

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-201

Torrington Golf Course Metering Station and Transmission Lines  
PWS: WY5600164

This permit hereby authorizes the applicant:

City of Torrington  
2042 East "A" Street  
Torrington, WY, 82240

to construct, install or modify a golf course metering station, transmission line to control building, and water distribution improvements according to the procedures and conditions of the application number 04-201. The facility is located in Section 16 T24N R61W in the county of Goshen, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by September 15, 2009.

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.

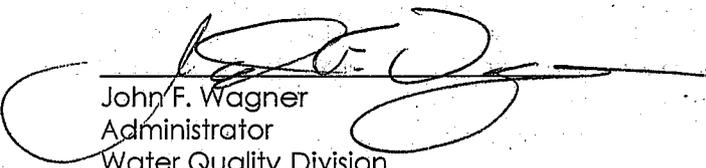
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

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

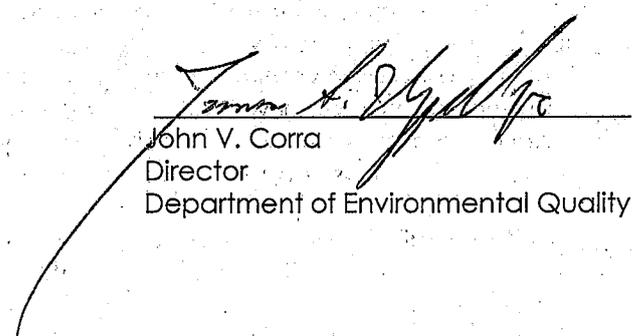
AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

10/22/04  
Date of Issuance

LBH/jd/4-10571tr.doc

cc: Dale Anderson, WWDC  
Kevin Frank

  
John V. Corra  
Director  
Department of Environmental Quality

## STATEMENT OF BASIS

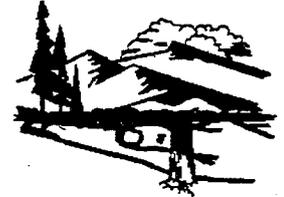
1. Permit Number: 04-201
2. Application reviewed for compliance with the following applicable regulations :  
Chapter(s) 3 and 12 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?  
Yes  
Public water supplies are exempted from review by Chapter 3, Section 17.
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was 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 Louis B. Harmon PE-PG, Southeast District Engineer, lharmo@state.wy.us, and completed on October 21, 2004. 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

June 15, 2004

Kevin Woolfolk  
P.O. Box 1792  
Saratoga, Wyoming 82331

RE: Woolfolk Residential Septic System, Application No. 04-202  
Location: Section 31, Township 18N, Range 83W, Carbon County

Dear Mr. Woolfolk:

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 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 tank must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 15, 2006. Please reference Application Number 04-202 in any future correspondence.

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

Sincerely,

Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/bb/4-0593.ltr

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

cc: IPS, Cheyenne  
Carbon County Planner





The State  
of Wyoming



## Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

June 4, 2004

Doug and Cindy Wallingford, Owners  
1153 Skelton Road  
Thermopolis, Wyoming 82443

RE: Hot Springs County - Small Waste Treatment Facility - Permit Number: 04-203,  
SE1/4NE1/4 Section 28, T44N, R94W, Hot Springs County

Dear Mr. and Mrs. Wallingford:

The above application for coverage under General Permit to Construct a small wastewater treatment facility consisting of a septic tank and leach field to serve a three-bedroom home in accordance with Chapter 3, Section 7 and Chapter 11, Part D 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 permit. The following conditions apply to this permit:

- 1) An absorption field of at least 21 chamber units at 40 ft<sup>2</sup> per unit is required or 161 feet of perforated pipe and rock at 5 ft<sup>2</sup> per linear foot of trench.
- 2) The trench bottom for the chamber system must be at least 4 feet above the seasonally high ground water.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Small Wastewater Treatment Facility

## PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

PERMIT NO. 04-204  
SPECIAL CONDITIONS

### Jim Bridger Power Plant - FGD Pond 2 Waste Stream Modification

This permit hereby authorizes the applicant:

PacifiCorp  
P.O. Box 158  
Point of Rocks, Wyoming 82942

to construct, install and/or modify the Waste Stream for FGD Pond 2, adding boiler rinse and evaporation pond water according to the procedures and conditions of the application number 04-204. The facility is located in Sections 25, 26 and 35, T21N, R101W in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 1, 2005.

The issuance of this permit confirms that the 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/or operator.

Granting this permit does not imply that the Wyoming 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 the 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 the DEQ 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/or operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, Water Quality Division, 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.

The permittee shall notify representatives from the DEQ, Water Quality Division when the construction commences and give an estimate of completion for the project. The authorized representative in your area can be contacted at the following address: WDEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; telephone (307) 332-3144; FAX (307) 332-3183.

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/or 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/or operator shall comply with all of the following permit conditions:

1. of 7. The applicant will provide immediate oral and/or written notice of any changes or modifications which are not consistent with the terms and conditions of this permit to the WDEQ, Water Quality Division, 250 Lincoln Street, 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.
2. of 7. This permit allows PacifiCorp to add boiler chemical cleaning waste and rinse water, a total of approximately 180,000 gallons of liquid, to the Flue Gas De-sulfurization (FGD) liquor waste stream on an annual basis as described in the permit application. This 180,000 gallons will be mixed with approximately 305,373,000 gallons of FGD liquor annually, which is approximately 0.06% of the total volume disposed of into FGD pond #2. Sampling of the boiler cleaning water will be required during each treatment, as well as semi-annual sampling in groundwater monitoring wells for a variety of compounds as outlined below. If contaminants of concern begin to appear in down gradient groundwater monitoring wells at significant levels, we will re-evaluate this permit.
3. of 7. This permit also allows PacifiCorp to transfer evaporation pond water into the adjacent FGD pond #2 on an "as needed" basis as described in the permit application. The purpose of the transfer is to maintain a shallow water cover over the precipitated salt material to prevent wind blown dust contamination. The evaporation pond water is used as "make up" water for the FGD process, therefore, no new waste material will be introduced into FGD pond #2.
4. of 7. WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of groundwater monitoring wells/piezometers and sample collection so that they may be on site if deemed necessary.
5. of 7. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
6. of 7. ***Environmental Monitoring Program for Groundwater of the State:***
  - i. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
  - ii. The permittee shall maintain records of all monitoring information for a period of at least 3 years.
  - iii. Records of monitoring information shall include:
  - iv. The date, exact place, and time of sampling or measurements;
  - v. The name(s) of individual(s) who performed the sampling or measurements;

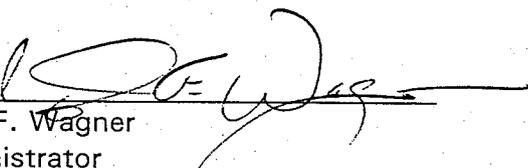
- vi. The Mean Sea Level elevation of the water table to the closest .01 ft., and the depth to water (to the closest .01 ft.) from a marked measuring point at the top of casing.
- vii. Sampling procedures and sample preservation accomplished;
- viii. The date(s) analyses were performed;
- ix. Names of individuals who performed the analyses;
- x. The analytical techniques or methods used; and
- xi. The results of such analyses.
- xii. Groundwater samples from the monitoring wells shall be analyzed as indicated on the following table. This table supercedes any previous permit requirements.

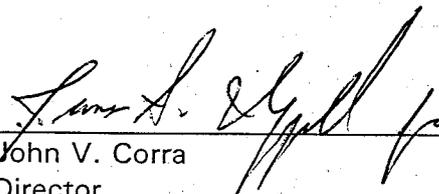
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT*
Boiler treatment water	Annual	Various	Arsenic, Barium, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Nickel, Phosphorus, Selenium, Sulfate, Thallium, Vanadium, Zinc, pH,	
Monitoring wells used for pond groundwater monitoring	Semi-annually			

\* Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l. unless otherwise noted.

7. of 7. PacifiCorp is required to submit the information described above. This information should be included in the annual groundwater monitoring report that is currently required for the FGD and Evaporation ponds at the site.

AUTHORIZED BY:

  
 John F. Wagner  
 Administrator  
 Water Quality Division

  
 John V. Corra  
 Director  
 Department of Environmental Quality

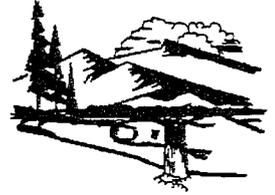
6/4/04  
 Date of Issuance

MFT/bb/4-0528.ltr

cc: IPS/Lander



# 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

November 9, 2009

Robert Arambel  
Plant Managing Director  
Jim Bridger Power Plant  
P.O. Box 158  
Point of Rocks, WY 82942

**Re: PacifiCorp Jim Bridger Power Plant, Request for Modification of Permit #04-204  
Waste Soda Liquor Waste Disposal for FGD Pond #2, October 21, 2009  
Sweetwater County, Wyoming**

Dear Mr. Arambel,

The WDEQ/WQD Groundwater Pollution Control (GPC) program has completed its review of the request listed above, to modify existing Permit-to-Construct #04-204. By way of reference, previous modifications to the permit have been requested and approved on grounds similar to the present one. They are as follows:

- May, 2004 PacifiCorp requested to modify Permit #04-204 in order to add two waste streams to the FGD Pond #2 for a total amount of 10,000 gallons per year. This modification was approved in June, 2004.
- January, 2006 PacifiCorp requested a modification to the permit to release rinses from boiler chemical cleaning operations into FGD Pond #2 in an annual total of 10,000 gallons. This request was granted in February, 2006.
- February, 2007 PacifiCorp requested to modify Permit 04-204 to include an annual disposal of 10,000 gallons of turbine waste into FGD Pond #2. This request was granted in March 2007 (see attached letter and review).

As outlined in the October 12, 2009 correspondence, the current proposal intends to dispose an initial batch of 75,000 gallons of waste soda liquor into the flue gas desulfurization pond (FGD Pond #2) with a potential up to 1,000,000 gallons per year. The plant uses soda liquor as the scrubbing reagent in the plant's four FGD sulfur dioxide (SO<sub>2</sub>) scrubbers. Although it is not anticipated that the entire amount will be generated each year, this quantity will provide adequate volume to allow the disposal of unused scrubbing reagent in the event of a catastrophic failure of one of the facility's soda liquor storage tanks. In the event that the maximum amount is introduced the quantity will be approximately 0.3% of the total volume of FGD Pond #2. Consequently, the proposed waste soda liquor appears to comply with the parameters of the Beville Amendment- i.e. low toxicity, large volume. Furthermore, the unused soda liquor has a comparable chemistry to the current waste steam. As a result, the disposal of the unused soda liquor should not adversely impact the properties of the pond.

F:\DIVISION\WQD\GPC\SITES\JIMBPPEVAP-PONDS\2009 2ND ADDITIONAL 04-204 MOD LTR.DOC

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

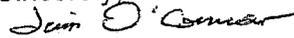
SOLID & HAZARDOUS WASTE  
(307) 332-6924  
FAX 332-7726

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



After reviewing the information pertaining to the waste soda liquor permission is granted to add the additional capacity to the permitted waste stream for FGD Pond #2. By way of reminder, please sample the waste stream for the same constituents as the boiler wash. Those details are provided in Permit-to-Construct #04-204. The analytical data will be included in the annual report. In the event that you have additional questions or concerns please contact me at (307) 335-6942 or the address provided above.

Sincerely,



Jim O'Connor, P.G.  
Project Geologist  
Water Quality Division

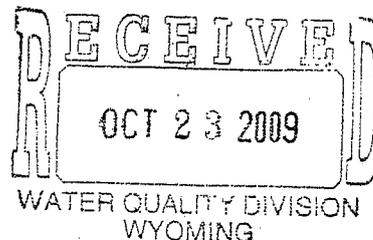
Attchs: PacifiCorp letter dated October 21, 2009 and GPC Review

cc: Mr. William Coble, Mayor, Town of Superior, PO Box 40, Superior, WY 82945 (w/attchs)  
Mr. Jeff Tucker, PacifiCorp, 1407 W. North Temple, Suite #270, SLC, UT 84140  
(w/attchs)  
Mr. Kevin Frederick, Manager, Groundwater Section, WQD/Cheyenne (w/ attchs)  
File(2): Jim Bridger Power Plant, Process Water Ponds, Sweetwater / Chron (letter only)  
IPS: (w/ attchs - letter and attachments to be added to Permit #04-204) ,



October 21, 2009

Jim O'Conner  
Groundwater Pollution Control West District Supervisor  
Water Quality Division  
510 Meadowview Dr.  
Lander, WY 82520



**WASTE SODA LIQUOR DISPOSAL**

Dear Mr. O'Conner:

The Jim Bridger plant is a coal-fired electric steam generation power plant located in Sweetwater County, Wyoming. Currently, the plant uses soda liquor as the scrubbing reagent in the plant's four flue gas desulfurization (FGD) sulfur dioxide scrubbers. The waste stream from the scrubbers is pumped from the facility and disposed of in FGD Pond #2. Permit No. 02-081R authorizing the enlargement of the pond was silent in respect to the materials disposed of in the pond. However, the permit application prepared for the pond enlargement indicated that the pond accepts spent scrubber waste and spent liquor transported to the pond as slurry via a pipeline from the plant to the pond. Any unused soda liquor waste generated from cleaning FGD system equipment, including soda liquor tanks, piping, and sumps, or the waste generated from any spills is not specifically mentioned in Permit No. 02-081R. Permit No. 04-204 was issued to modify the waste streams deposited into FGD Pond #2 to include boiler chemical cleaning waste and evaporation pond water. This permit was also silent regarding the disposal of unused soda liquor waste in FGD Pond #2.

At this time, the plant is requesting an amendment to Permit No. 04-204 to authorize PacifiCorp to dispose of up to 1,000,000 gallons per year of soda liquor waste in addition to scrubber waste in FGD Pond #2. Although we do not anticipate that 1,000,000 gallons of soda liquor waste will be generated per year; the 1,000,000 gallon annual quantity will provide adequate volume to allow the disposal of unused scrubbing reagent in the event of a catastrophic failure of one of the facility's soda liquor storage tanks. The addition of 1,000,000 gallons of waste soda liquor is approximately 0.3% of the total volume received by FGD Pond #2 each year, and because unused soda liquor has a comparable chemistry to the waste soda liquor currently disposed of in the pond, the disposal of unused soda liquor in the impoundment will not adversely affect or impact the properties of FGD Pond #2. Additionally, the disposal of soda liquor into the pond will assist in maintaining the pH of the pond water above 7, which has the benefit of reducing emissions by preventing SO<sub>2</sub> off-gassing from the pond. SO<sub>2</sub> off-gassing emissions from the pond decrease as the pH of the pond increases.

Please contact Eddie Baker at (307) 352-4366 if you have any questions or comments regarding our request to amend Division of Water Quality permit No. 04-204 to authorize the disposal of up to 1,000,000 gallons per year of unused scrubber reagent soda liquor waste in FGD Pond #2.

Sincerely,



Bob Arambel  
Managing Director  
Jim Bridger Power Plant

**PERMIT TO CONSTRUCT, INSTALL OR MODIFY  
PUBLIC WATER SUPPLIES, WASTE WATER FACILITIES, DISPOSAL  
SYSTEMS, BIOSOLIDS MANAGEMENT FACILITIES, TREATED  
WASTEWATER REUSE SYSTEMS AND OTHER FACILITIES CAPABLE OF  
CAUSING OR CONTRIBUTING TO POLLUTION**

FOR USE BY DEQ/WQD ONLY  
APPLICATION NO. 04-204 *Lander*  
DATE RECEIVED: MAY 12 2004  
PROGRAM ASSIGNED: WQD  
MAY 12 2004

Application must contain three copies each of the following: application form, plans, specifications, and pertinent design information. Submit to appropriate field office.

- DEQ/Water Quality Division, 122 West 25th Street, Herschler Building, 4W, Cheyenne, WY 82002 WYOM(307) 777-7781
- DEQ/Water Quality Division, 250 Lincoln Street, Lander, WY 82520 (307) 332-3144
- DEQ/Water Quality Division, 1043 Coffeen Avenue, Suite D, Sheridan, WY 82801 (307) 672-6457
- DEQ/Water Quality Division, 3030 Energy Lane, Suite 200, Casper, WY 82604 (307) 473-3465

Name of facility: Jim Bridger Power Plant

<b>Location of facility:</b> County: <u>Sweetwater</u> Township: <u>20N</u> Range: <u>XNN 101W</u> Section: <u>3</u> ¼ Section: <u>-</u> or if available Latitude _____ Longitude _____	<b>Type of application:</b> <input type="checkbox"/> As built permit <input checked="" type="checkbox"/> New permit <input type="checkbox"/> General Permit <input type="checkbox"/> Revised permit* <input type="checkbox"/> Standard specification <input type="checkbox"/> Renewal of permit* *Previous DEQ/WQD construction permit no(s). if applicable (revision or renewal) _____
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**Individual Permits Type of Project (Mark all that apply)**

- Water and Wastewater Program**
- Public water supply including 15 or more service connections or regularly serves 25 or more people; If applicable, PWS # \_\_\_\_\_ ground or surface water source, transmission line, treatment plant, chlorination or pumping system, storage facility, backflow prevention device, or laboratory NPDES # \_\_\_\_\_
  - Wastewater facility including domestic sewage pond, disinfection, collection or pumping system, evaporative/containment pond, sedimentation pond, mechanical treatment plant, oil/water separator (external to a structure), sludge facility or laboratory If applicable, NPDES # \_\_\_\_\_
  - Small wastewater facility Septic tanks, single unit, domestic sewage, less than 2,000 gallons
  - Land application system including road application, land farming or one-time land application

- Groundwater Pollution Control (GPC) Program**
- Subsurface investigation facilities
  - Groundwater and contamination containment systems
  - Groundwater remediation/ treatment systems

**General Permit in accordance with Chapter 3 Section 7**

- Small wastewater facilities
- Sewage collection systems
- Water distribution systems
- Pilot plants

Water Quality Rules and Regulations Chapter III  
 Director  
 Department of Environmental Quality  
 PERMIT NO. 04-204  
 DATE 6/7/04  
 BY Mark Turner

### **Purpose for the new permit:**

This permit application is submitted to add additional waste streams to FGD Pond 2. Currently we are permitted to dispose of waste liquor produced by the Jim Bridger Flue Gas Desulphurization (FGD) systems in FGD Pond 2. There are no anticipated construction changes planned for the pond itself as part of this permit. The only planned construction associated with this permitting is minor piping changes that will enable us to pump boiler chemical cleaning waste from the boiler drains to FGD Pond 2. In addition, we are requesting to be permitted to transfer waste water from the evaporation pond to the adjacent FGD Pond 2. The Evaporation Pond waste stream is composed of cooling tower blow down, bottom ash system water, and general plant waste water. These waste water streams are currently used as the makeup water source for the FGD system, and thus are already a component of the waste waters entering FGD Pond 2. The ability to move water from the Evaporation Pond to the FGD pond will enable us to control dust from the surface of FGD Pond 2.

### **Description of new waste water streams and anticipated impacts to FGD Pond 2:**

#### **Boiler chemical cleaning wastes:**

Approximately 450GPM of demineralized water is made up to our boilers. Trace amounts of metals and minerals precipitate out of the water and deposit on the inside of the boiler tubes eventually generating problems including contributing to tube failures and reducing heat transfer. Periodically the tubes are cleaned by pumping a cleaning agent through the tubes. We currently clean one of the four boilers on site each year, and each boiler is cleaned every four years. Boiler cleanings are scheduled based on tube deposit analysis. In the future it may be required to adjust boiler cleaning frequency. During a typical boiler chemical cleaning event we add a chemical and allow it to circulate in the boiler. We are currently using Versene ("ETDA", a Tetra-ammonium salt of ethylenediaminetetracetic acid, CAS # 020824-56-0 45% and CAS # 007732-18-5 55%), an industry standard, as our cleaning chemical. Once we have removed the deposits, the chemical is released by completely draining the boiler in the first "wash". The initial wash is followed by two rinses with clean demineralized water. After two rinses any subsequent rinses should come out devoid of any chemical cleaning chemical or released metals. Each boiler and its associated piping at Jim Bridger contains approximately 61,000 gallons. Thus during each chemical cleaning we generate approximately 183,000 gallons of waste water containing boiler chemical cleaning wastes. Release of the wash and the two rinses in a typical cleaning would take place over three to four days. The releases will be piped from the boiler to the FGD waste liquor system which is pumped to FGD Pond 2. The FGD system typically discharges 580GPM of spent liquor into FGD Pond 2. The FGD wastes are glauber salts in solution. Given the relative difference in flow rates between the two waste streams, the boiler chemical cleaning wastes will constitute approximately 7 percent of the material entering the pond during the three day period that we are performing a chemical cleaning of the boiler. Annually we release approximately 305,373,000 gallons of spent scrubber liquor into FGD Pond 2. This means that each chemical cleaning event will amount to 0.06 % percent of the annual quantity of wastes added to the pond. As outlined in the EPA "Dietrich Letter", the Beville Amendment allows boiler chemical cleaning wastes to be co-disposed with the much more abundant FGD Pond wastes.

FGD Pond 2 has consistently had a pH of 8 to 9 which is similar to the pH of the released boiler chemical cleaning chemicals. Given the similar pH levels and the tiny fraction of the pond that boiler chemical cleaning wastes represent we would anticipate no impacts on pond pH and thus on SO<sub>2</sub> offgasing. ETDA is a metal scavenger with maximum chelating abilities in the pH range of 8 to 9. ETDA is itself a biodegradable material. Given these factors, and the small fraction of the pond volume that these releases will represent we would expect any chemical impacts in the pond to be extremely minor.

#### **Evaporation Pond waste water**

Evaporation Pond waste water arises from cooling tower blowdown, bottom ash water, and water from the general plant drains. As discussed above these are the sources of makeup water for the FGD system and thus are already major components of the water entering FGD Pond 2. In addition, FGD Pond 2 was originally a part of the evaporation pond and had for years received evaporation pond water prior to being

isolated by a dike and made into an FGD pond. Given that Evaporation Pond water is an integral part of scrubber waste liquor we anticipate no impacts of adding additional Evaporation Pond water to FGD Pond 2. We will continue to comply with the permitted maximum elevation limit for the pond and will maintain the liquid level within two feet of the top of the precipitated glauber salts to minimize wave impacts to the dam.

#### Testing and preventative measures

Versene is widely used and our cleaning contractor and PacifiCorp's analysis indicate that the metals concentrations in the waste waters arising from the cleaning have historical been at low levels. In 2003 we collected a sample from the initial wash and had it analyzed (see Appendix A). To establish a plant-wide baseline for boiler chemical cleaning episodes at the Jim Bridger Power Plant, we will perform a chemical cleaning of the Unit 4 boiler in 2004. The sampling and analyses of the cleaning waste will follow the EPA protocol described in publication SW-846, and we will collect the initial wash and the subsequent two rinses in a series of interconnected frac tanks. Because the wash and rinses are sequential events we will be able to collect a sample of the wash prior to the subsequent addition of the rinses to the frac tanks. Following the EPA protocol we do consider the wash and the two rinses one waste stream with respect to our disposal options. We will analyze the initial wash and the pooled wash and rinse waters for heavy metal concentrations and submit the results to the state of Wyoming Department of Environmental Quality. Annually there after we will collect a grab sample of the wash waste water collected from a sample port in the discharge line, have it analyzed, and submit a report of the results to the state. This monitoring program will make sure that boiler chemical cleaning events in future years do not introduce significantly greater amounts of metals into the pond.

We currently have an extensive ground water monitoring network around the FGD ponds and we will add metals analyses to those already performed, to monitor for any migration of metals from the pond.

In summary, this permit revision will enable us to add Evaporation Pond water and boiler chemical cleaning wastes to the FGD Pond 2 waste stream. Evaporation Pond water is a key component of scrubber make up water and thus already a major component of wastes in FGD Pond 2. The boiler chemical cleaning wastes will represent less than 0.1 percent of the annual addition of wastes to FGD Pond 2. We will monitor the quantities of metals entering the pond each year and monitor ground water to see if the metals are leaving the FGD Pond 2 in ground water. We have no concerns that this minor permit revision will result in negative impacts to the environment.

#### Construction work associated with this permit

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The only construction activities associated with this project will be installation of discharge lines from each boiler to the existing FGD waste discharge lines which run from the scrubber associated with each boiler to the Central Support Facility and then on to FGD Pond 2. Each line will contain a sample port, appropriate valving and possibly a pump.

Appendix A. Analysis of 2003 Boiler Chemical clean from the initial wash

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
250 Lincoln Street  
Lander, Wyoming 82520  
(307)332-3144

**SITE NAME:** JIM BRIDGER POWER PLANT FGD POND #2

**SITE STATUS:** SITE REMEDIATION

**APPLICANT:**  
Robert Arambel, Managing Director  
Jim Bridger Power Plant  
P.O. Box 158  
Point of Rocks, WY 82942

**ENGINEER/CONSULTANT:**  
N/A

**WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER:** 04-204

EXISTING       NEW       AS BUILT

**TITLE:** Jim Bridger Power Plant, FGD Pond 2 Waste Stream Modification

PLANS       SPECS       PROPOSAL       REPORT  
[Check all that APPLY]

**DATE ON PROPOSAL/PLANS/REPORT:** October 21, 2009 (date stamped 10/23/09)

**IS THIS PROPOSAL SUBMITTED PURSUANT TO:**

'CONDITIONS' TO ANY WQD PERMIT?  NO       YES

AN LOV, NOV OR OTHER ENFORCEMENT?  NO       YES [DATE]

**REVIEWING OFFICIALS:** Mark Thiesse, P.G. (original review); James O'Connor, P.G. (current review) JOC

**DATE OF THIS REVIEW:** November 9, 2009

**ACTION:** Modification to Permit #04-204 Authorized

## COMMENTS: GROUNDWATER SECTION

### 1.0 SUMMARY OF EXISTING CONTAMINATION:

**1.1 Site Description.** The plant is located 10 miles east of Superior, Wyoming, in Sweetwater County. The legal description is Section 35, T21N, R101W. The property is owned by PacifiCorp. Four coal-fired boilers produce steam for turbines used to generate electricity. The steam is then condensed into water in evaporative cooling towers and re-circulated back to the boilers for reuse. Exhaust gas from the boilers is routed through scrubbers that remove sulfur dioxide. The primary wastewater solutions produced by the plant are evaporation water and spent flue-gas desulfurization (FGD) solution which are stored and disposed of in ponds.

**1.2 Site History.** Four ponds exist northwest of the facility: FGD Pond 1, FGD Pond 2, Evaporation Pond, and the Surge Pond. FGD Pond 2 was constructed in November 1974, before the construction of any other ponds. The Evaporation Pond was constructed in November 1976. FGD Pond 1 was constructed in 1979 (a liner of compacted native material was installed on the bottom of FGD Pond 1 to minimize seepage, and is the only lined pond at the facility). The Surge Pond is located about ½ mile south of the plant and receives incoming water from the Green River pipeline serving the facility (the Surge Pond water is not expected to have a negative impact on groundwater quality). Because most of the ponds are not lined, there has been impact to the native groundwater from the high total dissolved solids (TDS), water in the FGD ponds. TDS in the FGD ponds average approximately 140,000 mg/l and the Evaporation pond averages about 6,000 mg/l. Background concentrations in the Lewis shale range from 1,000 to 140,000 mg/l TDS, while the readings from the Almond sandstone range from 1,000 to 3,000 mg/l. The variations in TDS levels are explained in the following sections. Groundwater and pond water sampling has been done for many years. The monitoring has shown an elevated TDS groundwater plume leaving the ponds, impacting the down gradient groundwater. An initial groundwater model was created in 1997 by Hydro Geo Chem. The modeled migration of the TDS plume was proven to be wrong as demonstrated by the monitoring data. After only a few years, the TDS plume had migrated further down the valley alluvium than the model had predicted in a 15 year time frame. Therefore, a new model was created by Water and Environmental Technologies (W&ET) in 2000 and modified in 2001 and 2002. The latest models were created to model the impacts from the proposed expansion of FGD Pond 2 and the closure of FGD Pond 1.

**1.3 Summary of Soil and Groundwater Contamination.** The main impact at this facility is caused by high TDS process water seeping from the FGD ponds into the groundwater. Most all of the down gradient wells show at least some impact from the FGD water. TDS levels over 100,000 ppm have been measured in the monitoring wells.

**1.4 Hydrogeology.** Three water bearing formations exist in the area: the Quaternary alluvium, the Lewis Shale, and the Almond Sandstone.

**1.4.1 Alluvium.** The alluvium and weathered portions of the upper Lewis Shale are considered as a single, heterogeneous aquifer. The alluvium is derived by weathering of the underlying Almond and Lewis formations. It is composed of clay and silt with minor amounts of sand and gravel. Thicknesses vary from zero to over 100 feet. Measured transmissivities in the alluvium range from 6 to 300 ft<sup>2</sup>/day. The TDS concentrations range from 830 to 140,000 mg/l. This is dependant on the location of the well and the

source of the water. Wells located in alluvium composed mainly of the Almond formation and other sandy to silty sources have relatively low TDS concentrations. Those wells installed in areas over lying the Lewis shale or alluvium primarily composed of shale have generally higher TDS readings. Another factor is the amount of time the water is in contact with the soil. The groundwater absorbs minerals from the shale and causes an increase in TDS over time.

**1.4.2 Lewis Formation.** The Lewis Formation overlies the Almond Sandstone in this area. The Lewis consists of calcareous, silty, gypsum shale with thin beds of limestone, siltstone, bentonite and dark calcareous shale. A zone of Weathered Lewis ranging from approximately 10 to around 60 feet thick overlies the competent Lewis formation. The thickness of the Lewis aquifer ranges from zero to greater than 100 feet. The shale generally has a transmissivity of less than 2 ft<sup>2</sup>/day. In areas fractured through faulting, and in the weathered Lewis; the transmissivities increase to around 400 ft<sup>2</sup>/day. TDS concentrations in the Lewis range from 16,000 to over 100,000 mg/l. This large variation in TDS is primarily due to the time that the water has been in contact with the shale as mentioned above.

**1.4.3 Almond Formation.** The Almond Formation is a fine to medium grained massive sandstone. The total thickness of this formation is approximately 700 feet in this area. The Almond is fractured along historic faults. The transmissivity and hydraulic gradient along the fracture zones are much higher than where fracturing is not present. West of the contact with the Lewis, the Almond is an unconfined aquifer, with a hydraulic gradient of approximately 0.02 ft/ft to the west. East of the contact, the Almond is confined by the Lewis and has an upward hydraulic gradient. The transmissivities of the Almond vary with location, considering the fracturing mentioned above. The transmissivities are one to two orders of magnitude higher along the fault lines (where the drainages are also located). The transmissivities have been measured ranging from 5 to 500 ft<sup>2</sup>/day. The TDS values in the Almond have been measured in the 300 to 600 mg/l range. The town of Superior uses groundwater in the Almond as their drinking water source, thereby making this formation a Class I aquifer.

## **2.0 CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:**

**2.1 Groundwater Monitoring.** Groundwater monitoring has been performed since 1974 at the facility. A formal monitoring program began in 1979 following the construction of the FGD and Evaporation pond. Semi-annual monitoring began in 1983 and continues to the present. Sampling is normally done in the spring and fall. Twenty-five wells are currently being used to monitor groundwater quality, and 15 other wells are used for groundwater elevation readings only. The analytical results are summarized by formation as follows:

**2.1.1 Alluvium.** Groundwater quality of the alluvium is monitored through three (3) wells, AL-1, W-4 and W-5. Well W-5 is the oldest well with the most data, and is located down gradient of the Jim Bridger Plant. The alluvium groundwater has TDS concentrations that range from 90,000 to 140,000 mg/l in samples from well W-5, which is the highest of the three alluvium wells. A general decline in sulfate and TDS corresponds with a general increase in water elevation since the ponds start of operation. In well W-5 chloride concentrations have remained relatively constant at around 2000 mg/l and sulfate concentrations have slowly decreased to from 80,000 mg/l to 40,000 mg/l. TDS concentrations have tracked well with the decline of sulfate, and have dropped from

approximately 130,000 mg/l to 83,000 mg/l. Well AI-1 has TDS concentrations ranging from 10,200 increasing to 11,600 mg/l in 2000. Well W-4 has TDS readings ranging from 28,200 to 33,500 mg/l, with no discernable pattern.

**2.1.2 Lewis Shale.** Groundwater in the Lewis is monitored by ten (10) wells. The TDS values range from about 2,000 mg/l to almost 120,000 mg/l, depending on location. Those wells located closer to the FGD ponds have higher readings, those located up gradient have the lowest (background) readings. Another factor in the readings is the location of higher conductivity zones where fracturing from faulting is thought to have caused higher groundwater flow rates.

**2.1.3 Almond Formation.** Eleven (11) groundwater wells are used to monitor the Almond sandstone. The TDS values for these wells range from 600 mg/l (background) to over 19,000 mg/l in the most highly impacted well (Well 566-WA). The TDS values in 566-WA appear to be decreasing as time passes. This is attributed to an initial "slug" of high TDS groundwater, both from the ponds and from natural wetting of the vadose zone as the groundwater levels rose. The rising groundwater re-mobilized salts in the sandstone that had previously been dry. This is also the process that appears to have initially increased the readings in the Almond shale.

The Almond formation is one of the sources of the Town of Superior's drinking water. They have a well completed at a depth of approximately 900 feet, located about ½ mile north east of the anticipated pond expansion footprint. Because of the very slim potential for the FGD Pond water to impact the well, Superior and PacifiCorp have reached an agreement for protecting, monitoring, and, if necessary, replacing the source of water if the well does become impacted.

**2.1.4 Groundwater Impacts.** As mentioned above, groundwater monitoring has shown that water from the FGD ponds (both FDG #1 and FGD #2) have leaked through the ponds in to the shallow groundwater adjacent to, and down gradient of the ponds. FGD pond #1 has caused groundwater impacts that are mainly confined to the Almond formation. The Almond TDS plume heads in a generally eastward direction from FGD pond #1 under the evaporation pond, towards the Deadman Wash valley. This is a fairly narrow confined plume with TDS concentrations measured in 2001 as high as 39,300 mg/l.

Impacts from FGD pond #2 are observed in the Lewis Shale and in the Alluvium. The Lewis Shale impacts are widespread with a general east to northeast migration direction. This direction follows the dip of the formations. The highest readings of TDS in the Lewis are approximately 60,000 mg/l with noticeable impacts in the range of 30,000 mg/l located in wells near Deadman Wash. 2001 TDS concentrations in the Alluvium reach a maximum of 22,500 mg/l just northeast of FGD pond #2, and increases are mapped to the east and running down the Deadman Wash drainage to the south. The impacts in the Alluvium appear to be the most wide spread, showing the greatest down gradient migration distances. However, these contaminants are also found at relatively lower concentrations, staying in the 10,000 to 20,000 mg/l range as you move down Deadman Wash.

## 2.2 Pond Waste Stream

**Previous permit modifications** have been approved for changes to the FGD liquor waste stream. The original permit for FGD pond #2 (#89-523R) only allowed FGD liquor disposal. This permit was modified by Permit #04-204 to allow for disposal of boiler cleaning waste and for the addition of water from the Evaporation Pond into FGD Pond #2. PacifiCorp requested the addition of turbine cleaning wash wastewater and rinsate into the FGD Pond. On an annual basis, PacifiCorp proposed to clean turbines using a mixture of ammonium bicarbonate, 29.4% aqueous ammonia, and 35% hydrogen peroxide. Approximately 10,000 gallons of waste water were generated on an annual basis. As explained in Permit 04-204, the EPA allowed for the combination of waste streams, especially when the volumes are very minor compared to the primary waste stream (i.e., Bevill Amendment and Dietrich letter). The turbine waste water was estimated to be approximately 0.00003% of the total volume placed into this pond each year.

As stipulated by the conditions of the amendment, PacifiCorp agreed to sample and analyze the turbine rinsate for a variety of compounds during each treatment, as well as sample for the same compounds during the semi-annual groundwater monitoring currently conducted at the site.

**The current permit modification** proposes disposal of additional soda liquor into the waste stream. An initial quantity of 75,000 gallons (approximate) are proposed for immediate disposal under the current modification. Additionally, the modification proposes a total of 1 million gallon annual disposal capacity in the event of a catastrophic failure of one of the facility's soda liquor storage tanks. If fully utilized this quantity would be approximately 0.3% of the total volume of the FGD Pond #2 waste stream.

### **3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:**

**3.1** The Permit Application (#04-204) modification as described above is approved as submitted. We require sampling for the compounds listed in Permit 04-204. This is the same sampling suite as for the boiler cleaning. We will require sampling of all active monitoring wells for the specified constituents until further notice. If any of the target compounds begin appearing in the down gradient monitoring wells at significant levels, we will re-evaluate the basis for this permit.

**END OF REVIEW**



The State  
of Wyoming



# Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

## NOTIFICATION OF COVERAGE

May 13, 2004

Marlene McKinstry, Owner  
P.O. Box 967  
Worland, Wyoming 82401

RE: Hot Springs County - Small Waste Treatment Facility - Permit Number: 04-205,  
S1/2NE1/4 Section 17, T44N, R94W, Hot Springs County

Dear Ms. McKinstry:

The above application for coverage under General Permit to Construct a small wastewater treatment facility consisting of a septic tank and leach field to serve a three-bedroom home in accordance with Chapter 3, Section 7 and Chapter 11, Part D 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 permit. The following conditions apply to this permit:

- 1) An absorption field of at least 22 chamber units at 40 ft<sup>2</sup> per unit is required.
- 2) The trench bottom for the chamber system must be at least 4 feet above the seasonally high ground water.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Small Wastewater Treatment Facility

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-206

REFERENCE PERMIT NO. 00-241

DNA VENTURES SUBDIVISION-OFFSITE SANITARY SEWER

This permit hereby authorizes the applicant:

City of Sheridan  
P.O. Box 848  
Sheridan, Wyoming, 82801

to construct, install or modify a sanitary sewer collection line extension according to the procedures and conditions of the application number 04-206. The facility is located in SE/4 NE/4 of Section 2 Township 55 North, Range 84 West, in the county of Sheridan, in the State of Wyoming.

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, 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, as constructed, meets 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.

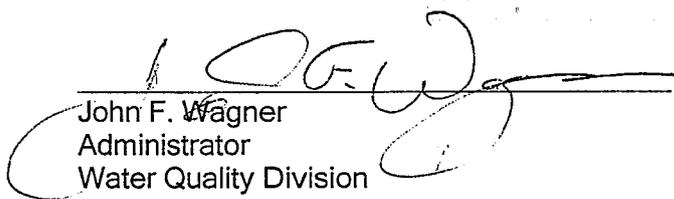
Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and operator to comply with all applicable federal, state and local laws or regulations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

By transfer of this permit, the permittee, owner and operator shall comply with all of the existing permit conditions:

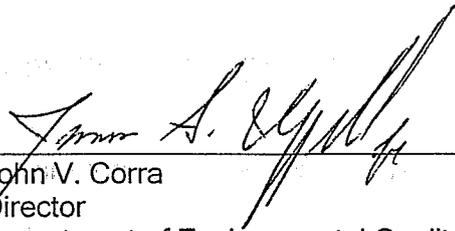
1 of 1 Facility was originally permitted in August 2002 under permit 00-241.

AUTHORIZED BY:

  
\_\_\_\_\_  
John F. Wagner  
Administrator  
Water Quality Division

6/4/07  
Date of Issuance

RJE/pf/4-0554-ltr

  
\_\_\_\_\_  
John V. Corra  
Director  
Department of Environmental Quality

## STATEMENT OF BASIS

1. Permit Number: 04-206
2. Application reviewed for compliance with the following applicable regulations :  
Chapter 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
5. Documentation of Statement of Basis: The archives file for this permit include 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 Rick J. Estes, PE, restes1@state.wy.us, Northeast District Senior Environmental Analyst, and completed on June 4, 2004. 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

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Dave Freudenthal, Governor

AIR QUALITY  
(307) 672-6457  
Fax (307) 674-6050

LAND QUALITY  
(307) 672-6488  
Fax (307) 672-2213

WATER QUALITY  
(307) 672-6457  
Fax (307) 674-6050

### NOTIFICATION OF COVERAGE

June 4, 2004

Mike Cole  
P.O. Box 848  
Sheridan, WY 82801

RE: Heartland Commercial Area Sewer Extension and Water Distribution Lines WDEQ Permit Transfer, New Permit # 04-207, Old Permit # 01-180

Dear Mike:

WDEQ Permit #01-180 issued to DNA Ventures for coverage under a General Permit to Construct, Install, Modify or Operate an extension to an existing sewage collection and water distribution system in accordance with Chapter 3 and Chapters 11 and 12 of the Wyoming Water Quality Rules and Regulations (WWQRR) and has been completed and approved for transfer to City ownership .

If you have any questions please contact me at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457. Thank you.

Sincerely,

Rick J. Estes, P.E.  
WDEQ/WQD NE District Senior Environmental Analyst

cc: ~~\_\_\_\_\_~~ IPS, Cheyenne

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-208

East Casper Zone 2 Water System Improvements  
PWS# WY 5601415

This permit hereby authorizes the applicant:

City of Casper  
200 N. David  
Casper, Wyoming 82601

to construct, install or modify a water supply system with 2 finished water storage tanks and a 20" water line according to the procedures and conditions of the application number 04-208. The facility is located in SE/4 of Section 14, Township 33 North, Range 79 West and Sections 17, 18, 19, & 20 Township 33 North Range 78W in the county of Natrona, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 1, 2005.

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.

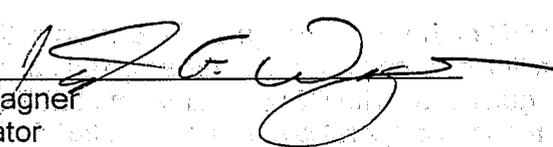
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

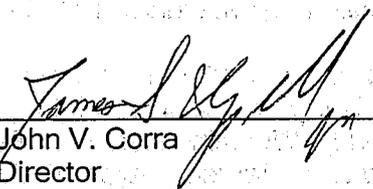
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 DEQ/WQD Northeast District Office 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 DEQ/WQD Northeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
  - 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. 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

5/18/04  
\_\_\_\_\_  
Date of Issuance

JVC/JFW/JDL/pf-4-0488-ltr

cc: WDEQ Casper Field Office

## STATEMENT OF BASIS

1. Permit Number: 04-208
2. Application reviewed for compliance with the following applicable regulations :
  - a. Chapter 12.
3. Does the permit comply with all applicable regulations identified above?
  - a. Yes.
4. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.

Not required

5. Documentation of Statement of Basis.

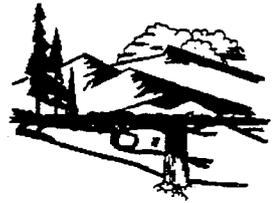
The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, Northeast District Supervisor, and completed on May 13, 2004. 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

Westfield Land Development LLC  
Attn. Kurtis A. Hoeven, Managing Member  
208 Racquette Drive  
Fort Collins, Colorado 80525

RE: Westfield Village Second Filing, Laramie, Wyoming - Water & Sewer Extensions,  
Application No. **04-210**

Dear Mr. Hoeven:

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, the condition listed below, and the materials submitted in your application package. All water service connections will be protected by the appropriate backflow device as required by Chapter 12, Section 14(i) of the Water Quality Division Rules and Regulations. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Additionally, the following project specific condition also applies:

Water/Sewer Crossings - Flow Fill Encasement Requirement - All water/sewer crossings where the sewer line crosses above the water line shall be encased in flow fill as per the detail submitted. This shall include not only the two locations specified, but also other locations such as on the Evans Street water line at the Westview Ct. and Pierson Ct. intersections where these sewers cross above the Evans Street water line.



The approval granted under this Notification Of Coverage and the General Permit shall expire on July 30, 2006. Please reference Application Number 04-210 in any future correspondence.

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

Sincerely,



Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/pf/4-0784.let

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: IPS, Cheyenne  
Roger Curtiss, Northern Engineering Services, 420 South Howes St., Fort Collins, CO  
80521

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-211

Lingle Water Tower Replacement  
PWS: 5600030C

This permit hereby authorizes the applicant:

Town of Lingle  
P.O. Box 448  
Lingle, WY, 82223

to construct, install or modify a replacement water tower with associated piping according to the procedures and conditions of the application number 04-211. The facility is located in NW 1/4 NE 1/4 Section 18 T25N R62W in the county of Goshen, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 11, 2006.

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.

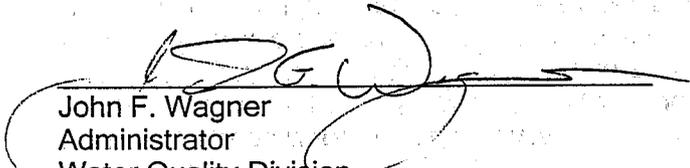
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and

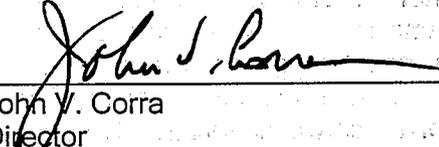
permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 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 of 3 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 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

6/7/04  
Date of Issuance

JVC/JFW/LBH/pf/4-0552-ltr

## STATEMENT OF BASIS

1. Permit Number: 04-211
2. Application reviewed for compliance with the following applicable regulations :  
Chapter(s) 3 and 12 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?  
YES  
Public water supplies are exempted from review by Chapter 3, Section 17.
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.
5. Documentation of Statement of Basis: The archives file for this permit include 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 B. Harmon PE-PG, Southeast District Engineer, lharmo@state.wy.us, and completed on June 3, 2004. 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."

LBH/pf/4-0552-ltr



The State  
of Wyoming



## Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

May 21, 2004

Ms. Julie Morrell  
P.O. Box 1501  
Pinedale, WY 82941

RE: **Willow Woods, Permit Number 04-212R**; NW1/4 Section 3, T33N, R109W, Sublette  
County

Dear Ms. Morrell:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems and Existing Sewage Collection Systems in accordance with Chapter 3, Section 7, Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facilities 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 me at 307-332-3144.

Sincerely,

Doyle Conklin  
SW District Engineering Supervisor  
Water Quality Division

xc: IPS, Cheyenne  
City of Pinedale; Attn: Ron Brown; P.O. Box 709; Pinedale, WY 82941  
encl: Extensions to Existing Public Water Supply Distribution Systems  
Extensions to Existing Sewage Collection Systems



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# Department of Environmental Quality

Dave Freudenthal, Governor

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## NOTIFICATION OF COVERAGE

July 2, 2004

Ben Doud, Owner  
780 Simms Street, Suite 104  
Golden, CO 80401

RE: Rock Springs - Bitter Creek Bend Water Main Extension - Permit Number:  
04-213R,NW1/4&NE1/4 Section 34,T18N,R105W, Sweetwater County

Dear Mr. Doud:

The above application for coverage under General Permit to Construct a water main extension consisting of 2441 linear feet of 12-inch PVC 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 permit.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Public Water Supply Distribution System



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## Department of Environmental Quality

Dave Freudenthal, Governor

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(307) 332-3144

### NOTIFICATION OF COVERAGE

May 21, 2004

Jack States, Chairman  
Museum of the American West  
1445 West Main  
Lander, WY 82520

RE: Museum of the American West, Permit Number #04-214  
Fremont County

Dear Mr. States:

The above application for coverage under General Permit to Construct an eight inch diameter water main extension 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 permit.

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

Sincerely,

A handwritten signature in cursive script that reads "Jeff Hermansky".

Jeff Hermansky  
Northwest District Supervising Engineer  
Water Quality Division

xc: IPS, Cheyenne



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## Department of Environmental Quality

Dave Freudenthal, Governor

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(307) 332-3144

### NOTIFICATION OF COVERAGE

June 21, 2004

David W. Voorhees, Owner  
826 Broadway  
Thermopolis, Wyoming 82443

RE: David Voorhees - Small Waste Treatment Facility - Permit Number: 04-215R,  
Lot 10 Section 7, T43N, R94W, Hot Springs County

Dear Mr. Voorhees:

The above application for coverage under General Permit to Construct a small wastewater treatment facility consisting of a septic tank and leach field to serve a three-bedroom home in accordance with Chapter 3, Section 7 and Chapter 11, Part D 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 permit.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Small Wastewater Treatment Facility



The State  
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## Department of Environmental Quality

Dave Freudenthal, Governor

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WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

June 7, 2004

Dorothy J. Overfield, Manager  
Northwest Rural Water District  
P.O. Box 2347  
Cody, Wyoming 82414

RE: Northwest Rural Water District - Snyder Treated Water Extension-Line 853 - Permit Number: 04-216, NW1/4 Section 22(O.S.), T56N, R96W, Park County, PWS # 5601254

Dear Ms. Overfield:

The above application for coverage under General Permit to Construct a water line extension to serve 5 rural services consisting of 450 linear feet (LF) of 2-inch water main and appurtenances 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 permit.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Public Water Supply Distribution System,

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-217

Dubois- Wastewater Treatment Plant - Cell No. 2 Center Dike

This permit hereby authorizes the applicant:

Bob Baker, Mayor  
Town of Dubois  
P.O. Box 555  
Dubois, WY 82513

to construct a center dike across Cell No. 2 to reduce short circuiting, according to the procedures and conditions of the application number 04-217. The facility is located at SE1/4 Section 7, T41N, R106W in the county of Fremont, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by July 15, 2006.

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.

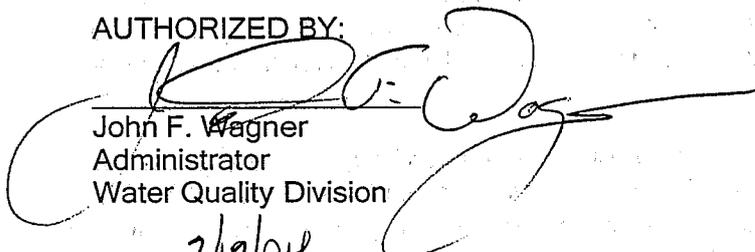
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

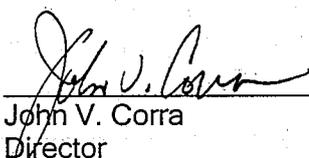
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3      The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 250 Lincoln Street, 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 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 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

7/9/04  
Date of Issuance

  
John V. Corra  
Director  
Department of Environmental Quality

JVC/JFW/MDB/pf/4-0724-ltr

## STATEMENT OF BASIS

1. Permit Number: 04-217R
2. Application reviewed for compliance with the following regulations:  
Chapters 3 and 11 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above?  
The approval is based upon a deviation from applicable regulations in accordance with Section 5 of Chapter 11.
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 the applicable regulations.
  - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulations.  
  
The permit includes approval to deviate from the following regulatory requirements:  
  
Chapter 11, Section 18 (d)(i)(A) requires that dikes and embankments shall be of relatively impervious and stable material, and compacted to at least 95 percent of maximum density (ASTM D698-78). Embankment fill shall be free from organic material, rock larger than six inches (15.2 cm) and construction debris.  
  
Briefly state the basis for the deviation.  
  
The dike across Cell #2 is designed to be porous and will function as a baffle to reduce short reduce short circuiting due to wind and the hydraulic gradient.
5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
  
Not Required
6. Documentation of Statement of Basis: The archives file for this permit include 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, mbaron@state.wy.us, Environmental Senior Analyst and completed on July 15, 2004. 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."

MDB



The State  
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# Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

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(307) 332-6924

WATER QUALITY  
(307) 332-3144

## NOTIFICATION OF COVERAGE

July 8, 2004

Thomas E. Spicer, Manager  
Red Top Limited Partnership  
2201 Skyview Drive  
Rock Springs, WY 82901

RE: Rock Springs -Sweetwater Station Addition Phase 1 - Permit Number: 04-218,  
Section 16,T19N,R105W, Sweetwater County

Dear Mr. Spicer:

The above application for coverage under General Permits to Construct water and sewer main extensions to serve 26 residential lots, consisting of 3315 linear feet (LF) of 12-inch and 445 LF of 8-inch watermain and 4640 LF of 8-inch sewer main in accordance with Chapter 3, Section 7 and Chapter 12, Section 12 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 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 permit.

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

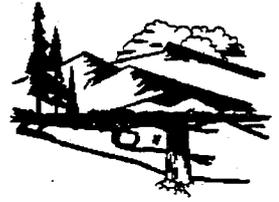
Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Public Water Supply Distribution System,  
General Permit For a Sewage Collection System



# 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 25, 2004

Arthur & DeeAnn Hansen, and  
Robert & Jennifer Georges  
5504 Townsend Place, #13  
Cheyenne, Wyoming 82009

RE: Georges/Hansen Residential Septic System,  
Location: NE 1/4 SW 1/4, Section 03, T27N, R66W,

Application No. **04-219**  
Platte County

Dear Georges's and Hansen's:

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 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 tank must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on May 31, 2006. Please reference Application Number 04-219 in any future correspondence.

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

Sincerely,

Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/pf/4-0522-ltr

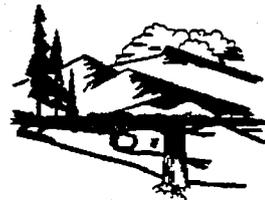
Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

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





# 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 7, 2004

Mr. Herman Noe, Manager of Engineering  
Cheyenne Board of Public Utilities  
P.O. Box 1469  
Cheyenne WY 82003-1469

RE: East High School Water Line Extension, Application No.04-220, 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 described as removal of 405 ft of existing DIP and installation of 510 feet of 8" PVC water main and one fire hydrant, SE 1/4 Section 28 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 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 11, 2006.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 04-220 in any future correspondence.

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

Sincerely,

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

LBH/bb/4-0573.ltr

cc: IPS, Cheyenne

Scott D. Larson P.E.,  
BenchMark Engineers, P.C.  
1920 Thomes Avenue, Suite 620  
Cheyenne WY 82001



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-222R

Granite Ranch  
PWS # Not Yet Assigned

This permit hereby authorizes the applicant:

Michael J. Brennan  
Granite Creek Partnership, LLC  
P. O. Box 68  
Jackson, WY 83001

to construct a sewage collection system of approximately 1,000 L.F. of gravity PVC lines and manholes; and domestic wells, pumps, well building, pressure tank, chlorination system, distribution system, and back flow protection devices to serve a 22' building in a family compound according to the procedures and conditions of the application number 04-222R. The facility is located in NE1/4 Sec. 19, T42N, R116W, in the county of Teton, in the State of Wyoming. All construction and installation allowed by this permit shall be completed by November 26, 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.

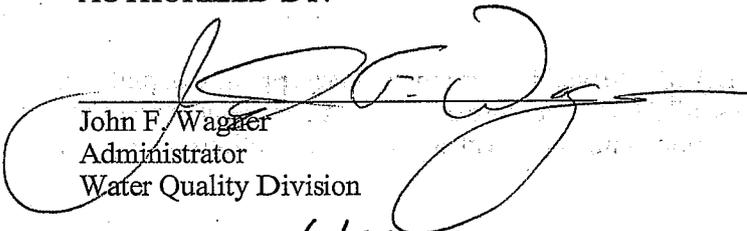
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

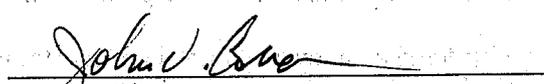
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 6 This permit is for the wastewater collection and the entire water system only;
- 2 of 6 The engineer must submit the well pump test data and pump selection design after the testing and design is completed;
- 3 of 6 The owner is required to notify the EPA, Region 8 in Denver upon completion of the water system. Provide the DEQ/WQD, Lander, of the public water supply number when assigned by the EPA;
- 4 of 6 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality/ Water Quality Division, Northwest District, 250 Lincoln Street, Lander, WY 82520, 307-332-3144, fax 307-332-3183, [jherma@state.wy.us](mailto:jherma@state.wy.us), 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.
- 5 of 6 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.
- 6 of 6 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

12/3/04  
Date of Issuance

JCH/jm  
bb/4-1196.LTR

## STATEMENT OF BASIS

1. Permit Number: 04-222R
2. Application reviewed for compliance with the following regulations :  
Chapter(s) 11 and 12 of the Wyoming Water Quality Rules and Regulations
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.  
Not Required
5. Documentation of Statement of Basis: The archives 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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on November 26, 2004. 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."

JCH/bb/4-1196.LTR



The State  
of Wyoming



6-7-04  
Barb

# Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Dave Freudenthal, Governor

AIR QUALITY  
(307) 672-6457  
Fax (307) 674-6050

LAND QUALITY  
(307) 672-6488  
Fax (307) 672-2213

WATER QUALITY  
(307) 672-6457  
Fax (307) 674-6050

## NOTIFICATION OF COVERAGE

June 4, 2004

Kelly & Rhonda Dennis  
5804 Little Missouri Road  
Hulett, WY 82720-9663

RE: Kelly & Rhonda Dennis Small WW System, Permit # 04-223

Dear Kelly & Rhonda:

The above application for coverage under General Permit to Construct, Install, Modify or Operate extensions to or modifications of a small wastewater septic system in accordance with Chapter 3 and Chapter 11, Part B, of the Wyoming Water Quality Rules and Regulations (WWQRR) 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. **A minimum of two (2) photos of the system installation shall accompany the Certificate of Completion submitted to this office.** All construction, installation, or modification allowed by this permit shall be completed by June 1, 2005.

If you have any questions please contact me at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457. Thank you.

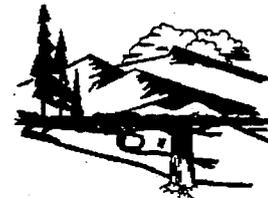
Sincerely,

Rick J. Estes, P.E.  
WDEQ/WQ NE District Senior Environmental Analyst

cc: IPS, Cheyenne  
Bill Dewey, Tri-City Excavation Inc., 169 Thorn Divide Rd., Carlile, WY 82721



# 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 1, 2004

Nancy Granum  
4643 Smoke Rise Rd.  
Casper, Wyoming 82604

RE: Granum Residential Septic System,  
Location: NW 1/4 SW 1/4, Section 11, T29N, R68W,

Application No. 04-224  
Platte County

Dear Ms. Granum:

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 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 tank must be extended to the ground surface.
2. Old Septic Tank Abandonment - The old septic tank must be properly abandoned. It can be removed (pump out and haul away contents first) and the hole filled in. Or, it can be pumped out and cleaned one last time and then the top can be caved in and the hole filled in. Or, the third option is to abandon it in place. Again, it must first be pumped out and cleaned one last time. Then it must be filled with a material, such as pea gravel, that will completely fill it up without leaving any empty spaces.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 1, 2006. Please reference Application Number 04-224 in any future correspondence.

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

Sincerely,

Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/pf/4-0543-ltr

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

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

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH  
(307) 777-7758  
FAX 777-3610

ABANDONED MINES  
(307) 777-6145  
FAX 777-6462

AIR QUALITY  
(307) 777-7391  
FAX 777-5616

INDUSTRIAL SITING  
(307) 777-7369  
FAX 777-6937

LAND QUALITY  
(307) 777-7756  
FAX 777-5864

SOLID & HAZ. WASTE  
(307) 777-7752  
FAX 777-5973

WATER QUALITY  
(307) 777-7781  
FAX 777-5973





The State  
of Wyoming



## Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

June 30, 2004

Mr. Joe Seneshale  
Legacy Builders 2221 Westview Avenue  
Rock Springs, WY 82901

RE: **Mountain Shadows Subdivision, Phase II, Permit Number 04-225**; NW1/4 Section 33,  
T19N, R105W, Sweetwater County

Dear Mr. Seneshale:

The above application for coverage under General Permits to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems and Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 7, Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify 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,

Doyle H. Conklin, P.E.  
Southwest District Engineering Supervisor  
Water Quality Division

xc: IPS, Cheyenne  
Bryan Seppie, P.E. - Green River, RockSprings, Sweetwater County Joint Powers Water Board

encl: General Permit for Extensions to Existing Sewage Collection Systems  
General Permit for Extensions to Existing Public Water Distribution Systems



# 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 2, 2004

Larry M. Barrailler  
P.O. Box 1543  
Craig, Colorado 81626

RE: Barrailler Residence Septic System, Application No. **04-226**  
Location: W1/2 NE1/4 NE1/4, Section 33, T18N, R83W, Carbon County

Dear Mr. Barrailler:

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 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:

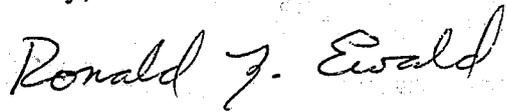
1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the tank** must be extended to the ground surface.
2. Leachfield Trench Layout - The leach field shall be divided into two trenches each 89 feet long instead of one single trench 171 feet long. A single trench 171 feet long is too long to ensure that effluent flow will ever reach the far end of the trench, thereby not utilizing the entire trench as designed. Refer to the "Two Trench Chambered Leachfield" detail drawing included for layout specifics.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 2, 2006. Please reference Application Number 04-226 in any future correspondence.



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

Sincerely,



Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/pf/4-0550-ltr

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

cc: IPS, Cheyenne  
Carbon County Planner



# 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 16, 2004

Mr. Brian Sweeny, Public Works Director  
City of Douglas  
P.O. Box 1030  
Douglas, WY 82633

RE: West Plains Water and Sewer Extensions, Douglas, Application No.04-227, Converse County

Dear Mr. Sweeny:

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 line extensions, W 1/2 Section 16 T32N R71W; Converse 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 service connections will be protected by the appropriate backflow device as required by Chapter 12, Section 14(i) of the Water Quality Division Rules and Regulations. All construction, installation, or modification allowed by this notification of coverage shall be completed by June 16, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 04-227 in any future correspondence.

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

Sincerely,

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

cc: IPS, Cheyenne

John A. Lambert, John A. Lambert and Associates  
P.O. Box 34  
Douglas WY 82633

LBH/pf/4-0602-ltr



# PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

PERMIT NO. 04-228  
SPECIAL CONDITIONS

## Spratt #1

This permit hereby authorizes the applicant:

ChevronTexaco  
P.O. Box 36366  
Houston, TX 77099

to construct, install, or modify soil borings and groundwater monitoring well(s) according to the procedures and conditions of the application number 04-228. The facility is located in SE 1/4, Section 5, T38N, R90W in the county of Fremont, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 1, 2009.

The issuance of this permit confirms that the 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/or operator.

Granting this permit does not imply that the Wyoming 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 the 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 the DEQ 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/or operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, Water Quality Division, 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.

The permittee shall notify representatives from the DEQ, Water Quality Division when the construction commences and give an estimate of completion for the project. The authorized representative in your area can be contacted at the following address: WDEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; telephone (307) 332-3144; FAX (307) 332-3183.

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/or 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 statement 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/or operator shall comply with all of the following permit conditions:

1. of 7 After the monitoring well(s)/piezometer(s) have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
2. of 7 WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of groundwater monitoring wells/piezometers and sample collection so that they may be on site if deemed necessary.
3. of 7 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
4. of 7 The results of any other analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.
5. of 7 ***Environmental Monitoring Program for Groundwater of the State:***
  - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
  - b. The permittee shall maintain records of all monitoring information for a period of at least 3 years.
  - c. Records of monitoring information shall include:
    - i. The date, exact place, and time of sampling or measurements;
    - ii. The name(s) of individual(s) who performed the sampling or measurements;
    - iii. The Mean Sea Level elevation of the water table to the closest .01 ft., and the depth to water (to the closest .01 ft.) from a marked measuring point at the top of casing.
    - iv. Sampling procedures and sample preservation accomplished;
    - v. The date(s) analyses were performed;
    - vi. Names of individuals who performed the analyses;
    - vii. The analytical techniques or methods used; and

- viii. The results of such analyses.
- ix. Groundwater samples from the monitoring wells shall be analyzed as indicated on the following table. This table supercedes previous permit requirements.

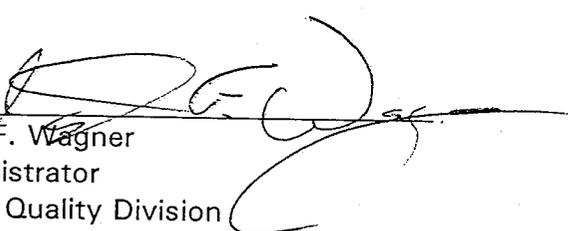
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT*
All Existing Monitoring wells	Semi-annual	EPA 8015	TPH-DRO and GRO	
		EPA 8260 or similar	BTEXN	

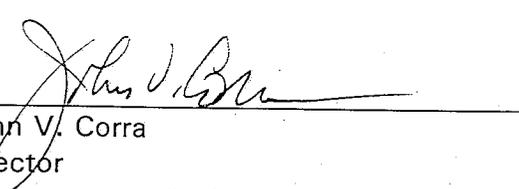
\* Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

6. of 7 Within ninety (90) days of completion of the installation, sampling of the monitoring wells, and receipt of the analytical data authorized by this permit, the Applicant shall submit to WDEQ/WOD a Subsurface Investigation Report. The Report shall follow the GPC Guideline for Subsurface Investigation reporting (GPC Guideline #3), and contain data from the well installation and completion, as well as the analytical results. Additionally, the Report needs to include a Remedial Action Plan that addresses the site contamination, and plans for a final remedy at this site.

7. of 7 The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WOD. An adequate number of well(s)/piezometer(s) shall be installed to define the nature and extent of the contamination.

AUTHORIZED BY:

  
 John F. Wagner  
 Administrator  
 Water Quality Division

  
 John V. Corra  
 Director  
 Department of Environmental Quality

6/27/04  
 Date of Issuance

MFT/bb/4-0631.ltr

cc: IPS

Lander

**GROUNDWATER POLLUTION CONTROL PROGRAM**  
**REVIEW COMMENTS:**  
**PLANS/SPECIFICATIONS/PROPOSALS/REPORTS**

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
250 Lincoln Street  
Lander, Wyoming 82520

**SITE NAME:** Chevron Spratt #1  
**SITE STATUS:** Site Remediation/Monitoring

**APPLICANT:** Mr. Don Sellars  
ChevronTexaco  
P.O. Box 36366  
Houston, TX 77236

**CONSULTANT/  
GEOLOGIST:** Mr. James W. Hix  
Senior Project Geologist  
Cordilleran Compliance Services  
5550 Marshall Street  
Arvada, CO 80002

**WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER:** 04-228

EXISTING                       NEW                       AS BUILT

**TITLE:** ChevronTexaco Spratt #1 Pit, Groundwater Monitoring Well Installation, Fremont County, Wyoming

PLANS                       SPECS                       PROPOSAL                       REPORT  
[Check all that APPLY]

**DATE ON PROPOSAL/PLANS/REPORT:** May 25, 2004 (date stamped 5/26/04)

**IS THIS PROPOSAL SUBMITTED PURSUANT TO:**

'CONDITIONS' TO ANY WQD PERMIT?                       NO                       YES

AN LOV, NOV OR OTHER ENFORCEMENT?                       NO                       YES

**REVIEWING OFFICIAL:** \_\_\_\_\_  
Mark Thiesse, PG

**DATE OF THIS REVIEW:** June 4, 2004

**ACTION:** Permit #04-228 Authorized

## 1. SITE SUMMARY:

**1.1 Site Description.** The Spratt #1 production well pit is located in SE SE Sec 5 T38N R90W approximately 70 miles west of Casper, Wyoming and one mile west of the town of Lost Cabin, Wyoming. This production pit received gas condensate liquids since operations began at this site in the late 50's. This pit is unlined and recent site investigations detected the presence of petroleum contamination at depths ranging from 5 to 12 ft BGS in the subsurface soil surrounding the pit.

**1.2 Site History.** A preliminary investigation was conducted at the site during August or September of 1996. This investigation consisted of digging 47 trenches (12 to 15 ft below ground surface (BGS)), and logging any visual contamination and collecting soil samples from within the trenches. Visual contamination of petroleum hydrocarbons were observed in 17 of the 47 trenches. Soil samples were analyzed for TPH by Core Labs; the method used was not identified in the report. TPH concentrations range from < 1 ppm (generally north and east of the source) to a maximum detection of 11,000 ppm immediately south of the site.

**1.3 Summary of Soil and Groundwater Contamination.** Additional field work was conducted at the site in November of 1996 (February 1997 Report). During this investigation eight soil borings were drilled. Twelve soil samples were collected from the soil borings. These samples generally correlated to the location where the highest PID measurement was detected while drilling the soil borings. However, additional samples were collected just above the observed water table from selected soil borings. Soil samples were analyzed for BTEX and TPH. Benzene soil concentrations range from ND (6 of 12 samples) to 17 mg/kg. Ethyl benzene soil concentrations range from ND (6 of 12 samples) to 31.1 mg/kg. Toluene soil concentrations range from ND (6 of 12 samples) to 236 mg/kg. Xylene soil concentrations range from ND (6 of 12 samples) to 657 mg/kg. TPH soil concentrations range from <15 mg/kg (3 of 12 samples) to 17,080 mg/kg. The highest concentration for all contaminants was from soil collected at the 8 to 10 ft BGS interval of SB-3. The contractor states that soil contamination exceeds WOGCC soil standards for 3 samples; SB-3 (8-10 ft.), SB-3 (10-13 ft.) and SB-5 (8-10 ft.).

Chevron collected 5 groundwater samples and three additional groundwater/surface water samples during the limited groundwater investigation. The three additional samples included one surface water sample down stream from the site, and two wells classified by the contractor as potential representative groundwater samples from locations down gradient of the site. All borehole groundwater samples were collected to the south and west of the source. Groundwater contamination was detected in four of the five borehole groundwater samples. Groundwater samples were analyzed for BTEX and TPH (GRO+DRO). TPH was detected in groundwater samples collected from four of the five boreholes ranging in concentration from .3 to 34.8 mg/L. Benzene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 23 to 1380 mg/L. Ethyl benzene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 122 to 405 mg/L. Toluene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 80 to 2400 mg/L. Xylene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 608 to 2740 mg/L. The highest concentration for all contaminants being detected from groundwater were collected from SB-1. Groundwater contamination exceeds the MCL standard for Benzene and Toluene, 5 mg/l and 1000 mg/L respectively and the WQD TPH standard of 10 mg/L.

**1.4 Hydrogeology.** Groundwater at this site appears to be a perched aquifer. The site hydrogeology contains a potential confining layer composed of a calcium carbonate cemented sandstone 20 to 25 ft. BGS. This sandstone forms an irregular surface which may act to confine and isolate the observed groundwater. Overlaying the sandstone is a silt with some silty sand. The silt grades from clayey to sandy silt. There are cobble zones which extend from the surface to 5 ft. BGS. Based on the cross-sections provided within the report, the groundwater flow direction and gradient cannot be determined. No potentiometric surface map was included in the report. Cross-section B-B' indicates the flow direction to east and away from the nearby surface water/drainage. Cross-section A-A' shows the water level in SB-5 to be lower than the water levels measured at the two end points of the cross-section, SB-2 and SB-6

At this site, it appears that the intermittent stream/creek is a losing stream and should not be impacted by the contaminants; subsequent sampling should be performed for verification.

## **2.0 SUMMARY OF WORK COMPLETED TO DATE:**

**2.1 June 1998 Monitoring Report.** This report presented the results of the first quarter of monitoring (March 98) and provided some of the information that was required by John Kleinschmidt's letter, review and permit (97-470) dated January 22, 1998. Four monitoring wells were installed, sampled, and analyzed for all of the required analytes. Three surface water samples were also collected and analyzed for the required analytes. MW-2 contained the only contamination above action levels or MCLs; BTEX results were 1990, 3170, 546, and 4790 µg/l respectively. The TPH result for MW-2 was 56.3 mg/l. The only other detected compound was xylene in MW-4 at 3.42 µg/l. The accuracy of the potentiometric map that was provided was questioned by Chevron because of the complicated hydrology at the site.

**2.2 1998 Quarterly Sampling Report.** This report, submitted in June 1999, contained a summary of the quarterly sampling performed during 1998 and data from the installation of two additional wells in September 1998. The data indicate that the groundwater plume is not appearing to migrate, with contamination levels holding relatively steady in all the wells. Four and then six monitoring wells and three stream locations were sampled in 1998. Detections of hydrocarbons above WQD standards were identified in wells MW-2, MW-5 and MW-6. Well MW-2 and MW-6 had the highest benzene concentrations with values over 1,000 µg/l measured in both wells. TPH-DRO and TPH-GRO were the other values that were over standards, at amounts only slightly over the WQD standards. Quarterly sampling was to continue for another year to track the progress at the site.

**2.3 1999 and 2000 Quarterly Sampling Report.** Due to an oversight, these two reports were combined and sent to the WQD in February 2002. Quarterly sampling was performed over the two year period, this report provides the results of that sampling. Contaminant concentrations have remained somewhat consistent over this period, with wells MW-2 and MW-6 continuing to have the highest levels of hydrocarbons. The Spring, Summer, and Fall sampling of 2001 recorded the highest levels of contamination recorded at the site. This is most likely due to the extreme dry conditions that year, several of the wells actually were dry for the December 2001 sampling event. The groundwater levels dropped steadily from the middle of 2000 to the end of 2001. Benzene concentrations were over 4,000 µg/l in well MW-2 in 2001. Well MW-6 had concentrations in the 2,000 to 2,500 µg/l range for this same period. Well MW-5 had minor detections of hydrocarbons, none of the other wells or stream sampling points had any detections at all.

**2.4 2003 Annual Report.** This report provided the results of the July and October 2003 groundwater sampling and analyses. It also provided details for the "interim remediation" activities performed during 2003 at the site. All wells at the site were measured for groundwater elevations and checked for the presence of light non-aqueous phase liquids (LNAPL). Dissolved phase hydrocarbon concentrations were roughly the same as in previous sampling events with detections well above WDEQ standards. LNAPL was identified in two wells (MW-2 and MW-6) during the July 2003 field work and in three wells (MW-2, MW-4, and MW-6) in October 2003. LNAPL appeared at the site in Well MW-2 in December 2001, and is showing signs of increasing. This may be due to the large drop in groundwater elevations at the site. There has been as much as 10 feet of decrease in the water table in the area.

Due to the presence of the LNAPL, ChevronTexaco began an interim remedial measure consisting of enhanced fluid recovery (EFR) which is the use of a vacuum to draw the LNAPL and some groundwater out of the wells. EFR was performed in July 2003 for the first time, and again in September and October 2003 in the three wells that contained LNAPL. No recovery volumes were provided. The report includes a discussion of the appearance of the LNAPL and plans to investigate the source of the fluid. ChevronTexaco proposes to continue the EFR when LNAPL is present, to continue sampling the wells on a semi-annual basis with an annual report, and to perform an additional investigation to try to determine the source of the LNAPL. The investigation would include the construction of several new monitoring wells and a soil investigation of the area around the reclaimed pit. Following the investigation, a remedial action plan (RAP) will be submitted for WQD approval.

**2.5 May 2004 Permit Application.** As mentioned above, ChevronTexaco proposed to install several additional monitoring wells and three pilot test LNAPL recovery wells to further characterize the site. This permit application (#04-228) requests WDEQ authorization for this work. LNAPL recovery will be evaluated and a long term RAP will be developed.

### **3.0 REQUEST/REQUIREMENTS/RECOMMENDATIONS:**

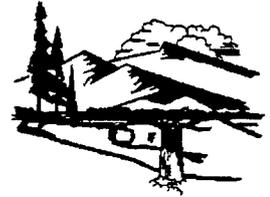
**3.1 Permit #04-228** The current RAP at this site, which is for MNA, is not working as well as anticipated, therefore, ChevronTexaco wishes to evaluate other technologies. The permit application provides information on the well installations to be performed. Once the wells are installed and sampled, and LNAPL recovery is evaluated (pilot tested) by EFR, ChevronTexaco will submit a report that includes well construction details, analytical results, and a RAP to address the long term clean up at the site. This permit application is accepted as submitted.

MFT/bb/4-0632.ltr

**END OF REVIEW**



# 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

November 16, 2009

Rodney Bailey  
Waste & Water Team Lead  
Chevron USA  
15 Smith Road  
Houston, TX 79705

**Re: Chevron Spratt #1 Production Well Pit  
2009 Modification to Permit N° 04-228**

Dear Mr. Bailey:

In response to the recent site work completed at the Spratt #1 well site during the week of November 2-6 it is our pleasure to respond at this time. The highlights of the telephone conversation with Mr. Hix with Olson Associates are as follows:

- The preliminary results from the recent sampling event revealed benzene levels in well MW-6 over standards.
- Chevron USA's intention is to reduce the remediation time frame by continuing active remediation of the site by the removal of additional contaminated materials.
- A small construction window existed along with marginal weather conditions limiting the remaining fall construction season.
- The excavation project was viewed as a continuation of the land farming of contaminated soils in the former pit area previously permitted under Permit-to-Construct 04-228.
- Well MW-6 will be replaced prior to the next sampling event tentatively scheduled for May, 2010. The installation may possibly occur in April, 2010.
- The impacted materials will be 'land farmed' onsite in accordance with DEQ Rules & Regulations.

We concur that the action taken was a continuation of the remediation plan as stipulated in Permit N° 04-228. Please find attached the permit outline with the current modification. We look forward to reviewing the next annual report in early 2010. In the event that I can be of further assistance please contact me at your earliest convenience. I can be reached at (307) 335-6942.

Sincerely,

James P. O'Connor, P.G.  
Project Geologist

cc: Mr. Kevin Frederick, Manager, Groundwater Section, WQD/Cheyenne  
Mr. Craig Eggerman, WY O&GCC, P.O. Box 2640, Casper, WY 82602  
Mr. James Hix, Cordilleran Compliance, 5550 Marshal Street, Arvada, CO 80002  
File (2): Chevron Spratt #1, Fremont/Chronological  
IPS: (letter & attachment to be added to Permit N° 04-228)

f:\division\wqd\gpc\sites\chevron\spratt#1\nov '09 modification to permit 04-228.doc

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



**GROUNDWATER POLLUTION CONTROL PROGRAM**  
**REVIEW COMMENTS:**  
**PLANS/SPECIFICATIONS/PROPOSALS/REPORTS**

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
510 Meadowview Drive, Lander, Wyoming 82520

**SITE NAME:** Chevron Spratt #1

**SITE STATUS:** Site Remediation/Monitoring

**APPLICANT:** Mr. Rodney Bailey  
Waste & Water Team Lead  
Chevron USA  
15 Smith Road  
Houston, TX 79705

**CONSULTANT/  
GEOLOGIST:** Mr. James Hix, P.G.  
Cordilleran Compliance Services, Inc., division of Olson Associates  
5550 Marshall Street  
Arvada, CO 80002

**WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER:** 04-228

EXISTING       NEW       AS BUILT

**TITLE:** Modification to the 2006 Annual Groundwater Monitoring & Offsite Excavation Report, Spratt #1 Former Production Pit, Fremont County, Wyoming

PLANS       SPECS       PROPOSAL       REPORT  
[Check all that APPLY]

**DATE ON PROPOSAL/PLANS/REPORT:** May 2007 (date stamped 5/4/07)

**IS THIS PROPOSAL SUBMITTED PURSUANT TO:**

'CONDITIONS' TO ANY WQD PERMIT?       NO       YES (04-228)

AN LOV, NOV OR OTHER ENFORCEMENT?       NO       YES

**REVIEWING OFFICIAL:**

*JOC*  
Mark Thiesse, PG (original) & Jim O'Connor, P.G. (modification)

**DATE OF THIS REVIEW:** November 12, 2009

**ACTION:** Modifications approved with stipulation

## COMMENTS: GROUNDWATER SECTION

### 1. SITE SUMMARY:

**1.1 Site Description.** The Spratt #1 production well pit is located in SE SE Sec 5 T38N R90W approximately 70 miles west of Casper, Wyoming and one mile west of the town of Lost Cabin, Wyoming. This production pit received gas condensate liquids since operations began at this site in the late 50's. This pit is unlined and recent site investigations detected the presence of petroleum contamination at depths ranging from 5 to 12 ft BGS in the subsurface soil surrounding the pit.

**1.2 Site History.** A preliminary investigation was conducted at the site during August or September of 1996. This investigation consisted of digging 47 trenches (12 to 15 ft below ground surface (BGS)), and logging any visual contamination and collecting soil samples from within the trenches. Visual contamination of petroleum hydrocarbons were observed in 17 of the 47 trenches. Soil samples were analyzed for TPH by Core Labs; the method used was not identified in the report. TPH concentrations range from < 1 ppm (generally north and east of the source) to a maximum detection of 11,000 ppm immediately south of the site.

**1.3 Summary of Soil and Groundwater Contamination.** Additional field work was conducted at the site in November of 1996 (February 1997 Report). During this investigation eight soil borings were drilled. Twelve soil samples were collected from the soil borings. These samples generally correlated to the location where the highest PID measurement was detected while drilling the soil borings. However, additional samples were collected just above the observed water table from selected soil borings. Soil samples were analyzed for BTEX and TPH. Benzene soil concentrations range from ND (6 of 12 samples) to 17 mg/kg. Ethyl benzene soil concentrations range from ND (6 of 12 samples) to 31.1 mg/kg. Toluene soil concentrations range from ND (6 of 12 samples) to 236 mg/kg. Xylene soil concentrations range from ND (6 of 12 samples) to 657 mg/kg. TPH soil concentrations range from <15 mg/kg (3 of 12 samples) to 17,080 mg/kg. The highest concentration for all contaminants was from soil collected at the 8 to 10 ft BGS interval of SB-3. The contractor states that soil contamination exceeds WOGCC soil standards for 3 samples; SB-3 (8-10 ft.), SB-3 (10-13 ft.) and SB-5 (8-10 ft.).

Chevron collected 5 groundwater samples and three additional groundwater/surface water samples during the limited groundwater investigation. The three additional samples included one surface water sample down stream from the site, and two wells classified by the contractor as potential representative groundwater samples from locations down gradient of the site. All borehole groundwater samples were collected to the south and west of the source. Groundwater contamination was detected in four of the five borehole groundwater samples. Groundwater samples were analyzed for BTEX and TPH (GRO+DRO). TPH was detected in groundwater samples collected from four of the five boreholes ranging in concentration from .3 to 34.8 mg/L. Benzene was detected in groundwater samples collected from two of five boreholes ranging in concentration from

23 to 1380 mg/L. Ethyl benzene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 122 to 405 mg/L. Toluene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 80 to 2400 mg/L. Xylene was detected in groundwater samples collected from two of five boreholes ranging in concentration from 608 to 2740 mg/L. The highest contaminant concentrations detected in groundwater were in SB-1. Groundwater contamination exceeds the MCL standard for Benzene and Toluene, 5 mg/l and 1000 mg/L respectively and the WQD TPH standard of 10 mg/L.

**1.4 Hydrogeology.** Groundwater at this site appears to be a perched aquifer. The site hydrogeology contains a potential confining layer composed of a calcium carbonate cemented sandstone 20 to 25 ft. BGS. This sandstone forms an irregular surface which may act to confine and isolate the observed groundwater. Overlaying the sandstone is a silt with some silty sand. The silt grades from clayey to sandy silt. There are cobble zones which extend from the surface to 5 ft. BGS. The land owners stopped irrigation in 2000. Combined with that and the long term drought, there currently (2006) is no water in the creek/irrigation run off ditch and the pond. Many of the wells have dried up at the site. Groundwater flow direction now appears to be towards the south/southwest, along the dry depression.

## **2.0 SUMMARY OF WORK COMPLETED TO DATE:**

**2.1 June 1998 Monitoring Report.** This report presented the results of the first quarter of monitoring (March 98) and provided some of the information that was required by John Kleinschmidt's letter, review and permit (97-470) dated January 22, 1998. Four monitoring wells were installed, sampled and analyzed for all of the required analytes. Three surface water samples were also collected and analyzed for the required analytes. MW-2 contained the only contamination above action levels or MCLs; BTEX results were 1,990, 3,170, 546, and 4,790 µg/l respectively. The TPH result for MW-2 was 56.3 mg/l. The only other detected compound was xylene in MW-4 at 3.42 µg/l. The accuracy of the potentiometric map that was provided was questioned by Chevron because of the complicated hydrology at the site.

**2.2 1998 Quarterly Sampling Report.** This Report, submitted in June 1999, contained a summary of the quarterly sampling performed during 1998 and data from the installation of two additional wells in September 1998. The data indicate that the groundwater plume is not appearing to migrate, with contamination levels holding relatively steady in all the wells. Four and then six monitoring wells and three stream locations were sampled in 1998. Detections of hydrocarbons above WQD standards were identified in wells MW-2, MW-5 and MW-6. Well MW-2 and MW-6 had the highest benzene concentrations with values over 1,000 µg/l measured in both wells. TPH-DRO and TPH-GRO were the other values that were over standards, at amounts only slightly over the WQD standards. Quarterly sampling was to continue for another year to track the progress at the site.

**2.3 1999 and 2000 Quarterly Sampling Report.** Due to an oversight, these two reports were combined and sent to the WQD in February 2002. Quarterly sampling was performed over the two year period, this report provides the results of that sampling. Contaminant concentrations have remained somewhat consistent over this period, with wells MW-2 and MW-6 continuing to have the highest levels of hydrocarbons. The spring, summer and fall sampling of 2001 recorded the highest levels of contamination recorded at the site. This is most likely due to the extreme dry conditions that year, several of the wells actually were dry for the December 2001 sampling event. The groundwater levels dropped steadily from the middle of 2000 to the end of 2001. Benzene concentrations were over 4,000 µg/l in well MW-2 in 2001. Well MW-6 had concentrations in the 2,000 to 2,500 µg/l range for this same period. Well MW-5 had minor detections of hydrocarbons, none of the other wells or stream sampling points had any detections at all.

**2.4 2003 Annual Report.** This report provided the results of the July and October 2003 groundwater sampling and analyses. It also provided details for the “interim remediation” activities performed during 2003 at the site. All wells at the site were measured for groundwater elevations and checked for the presence of light, non-aqueous phase liquids (LNAPL). Dissolved phase hydrocarbon concentrations were roughly the same as in previous sampling events with detections well above WDEQ standards. LNAPL was identified in two wells (MW-2 and MW-6) during the July 2003 field work and in three wells (MW-2, MW-4 and MW-6) in October 2003. LNAPL appeared at the site in well MW-2 in December 2001, and is showing signs of increasing. This may be due to the large drop in groundwater elevations at the site. There has been as much as 10 feet of decrease in the water table in the area.

Due to the presence of the LNAPL, ChevronTexaco began an interim remedial measure consisting of enhanced fluid recovery (EFR) which is the use of a vacuum to draw the LNAPL and some groundwater out of the wells. EFR was performed in July 2003 for the first time, and again in September and October 2003 in the three wells that contained LNAPL. No recovery volumes were provided. The report includes a discussion of the appearance of the LNAPL and plans to investigate the source of the fluid. ChevronTexaco proposes to continue the EFR when LNAPL is present, to continue sampling the wells on a semi-annual basis with an annual report, and to perform an additional investigation to try to determine the source of the LNAPL. The investigation would include the construction of several new monitoring wells, and a soil investigation around the reclaimed pit. Following the investigation, a remedial action plan (RAP) will be submitted for WQD approval.

**2.5 May 2004 Permit Application.** As mentioned above, ChevronTexaco proposed to install several additional monitoring wells and three pilot test LNAPL recovery wells to further characterize the site. This permit application (#04-228) requests WDEQ authorization for this work. LNAPL recovery will be evaluated and a long term RAP will be developed.

**2.6 January 2005 SSI.** This report provided the details of the installation of new monitoring wells and the results of the additional investigation performed in 2004. Five (5) new monitoring wells (MW-7, 8, 9, 10, and 11) were installed along the perimeter of the site, and two (2) soil borings (CTP-1 and 2) were drilled into the old production pit to characterize the soil. Also, four (4) 4 inch remediation wells (RW-1, 2, 3, and 4) were installed into and adjacent to the old production pit to use as air sparge wells.

Soil samples were collected from all eleven (11) of the new borings on site. Impacted soil was detected in the two borings in the pit, and the four remediation wells. No contaminated soil was identified in the new monitoring wells. The soil contamination was mainly concentrated in the 16 to 18 foot below ground surface interval with high TPH-DRO and TPH-GRO readings and some detections of BTEX compounds. The soil contamination decreased beneath this interval and all soil samples in the 21 to 25 foot interval were non-detect for hydrocarbons. The contamination apparently hit the hard silty layer at 17 or 18 feet and stopped migrating at that point.

Only one of the new monitoring wells contained sufficient water to be sampled in 2004. Well MW-8, completed on the berm of the dam, was non-detect for all compounds. The four remediation wells (RW-1, 2, 3, 4) had sufficient water for sampling and analysis. All four of these wells had high levels of hydrocarbon contamination with benzene readings above WDEQ standards in RW-1, 2 and 3. RW-4 had small concentrations of toluene and xylene. Only original monitoring well MW-4 contained sufficient water for sampling in 2004. Small amounts of BTEX compounds were detected in MW-4, all at or below WDEQ standards. Well MW-2 contained LNAPL in 2004, 1.38 feet in June and 0.61 feet in October, however no water was identified in the well.

The report provides several conclusions and recommendations for future work. It appears that the contaminated soil in the pit is causing additional groundwater contamination, as evidenced in wells RW-1, 2 and 3. Because of the decrease in groundwater elevations over the last several years, a drop of over 10 feet, groundwater is no longer present in most of the monitoring wells at the site. The remediation wells installed to act as air sparge wells are not able to be used due to the low water table. Also, the drop in groundwater has allowed LNAPL that was trapped in the soil to migrate down gradient and begin to appear in monitoring wells MW-2 and, in 2003, in MW-4 and MW-6. It is proposed to continue the EFR operations in any wells that contain LNAPL when the water table rises and LNAPL begins to appear again. All wells will be sampled on a semi-annual basis as is currently being performed to track groundwater elevations and to perform air sparge operations when the water tables rises again. The impacted soil from the old pit should be excavated and treated on site as was done in 1998, before the rise in groundwater halted the excavation.

**2.7 2005 Annual Report.** This report provides the results of the two sampling events performed in 2005 and a summary of the soil excavation performed under WOGCC authority. A more detailed report of the soil excavation was submitted to the WOGCC with a copy to us for our information. We supplied the WOGCC a few comments on the

soil excavation report. Approximately 15,000 cubic yards of soil were excavated from the area of the original pit and placed on the gas well location to be landfarmed following WOGCC regulations. Soil contamination was found from 12 to 22 feet below ground surface. Confirmation samples were collected from the excavation and levels of TPH-GRO were all below 1,000 mg/kg (WOGCC clean up level) except for one location. An additional sample was taken from this location after the hole was left open for several days and the soil sample results were well below WOGCC objectives.

Groundwater levels at the site continue to drop in response to drought conditions and elimination of irrigation runoff. Because of this only 4 wells contained sufficient groundwater to obtain samples. MW-8, RW-3 and 4 were non-detect for all hydrocarbons in May and September 2005. Wells RW-1 and 2 contained benzene well above MCL's with a maximum reading in RW-2 of 2,400 µg/l. Interestingly, wells MW-2 and MW-4 did not contain any water, but had LNAPL present in one or both events. The LNAPL was removed and will be checked on a periodic basis and removed when present. It appears that the drop in the water table, and drying up of the pond and creek, have allowed LNAPL to migrate down gradient away from the original pit (release) location. The excavation of the source area may stop this migration. Further monitoring will be performed to track the contamination.

The report also provided several recommendations for future work. Biannual sampling was proposed, as is currently being performed (twice per year). If groundwater rebounds Chevron will perform EFR or other remedial measures to remove LNAPL when possible.

**2.8 2006 Annual Report.** This report provides the results of the June and September 2006 groundwater sampling and September/October 2006 soil excavation. Only five of the wells on site contained sufficient water for sampling in 2006. This drop in groundwater elevation is due to the continued drought and the termination of irrigation in the area. Curiously, two wells, MW-2 and MW-4 (maximum 0.3 feet and 3.60 feet respectively) contained only LNAPL. RW-2 contained the only dissolved phase hydrocarbon detections with benzene (maximum 2,800 µg/l) exceeding WDEQ standards. Because of the continued presence of LNAPL in wells MW-2 and 4, Chevron decided to perform an additional soil excavation to remove any residual free phase hydrocarbons. Contaminated soil was observed beginning at approximately 8 feet deep down to roughly 16 feet deep. The impacted soil was screened using a PID sensor, and soil confirmation samples were collected for laboratory analysis from the sides and floor of the excavation. The lab samples indicated that only minor concentrations of TPH-DRO and TPH-GRO were identified. One well was removed during the excavation and will be replaced at a later date.

The report provides recommendations for future work. This includes continued bi-annual sampling, replacement of MW-4, continued landfarm treatment of the excavated soil and annual reporting.

### **3.0 REQUEST/REQUIREMENTS/RECOMMENDATIONS:**

**3.1 2006 Report.** The report provides a good summary of the field work at the site in 2006. We concur with all of your conclusions and recommendations for future work. The soil excavation should accelerate the cleanup of the site. Please continue the groundwater monitoring twice per year (semi-annually) in the spring and fall as is currently being performed. If water levels rise the air sparge wells should be started up. And the EFR should continue when appropriate. We request that an annual report be submitted to this office as soon as possible following the fall sampling event. Please include a summary of the landfarm treatment of the soil in that report.

**3.2 Modification.** On November 4, 2009 James Hix w/ Olson Associates reported that in conjunction with the results of the recent sampling event at the site Chevron had excavated the soils in the vicinity of MW-6 well. The recent sampling indicated that benzene in this well had exceeded standards and that Chevron wanted to pursue excavation and land farming of the contaminated soils following the guidelines of Permit-to-Construct #04-228. Under this permit the contaminated soils on the hillside had been removed and land farmed onsite. The area around MW-6 was not included at that time due to steepness of the slope and high water levels in the adjacent pond. With pond water levels low and the high benzene contaminated soils more readily accessible, a decision was made to excavate the contaminated soils and land farm them onsite in a manner consistent with the original permit. The excavated materials were replaced with the material remediated in the original land farming exercise.

Verbal approval was granted with the stipulation that when well MW-6 is replaced that the location would not be in the replacement soils that will originate from the materials previously remediated during the 'land-farming' during the material. Written confirmation was forwarded on November 16, 2009.



The State  
of Wyoming



## Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Steve Freudenthal, Governor

AIR QUALITY  
(307) 672-6457  
Fax (307) 674-6050

LAND QUALITY  
(307) 672-6488  
Fax (307) 672-2213

WATER QUALITY  
(307) 672-6457  
Fax (307) 674-6050

### NOTIFICATION OF COVERAGE

June 10, 2004

Mr. James Jafolla  
1969 S. Sheridan Avenue  
Sheridan, WY 82801

RE: RENEW Sewer & Water, Permit # 04-229 - PWS# 5600052

Déar James:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a extension to the Town of Sheridan Wastewater Collection and Water Distribution system in accordance with Chapter 3 and Chapter 11 of the WWQRR has been reviewed and is hereby approved. You are now authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this permit shall be completed by July 1, 2005.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Following completion of construction of this facility please return the attached WDEQ Certificate of Completion and Transfer of Ownership when the utilities are accepted by the City of Sheridan. These are conditions of this permit. If you have any questions please contact me at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457. Thank you.

Sincerely,

Rick J. Estes, P.E.  
WDEQ/WQD NE District Senior Environmental Analyst

cc: IPS, Cheyenne  
Mike Cole, PE, Assistant Public Works Director-Utilities, City of Sheridan  
Bill Mentock, PE, Mentock Engineering, 1030 N. Main Street, Sheridan, WY 82801



The State  
of Wyoming



**Department of Environmental Quality**  
1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

ive Freudenthal, Governor

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(307) 672-6457  
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Fax (307) 674-6050

**NOTIFICATION OF COVERAGE**

June 3, 2004

Jeff & Deb Smith  
Box 569  
Sundance, WY 82729

RE: Jeff & Deb Smith Sewage System, Permit # 04-230

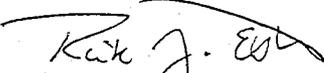
Dear Jeff & Deb:

The above application for coverage under General Permit to Construct, Install, Modify or Operate extensions to or modifications of a small wastewater septic system in accordance with Chapter 3 and Chapter 11, Part B, of the Wyoming Water Quality Rules and Regulations (WWQRR) 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. **A minimum of two (2) photos of the system installation shall accompany the Certificate of Completion submitted to this office.** All construction, installation, or modification allowed by this permit shall be completed by June 1, 2005.

If you have any questions please contact me at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457. Thank you.

Sincerely,

  
Rick J. Estes, P.E.

WDEQ/WQ NE District Senior Environmental Analyst

cc: IPS, Cheyenne  
Ralph W. Goodson, Bearlodge Ltd. Inc, Sundance, WY 82729

RECEIVED

CERTIFICATION OF COMPLETION

SEP 14 2004

In accordance with the condition of Application No. 04-231, regarding SEPTIC SYSTEM of this Certification of Completion within sixty (60) days of completion of the facility, I hereby certify the following to be an accurate and correct statement of the current status of the project authorized by the above referenced permit:

1. Construction of the permitted facility was completed on 8-8-04 (DATE) and the facility was placed in operation on 8-8-04 (DATE).

2. Construction was completed in accordance with the following: (Check the appropriate option)

The facility was constructed in compliance with all terms and conditions of the permit including the design report, plans and specifications, design data or other information submitted in support of the application.

The facility was constructed with changes or modifications in accordance with the provisions of Section 9, Chapter 3, Wyoming Water Quality Rules and Regulations. As-built plans and specifications, certified by a registered professional engineer (certification by an engineer is not required if the original application was not certified by an engineer) are enclosed.

Mark Stengle  
Facility Owner (print or type)

Mark Stengle  
Owners Signature

8-8-04  
Date

Rob Anderson  
Engineer (print or type)

Rob Anderson  
Engineers Signature

8/08/04  
Date



04-231  
Stangle Res. Septic  
Installation Pictures  
CROOK COUNTY

8/04





The State  
of Wyoming

## Department of Environmental Quality



Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

September 2, 2004

A.H. Schilling Jr., Manager  
Tips Up, LLC and Mountain Moguls, LLC  
% Tom Harry  
Patri-Merker Architects  
400 2<sup>nd</sup> Street - Suite 400  
San Francisco, CA 94107

RE: Teton County - The Homes at Amangani - Permit Number:  
04-232R, Section 21, T41N, R116W, Teton County, PWS #WY5600811

Dear Mr. Schilling:

The above application for coverage under General Permits to Construct a public water supply distribution system and a sewage collection system extensions consisting of 682 linear feet (LF) of 10-inch water main and 432 LF of 8-inch and 237 LF of 6-inch sewer main 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,

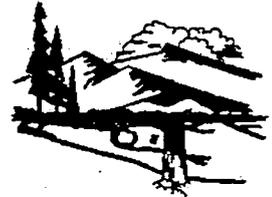
Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne

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



# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

June 14, 2004

Mr. Robert Herb, Engineer Flight Chief  
F.E. Warren AFB  
300 Vesle Drive  
Cheyenne, WY 82005

RE: F.E. Warren AFB Carlin Heights Water Distribution, Application No.04-233,Laramie County

Dear Mr. Herb:

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 described as tap 30" diameter BOPU water line south of Happy Jack Road with a 12" alternate supply to F.E. Warren AFB, SE 1/4 Section 34 T13N R67W; 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 general permit and the materials submitted in your application package. All service connections will be protected by the appropriate backflow device as required by Chapter 12, Section 14(i) of the Water Quality Division Rules and Regulations. All construction, installation, or modification allowed by this notification of coverage shall be completed by August 11, 2006.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 04-233 in any future correspondence.

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

Sincerely,

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

cc: IPS, Cheyenne

James Harker, F.E. Warren AFB  
300 Vesle Drive  
Cheyenne WY 82005

LBH/pf/4-0585-ltr





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# Department of Environmental Quality

Dave Freudenthal, Governor

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AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

## NOTIFICATION OF COVERAGE

June 29, 2004

Robert L. Tarufelli  
1257 Palisades Way  
Rock Springs, WY 82901

RE: **Hunter's Ridge, Phases 6, 7, 8, 9, Permit Number 04-234**; NE1/4 Section 28, T19N,  
R105W, Sweetwater County

Dear Mr. Tarufelli:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems and Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 7, Chapter 11 and Chapter 12 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(ies) 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 me at 307-332-3144.

Sincerely,

Doyle H. Conklin, P.E.  
Southwest District Engineering Supervisor  
Water Quality Division

xc: IPS, Cheyenne  
City of Rock Springs; Attn: Vess Walker; 212 D Street; Rock Springs, WY 82901  
Mr. Bryan Seppie, P.E.; Joint Powers Water Board; P.O. Box 1299; Green River, WY  
82935

encl: General Permit for Extensions to Existing Sewage Collection Systems  
General Permit for Extensions to Existing Public Water Supply Distribution Systems



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# Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

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WATER QUALITY  
(307) 332-3144

## NOTIFICATION OF COVERAGE

July 28, 2004

G. Kevin Keller, President  
Rock Springs Land Development, Inc.  
1807 Capitol Avenue, Suite 108  
Cheyenne, WY 82009

RE: **Summit View Estates - Water & Sewer Mains, Permit Number 04-235R, W1/2**  
Section 33, T19N, R105W, Sweetwater County

Dear Mr. Keller:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems and Existing Public Water Supply Distribution Systems in accordance with Chapter 3, Section 7, Chapter 11 and Chapter 12 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(ies) 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.

Construction of each sewer service line serving two or more lots or buildings will be permitted separately for this subdivision to allow transfer of permits to the new owners, who must be subject to a joint agreement regarding maintenance or replacement of the shared service line.

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

Sincerely,

Doyle Conklin  
SW District Engineering Supervisor  
Water Quality Division

xc: IPS, Cheyenne  
City of Rock Springs; 212 D Street; Rock Springs, WY 82901  
Bryan Seppie, PE; Joint Powers Water Board; P.O. Box 1299; Green River, WY 82935  
encl: General Permit for Extensions to Existing Sewage Collection Systems  
General Permit for Extensions to Existing Public Water Distribution Systems

# JEA

Johnson Engineering Associates  
110 Superior Court  
Laramie, WY 82072

RECEIVED

OCT 04 2004

WATER QUALITY DIVISION  
WYOMING

04-236

Wyoming - Colorado  
Consulting Engineers  
307-721-2109

WDEQ  
Cheyenne, WY

October 1, 2004

ATTN: Mr. Ron Ewald  
RE: Your Review - ~~Fall Creek Development~~ AND 9th Street Extension

Dear Ron,

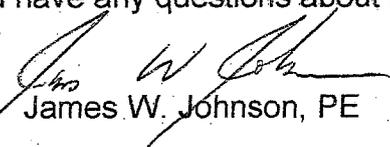
As you requested, this letter is intended to document my continuing request for you to delay action on the pending submittals of Utility extensions in the City of Laramie. As discussed there is a significant capacity problem and surcharged manholes on the City interceptor sewer that would take the waste from this subdivision.

After significant delays, the City of Laramie has advised me that they are preparing the legal papers to establish a financial contribution by my client, and a scope for improvements on the interceptor. With that agreement in place the City Staff will recommend the approval of the Final Plat for this subdivision.

As discussed, the scope of corrective work that will be established with this agreement, covers only a small portion of a line with very large problems. Continuing corrective work on this line must be done by the City to allow additional capacity increase and growth in the southern and eastern portions of Laramie. Obviously, this will be a matter of continuing interest for your office.

If you have any questions about this, please call.

Sincerely,

  
James W. Johnson, PE

cc: Fall Creek Dev  
File

10-11-04

IPS - Please log this as a  
On-Hold Status for  
04-236 (Fall Creek Dev.)  
and the put it with the  
application materials. Thanks  
Ron

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-237R

Cody Shooting Complex - Northwest Rural Water District  
PWS # WY5601254C

This permit hereby authorizes the applicant:

Lyn Ackerman, Owner  
P.O. Box 1504  
Cody, WY 82414

to construct an individual booster supplied by a public water distribution system consisting of a 2 horsepower booster pump in a concrete vault to serve two sets of restrooms, according to the procedures and conditions of the application number 04-237R. The facility is located at NW1/4 Section 23, T53N, R102W in the county of Park, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 31, 2006.

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.

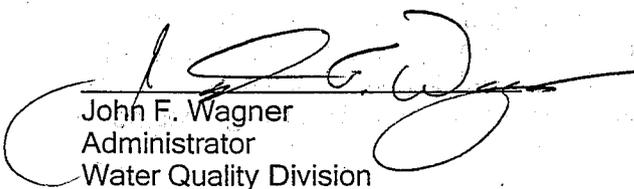
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and

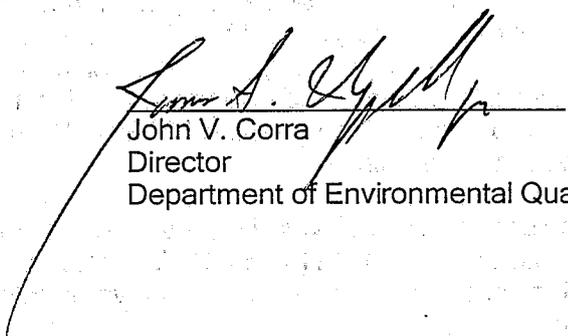
permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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 Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 250 Lincoln Street, 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 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 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

9-2-04  
Date of Issuance

MDB/mdb

bb/4-0887.ltr

## STATEMENT OF BASIS

1. Permit Number: 04-237R
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?  
The approval is based upon a deviation from applicable regulations in accordance with Section 5 of Chapter 12.
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 the applicable regulations.
  - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulations.

The permit includes approval to deviate from the following regulatory requirements:

Chapter 12, Section 13 (c)(ii) requires that the gross volume of hydropneumatic tanks are to be 10 times the capacity of the largest pump.

Chapter 12, Section 13 (c)(iii) requires that the hydropneumatic tank is to be plumbed with by-pass piping.

Briefly state the basis for the deviation.

The booster pump system will only supply water to unoccupied restrooms owned and operated by the user. Reduced system reliability is acceptable.

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

Not Required

6. Documentation of Statement of Basis: The archives 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, mbaron@state.wy.us, Environmental Senior Analyst and completed on August 31, 2004. 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  
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# Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Dave Freudenthal, Governor

AIR QUALITY  
(307) 672-6457  
Fax (307) 674-6050

LAND QUALITY  
(307) 672-6488  
Fax (307) 672-2213

WATER QUALITY  
(307) 672-6457  
Fax (307) 674-6050

## NOTIFICATION OF COVERAGE

June 8, 2004

Sandra Hall  
32 Canyon Springs  
Sundance, WY 82729

RE: Hall Septic System, Permit # 04-238

Dear Sandra:

The above application for coverage under General Permit to Construct, Install, Modify or Operate extensions to or modifications of a small wastewater septic system in accordance with Chapter 3 and Chapter 11, Part B, of the Wyoming Water Quality Rules and Regulations (WWQRR) 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. **A minimum of two (2) photos of the system installation shall accompany the Certificate of Completion submitted to this office.** All construction, installation, or modification allowed by this permit shall be completed by June 1, 2005.

If you have any questions please contact me at **before June 25** at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457. **After June 25 please contact me at 1866 S. Sheridan Avenue 673-9330, 673-2213 (fax).** Thank you.

Sincerely,

Rick J. Estes, P.E.  
WDEQ/WQ NE District Senior Environmental Analyst

cc: IPS, Cheyenne  
Scott Hinkhouse, Fuller Construction, P.O. Box 640, Moorcroft, WY 82721



# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

August 3, 2004

Mr. William Porter  
Northern Wyoming Surgical Properties, LLC  
P.O. Box 6547  
Sheridan, WY 82801

RE: Surgical Center Sewer & Water Extensions 04-239-PWS# 5600052

Dear William:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a extension to the City of Sheridan Wastewater Collection and Water Distribution system in accordance with Chapter 3 and Chapters 11 and 12 of the WWQRR has been reviewed and is hereby approved. You are now authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this permit shall be completed by August 1, 2005.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Following completion of construction of this facility please return the attached WDEQ Certificate of Completion and Transfer of Ownership when the utilities are accepted by the City of Sheridan. These are conditions of this permit, if you have any questions please contact me at 1866 S. Sheridan Avenue, Sheridan, WY, 82801, (307) 673-9337.

Sincerely,

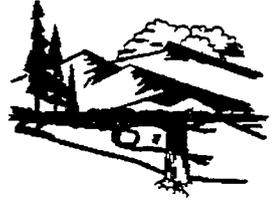
Rick J. Estes, P.E.  
WDEQ/WQD NE District Senior Environmental Analyst

cc: ~~IPS, Cheyenne~~  
Bill Mentock, PE, 1030 N. Main #2, Sheridan, WY 82801  
Mike Cole, PE, Assistant Public Works Director-Utilities, City of Sheridan





# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

June 4, 2004

Gary Wood  
P.O. Box 310  
Guernsey, Wyoming 82214

RE: Gary Wood Residential Septic,  
Location: NW 1/4, Section 34, T27N, R66W,

Application No. **04-240**  
Platte County

Dear Mr. Wood:

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 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 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, 2006. Please reference Application Number 04-240 in any future correspondence.

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

Sincerely,

Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/bb/4-0567.ltr

Enclosures: GENERAL PERMIT - Small Wastewater Facility, Certificate of Completion

cc: IPS, Cheyenne

Platte County Planner, Marlin Johnson, P.O. Box 728, Wheatland, Wyoming 82201

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>





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## Department of Environmental Quality

Dave Freudenthal, Governor

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WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

June 7, 2004

Don and Laurie Harvey, Owners  
1350 Martin  
Sheridan, Wyoming 82801

RE: Hot Springs County - Small Waste Treatment Facility - Permit Number: 04-242,  
SW1/4 SE1/4 Section 8, T43N, R94W, Hot Springs County

Dear Mr. and Mrs. Harvey:

The above application for coverage under General Permit to Construct a small wastewater treatment facility consisting of a septic tank and leach field to serve a three-bedroom home in accordance with Chapter 3, Section 7 and Chapter 11, Part D 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 permit.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne  
encl: General Permit For a Small Wastewater Treatment Facility

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 04-243

REFERENCE PERMIT NO. 03-026

Mule Creek Rest Area Upgrade  
PWS: PENDING

This permit hereby authorizes the applicant:

Wyoming Department of Transportation  
P.O. Box 668  
Sheridan, WY, 82801

to construct, install or modify an evaporation pond to contain hot water pumped from Mule Creek Junction Well No. 1 and set an additional pump in the existing casing according to the procedures and conditions of the application number 04-243. The facility is located in SW 1/4 SW 1/4 Section 5 T39N R61W in the county of Niobrara, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 11, 2006.

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.

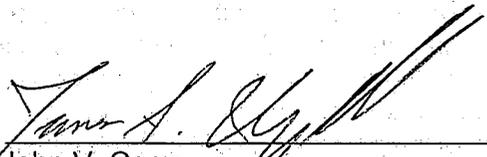
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3 The applicant will provide immediate oral or written notice to the 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 of 3 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 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

June 25, 2004  
\_\_\_\_\_  
Date of Issuance

LBH/pf/4-0624-ltr

## STATEMENT OF BASIS

1. Permit Number: 04-243
2. Application reviewed for compliance with the following applicable regulations :  
Chapter(s) 3, 11, and 12 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?

YES

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

4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was 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 Louis B. Harmon PE-PG, Southeast District Engineer, lharmo@state.wy.us, and completed on June 24, 2004. 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."



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## Department of Environmental Quality

Dave Freudenthal, Governor

250 Lincoln Street • Lander, Wyoming 82520 • Fax (307) 332-7726

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LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

### NOTIFICATION OF COVERAGE

July 27, 2004

Robert J. Henderson, President  
Rafter J. Homeowners Associations  
2951 W. Big Trails Drive  
Jackson, Wyoming 83001

RE: Rafter J. Ranch - Water and Sewer Repairs - Permit Number: 04-244, SW ¼ Section 8, NE ¼ & NW ¼ Section 17, NE ¼ Section 18, T40N,R116W, Teton County

Dear Mr. Henderson:

The above application for coverage under General Permits to repair water and sewer mains consisting of 390 Linear Feet (LF) of 8 - inch and 130 LF of 10 - inch sewer main and various valves and fire hydrants in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 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 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 permit.

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

Sincerely,

Mark Baron, P.E.  
Environmental Senior Analyst  
Water Quality Division

cc: IPS, Cheyenne

encl: General Permit For a Sewage Collection System,  
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 8, 2004

Mr. Melvyn S. Wilkenfeld, Environmental Manager  
Frontier Refining, Inc.  
2700 East 5th Street  
Cheyenne, WY 82007

RE: Frontier Refinery Industrial Wastewater Sewer Connection, Application No.04-245,Laramie County

Dear Mr. Wilkenfeld:

The above application for coverage under General Permit to Construct, Install, Modify, or Operate Extensions to or Modifications of Existing Sewage Collection Systems described as 8" force main, flow meter, and sampling point connecting to existing 42" diameter sewer main, Latitude 41° 07' 47.6", Longitude 104° 47' 21.2"; 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 sewage collection system in accordance with Chapter 11, Section 9 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 11, 2006.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 04-245 in any future correspondence.

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

Sincerely,

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

LBH/bb/4-0577.ltr

cc: IPS, Cheyenne

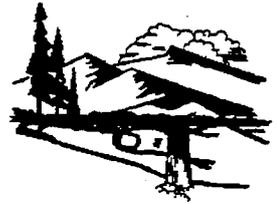
Herman Noe, Cheyenne Board of Public Utilities

David Beehler, Jacobs Engineering  
1527 Cole Boulevard  
Golden CE 80401





# 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 13, 2004

Saint Joseph's Children's Home  
Attn. Bob Mayor, Director  
P.O. Box 1117  
Torrington, Wyoming 82240

RE: Saint Joseph's Children's Home - Sewage Disposal System, Application No. **04-246**  
Location: SE 1/4, Section 27, T24N, R61W, Goshen County

Dear Mr. Mayor:

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 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. Single Compartment Lead Septic Tank Required - In order to meet the requirement that the first chamber encountered by the effluent is at least 50% of the total volume of the septic tank, or in this case tanks since you are using two 1500 gallon tanks in series, **the FIRST TANK MUST BE A SINGLE COMPARTMENT TANK.**
2. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the tanks** must be extended to the ground surface.

The approval granted under this Notification Of Coverage and the General Permit shall expire on July 13, 2006. Please reference Application Number **04-246** in any future correspondence.



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

Sincerely,



Ronald L. Ewald  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/pf/4-0703-ltr

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

cc: IPS, Cheyenne  
Scott D. Larson, BenchMark Engineering, P.C., 1920 Thomes Avenue, Suite 620,  
Cheyenne, Wyoming 82001



The State  
of Wyoming

## Department of Environmental Quality

Dave Freudenthal, Governor

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604



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

ABANDONED MINES  
(307) 473-3460  
Fax: (307) 473-3458

### NOTIFICATION OF COVERAGE

June 8, 2004

Doug Norton  
Gillette Speedway Club  
PO Box 1946  
Gillette, WY 82717

RE: Gillette Speedway Club Small Wastewater Facility, Permit # 04-247

Dear Mr. Norton:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3 and Chapter 11, Part D, 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 Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

Dennis Lamb  
NE District Supervisor  
DEQ/WQD

cc: IPS, Cheyenne



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### NOTIFICATION OF COVERAGE

June 8, 2004

Andy Petefish  
157 Highway 24  
Devils Tower, WY 82714

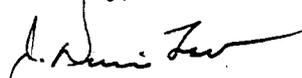
RE: Petefish Small Wastewater Facility, Permit # 04-248

Dear Mr. Petefish:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3 and Chapter 11, Part D, 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 Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

  
Dennis Lamb  
NE District Supervisor  
DEQ/WQD

Copy

cc: IPS, Cheyenne

## LAND APPLICATION PERMIT

New  
 Renewal  
 Modified

PERMIT NO. 04-249  
SPECIAL CONDITIONS

This permit hereby authorizes the applicant:

NICHOLSON'S LITTLE FARMS  
PO Drawer 2186  
Gillette, WY 82717

to land apply 3675 barrels of crude oil/sludge according to the procedures and conditions of the application number 04-249. The application site is located in Sections 23 & 26 T49N, R71W and on in the county of Campbell, in the State of Wyoming. This permit shall be effective until November 1, 2005.

The issuance of this permit confirms that the Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable standards. Compliance with DEQ standards is the responsibility of the permittee, owner, and/or operator.

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

The permittee shall allow authorized representatives from the DEQ, Water Quality Division (WQD), upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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/or 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.

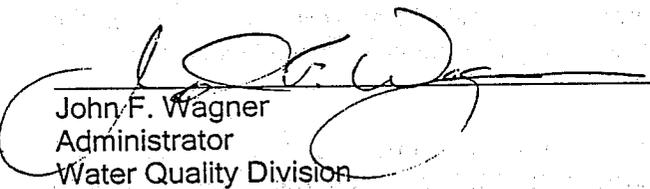
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

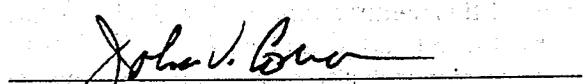
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 5. The permittee shall notify representatives from the DEQ/WQD of the anticipated project commencement and completion dates. At least 48 hours advance notice is required. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 3030 Energy Lane, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.
- 2 of 5. The permittee shall provide immediate oral and/or written notice to the Casper WDEQ Field Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications to the approved permit package.

- 3 of 5. The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Casper WDEQ Field Office on the attached Certification of Completion form.
- a. Date that the land application was completed; and
  - b. Certification the land application was done in accordance with the terms and conditions of the permit; or
  - c. Certification the land application was completed with changes or modifications. Submit the information necessary to clearly indicate the land application as actually performed. This information shall include a contour map depicting only those sections that actually received road oil formulation.
- 4 of 5. The review and approval of this permit is based upon the items identified in the attached Statement of Basis.
- 5 of 5. Waste water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes, and reservoirs.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

7/29/04  
Date of Issuance

JDL/bb/4-0619.ltr

cc: WDEQ Casper Field Office

## STATEMENT OF BASIS

I. General information.

A. Permit Number: 04-249

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

A. Chapter XI. No

B. Chapter XII. No

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.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. 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.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

There are no numeric standards or criteria in Chapter XI for road application. W.S. 35-11-301 (a)(iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.

B. Briefly state the basis for the deviation.

Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/91), 10.4 (10/24/91), and 10.6 (1/18/91) address the statutory authority to regulate the road application of waste, establish criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State. District Policy 10.2 (10/17/86).

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III<sup>1</sup>. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NA

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining how groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

NA

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

NA

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

NA

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

NA

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

NA

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal, and any other information documenting that any users of affected aquifer will not be impacted.

NA

- G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

NA

- VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include 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 Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Dennis Lamb, Northeast District Supervisor and completed on June 21, 2004. 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."

JDL/bb/4-0619.ltr

<sup>1</sup>Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.



The State  
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## Department of Environmental Quality



Dave Freudenthal, Governor

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604

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### NOTIFICATION OF COVERAGE

June 8, 2004

Maurice M. Studer  
5 Terry Road  
Spearfish, SD 57783

RE: Studer Small Wastewater Facility, Permit # 04-250

Dear Mr. Studer:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3 and Chapter 11, Part D, 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 Dennis Lamb at 3030 Energy Lane, Casper, WY, 82604, (307) 473-3452. Thank you.

Sincerely,

Dennis Lamb  
NE District Supervisor  
DEQ/WQD

cc: IPS, Cheyenne