



The State
of Wyoming



Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Jim Geringer, Governor

3-8-02
fs

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

March 6, 2002

Mr. Daniel Solo
844 Old Sundance Road
Moorcroft, WY 82721

RE: Dan Solo Residence Septic, Permit # 02-051

Dear Mr. Solo:

The above application for coverage under General Permit to Construct, Install, Modify or Operate extensions to or modifications of small wastewater septic 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.

Following my visit to the site on March 4 notification of construction is not required. If you have any questions please contact me at 1043 Coffeen Avenue, Suite D, Sheridan, WY, 82801, (307) 672-6457.

Sincerely,

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

cc: IPS, Cheyenne

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-052R
SPECIAL CONDITIONS

Riverton - Sewer Line Extension West of Cathedral Drive

This permit hereby authorizes the applicant:

John Jordy, Owner
355 Cathedral Drive
Riverton, WY 82501

to construct an extension of a sewage collection system which consists of 700 linear feet of 8 inch PVC and appurtenances, according to the procedures and conditions of application number 02-052R. The facility is located in SW1/4 Section 30, T1N, R4E in the county of Fremont, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by March 14, 2004.

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 (WQD), 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Mark Baron, Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

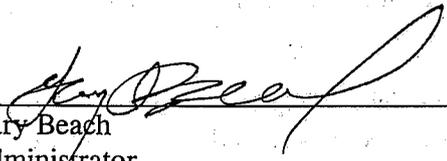
Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations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

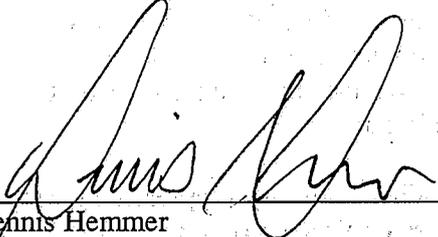
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will notify the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, 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 of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; 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.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis."

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

3-18-02
Date of Issuance

MDB/mdb
b/2-0918.ltr

STATEMENT OF BASIS

I. General information.

Permit Number: 02-052R

II. Application reviewed for compliance with the following regulations.

A. Chapter 11. Yes

B. Chapter 12. No

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section 2.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter 11, or 12.

No

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

No

IV. Facilities not specifically covered by regulations.

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

Chapter 11, Section 9 (d)(i) limits the spacing between manholes to 400 feet for 8 inch sewer mains and also limits the distance between a clean out and downstream manhole to 150 feet.

B. Briefly state the basis for the deviation.

The manhole spacing has been increased to 500 feet and the clean out spacing has been increased to 200 feet to provide an optimal sewer main layout. The City of Riverton has the capacity with its cleaning equipment to maintain the additional spacing.

C. Permit based on general or statewide deviation contained in approved policy statement.

No

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3¹.

N/A

VI. If Section 17 of Chapter 3 is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

VII. 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Mark Baron, Environmental Senior Analyst, and completed on March 14, 2002. 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/bb/2-0918.ltr

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
UNDERGROUND INJECTION CONTROL PERMIT
CLASS I INJECTION WELL

() New
(X) Modified

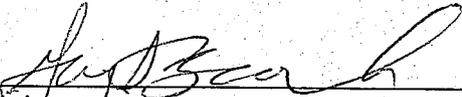
Permit Number UIC 02-053
Reference old permits: 89-379, 97-239

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a) (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter 13 (March 11, 1993),

Applicant: Alpha Development Corporation
P.O. Box 2875
Casper, WY 82602-2875
(307) 234-8925

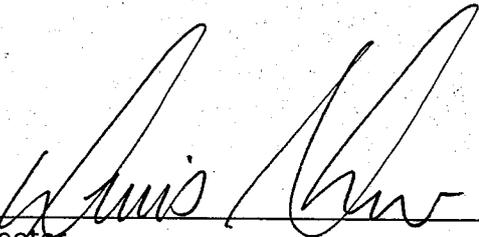
is authorized to operate the **Cole Creek Unit F41-27G Class I Injection Well** in the NE¼ NE¼, Section 27, Township 35 North, Range 77 West, of the 6th Principal Meridian, Converse County; according to the procedures and conditions of applications 88-311, 89-379, and 97-239 and requirements and other conditions of this permit as contained in pages 1 through 16.

This permit shall become effective on date of issuance.



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

4/24/02
Date



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

4-29-02
Date

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A. Discharge Zone

1. This injection well is authorized to inject into the Dakota Formation through an open hole completion from 8,074 to 8,099 feet below the ground surface. Alpha Development Corporation is authorized to deepen this well to include the entire Dakota Formation with the prior approval of the procedure by the Water Quality Division. The authorized discharge zone is therefore the entire Dakota Formation.
2. The packer set on the bottom of the tubing shall be set within 500 feet of the top of the authorized discharge zone.

B. Area of Review

The well authorized by this permit is located in:

Township 35 North, Range 77 West, 6th Principal Meridian
Section 35: NE ¼ NE ¼

The Area of Review around this well is legally described as:

Township 35 North, Range 77 West, 6th Principal Meridian
Section 22: S ½
Section 23: S ½
Section 26: All
Section 27: All

C. Groundwater Classification

The groundwater in the Dakota Formation is classified as class VI under Chapter 8 of Wyoming Water Quality Rules and Regulations (March 11, 1993.) This classification was made because:

- a. The groundwater in this formation contains in excess of 10,000 mg/l of Total Dissolved Solids;
- b. The groundwater in this formation is situated at such a depth that recovery of this water and treatment for drinking water purposes is not practical;
- c. This formation has been used in the past for the disposal of non-hazardous waste and cannot be expected to provide a source of drinking water;

and

- d. This formation naturally contains traces of oil and gas and cannot be reasonably expected to provide a source of drinking water at this location.

D. Authorized Operations

1. Alpha Development Corporation is authorized to inject 6,600 barrels per day, (277,200 gallons per day) of industrial wastes as described:

a. Well workover wastes

This category includes: Water associated with drilling fluids used during the drilling of any oil and gas well or the water supply wells on oil and gas locations; Rig wash water; Well completion, treatment and stimulation fluids; Waste produced during any workover or abandonment of an oil or gas well or test hole; Wastes from subsurface gas storage and retrieval; Liquid hydrocarbons removed from the production stream but not from oil refining; Materials ejected from a producing well during the process known as blowdown;

Alpha Development Corporation shall obtain an API standard water analyses for each lot of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading "**Well workover wastes- Authorization# 1997-1**", rather than the name of the company generating the wastes.

b. Water and other tank bottoms

This category includes: Water and other tank bottoms from the storage facilities that hold crude oil, natural gas, gas condensate, or wastes which are exempt under the Oil and Gas Exploration and Production Exemption to RCRA.

At least once every three years, Alpha Development Corporation shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each source of waste accepted under this provision. No

additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title "Water and other tank bottoms- Authorization# 1997-2" rather than the name of the company generating these wastes.

c. Gas plant sweetening and dehydration wastes

This category includes: Gas plant sweetening wastes for sulfur removal including amines, backwash, and any wastes produced by a Bevon Stetford processing plant; Gas plant dehydration wastes, and backwash.

At least once every three years, Alpha Development Corporation shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each company generating such wastes which are accepted under this provision. These analyses shall be accompanied by a complete description of the waste sampled including the plant name and location, and whether the waste is glycol, amine, or caustic waste. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title "Gas Plant Wastes - Authorization# 1997-3" rather than the name of the company generating these wastes.

d. Miscellaneous Oilfield Related Wastes

Cooling tower blowdown wastes on gas plant or other exempt sites; Packing fluids; Pigging wastes from in field gathering lines, but not from interstate pipeline systems;

Once every three years, Alpha Development Corporation shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each source of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title "Miscellaneous Oilfield - Authorization# 1997-4" rather than the name of the company generating these wastes.

e. Regulated Storage Tank Wastes

Wastes generated during the removal or maintenance of Underground Storage Tanks, so long as those tanks are regulated facilities under the Storage Tank Program administered by the Water Quality Division. Under this provision, wastes including water from inside an active tank, water found inside the tank during a removal operation, ground waters contaminated by gasoline and diesel, and water used in any form of testing operation, may be injected without analyses and without prior approval. Alpha Development Corporation shall obtain a written statement from the generator of any such waste stating that the waste is from a storage tank regulated by the Water Quality Division. These statements shall contain the certification statement found in your permit. Please account for all such wastes on your quarterly report under the title "Regulated Storage Tank Wastes - Authorization# 1997-5" rather than the name of the company generating these wastes.

f. Oilfield Produced Water

This category includes all waters produced directly with the production of oil and gas and collected in the field where the oil and gas were produced. It does not include tank bottoms, or water accumulated in gas processing plants, refineries, or Intrastate or Interstate Pipe Line facilities.

Alpha Development Corporation shall obtain an API standard water analyses for each lot of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading "**Oilfield Produced Water- Authorization# 1997-6**", rather than the name of the company generating the wastes.

g. Sump Wastes

Wastes known as "sump wastes" from floor drains and septic tanks at various sites. This general category includes wastes from sumps in automotive shops, gasoline stations, oilfield service industries, airports, and similar shops which perform mechanical work. This category does not include industrial process wastes from manufacturing operations or wastes from sumps in shops which do not perform mechanical work. These wastes must be characterized fully prior to disposal to insure that they are not hazardous wastes. The Water Quality Division will issue a letter of approval for each new source of waste under this category prior to Alpha Development Corporation accepting the first lot of waste. In order to obtain such an approval letter, Alpha Development Corporation shall submit a complete written description of the waste, including the name of the company generating the waste, the address or legal description of the location where the waste was produced, a description of the processes that produced the waste, and a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Based on this information, the Water Quality Division may issue an approval letter for the disposal of non-hazardous sump waste for a duration of no more than three years.

In order to renew a previously approved source, once every three years, Alpha Development Corporation shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Please account for all such wastes on your quarterly report under the title "**Miscellaneous Sump Waste - Authorization# 1997-7**" rather than the name of the company generating these wastes.

h. Bevill Amendment Wastes

The Bevill Amendment exempts most wastes generated in the mining industry from regulation under RCRA. Wastes covered by the Bevill Amendment to RCRA are detailed in 40 CFR 261.4(b)(7). This section of 40 CFR 261 sets up two types of mining wastes which are exempt, beneficiation wastes and processing wastes. The two terms are almost interchangeable, except that processing usually refers to a process which produces a final end product, while beneficiation produces an intermediate product which must be further refined to be used. Once every three years, Alpha Development Corporation shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Please account for all such wastes on your quarterly report under the title "**Bevill Amendment Waste - Authorization# 1997-8**" rather than the name of the company generating these wastes.

i. Water well wastes

This category of fluids includes: Water associated with drilling fluids used during the drilling of any water supply well; Rig wash water; Well completion, treatment and stimulation fluids; Waste produced during any workover or abandonment of a water well or test hole including spent acid from acid fracturing or well acidizing jobs.

Alpha Development Corporation shall obtain an API standard water analyses for each lot of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading "Water well wastes- Authorization# 1997-9", rather than the name of the company generating the wastes.

j. Miscellaneous Non-hazardous wastes

In addition to the authorizations contained in this permit, Alpha Development Corporation may still obtain additional approvals for wastes which do not fit any of the above classifications. Any such waste must be characterized fully in order to insure that this waste is not a hazardous waste. The Water Quality Division will issue a letter of approval for each new source of waste under this category prior to Alpha Development Corporation accepting the first lot of waste. In order to obtain such an approval letter, Alpha Development Corporation shall submit a complete written description of the waste, including the name of the company generating the waste, the address or legal description of the location where the waste was produced, a description of the processes that produced the waste, a certification that the waste is not a listed hazardous waste, and a comprehensive water analyses for the waste. Since this is a very broad category of wastes, the exact analyses required will be based on the type of processes that generate the waste, and the type of contaminants likely to be present in the waste. Based on this information, the Water Quality Division may issue an approval letter for the disposal of non-hazardous waste for a duration of no more than three years.

In order to renew a previously approved source, once every three years, Alpha Development Corporation shall obtain a comprehensive water analyses including all parameters included in the initial approval. Please account for all such wastes on your quarterly report under the title "Miscellaneous Non-Hazardous Waste - Authorization# 1997-10" rather than the name of the company generating these wastes.

k. For each type of waste accepted under any of the blanket authorizations contained in this permit, Alpha Development Corporation shall require that the company generating these waste provide a full written description of the wastes to support the fact that the wastes are similar to the wastes described in the authorization. Alpha Development Corporation shall keep records on site concerning the source of all such wastes. All wastes accepted under any authorization contained in this permit shall be neutralized to a pH of greater than 2.0 and less than 12.5.

2. Alpha Development Corporation is authorized to inject at a pressure of no more than 900 psig as measured at the wellhead. The pressure of injection shall be continuously monitored and recorded on a chart recorder.

3. The wastes to be injected generally will be from operations described by the following SIC codes, but are not limited to wastes described by these codes: 013, 029, and 492.

4. Alpha Development Corporation may inject other wastes with prior written approval of the Administrator.

E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined by Chapter 2, Section 1(c), Wyoming Hazardous Waste Rules and Regulations. Injection of any substance defined as hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

F. Proper Operation and Maintenance

1. Alpha Development Corporation shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
2. Alpha Development Corporation shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes mechanical integrity of the well, effective performance, adequate funding and operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.
3. The injection well covered by this permit shall meet all construction requirements outlined in Chapter 13, Section 11 of the Wyoming Water Quality Rules and Regulations.
4. Alpha Development Corporation is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the Administrator.

Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

6. Injection into a well may not commence until construction is complete.

G. Entry and Inspection

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

H. Environmental Monitoring Program for Ground Waters of the State

Because of the depth of injection, the type of waste, and/or the amount of groundwater sampling already required in the general vicinity of this facility, no groundwater monitoring plan is required.

I. Requirements for Monitoring the Discharge

1. Alpha Development Corporation shall monitor the injection pressure continuously and record those readings on a strip chart recorder, a circular charge recorder, or digitally by computer interface with the pressure transducer on the well.
2. Alpha Development Corporation shall shut the well covered by this permit in annually for a period of time long enough to observe a valid pressure falloff curve. This test shall be considered complete when the pressure curve becomes asymptotic to a straight line on the Miller-Dyes-Hutchinson (MDH) plot. Alpha Development Corporation shall prepare a report for each falloff curve conducted including a MDH Plot and calculations of the skin effect, the indicated transmissivity and permeability of the receiver, and the indicated reservoir pressure. This report shall include plots of the data and all calculations based on those plots.

COMPLIANCE SCHEDULE
<p>Previous permittees were required to provide valid pressure falloff curves. This requirement has not been met in past practice. Alpha Development Corporation shall submit the results of the first valid pressure falloff curve no later than September 1, 2002 and the results of each successive test no later than September 1 of each succeeding year. In the event that a pressure falloff curve cannot be obtained for technical reasons, Alpha Development Corporation shall propose an alternate test of equivalent performance. Upon approval by the Water Quality Division, Alpha Development Corporation shall conduct the approved alternate test annually.</p>

3. Alpha Development Corporation shall monitor the quality of the injected water on an approved schedule. The following parameters shall be analyzed by the listed methods and reported (quarterly or monthly):

SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT OR (UCL)*
Quarterly	EPA Method 501.2, 602, or 624	Tetrachloroethene (a.k.a. Perchloroethene - PCE)	.05
	EPA Method 501.2, 602, or 624	Trichloroethene (TCE)	.062
	EPA Method 239.2 or equivalent	Lead	5.0
	EPA Method 213.2 or equivalent	Cadmium	5.0
	EPA Method 218.1 or equivalent	Chromium	5.0
	EPA Method 418.1 or equivalent	Total Petroleum Hydrocarbons	No Limit

*All chemical parameters listed in this permit are expressed in mg/l unless otherwise shown. pH is always expressed in standard units.

The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action.

In addition to the two solvents shown above, Alpha Development Corporation shall also sample and analyze for the entire list of parameters normally reported on the Method 624 analyses by the laboratory doing the samples. The entire analytical report shall be submitted to WQD along with the next quarterly report.

4. Alpha Development Corporation shall monitor continuously the pressure on the casing/tubing annulus and shall maintain a positive pressure on that annulus. This requires that Alpha Development Corporation install a continuous chart recorder, or a digital interface electronic recorder. The pressure maintained shall be not less than 100 psig nor more than 800 psig.
5. Alpha Development Corporation shall monitor continuously the volume injected. This may be accomplished using a totalizer volume meter and recording manually the readings on a daily basis for each day when the well is in active use. This may also be accomplished by installation of a continuous chart recorder or digital electronic recorder on the injected volume.

J. Test Procedures

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

K. Records and Reports

1. Alpha Development Corporation shall furnish to the Administrator, within a specified time, any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit.
2. Alpha Development Corporation shall retain copies of all records and reports required by this permit, for a period of three (3) years following permanent well abandonment. After that time, those same records shall be delivered to the Administrator for disposal or archive at his sole discretion.
3. Reports of compliance or noncompliance with, and any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted no later than thirty (30) days following each schedule date.
4. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time Alpha Development

Corporation becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance.

5. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above.
6. Alpha Development Corporation shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion or abandonment of the well covered by this permit.
7. The quarterly report of operations for this well shall include the following information:
 - a. The minimum, average, and maximum daily injection rate for each month of the quarter. The page showing the maximum injection rate shall also show the maximum permitted injection rate for comparison.
 - b. The minimum, average, and maximum daily injection pressure for each month of the quarter. The page showing the maximum injection pressure shall also show the maximum permitted injection pressure for comparison.
 - c. The total injection volume in gallons for each month of the quarter, the total for the quarter, the total cumulative injected to date all for each well separately.
 - d. The maximum and minimum annulus pressure for each month of the quarter for each well separately.
 - e. Any permit exceedances within the quarter.
 - f. Any tests run during the quarter. This includes, but is not limited to, the results on any Mechanical Integrity Tests, Pressure Falloff Tests, Step Injection Tests, or any well workovers.
 - g. The analytical results for sampling for the injected water and any groundwater sampling results required under Section H.
 - h. Quarterly reports are due in the Cheyenne office of the Water Quality Division no later than 30 days after the end of each calendar quarter.

L. Permit Actions

1. Class I permits are normally issued for a period of ten (10) years. This permit, however is being issued without public notice as a permit transfer. For this reason, this permit will expire ten (10) years from the date when the last permit was issued on this well, or August 26, 2007. If Alpha Development Corporation wishes to continue injection after the expiration date of this permit, it shall apply to the Administrator and obtain a new permit prior to the expiration date of this permit.

2. It shall not be a defense for a permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
3. The filing of a request by Alpha Development Corporation, or at the instigation of the Administrator, permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.
4. After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:
 - a. Violation of this permit;
 - b. Obtaining a permit by misrepresentation of facts in the application; or
 - c. Failure of the casing, cement, or the confining layer.
5. This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substance present in Alpha Development Corporation's discharge, as may be ordered by the council.

M. Mechanical Integrity

1. Mechanical Integrity shall be maintained continuously and reviewed at least once every five (5) years. The test used to determine mechanical integrity shall be a two part test approved by the Administrator.

Part I of the Mechanical Integrity test shall demonstrate the absence of leaks through the packer, tubing, casing, and wellhead. Part I of this test was passed May 9, 1997 by holding 900 psi on the casing/tubing annulus for 15 minutes. A similar procedure shall be carried out before the five year anniversary of the preceding test.

Part II of the Mechanical Integrity test shall demonstrate the absence of fluid movement behind the casing. Part II of this test was passed on May 9, 1997 by running a Radioactive Tracer Survey. No leakage behind the casing was identified. A Radioactive Tracer Survey shall be run in conjunction with an injecting and shut-in temperature survey before the five year anniversary of the preceding test.

2. Whenever a situation occurs in which this well has failed to demonstrate both parts of the required Mechanical Integrity test shown on the above schedules, it shall be shut in until the Mechanical Integrity has been restored and the required tests have been passed.
3. In addition to the above, Alpha Development Corporation shall also demonstrate the fluid tight condition of all surface or buried flow lines by closing the valves on the well and pressure testing all flow lines to 900 psig for 15 minutes.

N. Abandonment

1. Alpha Development Corporation shall notify the administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedure prescribed by the director for plugging and abandonment or the discontinuance of related activities. The following abandonment procedure shall be followed for the well covered by this permit:
2. A squeeze cementing operation shall be run with the cement retainer set within 200 feet of the top perforations. This cementing operation shall consist of pumping 100 sacks of 50/50 pozmix cement with 2% allowed gel or class G cement with .4% fluid loss additive. After stringing out of the retainer an additional 400 sacks of class G cement with retarder added shall be emplaced in the casing as the tubing is withdrawn. The remainder of the hole shall be filled with water. Following this operation, the top 500 feet of the hole shall be filled with cement as above and a standard dry hole marker shall be installed on the surface and welded or bolted to the long string.
3. In no case shall the abandonment procedure be less stringent than that required at the time of abandonment by the Wyoming Oil and Gas Conservation Commission for the abandonment of producing oil wells at the time of abandonment. In no case shall the abandonment procedure be less stringent than that required by the EPA nationwide for class I nonhazardous waste wells at the time of abandonment.
4. Within thirty (30) days after plugging and abandonment of the well covered by this permit, Alpha Development Corporation shall submit a plugging and abandonment report, detailing the compliance abandonment procedures outlined in the original permit application, and describing any deviation from the original plan. The abandonment plan shall include reclamation of the well location.

O. Duties of the Permittee

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

P. Financial Responsibility

1. Alpha Development Corporation has posted the required financial instruments to guarantee the logging and abandonment of the hazardous waste injection well covered by this permit. The specific financial instrument provided is: Community First Bank, Irrevocable Letter of Credit Number 02-01 in the amount of \$20,000 in lieu of a surety bond. This Irrevocable Letter of Credit will be held until released pursuant to W.S. 35-11-306(p) or forfeited pursuant to W.S. 35-11-306(m).
2. Alpha Development Corporation shall maintain the above instrument or a replacement instrument for the duration of this permit and until all post-closure care requirements have been satisfied.

Q. Special Conditions

1. In addition to the conditions required of all permits, the administrator has established conditions as required for monitoring, schedules of compliance, and such additional conditions as are necessary to prevent the migration of fluids into underground sources of drinking water. These conditions are established in conformance with Chapter 13, Section 9(e).
2. Alpha Development Corporation shall identify the facility covered by this permit with a standard well sign. The well sign shall show the name of the permittee, the name of the well, the legal description of the well, and the fact that a WQD UIC permit applies. The wellhead itself shall be identified with a sign and the injection plant shall also have a sign on the door with the same information.
3. Inside the injection plant Alpha Development Corporation shall affix a sign which states the maximum injection pressures and volumes and the fact that any exceedance of these values is a violation of the permit. The sign shall include instructions that exceedances must be reported within 24 hours of their occurrence to the following telephone number: (307) 777-7095.
4. All signs required shall be constructed of standard sign gauge material in either steel, aluminum or fiberglass with letters a minimum of 1 inch high.
5. Alpha Development Corporation shall maintain control of the site in the form of fences, locks, and other controls to insure that unauthorized disposal does not occur.

R. Signatories Requirement

1. All reports filed in conjunction with this permit shall contain the following certification:

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

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

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

- a. The authorization is made in writing by one of the described principals;
- b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
- c. The written authorization is submitted to the Administrator.

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

S. Noncompliance

1. Alpha Development Corporation shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Chapter 13 of the Wyoming Water Quality Rules and Regulation and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written submission shall be provided within five (5) days of the time Alpha Development Corporation becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit non-compliance constitutes a violation of this permit.

2. The filing of any request by Alpha Development Corporation for a permit modification, revocation, and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

T. Permit Transfer

1. Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator, and the Director, and no transfer shall be approved unless the proposed permittee agrees to bring any and all non compliance issues into compliance with this permit.

2. Alpha Development Corporation is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

U. Property Rights

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

V. Severability

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

2. The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

RL/bb/2-1316.ltr

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: 02-053

B. Facilities Covered: Alpha Development Corporation; P.O. Box 2875; Casper, WY 82602-2875; (307) 234-8925 - *Cole Creek Unit F41-27G Class I Injection Well* located in NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 27, Township 35 North, Range 77 West, of the 6th Principal Meridian, Converse County, one Class I injection well.

C. Class of Facility: 1 Non Hazardous (Under Chapter 13)

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

A. Chapter 8 Yes

D. Chapter 12 No

B. Chapter 9 No

E. Chapter 13 Yes

C. Chapter 11 No

F. Chapter 16 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 based on deviation from applicable regulations in accordance with approved policy statement.

No

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

NOT Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 17. (Indicate either applicable or not applicable. If not applicable delete all of section VI from the Statement of Basis.)

Applicable. A groundwater review has been conducted to insure that no groundwater will be impacted by this system.

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

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

B. A Public Notice has not been issued for this minor modification of the permit. This modification changes the operators name, and makes minor changes to the reporting requirements.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Robert F. Lucht, P.E. and P.G., UIC Program Supervisor, and completed on April 23, 2002. 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."

RFL/bb/2-1325.ltr

JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

March 6, 2002

Tim Isabel, Mayor
Town of Shoshoni
P.O. Box 267
Shoshoni, WY 82649

RE: Shoshoni Water Loop - Second Street to Senior Housing,
Permit Number: 02-054, NE1/4 Section 28, T38N, R94W,
Fremont County, PWS # 5600053

Honorable Mayor Gotier:

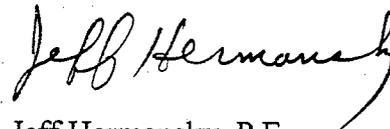
The above application for coverage under General Permit to Construct the looping of a public water supply system using 370 linear feet of 8 - inch PVC water main in accordance with Chapter 3, Section 7 and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations has been reviewed and 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, E.I.T.
Environmental Senior Analyst
Water Quality Division



Jeff Hermansky, P.E.
Northwest District Engineer
Water Quality Division

cc: IPS, Cheyenne

encl: General Permit For a Public Water Supply Distribution System



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR



Department of Environmental Quality

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4-11-02
Barb

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

April 10, 2002

Dr. Frank J. Fischel, Superintendent of Schools
Teton County School District #1
P.O. Box 568
Jackson, WY 83001

RE: Jackson Elementary School Waterline Extension and Sanitary Sewer Improvements,
Permit Number: 02-055R, SW1/4NE1/4 Section 6, T40N, R116W, Teton County, PWS #
5600213

Dear Mr. Fischel:

The above application for coverage under General Permits to Construct the extension of a public water supply system consisting of 880 linear feet 6 - inch ductile iron water main, and the extension of a sewage collection system consisting of 140 feet of 6 - inch schedule 40 sewer main along with the replacement and repair of existing manholes 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 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
Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin
Doyle Conklin, P.E.
Southwest District Engineer
Water Quality Division

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



JIM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

April 17, 2002

Noel McMillin, Owner
Kenola Addition
3232 Sheridan Avenue
Cody, WY 82414

RE: Cody - Kenola Addition, Permit Number: 02-056R, SW1/4 Section 34 (O.S.),
T53N, R101W, Park County, PWS # 5600207

Dear Mr. McMillin:

The above application for coverage under General Permits to Construct the extension of a public water supply system consisting of 1250 linear feet of 8 - inch PVC water main and the extension of a sewage collection system consisting of 1250 linear feet of 8-inch PVC 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 permit.

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

Sincerely,
Mark Baron
Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky
Jeff Hermansky, P.E.
Northwest District Engineer
Water Quality Division

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-057
SPECIAL CONDITIONS

Fort Laramie
PWS WY 5600185

This permit hereby authorizes the applicant:

Town of Fort Laramie
100 East Bliss
Fort Laramie WY 82212

to construct, install or modify a two radio telemetry units and controls on existing wells according to the procedures and conditions of the application number 02-057. The facility is located in Locations in T26N R64W in the county of Goshen, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by May 1, 2004.

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 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 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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.

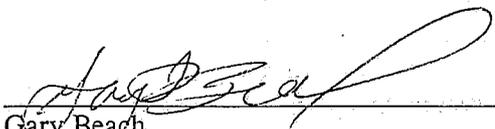
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

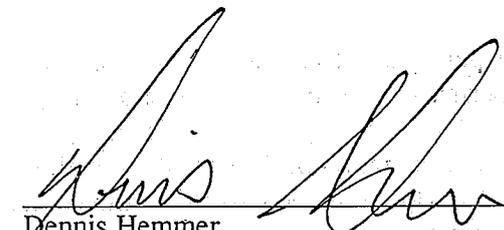
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 3 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast 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 Southeast 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:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

4-17-2002

Date of Issuance

LBH/mad/2-1242-ltr

cc: Phil Stump

STATEMENT OF BASIS

- I. Permit Number: 02-057
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. NO
- B. Chapter XII. YES
- III. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- IV. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
- NO
- V. 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 Louis B. Harmon, Southeast District Engineering Supervisor, and completed on April 16, 2002. Permit issuance is commended 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."

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

PROJECT: Fort Laramie Radio Telemetry System

ENGINEER: Baker and Associates, Inc.

APPLICANT: Town of Fort Laramie

WATER QUALITY DIVISION REFERENCE NUMBER: 02-057

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: March 28, 2002



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

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. A signed application for permit to construct must be submitted.
2. An engineering design report as required by Section 6 of Chapter 12, Water Quality Division Rules and Regulations is required.
3. A commitment to provide an operations and maintenance manual as required by Section 16, Chapter 12 should be made as part of the engineering design report. The O&M manual should address not only the operation of the telemetry equipment, but operation of the water supply system utilizing the telemetry equipment.

LBH/bb/2-1054.ltr

THE STATE



OF WYOMING

JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

March 1, 2002

Adelaide T. Mitchell
P. O. Box 50
Kirby, WY 83420

RE: Mitchell Replacement Leach Field , Permit Number 02-058
Hot Springs County

Dear Mrs. Mitchell:

The above application for coverage under General Permit to Construct a replacement leach field in accordance with Chapter 3, Section 7, 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,

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

Jeff Hermansky
Northwest District Engineering Supervisor
Water Quality Division

xc: IPS, Cheyenne; Pete's Plumbing & Heating, 410 S. 5th Street, Thermopolis 82443
encl. Plans



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

March 11, 2002

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

RE: South Park Estates - 1st Filing, Hunters Way, North End, Application No.02-059, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permits 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 permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Please reference Application No.02-059 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/mad/2-0825-ltr

cc: IPS, Cheyenne
Russell Dahlgren, Dahlgren Consulting, Inc.
914 East 23rd Street
Cheyenne WY 82001

AS-BUILT
PERMIT TO CONSTRUCT

△ New
Renewal
Modified

PERMIT NO. 02-060R
SPECIAL CONDITIONS

Thermopolis Sewer Manhole Number 15

This permit hereby authorizes the applicant:

Town of Thermopolis
P.O. Box 603
Thermopolis, WY 82443

to have constructed a new manhole #15 to replace failed manhole #15 at the sewage treatment plant according to the procedures and conditions of application number 02-060R. The facility is located in Thermopolis in the county of Hot Springs, in the State of Wyoming.

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, 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 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 (WQD), 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/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 violation of personal rights, nor any infringement of federal, state or local laws or regulations.

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

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

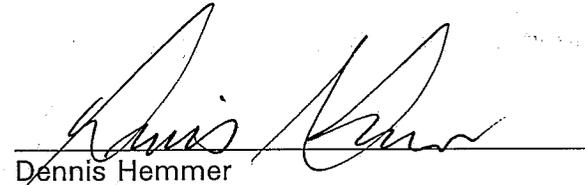
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

1 of 1 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

5-21-2002
Date of Issuance

JCH/mad/2-1619-ltr

STATEMENT OF BASIS

General information.

Permit Number: 02-060R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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. N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III¹.

N/A

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

VI. 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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on May 17, 2002. 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

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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) 777-7761 FAX 777-5973
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May 20, 2002

Mayor Mike Mortimore
Town of Thermopolis
P.O. Box 603
Thermopolis, WY 82443-0603

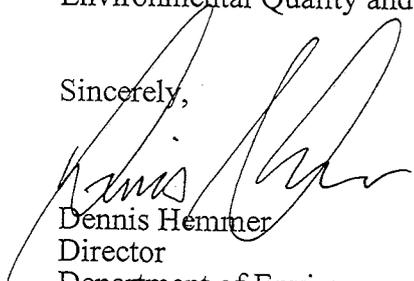
RE: As-Built Permit To Construct, WQD Reference Number 02-060R

Dear Mayor Mortimore:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by your engineer, Travis Conklin. Our review of the information and as-constructed plans submitted to this office indicates that the application meets DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers which has already been constructed.

Please be advised that the system must be constructed, installed and operated in accordance with the statements, representations and procedures presented in the application and all supporting documentation as well as the terms and conditions of the permit. You are urged to be familiar with all aspects of the permit application, permit and permit conditions. Any person objecting to a permit issued by the DEQ and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the Rules of Practice and Procedure for the Department of Environmental Quality and the Wyoming Administrative Procedures Act.

Sincerely,


Dennis Hemmer
Director
Department of Environmental Quality

DH/JCH/mad/2-1618-ltr
Enclosure:



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR



4-11-02
Barb

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

April 10, 2002

James W. Gibson, President
Tenastic, Inc.
150 East Main Street
Lander, WY 82520

RE: Lander - Gibson Subdivision Water and Sewer, Permit Number: 02-061R,
NE 1/4 Section 24, T33N, R100W, Fremont County, PWS # WY5600176

Dear Mr. Gibson:

The above application for coverage under General Permits to Construct the extension of a water distribution system consisting of 670 L.F. of 6 - inch PVC water main and the extension of a sewage collection system main consisting of 530 L.F. of 8 - inch PVC sewer main and appurtenances 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 permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin, P.E.
Southwest District Engineer
Water Quality Division

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



JIM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

March 21, 2002

Steven R. Shwen, Owner
Rimrock West, LLC
P.O. Box 1768
Rock Springs, WY 82902

RE: Rock Springs-Rimrock West Addition, Phase II, Permit Number: 02-062, SE1/4 Section 28,
T19N, R105W, Sweetwater County, PWS # WY5601182

Dear Mr. Heisler:

The above application for coverage under General Permits to Construct the extension of a water distribution system consisting of 1052 feet of 8 - inch PVC and the extension of a sewage collection system consisting of 1250 of 8 - inch PVC and appurtenances 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 permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin, P.E.
Southwest District Engineer
Water Quality Division

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



JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

March 19, 2002

Vern Heisler, City Engineer/Airport Manager
City of Riverton
816 North Federal Blvd.
Riverton, WY 82501

RE: Riverton-North Broadway 2002 Water Main Improvement Project
Permit Number: 02-063, SE1/4 Section 27 & NE1/4 Section 34, T1N, R4E,
Fremont County, PWS # 5600047

Dear Mr. Heisler:

The above application for coverage under General Permit to Construct the replacement of a public water supply main consisting of 1170 feet of 8 - 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, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky, P.E.
Northwest District Engineer
Water Quality Division

cc: ~~IPS, Cheyenne~~

encl: General Permit For a Public Water Supply Distribution System

PERMIT TO CONSTRUCT

New
Renewal
Modified

PERMIT NO. 02-064
SPECIAL CONDITIONS

Love's Travel Center - New Water Supply Well
PWS # Not Assigned Yet

This permit hereby authorizes the applicant:

Love's Travel Stop
Attn. Rick Shuffield, Director Real Estate & Development
P.O. Box 26210
Oklahoma City, Oklahoma 73126

to construct and install a new water supply well for a public water supply system according to the procedures and conditions of the application number 02-064. The facility is located in the NE 1/4 of Section 14, T13N, R67W in the county of Laramie, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by April 30, 2004.

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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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.

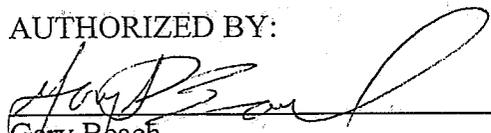
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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.

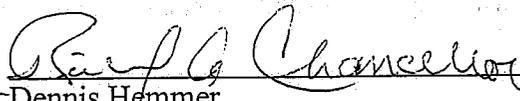
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 4. The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast 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 4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast 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. **As-constructed plans and specifications for the new well shall be submitted** and certified by an engineer. All **modifications or deviations** from the authorized plans **must be highlighted**.
- 3 of 4. Post Construction Well Testing - Yield and Drawdown tests & Plumbness and Allignment tests shall be done in accordance with Chapter 12, Section 9(b)(ii)(A) & (B) of the WQR&R found on page 16. These test results shall be submitted to the WQD for review at the earliest possible date.
- 4 of 4. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

4-24-02

Date of Issuance

RLE/mad/2-1339-ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 02-064

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

A. Chapter 11. No

B. Chapter 12. Yes

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

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

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter 11, or 12.

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.

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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).

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NOT Applicable

VI. Deleted

VII. 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Ronald L. Ewald, Senior Analyst, and completed on April 24, 2002. 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."

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

LAND APPLICATION PERMIT

X New
Renewal
Modified

PERMIT NO. 02-065
SPECIAL CONDITIONS
REF/PERMIT #98-144

Holly Sugar Corporation - Worland Facility

This permit hereby authorizes the applicant:

Holly Sugar Corporation
P. O. Box 468
Worland, Wy 82401

to land apply water from groundwater control trench system according to the procedures and conditions of application number 02-065. The application site is located in Sec. 36, T47N, R93W in the county of Washakie, in the State of Wyoming. This permit shall be effective for five (5) years.

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 design herein. This permit verifies only that the submitted application meets the 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 of, the permitted facility. 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), 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/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:

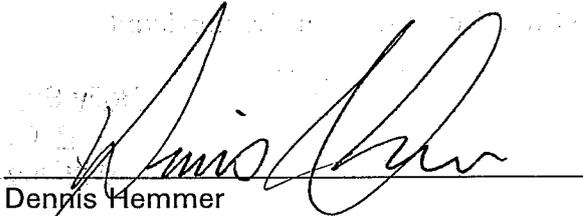
1 of 2 Holly Sugar shall provide a written report with the results of any monitoring data to DEQ/WQD,
250 Lincoln Street, Lander, WY 82520.

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

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

3-21-2002

Date of Issuance

JCH/jm
2-0961-ltr

STATEMENT OF BASIS

General information.

Permit Number: 02-065

II. Application reviewed for compliance with the following regulations.

- A. Chapter XI. Yes
- B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

- 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.

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

N/A

- B. Briefly state the basis for the deviation.

N/A

- 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).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III¹.

Applicable

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining 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:

The irrigation water is to be applied in four relatively short application periods per day to reduce the potential for groundwater infiltration.

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

Irrigation water is the groundwater recovered from under the land application site so there will be no increase in contaminate levels.

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

N/A

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:

N/A

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:

N/A

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.

N/A

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.

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

Existing groundwater monitoring system has been in place since 1987. No changes in parameters or frequency will be made.

i. 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 Jeff Hermansky, Northwest District Engineering Supervisor, and completed on March 18, 2002. 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."



JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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
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NOTIFICATION OF COVERAGE

April 29, 2002

Mayor Paul S. Oblock
City of Rock Springs
212 D Street
Rock Springs, WY 82901

RE: City of Rock Springs, Water & Streets Dept. Building, Permit Number 02-066, NE1/4
Section 26, T19N, R105W, Sweetwater County

Dear Mayor Oblock:

The above application for coverage under General Permit to Construct, Install, Modify or Operate an Extension to an Existing Public Water Supply Distribution System 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, 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, Subpart 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

cc: IPS, Cheyenne



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

April 22, 2002

Jack Roberts
P.O. Box 103
Encampment, Wyoming 82325

RE: Roberts Residential Septic System, Application No. **02-067**
Location: NW 1/4, SE 1/4, Section 31, T15N, R83W, Carbon County

Dear Mr. & Mrs. Roberts:

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:

- A. 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.
- B. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding filling the tank with water during burial and immediately after pumping it out, **must be followed during installation** and clean-outs.

April 22, 2002
Page 2

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 30, 2002. Please reference Application Number 02-067 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/mad/1300-ltr

cc: IPS, Cheyenne
Carbon County Planner

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Schedule Card
Certificate of Completion



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

March 21, 2002

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

RE: Campstool / I-80 16" Main Extension, Application No.02-068

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 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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No.02-068 in any future correspondence.

Please embed the waterline in flowfill, in accordance with Cheyenne BOPU policy, where it crosses underneath the culverts in the vicinity of Station 25+61.

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/pjb 2-0957-ltr

Enclosure

cc: IPS, Cheyenne

James Voeller, AVI PC, 2035 Westland Road, Cheyenne WY 82001



JIM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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
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NOTIFICATION OF COVERAGE

April 26, 2002

Edwin L. Fisher, Chairman & CEO
Bank of Jackson Hole
P.O. Box 7000
Jackson, WY 83001

RE: Jackson- Bank of Jackson Hole, Permit Number: 02 - 069R, NE1/4 Section 32,T41N,
R116W, Teton County, PWS # 5600213

Dear Mr. Fisher:

The above application for coverage under General Permits to Construct the extension of a public water supply system consisting of 27 linear feet (LF) of 4-inch DI and the extension of a sewage collection system consisting of 33 LF of 8 - inch PVC sewer main and appurtenances 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 permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky, P.E.
Northwest District Engineer
Water Quality Division

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



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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) 777-7761 FAX 777-5973
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NOTIFICATION OF COVERAGE

March 20, 2002

South Cheyenne Water & Sewer District
Attn: Dana Hansen, Office Manager
215 East Allison Road
Cheyenne, Wyoming 82007

RE: C L Subdivision - Water & Sewer Extensions,

Application No. **02-070**

Dear Ms. Hansen:

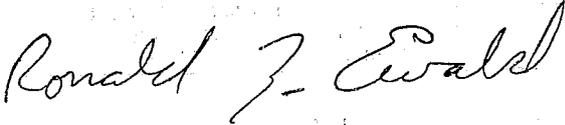
The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and Existing Sewage Collection Systems in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations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

The approval granted under this Notification Of Coverage and the General Permit shall expire on March 19, 2004. Please reference Application Number 02-070 in any future correspondence.

Ms. Hansen
March 20, 2002
Page 2

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/2-0974.ltr

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

cc: IPS, Cheyenne
Lawrence R. Gallagher, Summit Engineering, LLC, 5907 Townsend Place, Cheyenne,
Wyoming 82009



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

March 21, 2002

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

RE: Cheyenne BOPU North Park Water and Sewer Extensions, Application No.02-071, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permits 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 permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Please reference Application No.02-071 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/2-0973.ltr

IPS, Cheyenne

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-072
SPECIAL CONDITIONS

Former Halliburton Facility, Riverton, WY

This permit hereby authorizes the applicant:

Halliburton Energy Services Inc.
4100 Clinton Drive
Houston, TX 77020

to construct, install or modify soil borings according to the procedures and conditions of the application number 02-072. The facility is located in NE 1/4, Section 22, T1N, R4E in the county of Fremont, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by March 15, 2007.

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 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 or soil borings, 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.

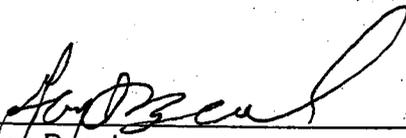
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT*
Soil Borings	Initial (Follow-up monitoring schedule TBD)	8020 8015	BTEX, TPH-DRO	

* 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.

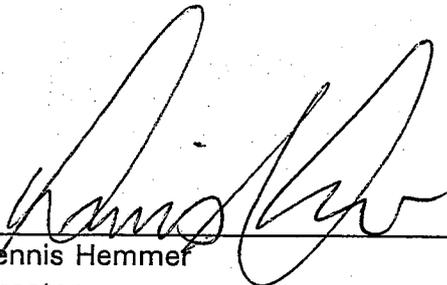
6. of 7 Within sixty (60) days of completion of the second 2002 semi-annual sampling event, the Applicant shall submit to WDEQ/WQD a Subsurface Investigation Report. The *Report* shall contain the information discussed in the Work Plan and follow the GPC Guideline for Subsurface Investigation reporting (GPC Guideline #3).

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 WQD. An adequate number of well(s)/piezometer(s) shall be installed to define the nature and extent of the contamination.

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

3-20-2002

Date of Issuance

MFT/bb/2-0919.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
(307)332-3144

PROJECT: SITE REMEDIATION/INVESTIGATION

APPLICANT: Dr. Shen Wang
Halliburton Energy Services
4100 Clinton Drive
Houston, TX 77020

**ENGINEER/
CONSULTANT:** Mr. Martin L. Cox
Entact, Inc.
4040 West Royal Lane, Suite 136
Irving, Texas 75063

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 02-072

EXISTING NEW AS BUILT

TITLE: Former Halliburton Energy Services Facility, Riverton, Wyoming Work Plan and Response to WQD Letter

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: March 5, 2002 (Date stamped 3/11/02)

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES [98-344]

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

REVIEWING OFFICIAL:

Mark Thiesse, PG

DATE OF THIS REVIEW: March 14, 2002

ACTION: Work Plan accepted, Permit #02-072 issued

COMMENTS: GROUNDWATER SECTION

1.0 SUMMARY OF EXISTING CONTAMINATION:

1.1 Facility. The facility is located 1.6 miles north of the intersection of Highway 789 and Highway 26, north of Riverton. The facility consists of a metal office building and shop area, a sump/wash rack located within the building, an oil/water separator north of the office building, and a concrete bermed area and diesel and gasoline pump island near the southern portion of the facility. Diesel and gasoline ASTs were previously located within the bermed area. The concrete and berm are no longer present. A bulk storage building, used by Halliburton for chemical drum storage, was located near the southwestern corner of the facility. A chemical terminal area is located near the northwest corner of the site. The majority of the site is overlain with gravel.

1.2 Geology. The report of investigation (ROI) states that the site is located on a gentle slope of a terrace of the Wind River. The on-site soils are unconsolidated, poorly sorted gravel and sand, underlain by "fat clay."

1.3 Groundwater. The water table was encountered at depths of seven to nine feet below surface. The general flow direction of the unconfined aquifer is towards the east. The hydraulic conductivity on the site was determined to be 3.29 E-4 cm/sec .

The ROI states that the Wind River Formation is the principal source of water in the Riverton area with discontinuous water bearing zones which may or may not be in hydraulic communication. Wells completed in this formation across the area range in depth from 50 to 1,200 feet below ground surface. Recharge to the Wind River Formation is due to local infiltration. Based on this information, the groundwater classification is Class I (domestic) based on use.

1.4 Previous Investigations. Petroleum hydrocarbon contamination was detected in soils at a level of 71 mg/kg TPH near the acid rack and 338 mg/kg TPH-GRO near the pump island. Groundwater sample analysis detected TPH-GRO levels of 24 mg/l and total BTEX of 16.82 mg/l near the pump island.

1.5 December 1997 Investigation. Petroleum hydrocarbon contamination was detected in soils in the AST area. Four borings exceeded the TPH-GRO regulatory level, ranging from 72.7 to 3520 mg/kg. Three borings exceeded the TPH-DRO regulatory level, ranging from 217 to 3050 mg/kg.

Groundwater contamination above standards was detected in three monitoring wells. MW-1 and MW-3 benzene concentrations were 0.22 and 0.02 mg/l, respectively. MW-4 exceeded standards with the following constituent concentrations: benzene-6.58 mg/l, ethyl benzene-1.60 mg/l, toluene-12.42 mg/l, TPH-GRO-88.4 mg/l, and TPH-DRO-19.8 mg/l.

In the AST area, soil impacts have been delineated, except to the south. Groundwater impacts have been delineated to the east (down gradient) and to the west, but not to the north or south.

1.6 June 1998 Investigation. This phase of the investigation filled in the data gaps identified in the December 1997 investigation. A soil boring south of the AST area (Boring EB-11) only had minor amounts of BTEX contamination. Another soil boring (EB-9) was performed east of the acid rack with low levels of inorganic contamination identified in the four to six (4-6') foot level. Groundwater wells were installed north and south of the area previously investigated around the AST. Both wells had hydrocarbon contamination below WDEQ standards for BTEX, TPH-DRO,

and TPH-GRO. A single groundwater monitoring well was installed east of the acid rack and had TPH-DRO very slightly above the WDEQ standard.

2.0 CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

2.1 Phase I and Phase II Site Assessments. The phase I site assessment was conducted in the area of the acid rack. Phase II entailed the investigation of the oil/water separator, the drain line connecting the sump/washrack to the separator, the discharge line from the separator, the area encompassing the bulk storage building, and the area encompassing the gasoline and diesel pump island and AST bermed area (September 24, 1997 GPC Review).

2.2 December 1997 Subsurface Investigation. The purpose of the December 1997 investigation was "to completely define the extent of groundwater impact in the former above ground storage tank fueling (AST) area and further investigate the extent of impacted soil and the possibility of impacted groundwater to the north of the chemical terminal."

A ROI was submitted. Seven soil borings were drilled, one in an area to confirm the existence of a grit pit, and six borings around the area of the AST. Five monitoring wells were installed in the AST area. One soil sample was collected from each of the borings and analyzed for SVOC, BTEX, TPH-DRO, TPH-GRO, and RCRA metals. Groundwater samples were collected from each monitoring well and analyzed for SVOC, BTEX, TPH-DRO, TPH-GRO, RCRA metals (dissolved, field filtered), and major cations and anions. Slug tests were conducted to evaluate the hydraulic conductivity. A potentiometric surface map was constructed, and isoconcentration maps were constructed for TPH-DRO (soil), TPH-GRO (soil), and benzene (groundwater). A water well search was conducted for the area within a one mile radius of the site. The ROI did not include recommendations, a corrective action plan (CAP), or a sampling and analysis plan (SAP).

The approved work plan proposed drilling five soil borings in the area north of the chemical terminal, which were to be completed as monitoring wells if field observations indicated the possibility for groundwater impact. The borings were not completed or discussed in the ROI. In a follow-up letter (5/15/98), Halliburton explained that a single boring was completed in the suspected center of mass and because no hydrocarbon contamination was found, no additional borings were drilled.

2.3 June 1998 Investigation. The following field work was performed during this phase of the investigation:

- a. One groundwater monitoring well (MW-6) was installed to the north of the AST area to define the northern extent of groundwater contamination.
- b. One groundwater monitoring well (MW-7) was installed east of the drive-on slab at the chemical terminal to investigate previously indicated impacts in this area.
- c. One soil boring (EB-10) was drilled south of the AST area to delineate soil impacts.
- d. One groundwater monitoring well (MW-8) was installed off-site to the south of the AST area to delineate the southern extent of groundwater impacts.
- e. In addition, all existing wells were sampled for laboratory analysis and water quality parameters (pH, DO, etc), and the wells were measured for groundwater elevations. Soil samples were taken from all of the new wells and borings for laboratory analysis.

Except for borings EB-11 (MW-8), and EB-9 (MW-7) the soil analytical results for BTEX, were non-detect (ND) in the new wells. Boring EB-11 had minor amounts of BTEX (0.003, 0.0062, 0.0283 and 0.034 mg/kg) in the soil. Boring EB-9 had barium (114.0 mg/kg), Chromium (8.65 mg/kg) and lead (3.85 mg/kg) in the soil.

The groundwater analyses identified BTEX, TPH-GRO and TPH-DRO at concentrations above WDEQ standards in four wells. The wells that exceeded the standards were: MW-1, benzene (1,366 $\mu\text{g/l}$), and TPH-DRO (15.2 mg/l); MW-3, benzene (600 $\mu\text{g/l}$); MW-4, BTEX (11,300/18,900/4,200/ and 11,900 $\mu\text{g/l}$), TPH-GRO (269 mg/l), TPH-DRO (38.3 mg/l) and Total TPH (307 mg/l); and MW-7 TPH-DRO (10.9 mg/l) and Total TPH (13.5 mg/l). Wells MW-1, MW-3, and MW-4 are associated with the AST area, well MW-7 is located east of the acid rack.

Based on the data presented to date, it appears that the extent of contamination has been sufficiently defined in order to begin remediation.

2.4 August 1998 Corrective Action Plan. Briefly, the remedial approach proposed in the August 1998 document consists of excavation of the most highly impacted soil, performing in situ air stripping in the water that accumulates in the excavation, placing an oxygen releasing compound (ORC) into the excavation and backfilling with clean soil, and injecting ORC into the perimeter of the dissolved phase plume in a series of borings. The ORC is intended to act as a continuing supply of oxygen to accelerate the bioremediation that is already taking place.

The groundwater at the site will be monitored monthly for a period of one year following the remedial work. All of the existing wells will be tested for bioremediation parameters, inorganic compounds, BTEX, TPH-DRO, and TPH-GRO.

After one year, monitoring for all parameters will be performed quarterly until WDEQ standards are reached.

2.5 Additional Submittal. In response to the October 15, 1998 GPC review, ENTRIX submitted additional information addressing the GPC's concerns. All of the GPC comments were satisfactorily addressed in the November 3, 1998 document, and there are no additional requests or recommendations.

2.6 November 1999 Remediation Status and Groundwater Monitoring Report. This report provided a summary of the corrective action described above, and presented the results of four quarters of groundwater sampling from June 1998 through April 1999.

2.6.1 Corrective Action Summary. The soil excavation, air stripping, and ORC placement proceeded as described above. Contaminated soil from the 4 to 9 foot deep range was placed in piles for land farming. Originally it was hoped that the soil could be disposed of in the Sand Draw landfill, however, TPH readings were too high (TPH-GRO = 1000 mg/kg +/-, and TPH-DRO = 2920 mg/kg +/-) for the landfill to take the soil. Halliburton will first treat the soil by land farming it onsite, and then take it to the landfill when it reaches acceptable levels (i.e., TPH-GRO = 300 mg/kg and TPH-DRO = 1000 mg/kg). The WDEQ/SHWD has permitted the land farm facility and construction of the land farm began in late November 1999.

Soil samples were taken from the sides and bottom of the excavation. The analyses show that the excavation did not reach the 100 mg/kg goal for soil removal. TPH-DRO levels as high as 1100 mg/kg remained in the walls of the excavation. The north end of the bottom of the excavation had soil readings of 107mg/kg TPH-GRO and 206 mg/kg TPH-DRO. The southern end of the bottom had readings below WQD standards. It is anticipated that natural attenuation will remediate the remaining soil contamination.

An in-situ air stripping process was used while the hole was open while waiting for the laboratory analysis results. Air flowed through the system for 68 hours. The sparge lines were buried in place for future use if necessary. Additional air sparge lines were placed during the backfilling at a depth of 3.5 feet below grade, also for future use. A total of 600 pounds of ORC was added to the groundwater in the excavation prior to backfilling. This material will slowly release oxygen to the groundwater to aid the bioremediation. Additional ORC was injected into 64 locations surrounding the excavation by a direct push rig. Monitoring wells MW-1 and MW-4 were destroyed during the excavation, and were replaced after backfilling. The wells were "... constructed identical to those that were removed."

2.6.2 Groundwater Monitoring Report. The report also presented the data from monitoring wells that were measured and sampled in October 1998, January 1999, and April 1999. The wells were sampled for BTEX, TPH-DRO, TPH-GRO, and for NA parameters. A complete evaluation of the data will be provided in the NA report due in July 2000. Briefly, the hydrocarbon contamination remained relatively constant, with readings for BTEX, TPH-DRO, and TPH-GRO above WQD standards in wells MW-1, MW-3 and MW-4, all of which are located close to the original fueling station and above ground storage tank. Two new borings were performed south of the property line to confirm that contamination was not leaving the site. The soil in new boring EB-12 was non-detect for BTEX and TPH-DRO and TPH-GRO. Groundwater samples were taken from borings EB-12 and 13 and were non-detect for BTEX.

2.7 August 2000 Natural Attenuation Report. This submittal summarized the results of the quarterly groundwater sampling and other site activities for 1999 and 2000. The soil that was excavated and treated on site was removed during the week of August 10, 2000, and placed in the Sand Draw Landfill. The groundwater sampling did not show evidence of the oxygen injection. Most wells continued to have the same levels of hydrocarbon contamination as has previously been described. Surprisingly, LNAPL began to be observed in well MW-4 in December 1999. Well MW-4 was re-installed in the area that was excavated. Halliburton installed a passive LNAPL recovery skimmer in August 2000, and operated it until June 2001 when it was removed because no more LNAPL was observed. It is not known how much LNAPL was recovered. Quarterly sampling for hydrocarbon contamination and natural attenuation parameters was to continue until the next annual report.

2.8 2001 Final Annual Groundwater Monitoring Report. This report, submitted by Tetra Tech EM Inc, summarized the activities at the site and proposed some additional investigations to better define the hydrocarbon soil contamination.

2.8.1 Groundwater Monitoring. The Report provided the results of sampling done in November 2000, and March and June of 2001 for hydrocarbons and for natural attenuation parameters. Wells MW-1, 3, and 4 continued to be the only ones with hydrocarbon readings above WQD standards. No trend was observed in these readings. The natural attenuation parameters also did not indicate any noticeable trend.

2.8.2 Conclusions/Recommendations. The Report concluded that several wells contained hydrocarbon contamination over WQD standards during this last year. No trends were observed in the contamination or natural attenuation parameters. The groundwater elevation data suggest that there is a groundwater "mound" associated with the excavation area. The Report also concludes that the air sparging and ORC injection activities have not provided any benefit to the remediation at the site.

The Report recommends that an investigation be performed to more completely define the extent and degree of soil contamination at the site. This investigation would be done by direct push borings. Following this investigation, a report will be submitted proposing future activities for the site. Groundwater monitoring will continue as planned on a semi-annual schedule. If LNAPL reappears in MW-4, it will be removed by the most effective means practicable.

2.9 March 2002 Work Plan. This report provides the plan for performing a limited soil investigation intended to more completely define the extent of the soil contamination at the site. By defining the soil contamination, Halliburton is considering an additional soil excavation to augment the site remediation. The soil investigation will be performed using direct push technology to obtain soil samples from four different areas at the site. The sampling and analysis will be performed using proper approved methods. The soil will be analyzed for BTEX and for TPH-DRO constituents. The results of the soil investigation will be reported along with the two semi-annual groundwater monitoring events later this year.

The Work Plan also included all the information we requested during our last GPC Review. These comments were satisfactorily addressed.

3.0 REQUESTS, REQUIREMENTS, AND RECOMMENDATIONS

3.1 2002 Work Plan. The Work plan for the soil investigation is approved as submitted. Permit to Construct #02-072 has been authorized. We anticipate obtaining the results of this investigation in early Fall, 2002.

3.2 Acid Rack. The March 2002 Work Plan included a summary of the activities at the Acid Rack. Please continue to sample well MW-7 as the report proposes to track the hydrocarbon contamination at this site. If the TPH-DRO analysis continues to indicate the presence of hydrocarbons, an additional investigation may be necessary in this area.

3.3 Voluntary Remediation Program (VRP). In 2000, legislation was passed that created the Voluntary Remediation Program (VRP) for addressing contaminated sites such as this one. Details for implementing this program are being developed. Sites that are currently active are being offered a choice to join the VRP or to continue on with the current process. This choice should be made when you submit the results of this investigation. The WDEQ Web site (<http://deg.state.wy.us/>) contains much information concerning the VRP. Please contact me at 307/332-3144 or at the above address, after you have had a chance to review the VRP information, to discuss the program and the options available to you.

END OF REVIEW

MFT/bb/2-0920.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-073
SPECIAL CONDITIONS

State Line Oasis Bar & Grill - Well & Water System
PWS # 5601164C

This permit hereby authorizes the applicant:

Harold Jackson
East Hwy 26
Torrington, Wyoming 82240

to construct, install, and modify a commercial building water system and new supply well according to the procedures and conditions of the application number 02-073. The facility is located in the SE 1/4 of Section 34, T24N, R60W in the county of Goshen, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by August 31, 2002.

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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineering Supervisor, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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.

Permit to Construct 02-073

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:

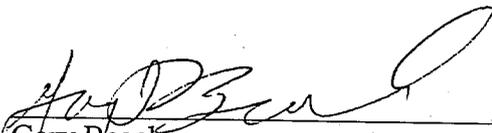
- 1 of 7. The applicant will provide immediate oral and/or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 7. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast 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 7. Old Well Abandonment - The old well shall be plugged and abandoned in compliance with the applicable standards of Chapter 11, Part G, Section 70 of the Water Quality Rules and Regulations.
- 4 of 7. Initial Water Quality Monitoring - The new well, after being properly developed and purged, shall be sampled for the following parameters:
 - a. Three(3) consecutive(3 successive days) special purpose bacteriological samples which comply with the MCLs for total coliform as stated in 40 C.F.R. ss 141.63.
 - b. Nitrates, and
 - c. Nitrites.

The water test results shall be reported to both the Water Quality Division and the EPA Region VIII Technical Enforcement Program for review and analysis.

- 5 of 7. Long Term On-Going Sampling Requirements - All long term on-going sampling requirements subsequent to the initial sampling shall be determined solely by the EPA.

- 6 of 7. Final Inspection Required Before Operation Commences - The new water supply well and water system changes shall be inspected by both the DEQ Water Quality Division and the project engineer before the facility is operated. Subsequent to this joint inspection, the project engineer shall complete and submit a stamped and signed CERTIFICATION OF COMPLETION to the WQD. To schedule this inspection contact either Ron Ewald at (307) 777-6183, or Lou Harmon at (307) 777-7088 at least 24 to 48 hours before the inspection is needed.
- 7 of 7. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

4-23-2002

Date of Issuance

RLE/mad/2-1298-ltr

cc: Mel Eaton, Goshen County Small Wastewater Program Administrator
Bryan Grapes, Dept. of Ag., CHS, 2526 East B St., Torrington, Wyoming 82240

STATEMENT OF BASIS

I. General information.

A. Permit Number: 02-073

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

A. Chapter 11. Yes

B. Chapter 12. Yes

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

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

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter 11, or 12.

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.

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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).

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

NOT Applicable

VI. Deleted

VII. 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Ronald L. Ewald, Senior Analyst, and completed on April 22, 2002. 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."

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: State Line Oasis Bar - Replacement Septic System & New Well

ENGINEER: Russel Colby
Baker & Associates
120 East 16th Street
Scottsbluff, Nebraska 69361
Ph: (308) 632-3123
FAX: (308) 632-7253

APPLICANT: Harold Jackson
East Hwy 26
Torrington, Wyoming 82240
Ph: (307) 532-4990

WATER QUALITY DIVISION REFERENCE NUMBER: 02-073

REVIEWING ENGINEER: Ronald L. Ewald *RLE*
Phone: (307) 777-6183

DATE OF REVIEW: April 11, 2002

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

COMMENTS, INADEQUACIES, AND QUESTIONS:

On-site Wastewater Systems:

1. Existing Bathroom Septic System - Is this system actually working correctly? Why was there 15 to 18 inches of standing water on top of the septic tank on January 8th? There was no dampness around the hole, and by local accounts, it had been very dry (no rain or snow) for several weeks. Therefore, this water probably backed up from the system because the leachfield doesn't work. The existing leachfield may be damaged in some way or compacted by the 18 wheelers that used to drive over it. Or, the soil has just become

clogged and plugged up in some way. Parts of this leachfield need to be daylighted so that the design, construction, and size of the system can be checked, and the soils observed for signs of clogging or excessive biomats. This task needs to be done by an engineer.

This leachfield layout as shown will not have equal effluent distribution to each trench. Most of the effluent will flow into the first trench as there are no tees, flow splitters, or distribution boxes employed. Also, what is the distance (in feet) of undisturbed soil between the trench sidewalls?

And lastly, if this existing septic system is to continue to be used, the septic tank construction (concrete, steel, plastic, etc.), capacity (gallons), dimensions including the water depth and scum space, and whether it is a one or two compartment tank, will have to be determined.

2. North Side (kitchen) Leachfield - Is this a totally new septic tank and leachfield? Or, is there an existing leachfield in this location also which was a straight shot from the building to the leachfield without a septic tank. From a conversation with the owner, Mr. Harold Jackson, it seems that this just may be the case. If so, these soils will also have to be examined to determine if they are suitable for a new leachfield.

This leachfield layout as shown also will not have equal distribution of the effluent to each of the trenches. The use of a 4-way cross connector in the location shown will result in most of the effluent flowing into the center trench.

What is the proposed distance of undisturbed soil between these trench sidewalls?

3. Interior basement Sewer Piping Questions:

- On the north wall of the basement, the sewer pipe is Y-ed. One of the branches appears to go through the wall out to the leachfield area about 3 feet below grade. The other branch goes straight out the basement floor. What was and/or is the purpose of this pipe and where and what does it go to?
- Is it planned to redo the basement wastewater plumbing such that the small surface discharge line will be completely eliminated? Please describe any planned changes.

4. Design Flows - The design flows submitted appear to leave out some of the loading sources. On average 60 patrons per day, 20 of whom have a meal.

- 40 bar patrons at 3 gallons each equals: 120 gal/day
 - 20 meals(kitchen & toilet waste + additional for bar) at 15gal: 300 gpd
 - ?? # of employees (3 or 4 or how many) at 30 gallons each: 90 to 120 ?
- Total average daily design wastewater flow = 510 to 540 gpd ??

A determination needs to be made; and, if two separate septic systems are to be used, need to ascertain the split of the design load to each system. If two systems aren't feasible after daylighting and examining the conditions, then one new system to handle all of the load must be designed.

Water System & NEW Water Well:

5. Backflow Preventer - It is stated that a backflow preventer will be installed inside the building before the water line from the well is connected to the building water piping. What type of device is this planned to be? A double check valve, a reduced pressure principle backflow preventer, a vacuum breaker, or some other type of device?
 6. Wellhead Surface Water Intrusion Protection - Because the new well is to be located in an area known to be susceptible to surface runoff and ponding, a concrete apron at least 6 feet in diameter that slopes away from the casing at a slope of at least 1 inch per foot should be installed. The well casing should terminate at least 12 inches above the center of the apron, and/or at least 18 inches above final grade, and/or at least 3 feet above the 100 year flood level, whichever is greater. {Chapter 12, Section 9(b)(iii)(C)(V)(1.) through (5.), found on page 25}.
- Additionally, the wellhead should be protected from damage by traffic by some sort of physical barrier.
7. Pressure Tank & Water Storage - What is the size and capacity of the pressure tank?
 8. Provisions for Chlorination - Provisions for chlorination and chlorine residual testing must be installed according to the requirements of Chapter 12, Section 10(k)(ii) & (iii), found on page 39. As long as the EPA required water tests do not indicate any problems the chlorination equipment does not have to be used. However, it does need to be in place and ready for use if and when the routine water tests do indicate a problem.
 9. Well to Building Water Line - What type of pipe will this line be? And, how deep will it be?

RLE/bb/2-1204.ltr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

August 27, 2002

F.E. Warren Air Force Base
Attn. Glen Verplancke, Environmental Engineer
300 Vesle Drive
F.E. Warren AFB, Wyoming 82005

RE: Base Shoppette Water & Sewer Modifications & Additions, Application No. **02-074**

Dear Mr. Verplancke:

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

The approval granted under this Notification Of Coverage and the General Permit shall expire on August 31, 2005. Please reference Application Number **02-074** 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

P:\E\bb\2-2759.ltr

Enclosures: Certificate of Completion form

cc: IPS, Cheyenne

Duncan A. Cline, Banner & Assoc., 2020 E. Grand Ave., Suite 530, Laramie, WY 82070

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: FE Warren Air Force Base - Shoppette Water & Sewer

ENGINEER: Duncan A. Cline
Banner and Associates
2020 E. Grand Ave., Suite 530
Laramie, Wyoming 82070
Ph: (307) 745-7366

APPLICANT: F. E. Warren Air Force Base
Attn. Glen Verplancke, Environmental Engineer
300 Vesle Drive
F.E. Warren AFB, Wyoming 82005

WATER QUALITY DIVISION REFERENCE NUMBER: 02-074

REVIEWING ENGINEER: Ronald L. Ewald ^{RLE}
Phone: (307) 777-6183

DATE OF REVIEW: May 6, 2002

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

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Engineering Design Report (EDR) Required - There was no EDR included with the submittal. The purpose of the report is to describe and provide technical justification for all aspects of the proposed construction and modifications. The report should address existing conditions (if any), known or suspected problems, the proposed actions, and the reasoning used to arrive at those actions. Some of the types of information that need to be in the EDR follow.

2. Design Flows - What are the design flows (water and wastewater) for this facility. Are there commercial cooking facilities included? And, if so, have you considered a grease trap?
3. Site Map - The site map showing the locations of the two test hydrants does not indicate the location of the shoppette building. The site map needs to show the relative location of both the hydrants and the shoppette building. Also, it is hard to tell how the water mains run and are interconnected on this map. And lastly, a distance scale should be included on the map.
4. Shut Off Valves - Where is the nearest shut off valve to the point where the new water main is connected to the existing water main? Please show on plan view map.
5. Backflow protection Devices - What type of backflow prevention devices (vacuum breaker, double check valve, reduced pressure principle backflow preventer, air break, or other) are planned for each of the three locations shown on the site layout? Also, what is the purpose of the water service line in the lower right hand corner of the plan? (the 1/2" Type K Copper with backflow preventer line).
6. Sewer Line - Is there a manhole at the point where the 6" line connects to the existing sanitary sewer main? What is the slope of the new 6" sewer line?
7. Profile Drawing Required - Both plan and profile drawings of the water and sewer lines are required. It should also be indicated on the profile views where other utility lines (such as water or sewer, gas, electric, etc.) cross. The depths of the crossing utilities should also be indicated on these drawings.
8. Water Pressure Calculations - Since there is a 4" fire service at the far back side of the building, an estimate or calculation of the residual pressure at this location, with the fire service line flowing at maximum, needs to be done. What is the design flow for this 4" fire service line? Is this for a sprinkler system only, or is there also a fire hose hookup port at this location?



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

4-19-02
Barb

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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
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NOTIFICATION OF COVERAGE

April 17, 2002

Phillip Juillard, Mayor
Town of Basin
P.O. Box 599
Basin, WY 82410

RE: Basin - G Street & North 6 th Water Main Replacements , Permit Number: 02-075,
NE 1/4NW1/4 & NW1/4NE1/4 Section 21, T51N, R93W (O.G.S),
Big Horn County, PWS.# 5600004

Dear Honorable Mayor:

The above application for coverage under General Permit to Construct the replacement of a public water supply system consisting of 1551 linear feet of of 8 - inch PVC water main and 740 linear feet of 6-inch PVC water main 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 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, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky, P.E.
Northwest District Engineer
Water Quality Division

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

PERMIT TO CONSTRUCT

X New
— Renewal
— Modified

PERMIT NO. 02-076
SPECIAL CONDITIONS

Oakcrest Booster Station Replacement Project
PWS NO. 5600009

This permit hereby authorizes the applicant:

City of Casper
Public Works Department
200 N. David
Casper, WY 82601

to construct, modify, or install Oakcrest Booster Station (a new 8.0 MGD pump station), approximately 1,700 lineal feet of 30", 24", and 20" diameter PVC water transmission pipeline, inlet vault to the City reservoir, and the necessary SCADA and electrical controls for operation of the new booster station according to the procedures and conditions of the application numbers 02-076. The facility is located in the Section 16, NE 1/4, T33N R79W in the county of Natrona, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2003.

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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Herschler Bldg. 4W, 122 W. 25th St., Cheyenne, WY 82002; telephone (307) 777-6267; FAX (307) 777-5973.

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 3 The applicant will provide immediate oral and/or written notice to the Northeast District Office in accordance with the provisions of Section 11, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District 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".

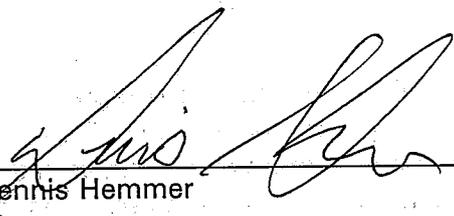
AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division

5-10-02

Date of Issuance



Dennis Hemmer
Director
Department of Environmental Quality

STATEMENT OF BASIS

General information.

A. Permit Number: 02-076

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

A. Chapter 11 No

B. Chapter 12 Yes

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

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

Yes

B. Permit 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.

N/A

B. Briefly state the basis for the deviation.

N/A

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).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter III¹. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

VI. If Section 17 of Chapter III is applicable, indicate the basis of determining 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:

N/A

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

N/A

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

N/A

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:

N/A

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:

N/A

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.

N/A

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

- 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.

N/A

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 Phillip Stump and Dennis Lamb, and completed on May 6, 2002. 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."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
(307) 777-7781

PROJECT: City of Casper - Oakcrest Booster Station Replacement Project

ENGINEER: Tom Brauer
Civil Engineering Professionals, Inc. (CEPI)
355 N. Lincoln
Casper, WY 82601

OWNER: Hal H. Hutchinson
Andrew Beamer
City of Casper
Public Works Department
200 N. David
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 02-076

REVIEWERS: Phillip Stump *P.S.*
Dennis Lamb

DATE OF REVIEW: April 29, 2002

ACTION: Not Authorized for Construction. In accordance with Section 9 (a)(ii), Chapter 3, Wyoming Water Quality Rules and Regulations (WWQR), the application is denied because it is incomplete or does not meet applicable minimum design and construction standards. If the applicant fails to provide the requested information within six months, the completed application shall be returned as provided by Section 9(a)(ii) of Chapter 3. If an application is returned, the applicant may resubmit the application with a response to all of the deficiencies.

Please address the questions and/or comments outlined below and submit three copies of the requested information in order that the application process may be completed in accordance with Section 9. Please indicate the WQD permit number in your response.

QUESTIONS AND COMMENTS:

General Comments

- 1) The applicant may need to notify the WDEQ/WQD Stormwater Permitting Program, Ms. Barb Sahl 307-777-7570 regarding potential runoff from construction. If the construction activities will disturb five or more surface acres, a General NPDES Permit to discharge stormwater associated with construction activities is required. The applicant/contractor needs to complete 'The Notice of the Intent for Construction Activities (Appendix C)' and submit it to Ms. Barb Sahl at least 30 days prior to construction.
- 2) If the construction activity requires significant dewatering activities, an additional NPDES Permit may be required. Please contact Ms. Leah Krafft at 307-777-7093 if dewatering activities are anticipated during construction.
- 3) If the excavation or dewatering activities exposes contaminated groundwater or soils, the owner or contractor shall contact DEQ/WQD, Dennis Lamb, 307-473-3452 immediately. The contractor may be required to follow sampling requirements and appropriate methods of disposal.

Booster Station Requirements

- 4) Will the water washdown system illustrated in Sheet 29 of 38 be provided with appropriate backflow prevention?
- 5) According to WWQRR, Chapter 12, Section 12 (o)(i)p; does the booster station provide for a low pressure cutoff switch if the suction line pressure reaches 20 psi.
- 6) The plans and specifications identify louvers for ventilation of the booster station. In reference to WWQRR, Chapter 12, Section 12 (h); please indicate what air changes per hour are provided by the ventilation system.
- 7) In a meeting with Andrew Beamer and Tom Brauer on March 27, 2001; Mr. Brauer indicated that the new booster station would not have backup power available through an onsite generator. WWQRR, Chapter 12, Section 8 (d)(iii) requires that the combined finished water storage volume and pumping capacity supplied by alternative power shall be at least adequate to provide the maximum daily demand. Does the City of Casper have a mobile engine generator available to provide for a backup power source?

SRF Requirements

- 8) In the Equal Employment Opportunity and Affirmative Action Requirements on Federally Assisted Construction Contracts section, the address on the example notification letter for the prime contractor has changed. The U.S. Department of Labor Office has moved so notification of construction subcontracts in excess of \$10,000 shall be sent to the new address:

USDOL/ESA/OFCCP
Denver District Office
1999 Broadway - Suite 1177
Denver, CO 80201-6550

- 9) The loan recipient and project bidders will need to perform 'Good Faith Efforts.' The bidding documents contain a Memorandum dated June 28, 2001 to assist prime contractor bidders with MBE/WBE and EEO/AA requirements. If the bidding prime contractor plans to subcontract, the prime needs to perform 'Good Faith Efforts' by soliciting subcontractors. Prime contractors are encouraged to use the 'Bidder Good Faith Effort Documentation' form within in the bidding documents to record phone calls to potential subcontractors that qualify as a minority-owned or women-owned businesses. If DBE subcontractors are to be used, the selected prime contractor will be required to submit the DBE Notification of Intent form to Mr. Mike Hackett with Wyoming Water Development Commission.

General Wyoming DEQ Public Water System Information

- 10) WDEQ is enclosing the draft WWQRR Chapter 12 changes dealing with cross-connections with public water supply systems. Also enclosed are the State of Wyoming Guidelines for a Cross-Connection Control Program and a model ordinance.

Please note that these proposed changes are draft. These proposed rules are in the beginning stages of the Water Quality rules and regulations promulgation process. A public comment period will occur prior to the next Water and Wastewater Advisory Board meeting. WDEQ encourages the permit applicant to review the potential upcoming rules and provide comments or concerns during upcoming public comment periods. Upcoming Water and Wastewater Advisory Board meeting are noticed on the web at: <http://deq.state.wy.us/wqd/wqevent.htm>

PBS/bb/2-1439.ltr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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) 777-7761 FAX 777-5973
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NOTIFICATION OF COVERAGE

April 1, 2002

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

RE: Sunrise Estates - First Filing Water and Sewer Extensions, Application No.02-077, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permits 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 permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by April 1, 2004. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Please reference Application No.02-077 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/2-1079.ltr

cc: IPS, Cheyenne
Scott Larson, BenchMark of Cheyenne, P.C.
1920 Thomes, Suite 650
Cheyenne WY 82001



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

May 13, 2002

O'Dell Trust
Earl Douglas O'Dell, Trustee
263 North 3rd St.
Laramie, Wyoming 82070

RE: Gable Ridge Estates - Water & Sewer Extensions, Application No. **02-078**

For Mr. O'Dell:

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

The approval granted under this Notification Of Coverage and the General Permit shall expire on May 31, 2004. Please reference Application Number **02-078** 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/mad/2-1561-ltr

cc: IPS, Cheyenne

James W. Johnson, Johnson Engineering Assoc., 110 Superior Court, Laramie, WY 82072

To: TIPS
02-079



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR

Department of Environmental Quality

3030 Energy Lane • Suite 200 • Casper, Wyoming 82604

SOLID & HAZARDOUS WASTE DIVISION
(307) 473-3450

AIR QUALITY DIVISION
(307) 473-3455

WATER QUALITY DIVISION
(307) 473-3465

ABANDONED MINES
(307) 473-3460

NOTIFICATION OF COVERAGE

April 2, 2002

City of Sundance
James A. Miller, Mayor
Box 542
Sundance WY 82729

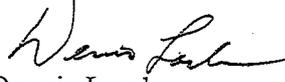
RE: Sundance Equipment Building Small Wastewater Facility, Permit # 02-079

Dear Mr. Miller:

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



JIM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

April 11, 2002

James L. Milburn, Mayor
City of Powell
P.O. Box 1008
Powell, WY 82435

RE: Powell - Wyoming Avenue Water Line, Permit Number: 02-080R, S1/2 Section 15 O.S.,
Lot 63, T55N, R99W, Park County, PWS # 5600042

Dear Honorable Mayor Milburn:

The above application for coverage under General Permits to Construct the relocation of a public water supply main consisting of 752 linear feet 12 - inch ductile iron 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, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin, P.E.
Southwest District Engineer
Water Quality Division

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-081R
SPECIAL CONDITIONS

Jim Bridger Power Plant - FGD Pond 2 Expansion

This permit hereby authorizes the applicant:

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

to construct, install and/or modify the Expansion of FGD Pond 2, with seepage pump back system and related monitoring wells according to the procedures and conditions of the application number 02-081R. 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 July 15, 2007.

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 9. 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 9. Within sixty days of completion of the pond expansion construction and the pump back system installation, the applicant will submit to the State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - i. Date that construction of the facility was completed; and
 - ii. Date that the facility was placed in operation; and
 - iii. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - iv. 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.
3. of 9. The dikes and embankments of the pond shall be consistently monitored for damage or erosion caused by wave action. If wave action should begin damaging the pond dikes or embankments at any time during the life of the facility, the damage shall be repaired immediately and riprap, paving, or other erosion resistant material shall be placed on the repaired areas of the dikes or embankments in a manner that will protect them from further damage from wave action.
4. of 9. PacifiCorp is required to uphold all the terms, conditions, and agreements included in the Permit to Construct Application materials. This specifically includes the agreement with the Town of Superior located in Appendix H of the revised Permit Application.
5. of 9. 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.

- 6. of 9. 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.
- 7. of 9. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).

8. of 9. ***Environmental Monitoring Program for Groundwater of the State:***

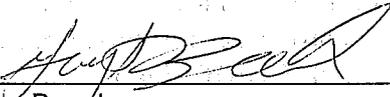
- i. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and performed in accordance with WDEQ or EPA approved Standard Procedures or Quality Assurance/Quality Control (QA/QC) Plan.
- ii. The permittee shall maintain records of all monitoring 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*
Monitoring wells listed in Appendix A, Section 3, Table V (page 5), of the Permit Application	As described in Appendix A, Section 3, of the Permit Application	Various	As described in Appendix A, Section 3, Table VI (page 6) of the Permit Application	

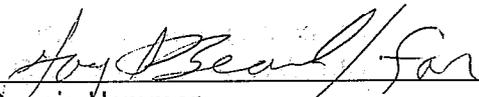
* Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

9. of 9. Following the completion of construction and sampling of the groundwater monitoring wells, PacifiCorp is required to submit an annual report providing the information described in the Sampling and Analysis Plan and the Corrective Measures Plan. Currently required groundwater monitoring and reporting shall be performed as scheduled until construction is completed.

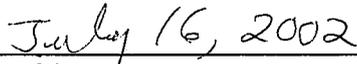
AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality



Date of Issuance

MFT/DHC/bb/2-2285.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
(307)332-3144

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

SITE STATUS: SITE CHARACTERIZATION AND REMEDIATION

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

ENGINEER/CONSULTANT:
David Erickson
Water and Environmental Technologies, LLC
305 West Mercury
Butte, MT 59701

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 02-081R

EXISTING NEW AS BUILT

TITLE: Jim Bridger Power Plant, FGD Pond 2 Expansion Permit Application, Revision 1

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: Letter dated June 12, 2002 (date stamped 6/13/2002)

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES [PERMIT #97-336]

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

REVIEWING OFFICIALS:

Mark Thiesse P.G.

Doyle Conklin P.E.

DATE OF THIS REVIEW: July 10, 2002

ACTION: Permit #02-081R 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 6000 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. More information is provided later concerning the pond expansion.

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 ft²/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 ft²/day. In areas fractured through faulting, and in the weathered Lewis, the transmissivities increase to around 400 ft²/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 ft²/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. Semiannual 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 AL-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 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 Groundwater Models

2.2.1 1984 Model. According to the March 1997 groundwater assessment report, the 1987 model (discussed below) predicts that continued operation of the FGD and Evaporation Ponds is not expected to significantly increase the affected groundwater in 2026 *beyond the area predicted in the 1984 assessment*. However, according to WDEQ files located in Lander, the 1984 model only addressed the Almond Sandstone aquifer, and was specific to the proposed B Scrubber Pond, which was never constructed. The WDEQ statement of

basis (SOB) for the permit to construct the B Scrubber Pond (Permit No. 85-559) stated, "To comply with Chapter VIII, Section 4.d.(6) of WQD Rules and Regulations, PP&L has used the model results to define a maximum areal extent of adverse groundwater impacts from the proposed pond. PP&L will limit impacts to the Almond Sandstone to an area no greater than that shown in the Predicted Plume Distributions for the Proposed B Pond Figure." From the files, it is unclear if the 1984 model addressed the existing ponds and the Lewis formation.

2.2.2 1987 Model. The assessment of the effects on groundwater quality resulting from the operation of the FGD and evaporation ponds is based on numerical modeling of groundwater and inorganic constituent transport, and assumes pond operations through the year 2026. Groundwater data collected since 1972, prior to any pond construction, as well as pond seepage rates, were utilized for the modeling using ABEL. ABEL is a proprietary computer code developed by Hydro Geo Chem. The model predicts areas of elevated TDS concentrations in both the Lewis and the Almond Formations. Groundwater monitoring data, since the creation of this model, have shown the model not to represent the observed groundwater conditions at the site. Because the extent of the groundwater plume in 1997 exceeded the models predictions for the year 2026, a new groundwater model was created to try to represent the actual hydrogeologic conditions at the site.

2.2.3 2000 Model. W&ET created a new model using MODFLOW and a contaminant transport program, MT3DMS. The model was calibrated by comparing the transient flow model to existing groundwater elevations. A +/- 10 foot groundwater elevation was used as the criteria for calibration. The model was calibrated using monitoring data from 1981 through 1999. The model was then allowed to run out to 2020. More details of the model can be found in the October 27, 2000 report.

The contaminant transport portion of the model was run to determine what the effects of the high TDS pond water will be on the surrounding groundwater. The transport model was advective and dispersive, but no retardation or chemical reactions were included. Briefly, the results of the modeling indicate that the groundwater elevations rose as the ponds became operational, and they reached equilibrium between 1982 and 1999 depending on distance away from the ponds. The TDS plume appears to equilibrate between 1993 to 1999 and does not show any significant migration through the year 2020. Many of the monitoring wells showed an initial increase in TDS concentrations due to wetting of the vadose zone as mentioned above, followed by a decrease caused from less contaminated pond water migrating away from the ponds. Dilution from native groundwater is the apparent cause of the plume's steady state.

2.2.4 May 2001 Model and Proposal to Expand FGD Pond #2. In the May 2001 groundwater model, PacifiCorp proposed expanding FGD Pond #1 by a depth of 10 feet and FGD Pond #2 by 26 feet, because the existing ponds are reaching capacity. This would extend the pond capacity for another 40 years. The FGD Pond 1 expansion would be maintained in roughly the same area as currently exists. The FGD Pond #2 expansion would primarily increase to the west of the existing footprint, continuing to be completely underlain by the Lewis Shale.

Groundwater modeling was performed to determine the impacts to groundwater caused by expanding the ponds. It was determined that a pump back system is required to contain the dissolved phase groundwater contamination created by seepage from the ponds. The details

of the system will be provided with the permit application for the Pond expansion in a Corrective Measures Plan. The system will be built using a phased approach. The first phase will consist of two or three wells installed following the construction of the new dike(s). As the ponds fill, additional wells will be added to the system as needed to contain the contaminated groundwater.

The groundwater model was an expansion of the model completed in 2000, described above. Several different scenarios were evaluated, including constructing a clay liner for the new area of the FGD Pond #2. It was shown that a liner under the expanded area would not change the amount of seepage, because the area under the existing pond would seep at an increased rate. In order to validate the model, additional monitoring, aquifer testing, and further evaluation of the model is necessary.

2.3 March 2002 FGD Pond Expansion Permit Application. The permit application consisted of four volumes with a set of drawings. Volume 1 provided the background information on the facility and the purpose of the project. Appendix A of the Application is the Sampling and Analysis plan (SAP), including analytical results from previous sampling, well logs and quality control/quality assurance information. Appendix B is two volumes of engineering information prepared by Maxim Engineering for the construction of the dikes and roads. Appendix C is the Corrective Measures Plan which discusses the pumpback system and other remediation plans. Appendix D is the closure plan for FGD Pond #1. The other appendices, (E-I) provide supporting information for the above sections of the Application. Comments were provided to PacifiCorp in our May 2002 review. Our comments were addressed in Revision 1 which is described below.

A main change in the Proposal from the May 2001 Proposal is that only FGD Pond #2 will be expanded. It was found in the groundwater modeling that the expansion of Pond #1 would contribute much more contamination to the Almond formation and that it would be better to only expand Pond #2. By increasing Pond #2 by 28 feet deep, it would provide almost the same amount of time extension as the previous plan. The pump back system and other elements of the prior plan were carried over.

2.4 June 2002 Revision 1. This submittal consisted of page changes to the original submittal to address our comments provided to PacifiCorp in May 2002. Several issues were clarified and some additional information was provided to address our concerns. The more significant comments responses are summarized as follows:

We asked that PacifiCorp provide a better explanation and evaluation of the various alternatives that were considered in addition to expanding the pond, including the potential of lining the existing FGD Pond 2. Additional data was provided in the Revision that satisfactorily addressed our concerns.

A couple of comments addressed the lack of data concerning the pumpback system and how it will address current and modeled impacts from the FGD ponds. Some additional groundwater modeling and additional data was provided to address these comments. Additionally, we had asked for a discussion of potential surface water impacts and how this will be monitored. PacifiCorp added language in the Application material that documented the current surface water impacts, and added a surface water sampling plan to monitor any effects from the pond expansion.

Several of our comments addressed concerns in the construction details and design plans. PacifiCorp provided updated plans and additional information to satisfactorily address these concerns. A major concern is the lack of riprap to prevent erosion from wave action. PacifiCorp performed modeling and provided additional data to support their position that the pond will be shallow enough to prevent any significant wave action. A waiver for the riprap requirement is included in the permit.

The groundwater model that was provided in the original permit application, was reworked to include the most recent well data that was collected to support the pump back system. This updated model addressed several of our concerns in the Corrective Measures appendix. It now is shown that the pump back system will capture all of the seepage anticipated to migrate away from the expanded pond. The system is also designed to allow for modifications and expansion if needed to control the groundwater plume.

3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

3.1 The revised Permit Application (02-081R) included new information that addressed our concerns, therefore, the WDEQ authorizes FGD Pond 2 expansion as proposed in Permit Application material. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents. PacifiCorp will be required to perform all work, maintenance, monitoring, and remediation as outlined in the Permit Application materials. This includes the protection and replacement of the Town of Superior's water supply if necessary.

3.2 Chapter 11, Section 30 (d) (e) of the WQD Rules and Regulations requires that interior embankments shall be protected from wave action with riprap, paving or other erosion resistant material, unless the pond is exempted based on one of four listed requirements. The constructed embankments of this pond will not meet any of those listed requirements. A theoretical analysis of the anticipated wave action on the pond, based on the depth of fluids on top of the deposited solids during the life of the pond, indicates that the wave height and runup will not be sufficient to cause damage to the embankments. This analysis procedure was based upon wave action studies conducted by the Department of the Army. Please note that there is one specific condition in the attached permit concerning PacifiCorp's proposal to not include riprap on the interior slopes of the pond. The pond must be constantly monitored for damage or erosion caused by wave action, and immediate repair and placement of protection is required.

END OF REVIEW

PERMIT TO CONSTRUCT

New
 Renewal

PERMIT NO. 02-082
SPECIAL CONDITIONS

Town of Medicine Bow Water Treatment Plant
PWS: 5600034

This permit hereby authorizes the applicant:

Town of Medicine Bow
PO Box 156
Medicine Bow, Wyoming 82329-2225

to construct, install, or modify a water treatment plant consisting of aeration, high service pumping, cation exchange and anion exchange according to the procedures and conditions of the application number 02-082. The facility is located in NE 1/4 Section 8 T22N R78W in the county of Carbon, 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 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 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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

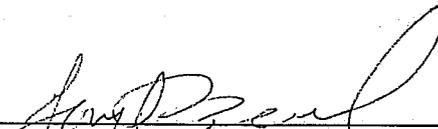
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

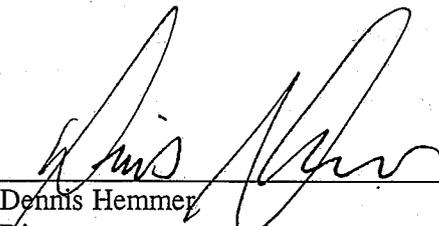
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 5 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast 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 5 The high service water line requires a reduced pressure type backflow prevention device because it serves a laboratory. The discharge line from the sump pump in the clear well beneath the aeration tower should have a double check back flow preventer. The device should be installed outside the clear well in an area where it is accessible for testing.
- 3 of 5 Section 16 of Chapter 12 requires that laboratories have separate outside air make-up. As an alternative to a separate outside air intake for the laboratory, a waiver from this requirement may be requested in writing.
- 4 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast 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.
- 5 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis."

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

6-10-2002

Date of Issuance

LBH/bb/2-1848.ltr

cc: Roy Prior, RUS; George Boulter, AML

STATEMENT OF BASIS

- I. Permit Number: 02-082
- Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. YES
- III. Basis for issuing permit.
- 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.
- IV. Facilities not specifically covered by regulations
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation
Chapter 12, Section 16 requires a separate fresh air supply for laboratories.
- B. Briefly state the basis for the deviation.
The laboratory is only occasionally occupied. The fresh air make up for the building is adequate. To require a separate fresh air make-up for the laboratory would reduce the security of the building.
- C. Permit based on general or statewide deviation contained in approved policy statement.
N/A
- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
NO. The modification of the sewage lagoon will not have any impact on the lagoon's impact on groundwater.
- VI. 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Louis B. Harmon, Southeast District Engineering Supervisor, and completed on June 5, 2002. 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."

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Building 4 West
Cheyenne, Wyoming 82002

PROJECT: Medicine Bow Water Treatment Plant

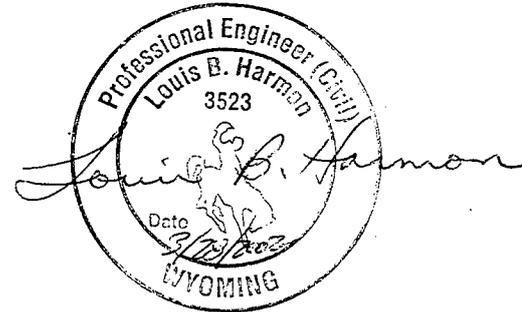
ENGINEER: Banner and Associates

APPLICANT: Town of Medicine Bow

WATER QUALITY DIVISION REFERENCE NUMBER: 02-082

REVIEWING ENGINEER: Louis B. Harmon

DATE OF REVIEW: March 28, 2002



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

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. On March 27, 2002 a design coordination meeting was held at the Laramie office of Banner and Associates. Representatives of the Town of Medicine Bow, Banner and Associates, Roy Prior of USDA-RUS, Evan Green and George Bolter of Wyoming AML, and myself were present.
2. Various design issues were discussed. Additional design efforts related to distribution piping, and the wastewater lagoons are planned.
3. The review of this project will continue when the results of the additional design efforts are submitted to the Water Quality Division.

LBH/bb/2-1055.ltr



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR



Department of Environmental Quality

5-7-02
Barb

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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 6, 2002

Greg Layos, V.P.
Layos, Inc.
507 Smith Street
Rock Springs, WY 82901

RE: Rock Springs - Layos Subdivision Sewer Main Extension ,
Permit Number: 02-083, SE1/4 Section 6, T18N, R105W, Sweetwater County

Dear Mr. Layos:

The above application for coverage under General Permit to Construct the extension of the a sewage collection system consisting of 660 LF of 8 - inch PVC sewer main and appurtenances in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin, P.E.
Southwest District Engineer
Water Quality Division

cc: IPS, Cheyenne
encl: General Permit For a Sewage Collection System



JIM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

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LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

NOTIFICATION OF COVERAGE

April 29, 2002

John S. McKee, Field Manager
Bureau of Land Management
280 Highway 191 North
Rock Springs, WY 82901

RE: Rock Springs Administrative Building, Bureau of Land Management, Permit Number 02-084, SW1/4 NW1/4 Section 14, T19N, R105W, Sweetwater County

Dear Mr. McKee:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to an Existing Public Water Supply Distribution System and an Existing Sewage Collection System in accordance with Chapter 3, Section 7, Chapter 11, Part B, 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, 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, Subpart O of the general permit.

- 1) Backflow prevention devices must be installed in the lines to the fire sprinkler system and the irrigation system as required by Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations.

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

Sincerely,
Doyle Conklin

SW District Engineering Supervisor
Water Quality Division

- cc: IPS, Cheyenne
- encl: General Permit for Extensions to Existing Public Water Supplies
General Permit for Extensions of Existing Sewage Collection Systems

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-085
SPECIAL CONDITIONS
REF/PERMIT NO. 01-195

Parker Ag Services, LLC. /Chugwater Biosolids

This permit hereby authorizes the applicant:

Town of Chugwater
P.O. Box 243
Chugwater WY 82210

to conduct land application of wastewater lagoon sludge according to the procedures and conditions of the application number 02-085. The facility is located in SW 1/4 Section 27 T21N R66W in the county of Platte, in the State of Wyoming. All land application of wastewater allowed by this permit shall be completed by April 1, 2004.

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 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 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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

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

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

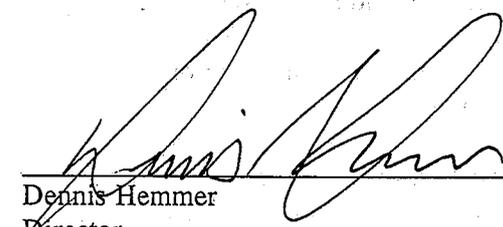
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast 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 4 The wastewater sludge may not be applied at a rate greater than 10,000 gallons per acre.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast 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.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

4-9-2002

Date of Issuance

LBH/bb/2-1105.ltr

cc: Mark Rosso, Baker and Associates, 120 East 16th Street, Scottsbluff, NE 69361

STATEMENT OF BASIS

- I. Permit Number: 02-085
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- III. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Chapter 15.
- IV. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
YES
- V. If Section 17 of Chapter 3 is applicable, indicate the basis of determining groundwater will be protected.
Facility will not allow a discharge to groundwater because the wastewater sludge will be applied at agronomic rates and at less than the water holding capacity of the soil.
- VI. 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 Louis B. Harmon, Southeast District Engineering Supervisor, and completed on April 3, 2002. 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/bb/2-1105.ltr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

April 3, 2002

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

RE: Van Diest Distribution Co. Water and Sewer Extensions, Application No.02-086, Laramie County

Dear Mr. Noe:

The above application for coverage under General Permits 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 permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by 1 April 2005. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Please reference Application No.02-086 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/2-1108.ltr

cc: IPS, Cheyenne
James K. Murphy, AVI, pc
2035 Westland Road
Cheyenne WY 82001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-087
SPECIAL CONDITIONS

Conoco Products Terminal, Rock Springs

This permit hereby authorizes the applicant:

Conoco Inc.
P. O. Box 2197
Houston, TX 77252-2197

to construct, install or modify a Pilot Test for soil vapor extraction (SVE) and air sparge (AS) systems, including soil borings and monitoring wells according to the procedures and conditions of the application number 02-087. The facility is located in SE 1/4, Section 6, T18N, R105 W in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2002.

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 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 or soil borings, 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*
Monitoring wells and monitoring points	For the duration of the Pilot Test	Various, As described in Work Plan	As described in the Work Plan	

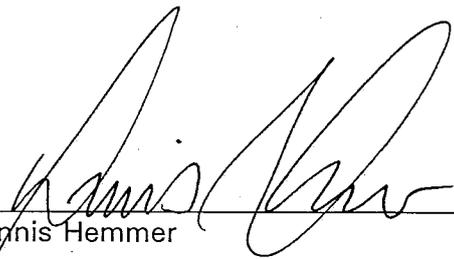
* Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

6. of 7 Within ninety (90) days of the receipt of the laboratory analytical data, the Applicant shall submit to WDEQ/WQD a Pilot Test Report. The *Report* shall contain the information discussed in the Work Plan and include information required in the GPC Guideline for Air Sparge System Pilot Tests (GPC Guideline #6).

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 WQD. An adequate number of well(s)/piezometer(s) shall be installed to define the nature and extent of the contamination.

AUTHORIZED BY:


 Gary Beach
 Administrator
 Water Quality Division


 Dennis Hemmer
 Director
 Department of Environmental Quality

4-1-2002
 Date of Issuance

NET/bb/2-1039.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
(307)332-3144

SITE NAME: Conoco Rock Springs Products Terminal

SITE STATUS: Site Remediation

APPLICANT:
Conoco Inc.
Mark West
P.O. Box 2197
Houston, TX 77252-2197

ENGINEER/CONSULTANT:
Maxim Technologies, Inc.
Keith Thompson
P.O. Box 2599
Casper, WY 82602-2599

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 02-087

EXISTING NEW AS BUILT

TITLE: Work Plan for Air Sparging and Soil Vapor Extraction Pilot Testing, Rock Springs Products Terminal, Rock Springs, Wyoming

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: March 19, 2002 (Date stamped 3/22/02)

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES #98-088

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING OFFICIALS:

Mark Thiesse, PG

Sterling T. Roberts, P.E.

DATE OF THIS REVIEW: March 26, 2002

ACTION: Work Plan approved

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description. The Conoco Rock Springs Terminal was constructed in 1963 to store and transfer refined petroleum products. The products are received from the Pioneer pipeline to seven above ground storage tanks. The tanks have capacities ranging from 7,500 to 40,000 barrels. Product is then transferred by pipe from the tanks to a truck loading rack.

1.2 Site History. File correspondence from Conoco states that Tank #702 was overfilled in 1989. In July 1993, DEQ received a phone call from a concerned citizen who reported that Conoco was excavating severely contaminated soil at the terminal. The contaminated soils were generated during the excavation and removal of a 1000 gallon steel sump which collects and contains spills and overfills from the truck loading rack. The excavated soil was stockpiled on-site and treated to SHWD standards. The sump was replaced by a 2500 gallon fiberglass sump. A DEQ LOV was issued to Conoco dated August 17, 1993 for discharge to waters of the state.

1.3 Site hydrogeology. The facility is underlain by unconsolidated alluvial sands, gravels, and clays. The depth to groundwater ranges from two to sixteen feet, is seasonally variable and varies aerially across the property. The groundwater flow direction is to the south under an average hydraulic gradient of 0.0048 ft/day. The hydraulic conductivities range from 0.11 to 0.26 ft/day.

No pathways are currently complete from source to receptor. One domestic well, the on-site well, and Bitter Creek are potential receptors of impacted groundwater in the event that natural attenuation or remediation does not limit the size of the plume. Conoco's up gradient property boundary borders a KOA campground.

2.0 SUMMARY OF WORK COMPLETED TO DATE:

2.1 1994 Subsurface Investigation. A SSI was conducted by Huntingdon (Maxim) at the terminal during the months of May and June 1994. The investigation consisted of drilling and sampling 22 soil borings and nine monitor wells. The investigation indicated the existence of two plumes of hydrocarbon impacted groundwater. The larger plume (south plume) likely originates in the manifold/sump/truck loading area, contains a free product layer, and extends off-site. The smaller plume (north plume) originates in the area of Tank #700, which borders Tank #702. Groundwater was sampled from each soil boring and from each monitor well and analyzed for BTEX, TPH-GRO, and TPH-DRO. One or more of the BTEX compounds were found at concentrations exceeding the respective EPA MCL samples from 13 of the 22 borings and wells. Samples from 6 of the 22 were found to exceed the TPH standard of 10 ppm. The highest concentrations of BTEX, TPH-GRO, and TPH-DRO were 21, 2.2, 28, 14, 99, and 60 ppm, respectively. Free product was found in two monitor wells at a thickness of 0.07 and 0.97 foot.

2.2 1995 Subsurface Investigation. In 1995, an additional assessment was conducted to evaluate natural attenuation and to develop a remedial action plan. Thirty-five Geoprobe points were installed and four soil borings were drilled and sampled. Three of the borings were completed as monitor wells, for a total of 13 monitor wells. In September 1995, approximately one foot of free product was measured in two of the wells. Benzene and toluene concentrations continue to exceed the MCLs, and TPH concentrations exceed the standard in the north plume. BTEX and TPH concentrations exceed the standards in the south plume. Measurement of dissolved oxygen, carbon

dioxide and the oxidation reduction potential conducted during May 1995 indicate that intrinsic bioremediation is occurring. The decreased DO concentrations and the increased CO₂ concentrations in groundwater coincide with the areas of elevated BTEX and TPH. Modeling with Bioplume II indicates that biodegradation should result in a stable plume geometry and decreasing concentrations of dissolved hydrocarbons.

Impacted surface soils exist in the manifold area/sample building section of the site and in the immediate vicinity of monitor well RS-6 (free product well). Impacted vadose zone and smear zone soils are present in these areas, as well as an elongated area extending down gradient from RS-6 to RS-12. Soil sample analysis results were compared to RBSLs (RBCA), SSLs (EPA), and the ARARs (WDEQ/WQD Chapter XVII). Only benzene and TPH (GRO and DRO) exceed one or more of the guideline concentrations.

2.3 1997 Semi-annual Monitoring. On January 6, 1997, 13 monitor wells were sampled. The groundwater flow direction and the potentiometric surface elevations are similar to the March and June 1996 monitoring events. Approximately one foot of free product was measured in two of the wells. BTEX and TPH standards were exceeded in monitor well RS-9. Of the remaining ten wells sampled, only the benzene standard was exceeded, and this only occurred in three of the ten wells. Measurement of dissolved oxygen, in relation to the elevated BTEX and TPH concentrations, continue to indicate that intrinsic bioremediation is occurring.

Various methods of containing, recovering and/or remediating the separate-phase hydrocarbons, the hydrocarbon impacted soils and hydrocarbon impacted groundwater were evaluated. Given the natural attenuation assessment, the extent and degree of impacts to soil and groundwater, the receptor assessment and the clean-up criteria, product recovery and groundwater interception were discussed as viable alternatives for remediation of the free product and groundwater. SVE or bioventing of the impacted soils are the feasible methods of source control.

Conoco is proposing a staged implementation of remediation. A monitoring program and documentation of ongoing intrinsic bioremediation has been implemented. Product recovery has been implemented with the installation of passive recovery equipment in two wells. If groundwater monitoring suggests that natural attenuation is not occurring and/or the impacted groundwater is increasing in concentration and extent, more aggressive free product recovery will be required, possibly combined with a groundwater interceptor trench, and SVE or bioventing to address impacted soils.

2.4 Product Recovery System. In December 1997, a product recovery system was installed by Maxim. The Keck PRS Product Recovery System consists of two pneumatic pumps located in wells RS-6 and RS-11, a pneumatic controller, ancillary piping, a compressed air supply, and a 1,000 gallon fiberglass coated product storage tank equipped with a pneumatic tank-full shutoff sensor. The pneumatic pumps are stainless steel bladder pumps equipped with a floating hydrophobic filter. The system is designed to operate continuously as long as there are measurable thicknesses of phase-separated hydrocarbons in the recovery wells. The system was approved and permitted in April 1998.

2.5 Groundwater Monitoring. Groundwater continues to be monitored at the site to delineate impacts, to assess the propensity for biodegradation and to assess the effectiveness of product recovery. Historically, annual monitoring of wells RS-3, RS-4, RS-6, RS-8, RS-9, RS-10, RS-11, RS-12, and RS-13 for BTEX, TPH-GRO, TPH-DRO and DO was conducted in the first quarter of the calendar year. Semi-annual monitoring of wells RS-3, RS-6, RS-9, RS-10, RS-12 and RS-13 for BTEX, TPH-GRO, and TPH-DRO was conducted during the first and third quarters of the calendar year. Because of the increasing concentrations of hydrocarbons in wells RS-10 and RS-13, the WQD required semi-annual sampling, beginning in 1999, of all of the wells instead of the annual sampling as described above. Additional natural attenuation (NA) parameters were added to the analytical suite to evaluate the appropriateness of NA as the final remedy, following the recovery of all FPH.

2.5.1 September 1998 and January 1999 Groundwater Monitoring Reports. These reports were submitted together in June 1999. The sampling results show that the free phase hydrocarbon (FPH) is still present in wells RS-6 and RS-11. Dissolved phase contamination above standards are still present in 3 of the 4 wells sampled. Down gradient wells RS-10 and RS-13, the southern and western boundary wells respectively, had low levels of hydrocarbons identified in the groundwater for the first time in January 1999.

2.5.2 Calendar Year 2000 Report. This report provides a summary of the spring and fall 2000 sampling events. As mentioned above, we required semi annual sampling of all target wells beginning in 1999. Briefly, the dissolved phase contamination appears to be decreasing slightly. Several wells still have concentrations of benzene and TPH above WQD standards. The wells with detections farthest down gradient do not have increasing concentrations, therefore, it appears the plume, both dissolved and free phase, is not migrating.

2.5.3 Calendar Year 2001 Report. This report provides the analytical results of the Spring and Fall groundwater sampling, along with an update of the hydrocarbon recovery system's progress. The groundwater continues to contain dissolved phase contaminant concentrations over WQD standards. Maximum concentrations were observed in RS-9 in the northern plume and RS-6 and RS-11 in the southern plume. Benzene concentrations were from 10 to over 1,000 times the MCL in these wells. No observable decrease in concentrations were apparent. The main difference in 2001 was the disappearance of measurable accumulations of FPH. Because of that, the product recovery system was only operated for a few months early in the year. There was no measurable amount of product recovered. The total amount of FPH recovered is "holding?" at 58.7 gallons.

2.6 March 2002 SVE/AS Work Plan. Due to our concerns about the decrease in FPH recovery, Conoco submitted a work plan that proposes performing a Soil Vapor Extraction (SVE) and Air Sparge (AS) Pilot Test to determine if either or both of these technologies are feasible for this site. The Pilot Test will consist of two locations, in somewhat different lithologies, with an AS well and a SVE well at each location. Newly installed monitoring points, as well as nearby existing monitoring wells will be used to measure the effective radius of influence of these technologies.

The plan is to perform a series of tests to see what the various effects are for the SVE and AS systems working alone, and then together. The tests will run for a maximum of 12 hours depending on the results observed in the field. The air that is recovered during the SVE testing will be monitored for VOCs and a sample will also be sent in for laboratory analysis. A report will be sent in describing the Pilot Test and the results in detail. If the Pilot Test is a success, the design criteria for a full scale system will be submitted. If the test does not work, other alternatives will be discussed.

3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

3.1 SVE/AS Pilot Test Work Plan. The Work Plan is approved as submitted. You need to coordinate this Pilot Test with the WDEQ/Air Quality Division to determine if an Air Permit is required for the SVE system. We look forward to reviewing the results of the test and your future plans for this facility.

3.2 Continued Corrective Action. We are pleased to see Conoco evaluate other potential technologies to continue the remediation at this site. If it proves that the SVE/AS system is not feasible for this facility, we will require evaluation of other potential remedies. The submittal of a remedy evaluation will be part of a Remedial Action Plan (RAP) which has been required since the project began.

3.3 Voluntary Remediation Program (VRP). In our last correspondence we pointed out that the VRP has been created and that we are requiring companies to choose between staying with the current Chapter 3 permitting process or to switch to the VRP. We asked that this choice be made with your next submittal - but it was not made for this work plan. Please provide this office your choice as soon as possible. This selection may alter the format for your reports and work plans.

END OF REVIEW

THE STATE



OF WYOMING

JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

April 29, 2002

Mr. W. C. Hippe, Mayor Pro Tem
Town of Wamsutter
P.O. Box 6
Wamsutter, WY 82336

RE: Waterline Modification, Sweetwater County Road 4-23, Permit Number 02-088, SW1/4
Section 27, T20N, R97W, Sweetwater County

Dear Mayor Hippe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate an Extension to an Existing Public Water Supply System 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, 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 Subpart 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 "Doyle Conklin".

Doyle Conklin
SW District Engineering Supervisor
Water Quality Division

cc: IPS, Cheyenne
Sweetwater County; Attn: John T. Nelson; 80 West Flaming Gorge Way; Green River,
WY 82935
encl: General Permit for Extension of a Public Water System



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

April 11, 2002

Ms. M. Sturdivant, Mayor
Town of Guernsey
P.O. Box 667
Guernsey WY 82214

RE: Water and sewer line replacements in conjunction with WYDOT Highway US26 improvements, Application No.02-089, Platte County

Dear Ms. Sturdivant:

The above application for coverage under General Permits 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 permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 1, 2004. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Please reference Application No.02-089 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/2-1203.ltr

cc: IPS, Cheyenne

Ken Wilbert, JFC Engineers, Architects, Surveyors/1515 Ninth Street, Suite A/Rock Springs WY 82901

Sandra Pecenka, WYDOT



JIM GERINGER
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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

April 26, 2002

David Hardie, Authorized Representative
Flat Creek Business Center, LLC
P.O. Box 1108
Jackson, WY 83001

RE: Jackson - Flat Creek Business Center Water & Sewer Main Extension,
Permit Number: 02-090, NE1/4 Section 6, T40N, R116W, Teton County, PWS # 5600213

Dear Mr. Hardie:

The above application for coverage under General Permits to Construct the extension of a public water supply system consisting of 856 linear feet (LF) of 8 - inch & 573 LF of 6 - inch DI water main and the extension of a sewage collection system consisting of 1020 LF of 8 - inch PVC sewer main and appurtenances 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 permit.

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

Sincerely,

Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Jeff Hermansky, P.E.
Northwest District Engineer
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
STATE OF WYOMING
UNDERGROUND INJECTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS**

() New
(x) Modified

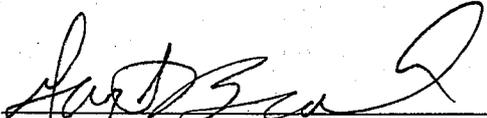
Permit Number: UIC 02-091
Reference old permit: UIC 98-486
Subclass Number: 5E3

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations, Chapter 3 (March 28, 1988), and Chapter 16 (July 13, 2001).

Applicant: Hoy Mobile Home Park
5600 Hannum Road
P.O. Box 1656
Gillette, WY 82717
(307) 682-7364

is authorized to operate the Hoy Mobile Home Park Wastewater Facility in the SE¼ Section 4, Township 50 North, Range 72 West, of the 6th Principal Meridian; according to the procedures and conditions of application # 98-486 and modification application 02-091 and requirements and other conditions of this permit as contained on pages 1 through 8.

This permit shall become effective on date of issuance.



Administrator

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

Apr 8, 2002
Date



Director

Department of Environmental Quality
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002

4-9-02
Date

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A. DISCHARGE ZONE AND AREA OF REVIEW

Discharge Zone:

This injection facility (sanitary leachfield) is authorized to inject into the Alluvial Aquifer along Little Rawhide Creek from zero to 50 feet below the ground surface.

Area of Review

The facility authorized by this permit is located in:

Township 50 North, Range 72 West, 6th Principal Meridian
Section 4: SE 1/4

The Area of Review around this facility is legally described as:

Township 50 North, Range 72 West, 6th Principal Meridian
Section 4: SE 1/4

B. GROUNDWATER CLASSIFICATION

The groundwater in the Alluvial Aquifer is classified as class I (Domestic) under Chapter 8 of Wyoming Water Quality Rules and Regulations (March 11, 1993). This classification was made because:

- a. The groundwater in this formation is presumed to meet all of the quality standards set forth in Chapter 8 for class I water.

Groundwater of class I shall not be degraded so as to make it unusable as a source of water for this purpose. Any parameters which do not meet the class of use standard shall not be degraded whatsoever.

C. AUTHORIZED OPERATIONS

Hoy Mobile Home Park is authorized to inject 284 barrels per day, (11,950 gallons per day) of wastewater as described: Sanitary waste only from a mobile home park. Hoy Mobile Home Park is authorized to inject at a pressure of no more than 10 psi as measured at the leachfield. This pressure is controlled by gravity drainage and is not required to be monitored. This permit covers operation of two septic systems, one main system located east of the mobile home park, and the reactivation of an old system located near the welding shop.

Hazardous Waste This permit does not allow for the injection of any hazardous waste as defined by 40 CFR 261. Injection of any substance defined as hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

In the event that either of the two septic systems is converted at any time to any other use, additional capacity may be required for the septic system. Any such conversion shall be reported to the DEQ in the form of a modified permit application showing the required additional drainfield capacity.

D. ENVIRONMENTAL MONITORING PROGRAM FOR GROUNDWATERS OF THE STATE

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. Hoy Mobile Home Park shall prepare records of all monitoring information to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. Names of individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.

4. The groundwater in the receiving formation shall be sampled and the following parameters analyzed on the following schedule and from the following wells.

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL)*
The monitor well shown on Sheet 1 of the application	May and September each year	EPA 200 Series Methods	Cadmium	.010
			Chromium	.050
			Lead	.050
		EPA Method 350.3	Ammonia as N	.500
		EPA Method 353.2	Nitrate as N	10.0

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action. In the event that any of the above UCL's are exceeded, the Hoy Mobile Home Park shall immediately sample all domestic use wells on their property for Total Coliform Bacteria.

After the first two years of operation, the Water Quality Division may, without reissuing this permit, waive further monitoring of any parameter from the above list or may require additional monitoring based on new information about the nature of the waste. The Water Quality Division may also, after the first two years of operation, approve a more or less stringent monitoring schedule.

E. REQUIREMENTS FOR MONITORING THE DISCHARGE

Hoy Mobile Home Park shall monitor the quality of the injectate fluid in each of the systems on the following schedule. The following parameters shall be analyzed by the listed methods and reported semiannually:

SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL) *
May and September each year	EPA 200 Series Methods	Cadmium	.010
		Chromium	.050
		Lead	.050
	EPA Method 420.1	Total Phenols	.250
	EPA Method 350.3	Ammonia as N	50.0

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of this value is a violation of this permit and shall require corrective action. In the event that any contaminant is found to exceed the above UCL's the Hoy Mobile Home Park shall undertake a study to determine and eliminate the source of that contaminant from the waste stream. Any parameter found to be

exceeding the above UCL shall be sampled for in the downgradient wells if not already sampled for. Hoy Mobile Home Park shall sample the downgradient well within 30 days of the date that he becomes aware of any exceedance of the above UCL's. After the first two years of operation, the Water Quality Division may, without reissuing this permit, waive further monitoring of any parameter from the above list or may require additional monitoring based on new information about the nature of the waste. The Water Quality Division may also, after the first two years of operation, approve a more or less stringent monitoring schedule.

F. RECORDS AND REPORTS

1. Hoy Mobile Home Park shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. Hoy Mobile Home Park shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 30 days following each schedule date.
4. Hoy Mobile Home Park shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time Hoy Mobile Home Park becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

A written submission shall be provided within 5 days of the time Hoy Mobile Home Park becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

5. Hoy Mobile Home Park shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 4. above.
6. When Hoy Mobile Home Park becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
7. Hoy Mobile Home Park shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.

8. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
 - a. Well construction is complete and Hoy Mobile Home Park has submitted notice of completion of construction to the administrator,
 - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or Hoy Mobile Home Park has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Hoy Mobile Home Park has submitted, and the Water Quality Division has approved, an Operation and Maintenance Manual for both the septic system and the public water system.
9. The annual report of operations for this facility shall be submitted on forms provided by the department and shall include the following information:
 - a. Any permit exceedances within the previous year.
 - b. The analytical results for sampling for the injected water and any groundwater sampling results required under Section D or E of this permit.
 - c. Annual reports are due in the Cheyenne office of the Water Quality Division no later than December 1 of each year.
10. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

G. GENERAL CONDITIONS

1. After notice and opportunity for a hearing, a permit may be modified, suspended, or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:
 - a. Violation of the permit;
 - b. Obtaining a permit by misrepresentation or failure of the discharge well or system.
2. Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.
3. A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued. A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in Hoy Mobile Home Park's discharge, as may be ordered by the council. This permit can be terminated by authority of the administrator for one or more permit violations.
4. Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

5. Any permit noncompliance constitutes a violation of the permit.
6. The filing of a request by Hoy Mobile Home Park for a permit modification, revocation, and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
7. The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the department director.
8. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve Hoy Mobile Home Park from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.
9. The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
10. The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
11. Pollution or waste which migrates into an aquifer containing a usable groundwater of the state is a violation of the permit.

H. DUTIES OF HOY MOBILE HOME PARK

It is a duty of Hoy Mobile Home Park to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce Hoy Mobile Home Park activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit; and
4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

I. SPECIAL MEASURES THE DIRECTOR FINDS NECESSARY:

1. In the event that sewage is found to be surfacing from either leachfield covered by this permit, this is a violation of this permit and shall be reported immediately as required by Section F of this permit. In the event that the leachfield covered by this permit should fail, it is not necessary to modify this permit to allow for the replacement leachfield to be installed, so long as the construction specifications remain the same and the replacement leach lines are installed between existing leach lines. The Hoy Mobile Home Park shall notify the department that the replacement leachfield is to be installed within 90 days of determining that the primary leachfield has failed.

2. The Hoy Mobile Home Park shall notify the Campbell County Engineer, 500 South Gillette Avenue, Gillette, WY 82716/(307) 682-1970 at least three days prior to installing the septic system to arrange for an on-site inspection of the facility.

SIGNATORIES REQUIREMENT

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

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

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

- a. The authorization is made in writing by one of the described principals;
- b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
- c. The written authorization is submitted to the administrator.

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

3. Any person signing a report or other requested information shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

RFL/bb/2-1126.ltr

cc: Campbell County Engineer, 500 South Gillette Avenue, Gillette, WY 82716

STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: UIC 02-091

B. Facilities Covered: The Hoy Mobile Home Park Septic System. Covers a large scale sanitary septic system with a capacity of 11,950 gallons per day, sewer lines to serve that facility, septic tanks, and a leachfield to reach that capacity. This permit is a modification of permit UIC 98-486 to allow the reactivation of an old septic leachfield to serve 26 camping trailers.

C. Class of Facility: 5E3 (Under Chapter 16)

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

A. Chapter 8 Yes

D. Chapter 12 No

B. Chapter 9 No

E. Chapter 13 No

C. Chapter 11 Yes

F. Chapter 16 Yes

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

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

Yes

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

No

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

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter 3. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable. A groundwater review has been completed in accordance with Section 17. This modification provides for a flow capacity to 11,950 gallons permit day.

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

- A. The applicant has been provided with a draft permit prior to the permit being issued.
- B. A Public Notice was not issued since this is a minor modification to the permit.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Robert F. Lucht, P.E. and P.G., UIC Program Supervisor, and completed on April 11, 2002. 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."

RFL/bb/2-1202.ltr



The State
of Wyoming



Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Jim Geringer, 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

April 2, 2002

Mr. Wayne Wilson
239 Mona Road
Alva, WY 82711

RE: W. Wilson Residence Septic, Permit # 02-092

Dear Mr. Wilson:

The above application for coverage under General Permit to Construct, Install, Modify or Operate extensions to or modifications of small wastewater septic 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.

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

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Rick J. Estes".

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

cc: IPS, Cheyenne

AS-BUILT
PERMIT TO CONSTRUCT

New
Renewal
Modified

PERMIT NO. 02-093

Guernsey Rest Area - Water System Improvements
PWS #WY5600642

This permit hereby authorizes the applicant:

Wyoming Department of Transportation
Attn. Jack E. Bell, District Engineer
P.O. Box 2189
Casper, Wyoming 82602

to have constructed, installed and modified a water supply system by adding a new well, storage tank, booster pumps, chlorination system, and other appurtenances according to the procedures and conditions of the application number 02-093. The facility is located in the NE 1/4 of Section 06, Township 26N, Range 65W, in the county of Platte, in the State of Wyoming.

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, 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 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.

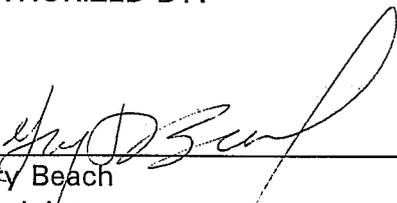
The permittee shall allow authorized representatives from the DEQ, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

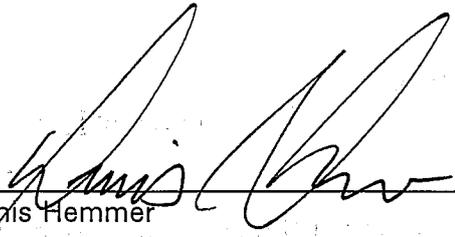
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

9-3-2002

Date of Issuance

RLE/bb/2-2769.ltr



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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August 29, 2002

Wyoming Department of Transportation
Attn. Jack E. Bell, District Engineer
P.O. Box 2189
Casper, Wyoming 82602

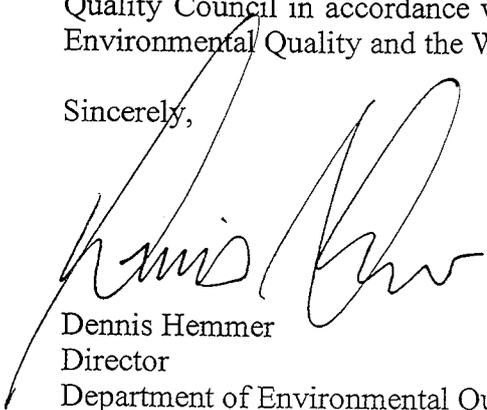
RE: As-Built Permit To Construct, WQD Reference Number: 02-093

Dear Mr. Bell:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by your engineer, William D. Green of Washington Infrastructure Services. Our review of the information and as-constructed plans submitted to this office indicates that the application meets DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers changes and modifications to the Guernsey Rest Area Public Water Supply system, including a new well, storage tank, booster pumps, chlorination system, and other associated appurtenances which have already been constructed.

Please be advised that the system must be constructed, installed, and operated in accordance with the statements, representations, and procedures presented in the application and all supporting documentation as well as the terms and conditions of the permit. You are urged to be familiar with all aspects of the permit application, permit, and permit conditions. Any person objecting to a permit issued by the DEQ and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the Rules of Practice and Procedure for the Department of Environmental Quality and the Wyoming Administrative Procedures Act.

Sincerely,


Dennis Hemmer
Director
Department of Environmental Quality

DH/RLE/bb/2-2782.ltr

Enclosure: As-Built permit # 02-093

cc: William D. Green, Washington Infrastructure Services, 5920 Yellowstone Road, Cheyenne, Wyoming 82009

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: WYDOT Guernsey Rest Area AS-BUILT Well & Improvements

ENGINEER: William D. Greene
Washington Infrastructure Services
5920 Yellowstone Road
Cheyenne, Wyoming 82009
Ph: (307) 634-1101

APPLICANT: Wyoming Department of Transportation
Attn. Jack E. Bell, District Engineer
P.O. Box 2189
Casper, Wyoming 82602
Ph: (307) 473-3214

WATER QUALITY DIVISION REFERENCE NUMBER: 02-093

REVIEWING ENGINEER: Ronald L. Ewald *RLE*
Phone: (307) 777-6183

DATE OF REVIEW: June 27, 2002

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

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. **System As-Built Drawings Inconsistent** - Several of the drawings submitted show the chlorination system, irrigation system split-off point, booster pump, and other features in different locations, or they do not show them at all. Please submit one accurate set of plan, profile, and section drawings which are consistent and clearly show all equipment locations; including the chlorination metering pump and solution storage tank. If convenient, photographs of the inside of the mechanical building can be submitted along with the revised drawings.

2. Additional Chlorination System Details - Is this equipment actually on site and ready to go, or is there only a chlorination injection point tee installed in the water line? What type and concentration of solution is intended to be used? Was the needed dosage level for this system calculated? And, if so, what dosage level is needed? What are the estimated contact times or expected chlorine residuals for this system? Is there a chlorine residual test kit on site? What range of dosages can this equipment effectively and accurately deliver?

3. Operation and Maintenance (O&M) Manuals - O&M manuals which describe the specific operation and maintenance checks, inspections, routine procedures and frequencies, and other requirements for this individual system as configured (not just generic manufacturer's cut sheets) need to be put together for quick and easy access by maintenance personnel. The O&M manuals should include information on how to properly operate and maintain the well pump, booster pump, sand filter, chlorination system, backflow prevention devices, and any other system components that need O&M. The O&M manuals should also include information about the correct settings for the various pieces of equipment.

RLE/bb/2-2079.ltr

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: WYDOT Guernsey Rest Area AS-BUILT Well & Improvements

ENGINEER: William D. Greene
Washington Infrastructure Services
5920 Yellowstone Road
Cheyenne, Wyoming 82009
Ph: (307) 634-1101

APPLICANT: Wyoming Department of Transportation
Attn. Jack E. Bell, District Engineer
P.O. Box 2189
Casper, Wyoming 82602
Ph: (307) 473-3214

WATER QUALITY DIVISION REFERENCE NUMBER: 02-093

REVIEWING ENGINEER: Ronald L. Ewald *RLE*
Phone: (307) 777-6183

DATE OF REVIEW: May 20, 2002

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

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Water System Details Missing - The site plan provided only provides very general information. Details of how the lines from the three wells are connected, where exactly the 4 backflow prevention valves are located, and where and how the chlorination system is plumbed, are needed. Do the water lines cross any of the sewer lines? If so, above or below and how much separation?

2. Water Storage Tank Details Missing - More details of the water storage tank are needed. Where does it fit in the finished water flow path? Before or after the chlorination equipment? What is the storage tank constructed from? What is the interior finish? And, "Note 12" on the site plan says see detail sheet C9 for storage tank details, but sheet C9 was not included in the submittal.
3. Booster Pump Details - At what location and how is the booster pump plumbed into the water system? Since this is an As-Built application; what make and model and size of pump was installed? Provide pump specifications also.
4. Backflow Prevention Devices - The site plan (Note 14) mentions 4 backflow prevention valves. What type of valves are these? Testable double-check, or what? And, where are these valves located within the water system.
5. Chlorination Equipment - Since this is an As-Built situation, provide the following information. Make and model and type of chlorination unit. The capacity of this unit and the dosage level it is to be set at for this system and how the dosage rate was determined. Contact time and calculated residual levels. What kind of residual chlorine testing equipment is available to be used. The point of application. The selected equipment specifications. And any other pertinent information.
6. Well Details and Testing Results - Again, since this is an As-Built application, submit a final as-built drawing of the completed well, pump, pitless adapter, etc. Also please provide the yield and drawdown test results.
7. Operation & Maintenance Manuals - O&M manuals for the well pump, backflow prevention devices, and the chlorination system need to be submitted for review.

RLE/bb/2-1624.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-094R
SPECIAL CONDITIONS

Town of Jackson - South Millward Street Infrastructure Project PWS # WY5600213

This permit hereby authorizes the applicant:

Shawn P. O'Malley, Town Engineer
Town of Jackson
P.O. Box 1687
Jackson, WY 83001

to construct replacements of a public water supply and sewage collection systems consisting of 160 linear feet of 8 - inch water main and 2150 linear feet of 8 - inch PVC sewer main and appurtenances, according to the procedures and conditions of application number 02-094R. The facility is located in SE1/4 Section 33, T41N, R116W in the county of Teton, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by May 17, 2004.

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 (WQD), 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Mark Baron, Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, Wyoming 82520; (307) 332-3144; FAX (307) 332-3183.

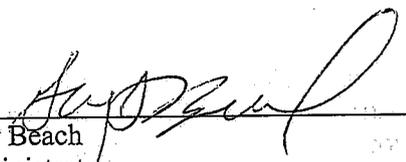
Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations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

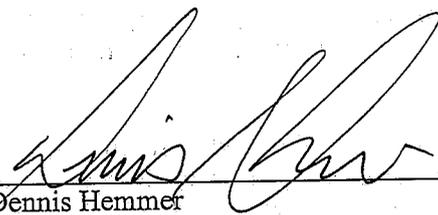
In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will notify the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; by letter, e-mail or telephone of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; (307)332-3144; FAX (307)332-3183; mbaron@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.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District, State of Wyoming, DEQ, Water Quality Division, 250 Lincoln Street, Lander, WY 82520; 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.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

5-21-2002
Date of Issuance

MDB/mad/2-1620-ltr

STATEMENT OF BASIS

General information.

Permit Number: 02-094R

II. Application reviewed for compliance with the following regulations.

A. Chapter 11. Yes

B. Chapter 12. Yes

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section 2.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter 11, or 12.

No

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

No

IV. Facilities not specifically covered by regulations.

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

Chapter 11, Section 9 (i)(F)(III) places an upper limit on stones within two feet of a pipe at 3 - inches in diameter.

B. Briefly state the basis for the deviation.

Because native materials often exceed 3 - inches in diameter and in order to contain costs the Town of Jackson Engineer has request that the upper limit on stones in the backfill material be increased to 8 - inches in diameter. To protect the pipe from the larger stone the Town of Jackson requires that 12 inches of bedding material be placed over the top of the pipe.

C. Permit based on general or statewide deviation contained in approved policy statement

No

V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3¹.

N/A

VI. If Section 17 of Chapter 3 is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

VII. 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 3, Wyoming Water Quality Rules and Regulations. This review was performed by Mark Baron, Environmental Senior Analyst, and completed on May 17, 2002. 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."

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 17.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 02-095
SPECIAL CONDITIONS
REF/PERMIT NO. 01-195

Parker Ag Services, LLC. /Lingle Biosolids

This permit hereby authorizes the applicant:

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

to conduct land application wastewater lagoon sludge according to the procedures and conditions of the application number 02-095. The facility is located in Sections 26 & 35 T25N R63W in the county of Goshen, in the State of Wyoming. All land application of wastewater allowed by this permit shall be completed by April 1, 2004.

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 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 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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

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

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

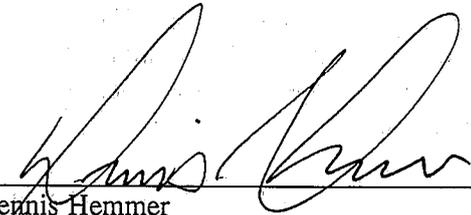
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

- 1 of 4 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast 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 4 The wastewater sludge may not be applied at a rate greater than 20,000 gallons per acre.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast 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.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

4-9-2002

Date of Issuance

LBH/bb/2-1106.ltr

cc: Mark Rosso, Baker and Associates, 120 East 16th Street, Scottsbluff, NE 69361

STATEMENT OF BASIS

- I. Permit Number: 02-095
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- III. Basis for issuing permit: Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Chapter 15.
- IV. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
- YES
- V. If Section 17 of Chapter 3 is applicable, indicate the basis of determining groundwater will be protected.
- Facility will not allow a discharge to groundwater because the wastewater sludge will be applied at agronomic rates and at less than the water holding capacity of the soil.
- VI. 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 Louis B. Harmon, Southeast District Engineering Supervisor, and completed on April 3, 2002. 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

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

May 1, 2002

Mayor Mark Lohr
Town of Lusk
201 East 3rd Street
Lusk, WY 82225

RE: Town of Lusk Waterline and Sanitary Sewer for 3rd Street and 8th Street WYDOT Project,
Application No.02-096, Niobrara County

Dear Mayor Lohr:

The above application for coverage under General Permits 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 permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 1, 2004. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permits. Please reference Application No.02-096 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/2-1440.ltr

cc: IPS, Cheyenne
William Greene, Washington Infrastructure Services
5920 Yellowstone Road
Cheyenne WY 82009



JIM GERINGER
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • 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 6, 2002

Don Erickson, President
Wyoming Housing Opportunities Assoc.
3304 Sheridan Street
Cheyenne, WY 82009

Glen Olsen, Mayor
Town of Lovell
P.O. Box 188
Lovell, WY 82431

RE: Lovell- 2002 Infrastructure Improvements, Clay Housing and Second Street Water & Sewer Mains, Permit Number: 02-097R, Latitude 44°50'30" Longitude 108°23'30" T56N, R96W, Big Horn County, PWS # WY5600031

Dear Mr. Erickson and Mayor Olsen:

The above application for coverage under General Permits to Construct the extension of 675 LF of 8 - inch, and 555 LF of 6 - inch PVC water main and 640 LF of 6 - inch, and 360 LF of 8 - inch sewer main and the replacement of 1650 LF of 8 - inch, and 200 LF of 6 - inch water main with PVC and 35 LF of 10 - inch, and 2170 LF of 8 - inch, and 245 LF of 6 - inch with PVC sewer main and appurtenances in accordance with Chapter 3, Section 7 and Chapter 12, Section 14, 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 permit.

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

Sincerely,
Mark Baron
Mark Baron, E.I.T.
Environmental Senior Analyst
Water Quality Division

Doyle Conklin
Doyle Conklin, P.E.
Southwest District Engineer
Water Quality Division

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



The State
of Wyoming



Department of Environmental Quality

Jim Geringer, Governor

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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NOTIFICATION OF COVERAGE

June 10, 2002

South Cheyenne Water and Sewer District
Attn. Dena Hansen, Office Manager
215 East Allison Road
Cheyenne, Wyoming 82007-2841

RE: A-Advanced Self Storage New Fire Hydrant & W&S Service Connections, Application No. **02-098**

Dear Ms. Hansen:

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 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. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

The approval granted under this Notification Of Coverage and the General Permit shall expire on June 10, 2004. Please reference Application Number **02-098** 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/2-1887.ltr

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

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

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: A-Advanced Self Storage New Fire Hydrant & W&S Service Connections

ENGINEER: Scott D. Larsen
BenchMark of Cheyenne, P.C.
1920 Thomes Avenue, Suite 620
Cheyenne, Wyoming 82001
Ph: (307) 634-9064

APPLICANT: South Cheyenne Water and Sewer District
Attn. Dena Hansen, Office Manager
215 East Allison Road
Cheyenne, Wyoming 82007-2841
Ph: (307) 635-5608

WATER QUALITY DIVISION REFERENCE NUMBER: 02-098

REVIEWING ENGINEER: Ronald L. Ewald *RLE*
Phone: (307) 777-6183

DATE OF REVIEW: May 30, 2002

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

COMMENTS, INADEQUACIES, AND QUESTIONS:

1. Fire Flow Pressure Modeling - The information submitted in the "Fire Flow Report", (i.e., junction report, and the "Pipe Report") does not correspond with the information on the plan view of the area under analysis. The area on the plan view shows:

Junctions: J-1, J-2,3,4,5,6,9,12,13,14,15, and J-57 (new fire hydrant), and
Pipes: P-1, P-2,3,5,6,7,10,16,17,18,19,20,75,76, and P-77 (hydrant).

However, the junction report lists junctions J-37 through J-71 and the fire hydrant J-57, which does not provide any information about the area of the water distribution system in question. The report needs to be set up to list what is happening at the junctions shown on the plan view. Wherever junctions J-37 through J-71 are, they are not in the project area and are, therefore, immaterial to this application. Critical junction pressures (both static and residual) to be reported for the condition when the new fire hydrant is flowing at full flow are; junctions J-57, J-1,2,3,4,12, and especially J-13 (nearby dead end line). Also, some normal domestic flows need to be included in the model run for other pipes in the immediate area while the hydrant is at full flow. Another inconsistency is that the calculated residual pressure for the new fire hydrant is 25.34psi, yet the calculated minimum zone pressure is listed as 44.17psi.

The pipe report has different problems. Most of the pipes shown on the plan view are included in the report, except for the very important P-77 fire hydrant pipe. This report contains no pressure information, so it's usefulness is limited. However, the questions arise; if the hydrant is flowing at 1500gpm - how can the flows in pipes P-75 and P-76 be only 0.42gpm and 12.42gpm? Was this fire flow model run with the correct fire flow conditions?

And lastly, why is the static pressure near the intersection of Murray Road and Avenue-C being used as a control point when it is nearly 2000 feet away from the new fire hydrant location? There are several junction points and other fire hydrants much closer to the location in question which could be used as an input data point for the model run.

The fire flow pressure model needs to be rerun with the correct input parameters, and the results which are printed out need to show what is happening in the water distribution network in the area nearby the new fire hydrant location.

2. New Fire Hydrant 6" Water Line Encasement - A note on the plans properly indicates that this line will be encased where the clearance between the water line and sewer lines is less than 18 inches. Because of the location and depths of the existing sewer, planned new sewer, and the planned storm sewer lines; this hydrant line should be encased from the wet tap to at least 10 feet south of the existing sanitary sewer. Also, this note says "SEE SPECS" for encasement details. However, the encasement specs were not included with the submittal. How and with what are you planning to encase this line.?



The State
of Wyoming



Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

Jim Geringer, 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

April 3, 2002

Mr. Dave Nicolarsen
Sheridan Area Water Supply Joint Powers Board
224 South Main
Sheridan, WY 82801

RE: Country Corner Estates Water Line Extension, PWS# 5601244C Permit # 02-099

Dear Dave:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a water distribution system in accordance with Chapter 3 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 in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit.

If you have any questions please contact me.

Sincerely,

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

cc: Dale Lee, PE, CER
James Swaney - Owner
IPS, Cheyenne

PERMIT TO CONSTRUCT

New
 Renewal

PERMIT NO. 02-100
SPECIAL CONDITIONS

A Bar A Ranch Upgrade of Septic Tanks and Lift Stations

This permit hereby authorizes the applicant:

A Bar A Guest Ranch
P.O. Box 247
Encampment WY 82325

to construct, install or modify a retrofit of existing lift stations and septic tanks according to the procedures and conditions of the application number 02-100. The facility is located in SE 1/4 Section 22 T14N R81W in the county of Carbon, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by June 1, 2004.

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 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 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 the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, DEQ, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781; FAX (307) 777-5973.

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:

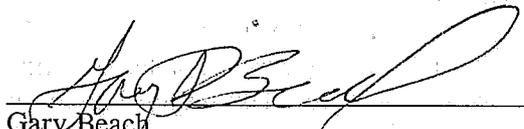
1 of 3 The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the DEQ/WQD Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

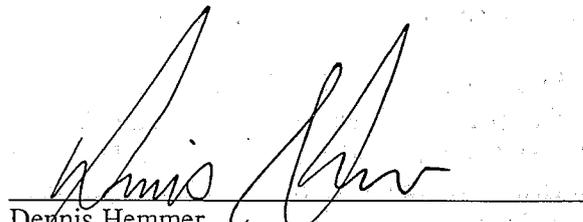
- a. Date that construction of the facility was completed; and
- b. Date that the facility was placed in operation; and
- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications. 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:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Department of Environmental Quality

4-18-02

Date of Issuance

LBH/mad/2-1248-ltr

STATEMENT OF BASIS

- I. Permit Number: 02-100
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. YES
- B. Chapter XII. NO
- III. Basis for issuing permit.
- 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
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- Chapter XI, Section 10(e)(ii) requires emergency power for lift stations. Chapter XI, Section 10(c)(iii) requires shaft seal failure sensors.
- B. Briefly state the basis for the deviation.
- The A bar A is a guest ranch with control of the water supply and 24 hour emergency response service when guests are present. The water supply can be cut off avoiding a sanitary sewer overflow until the necessary repairs are completed. If emergency repairs cannot be completed, the guests can be asked to depart.
- V. Application requires review to determine groundwater impacts in accordance with Section 17, Chapter 3.
- NO
- VI. 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 Louis B. Harmon, Southeast District Engineering Supervisor, and completed on April 16, 2002. Permit issuance is commended 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."