming
1000 E. University Ave.
Laramie, WY 82071

RE: UNIVERSITY OF WYOMING-BUSINESS BUILDING WATER MAIN,
Application No. **08-349**, Albany County

Dear Mr. Harris:

The above application for coverage under General Permit to Construct, Install, Modify, or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as relocating an existing 8 inch City of Laramie Water Main to accommodate a new addition to the College of Business Building, SW/NW1/4 Section 34 T16N R73W; Albany County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by August 19, 2010.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **08-349** in any future correspondence.

If you have any questions, please contact me at 307-777-7075.

Sincerely,

Richard R. Cripe

Richard R. Cripe PE
Southeast District Engineer
Water Quality Division

RRC/bb/8-0625
cc: IPS, Cheyenne
DARYL JENSEN, TRIHYDRO CORPORATION, 1252 COMMERCE DR., LARAMIE WY 82070

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. **08-350R**

Buffalo Run Subdivision Water System-Three Rivers Development
No Public Water System Number Assigned

This permit hereby authorizes the applicant:

Shawn Bard
P.O. Box 3773
Alpine, WY 83128

to construct two public water supply wells, a well house, generator and water mains to serve a 13 lot residential subdivision according to the procedures and conditions of the application number **08-350R.** The facility is located about 1 mile north of the Town of Etna at SE 1/4 Section 27, T36N, R119W in the county of Lincoln, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 4, 2010.

The issuance of this permit confirms that the Wyoming Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and operator.

Granting this permit does not imply that DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by Wyoming statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the State of Wyoming does not waive its sovereign immunity.

The permittee shall allow authorized representatives from DEQ to enter and inspect any property, premise or place on or at which the facility is located or is being constructed or installed for the purpose of investigating actual or potential sources of water pollution, and for determining compliance or non-compliance with any rules, regulations, standards, permits or orders.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

1 of 4 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer,510 Meadow View Drive, Lander, WY 82520, 307-332-3144,FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.

a. Date that construction of the facility was completed; and
b. Date that the facility was placed in operation; and
c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.

3 of 4 Water quality data such as that for bacteriological contaminants, inorganic contaminants (IOC), volatile organic contaminants (VOC), synthetic organic contaminants (SOC) and radionuclide contaminants must be submitted before any new water well is put into service. The well water quality must be in compliance with the United States Environmental Protection Agency (USEPA) National Primary Drinking Water Standards.

4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner
Administrator
Water Quality Division

John V. Corra
Director
Department of Environmental Quality

8/6/08
Date of Issuance

MDB/rm/8-0588

STATEMENT OF BASIS

1. Permit Number: 08-350R

2. Application reviewed for compliance with the following regulations:

   Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.

3. Does the permit comply with all applicable regulations identified above?

   Yes.

4. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.

   Not Required.

5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mbaron@state.wy.us, Southwest District Engineer and completed on August 4, 2008. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Michael R. Jaglowski, P.E., Keller Associates, 412 West Center, Pocatello, ID 83204