



# Department of Environmental Quality

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



Head, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 5, 2012

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

RE: Rock Springs - 2012 Miscellaneous Sewer Rehabilitation Project - Permit Number 12-001, T18N, R105W and T19N, R105W, Sweetwater County

Dear Mr. Kauchich:

The above application for coverage under General Permit to Construct the extension of a sewage collection system and the replacement of existing sewage collection mains consisting of about 776 linear feet (LF) of 6-inch PVC, 5468 LF of 8-inch PVC, 538 LF of 10-inch PVC, 2106 LF of 18-inch PVC sewer main at 15 different sites; the installation of new manholes and the replacement of 135 existing lamp holes with 4 foot diameter manholes 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 facilities in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permits. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

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

Sincerely,

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

PDF to Cheyenne

Shawn M. Arnoldi, P.E., Choice Engineering Services, Inc., 404 N. St., Suite 201, Rock Springs, WY 82901

Page 1 of 1





# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

July 6, 2012

Mr. Brian Ault  
Ciris Energy Inc.  
9155 East Nichols Ave. Suite 200  
Centennial, Colorado 80112

RE: Final Permit 12-002, Class V Miscellaneous Injection  
Campbell County, Wyoming

Dear Mr. Ault:

Attached please find one copy of the signed Class V permit for the above referenced facility.

The permit application, draft permit, final permit, public notice, and report forms are available for review on the GEM website <https://gem.trihydro.com>. Due to the large quantity of data for this facility it is required that Ciris Energy Inc. fill out monitor reports online in addition to the paper reports required in the permit.

The underground injection control program was promulgated to prevent serious problems caused by direct discharges to the groundwater. Those problems included groundwater pollution leading to contamination in domestic water wells and serious health affects caused by exposures to toxic substances and water borne pathogens. Your cooperation with our program is sincerely appreciated.

If you have any questions, feel free to contact me at (307) 777-5623 or [john.passehl@wyo.gov](mailto:john.passehl@wyo.gov).

Sincerely,

John A. Passehl P.G.  
Geology Supervisor  
Water Quality Division

JP/rm/12-0602

Enclosure: Final Permit



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

CLASS V INJECTION WELL (AREA PERMIT)

(X) New  
() Modified

Permit Number **12-002**  
UIC Facility Number WYS-005-00590  
State Subclass 5F2

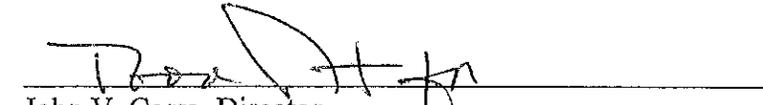
In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 16.

Applicant: Ciris Energy Inc.  
Attn: Brian Ault  
9155 East Nichols Ave., Suite 200  
Centennial, CO 80112  
(303) 649-2000

Ciris Energy Inc., hereafter referred to as the Permittee, is authorized to operate 4 (four) injection wells located in Section 13, Township 45 North, Range 75 West of the 6<sup>th</sup> Principal Meridian, Campbell County (referred to as the "Antelope Project Area") for the restoration or enhancement of microbial conversion of hydrocarbon substrates to methane gas from coal according to the procedures and conditions of application 12-002, including the requirements and other conditions of this permit. The permit will become effective on the date of signature by the Water Quality Director, and is valid for ten (10) years, the permittee is authorized to inject only during the first 5 (five) years of the permit term.

  
\_\_\_\_\_  
John Wagner, Administrator  
Water Quality Division  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002  
(307)-777-7781

7/6/12  
Date

  
\_\_\_\_\_  
John V. Corra, Director  
Department of Environmental Quality  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002

7/6/12  
Date

JP/rm/12-0602

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**A. Discharge Zone**

The injection will occur in the Big George coal seam. The project consists of 4 (four) injection wells surrounded by 13 production wells. Project wells are identified in **Table 1** as follows:

**Table 1 (Perforated Zones - Injection Wells)**

Well Name	Perforated Zones (Feet)	Porosity (%)	Coal Thickness (Feet)	Maximum Injection Rate (bbls/day) <sup>1</sup>	Maximum Surface Injection Pressure (psig) <sup>1</sup>	Coal Seam	Depth to Top of Big George Coal Seam (Feet)
Antelope 6J	1173-1193	1.5	76	2,500	65	Big George	1169
Antelope 7J	1200-1220	1.5	84	2,500	65	Big George	1196
Antelope 10J	1150-1170	1.5	71	2,500	65	Big George	1146
Antelope 11J	1159-1179	1.5	78	2,500	65	Big George	1155

<sup>1</sup> Maximum limits are not to be exceeded during any injection period. Additional perforation zones may be extended within the Big George coal seam.

**B. Injection/Production Well Locations and Area of Review**

The injection/production wells in the project are identified in **Table 2** as follows:

**Table 2 (Injection/Production Wells - Public Land Survey Locations)**

Well Name	Well Type	Quarter/Quarter	Section	Township (N)	Range (W)	Latitude	Longitude
Groves 13-13	Producer	NWSW	13	45	75	43.871671	-105.825644
Antelope 2P	Producer	NENW	13	45	75	43.872364	-105.824971
Antelope 3P	Producer	NWNE	13	45	75	43.872410	-105.822917
Antelope 4P	Producer	NENE	13	45	75	43.872457	-105.820858
Antelope 5P	Producer	SWNW	13	45	75	43.870701	-105.826992
Antelope 8P	Producer	SENE	13	45	75	43.870731	-105.821211
Antelope 9P	Producer	NWSW	13	45	75	43.869086	-105.826957
Antelope 12P	Producer	NESE	13	45	75	43.869439	-105.820993
Antelope 13P	Producer	SWSW	13	45	75	43.867469	-105.826924
Antelope 14P	Producer	SESW	13	45	75	43.867516	-105.824869
Antelope 15P	Producer	SWSE	13	45	75	43.867554	-105.822452
Groves 24-13	Producer	SESW	13	45	75	43.868056	-105.820709
Antelope 17P	Producer	NESW	13	45	75	43.869859	-105.824036

Well Name	Well Type	Quarter/Quarter	Section	Township (N)	Range (W)	Latitude	Longitude
Antelope 6J	Injector	NWSW	13	45	75	43.870830	-105.825190
Antelope 7J	Injector	NESW	13	45	75	43.870971	-105.822853
Antelope 10J	Injector	SWSW	13	45	75	43.869056	-105.825006
Antelope 11J	Injector	SESW	13	45	75	43.868885	-105.822728

**Table 3 (Area of Review – Public Land Survey Locations)**

Section (¼, ¼)	Section	Township	Range
SWSWSW	7	45N	74W
W 1/2 of the NWNW, NWSW, SWNW, and SWSW	18	45N	74W
NWNWNW	19	45N	74W
SESESE	11	45N	75W
S 1/2 of the SESE, SESW, SWSE, and SWSW	12	45N	75W
All	13	45N	75W
E 1/2 of the NENE, NESE, and the SENE	14	45N	75W
N 1/2 of the NENE, NENW, and the NWNE	24	45N	75W

**C. Water Supply Wells Within the Area of Review**

**Table 4 (State Engineer Office (SEO) Wells Within Project Area – Public Land Survey Locations)**

SEO Permit Number	Township (N)	Range (W)	Section	QTRQTR	Latitude	Longitude	Uses*
P117069W	45	75	13	NWSW	43.8718	-105.8256	CBM
P117072W	45	75	13	SESW	43.86819	-105.8207	CBM
P138044W	45	74	18	SWNW	43.87584	-105.8062	STO, CBM
P138063W	45	75	14	SENE	43.87549	-105.8307	STO, CBM
P138930W	45	75	13	NWNW	43.87926	-105.8258	STO, CBM
P138931W	45	75	13	SENE	43.87561	-105.8208	STO, CBM
P138932W	45	75	13	NWSE	43.87201	-105.8159	STO, CBM
P138933W	45	75	13	SENE	43.87578	-105.8111	STO, CBM
P138934W	45	75	13	SESE	43.86845	-105.811	STO, CBM
P138936W	45	75	13	NWNE	43.87938	-105.816	STO, CBM
P138938W	45	75	12	SESE	43.8831	-105.8111	STO, CBM
P153717W	45	75	12	SWSW	43.88297	-105.8259	CBM

\* CBM= Coal Bed Methane Well, STO=Stock Well

Note: The wells identified in **Table 4** are permitted and authorized by the Wyoming State Engineer's Office (SEO).

**D. Groundwater Classification**

The groundwater in the Big George coal seam of the Fort Union Formation is classified as Class III (Livestock) by use and quality according to *Wyoming Water Quality Rules and Regulations, Chapter 8*.

This classification is assigned because there are numerous permitted stock wells within the area of review. In addition, groundwater analyses from the Big George coal seam are indicative of Class III groundwater. Since the groundwater is classified as Class III, the water quality of groundwater within the Big George coal seam shall not exceed the permit limits established in **Table 5** and **Table 6**.

#### **E. Authorized Operations**

There are seventeen (17) wells at this facility, which are completed into the Big George coal seam. Thirteen (13) of the wells have been identified as "producing" wells, and four (4) have been identified as "injection" wells (see **Table 2**). This permit only allows injection into the four (4) wells identified in **Table 1**. The injection wells are located in the center of the project area, and are ringed by production wells. This permit prohibits injection into a well identified as a producing well in **Table 2** without express prior written consent by the Administrator.

This permit is valid for ten (10) years. Injection may occur only during the first five (5) years of the permit. After the cessation of injection operations, the Permittee shall perform post-injection monitoring and reporting for the remainder of the permit term. Should the first year of post-injection monitoring and reporting reveal no statistically significant change to groundwater water quality as determined by the Administrator, the permittee may petition the Administrator to reduce post-injection monitoring, modify the monitoring schedule, or to renew the permit.

An amendment mixture comprised of vitamins and minerals, multi-nutrients, cell vitality enhancers, tracers, and produced water (i.e. "injectate") will be added periodically. The amendment mixture is designed to support and encourage native microbes to produce methane.

The amendments shall only consist of those vitamins and minerals, multi-nutrients, tracers, and cell vitality enhancers as confidentially identified and provided to the Department, and only in concentrations or volumes equal to or less than those confidentially identified and provided to the Department as a requirement of the permit application. The permittee may only inject the amendments identified in the confidential submittal titled "Ciris Energy Inc. Trade Secrets Antelope Project UIC Permit Application" dated April 2, 2012 and received by the department on April 3, 2012. The permittee may not exceed the amendment concentrations identified in the confidential submittal titled "Ciris Energy Inc. Trade Secrets Antelope Project UIC Permit Application" dated April 2, 2012 and received by the department on April 3, 2012. Should the permittee desire to utilize injectate additives not identified in the confidential submittal titled "Ciris Energy Inc. Trade Secrets Antelope Project UIC Permit Application" dated April 2, 2012 and received by the Department on April 3, 2012, or to inject amendments at concentrations greater than those identified in the confidential submittal titled "Ciris Energy Inc. Trade Secrets Antelope Project UIC Permit Application" dated April 2, 2012 and received by the Department on April 3, 2012, the permittee must apply for and obtain a modification to the permit prior to adding additional amendments or increasing amendment concentrations.

The Permittee shall report all amendments added to the amendment mixture, the amounts or volumes added, determine their concentrations within the injectate, and sample the injectate.

The Permittee may not add any other chemical compound, microorganisms, anti-scalants, biocides, algaecides, or other amendments to the injectate without applying for a modification to this permit and obtaining authorization from the Administrator.

In the event the permittee exceeds any injectate or groundwater permit limitation, the permittee must immediately cease operations and determine the cause of the exceedance. Should the exceedance be

proven to the Administrator's satisfaction not to be the direct result of the permittee's injection activities, the permittee may be allowed to resume operations. However, the permittee may not resume operations in the event of shutdown due to permit limit exceedances without the express written consent of the Administrator.

Should a well shut in due to exceedances be re-worked or otherwise altered in an attempt to meet permit limits, the well may be brought back on-line and pumped only as long as necessary to collect a representative sample.

The Permittee is authorized to inject at a "maximum sustainable total water production" rate of 10,000 barrels per day (BPD). For operation and maintenance considerations, such as conducting mechanical integrity tests or well workovers, the Permittee may inject more than the indicated maximum injection rate indicated on **Table 1** on a temporary basis with prior written approval from the Administrator.

The Permittee is authorized to inject at the maximum surface pressures as indicated in **Table 1**.

Wells covered under this permit may not be removed from the requirements of the permit without prior approval from the Department. The Permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the wells covered by this permit.

The Permittee shall notify the Administrator in writing at the earliest opportunity, and verbally no less than 48 (forty-eight) hours prior to conducting workovers on any well Listed in **Table 2** of this permit so that a field inspection may be coordinated. Emergency operations can be performed as needed in the event such operations are needed to prevent loss of life or environmental damage. However, such operations may not occur if they will result in a violation of any permit limit or requirement.

An approved **Sampling and Analysis Plan (SAP)** that describes all injectate and groundwater sampling locations, sampling frequency, sampling constituents and parameters, equipment and procedures associated with sample collection, laboratory analysis, equipment decontamination, Quality Assurance/Quality Control, sample custody, data reporting, etc. from all sampled wells is required prior to commencement of injection.

The Permittee shall conduct an injection pressure falloff test for at least one of the injection wells identified in **Table 1** within the first year of operation.

Under no circumstances may the Permittee modify any requirements of this permit without express written approval from the Administrator.

#### **F. Hazardous Waste**

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

## **G. Proper Operation and Maintenance**

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

The injection wells covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapter 16, Section 10(p) with the exception of water disinfection.

The Permittee is required to operate in accordance with statements, representations and procedures presented in the complete permit application and supporting documents as accepted and approved by the Administrator. Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued. Injection into a well may not begin until construction is complete and the permit is approved.

## **H. Entry and Inspection**

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

## **I. Environmental Monitoring Program for Groundwaters of the State**

Groundwater within the project area is classified as Class III by use and chemistry.

Limits also apply to the injectate (See Section J.4.).

### **a. General Requirements:**

1. The Permittee shall use electronic data deliverable (EDD) reporting when required by the Administrator.
2. Records of monitoring information shall include:
  - i. The date, exact place, and time of sampling or measurements;
  - ii. The initials or name(s) of the individual(s) who performed the sampling or measurements;
  - iii. The date(s) analyses were performed;
  - iv. The time(s) analyses were initiated;
  - v. The initials or name(s) of the individual(s) who performed the analyses;

- vi. References and written procedures for the analytical techniques or methods used;
  - vii. The results of such analyses, including the bench sheets, laboratory reports, instrument readouts, computer disks or tapes, etc., used to determine these results.
3. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or the approved Sampling and Analysis Plan.
  4. All samples reported to the Administrator shall be unfiltered unless filtered samples are specified for the given analysis; turbidity should not exceed 20 NTUs. Samples shall be collected such that they are representative of produced water without further treatment. Sampling frequency may be reduced with the Administrator's approval. The constituents shall be analyzed by the methods listed in **Table 5** and **Table 6**.
  5. The Permittee shall report any noncompliance which may endanger health or the environment to the Administrator of the Water Quality Division within twenty-four (24) hours from the time the Permittee becomes aware of the circumstances. The report shall include:
    - i. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
    - ii. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
    - iii. A written submission shall be provided to the Administrator of the Water Quality Division within five (5) days of the time the Permittee 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.
  6. The Permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
  7. The Permittee shall notify the Administrator in writing at the earliest opportunity, and verbally no less than 48 (forty-eight) hours prior to conducting the mechanical integrity tests for each injection well, so that a joint field inspection may be coordinated between both parties.
  8. Sample collection of groundwater shall be of such frequency and of such variety (season, time, location, depth, etc.) to properly describe the groundwater, and shall be accomplished by the methods and procedures described in the U. S. Environmental Protection Agency manual RCRA Groundwater Monitoring Technical Enforcement Guidance Document, September, 1986, unless alternate methods and procedures are approved by the Administrator.

9. Analysis of all samples shall be accomplished pursuant to Chapter 8, Water Quality Rules and Regulations, Sections 7 and 8.

b. Groundwater and Injectate Monitoring Requirements:

1. The permittee submitted 9 separate baseline water quality analyses in their permit application. For many of the metals, the data submitted was “non-detect” in most of the samples. However, one of the submitted samples, for the “Groves 22-24” well, had considerably higher concentrations for lead, chromium, copper, and iron than the other samples that were submitted. To determine if this well sample represented an outlier, a statistical outlier test called “Dixon’s Test” was used. The “Dixon Test” was selected because it is typically used for small datasets (less than 25 samples) in which one outlier is suspected. This test indicated that for lead, chromium, and copper, the results for the “Groves 22-24” well were outliers, and they were omitted from the dataset. However, for iron, the results from the “Groves 22-24” well were determined not to be an outlier, and the results were used to establish an iron limit for this facility.

2. Non-Organic Constituents (Constituents Listed in **Table 5**):

- i. Groundwater samples are to be collected from all production wells on a quarterly basis. Samples shall be collected from all wells according to the schedule established in **Table 5** and for all constituents and parameters listed in **Table 5**. Sampling results shall be reported quarterly and in the annual water quality report described in Part I.c. of this permit. Failure to perform and report analyses in accordance with the prescribed schedule and method is a violation of this permit.
- ii. The permittee may, once two years’ worth of sampling data have been collected and reported, petition the Administrator to reduce the frequency of monitoring for any routinely-monitored constituent, or to remove any constituent from the list of routinely-monitored constituents for this facility. Under no circumstances may the permittee reduce monitoring for any constituent, or discontinue monitoring for any constituent without modification of this permit and the Administrator’s express written consent.

**Table 5 (Non-Organic Constituent Injectate and Groundwater Sampling Schedule)**

Sampling Schedule	Constituent Analyzed	EPA Analytical Method	Groundwater and Injectate Permit Limits (mg/L)
Quarterly (grab) Jan 1 – Mar 31 Apr 1 – Jun 30 Jul 1 – Sep 30 Oct 1 – Dec 31	Alkalinity (Dissolved Inorganic Carbon)	A2320 B	NA
	Aluminum	200.7	5.0 <sup>1</sup>
	Ammonia	350.1, 350.2, 350.3	30 <sup>2,3</sup>
	Arsenic	200.7, 200.8, 200.9	0.01 <sup>4</sup>
	Barium	200.7, 200.8	2 <sup>4</sup>
	Bicarbonate	A2320 B	NA
	Boron	200.7	5 <sup>1</sup>

	Bromate	300.0, 300.1	0.01 <sup>4</sup>
	Cadmium	200.7, 200.8, 200.9	0.005 <sup>4</sup>
	Calcium	200.7	NA
	Carbonate	A2320 B	NA
	Chloride	300	2000 <sup>1</sup>
	Chromium	200.7, 200.8, 200.9, 218.6	0.05 <sup>1</sup>
	Cobalt	200.7, 200.8, 200.9	1 <sup>1</sup>
	Conductivity	Field	NA
	Carbon 13 Isotope	Varies	NA
	Copper	200.7, 200.8, 200.9	0.5 <sup>1</sup>
	Fluoride	300.0, 300.1	4 <sup>1</sup>
	Iodine	4500	NA
	Iron	200.7, 200.9	NA <sup>1</sup>
	Lead	200.7, 200.8, 200.9	0.055 <sup>5</sup>
	Magnesium	200.7	NA
	Manganese	200.7, 200.8, 200.9	NA <sup>1</sup>
	Mercury	245.1, 245.2, 245.7	0.00005 <sup>1</sup>
	Nickel	200.7, 200.8, 200.9	NA <sup>1</sup>
	Nitrate	300.0, 300.1	10 <sup>4</sup>
	Nitrite	300.0, 353.2	1 <sup>4</sup>
	pH	Field	>6.5 & <8.5 <sup>1</sup>
	Potassium	200.7	NA
	Residual Sodium Carbonate	Calculation	NA
	Selenium	200.7, 200.8, 200.9	0.05 <sup>1</sup>
Quarterly (grab) Jan 1 – Mar 31 Apr 1 – Jun 30 Jul 1 – Sep 30 Oct 1 – Dec 31	Sodium	200.7	NA
	Sulfate	300.0, 300.1	3000 <sup>1</sup>
	Hydrogen Sulfide	A4500 S-D	NA <sup>1</sup>
	Total Dissolved Solids	A2540 C	5000 <sup>1</sup>
	Total Organic Carbon	A5310C	NA
	Turbidity	Field	NA
	Vanadium	200.7, 200.8	0.1 <sup>1</sup>
	Zinc	200.7, 200.8	25 <sup>1</sup>
	Injection Volume	Flow meter	2,500 BPD/well
	Injection Pressure	Gauge	65 psig
	Produced Water Volume	Flow meter	Per Report (barrels/day/well)

<sup>1</sup>Limit based on *Wyoming Water Quality Rules and Regulations, Chapter 8, Table I.*

<sup>2</sup>Limit based on 2012 Edition of EPA's "Drinking Water Standards and Health Advisories" Health Advisory (HA).

<sup>3</sup>Limit based on "Water Quality for Wyoming Livestock & Wildlife, A Review of the Literature Pertaining to Health Effects of Inorganic Contaminants, M. F. Raisbeck, PhD, DVM et. al., 2008."

<sup>4</sup>Limit based on 2012 Edition of EPA's "Drinking Water Standards and Health Advisories" Maximum Contaminant Level (MCL).

<sup>5</sup>Limit based on background water quality data presented in permit application.

<sup>6</sup>Limit based on EPA's Drinking Water Equivalent Levels (DWEL) from the "Drinking Water Standards and Health Advisories" Tables.

All chemical concentrations in this permit are expressed in mg/L unless otherwise noted. pH is always expressed in standard units.

- iv. All samples collected to meet groundwater monitoring requirements shall be analyzed by an independent, third-party EPA certified laboratory.
- c. Total Organic Carbon "Triggers"
- i. Total Organic Carbon (TOC) samples will be collected as specified in Section I.b.1 of this permit. Should any production well (**Table 2**) or monitoring well (**Table 7**) TOC sample have a TOC concentration of 10 mg/L or greater in any one sample; that well shall be re-sampled for TOC within one week of receipt of TOC sample results.
  - ii. Should the second confirmatory sample also have a TOC concentration of 10 mg/L or greater, that well shall be sampled for the full list of organic constituents listed in **Table 6** within one week of receipt of TOC sample results.
  - iii. All TOC sampling and any resultant organic suite sampling conducted as the result of TOC concentrations at or exceeding 10 mg/L will be discussed in the annual report for this facility.
- d. Organic Constituents (Constituents Listed in **Table 6**)
- i. Groundwater samples from all wells capable of producing water shall be collected and analyzed for all organic constituents listed in **Table 6** prior to commencement of any injection activities at this facility to characterize the background concentrations of these constituents in the groundwater. Once injection commences at this facility, groundwater samples from all wells capable of producing water shall be collected within one year of commencement of injection and analyzed for all organic constituents listed in **Table 6**. The pre-injection and post-injection concentrations of all organic constituents will be compared in that year's annual report. Once the second set of organics sampling has occurred, the permittee will then collect additional samples for all constituents listed in **Table 6** on an annual basis during the second calendar quarter (April 1- June 30) for all wells.
  - ii. The permittee may, once two years' worth of sampling data have been collected and reported, petition the Administrator to reduce the frequency of monitoring for any routinely-monitored constituent, or to remove any constituent from the list of routinely-monitored constituents for this facility. Under no circumstances may the permittee reduce monitoring for any constituent, or discontinue monitoring for any constituent without modification of this permit and the Administrator's express written consent.

**Table 6 Organic Constituent Injectate and Groundwater Sampling Schedule**

Sampling Schedule	Constituent Analyzed	EPA Analytical Method	Groundwater Permit Limit (mg/L)
Once prior to injection, Once within one year of commencement of injection, and Annually thereafter	1,2,4-trimethylbenzene	524	NA
	1, 3, 5-trimethylbenzene	524	NA
	Acenaphthene	8270	2 <sup>1</sup>
	Acetone	524	NA
	Anthracene	8270	10 <sup>2</sup>
	Benzo-a-anthracene	8270	NA
	Benzene	524	0.005 <sup>1</sup>
	Benzo-a-pyrene	8270	0.0002 <sup>1</sup>
	Benzo-b-fluoranthene	8270	NA
	Benzo-g,h,i-perylene	8270	NA
	Benzo-k-fluoranthene	8270	NA
	Chrysene	8270	NA
	Dibenzo-a,h-anthracene	8270	NA
	Diethyl phthalate	8270	30 <sup>2</sup>
	Dibutyl phthalate	8270	4 <sup>2</sup>
	Ethylbenzene	524	0.7 <sup>1</sup>
	Fluorene	8270	1 <sup>2</sup>
Once prior to injection, Once within one year of commencement of injection, and Annually thereafter	Indeno-1,2,3,c,d-pyrene	8270	NA
	Isophorone	8270	7 <sup>2</sup>
	Isopropylbenzene	524	4 <sup>2</sup>
	Xylenes (total)	524	10 <sup>1</sup>
	Naphthalene	524	0.7 <sup>2</sup>
	n-butylbenzene	524	NA
	n-propylbenzene	524	NA
	Phenanthrene	8270	NA
	Pyrene	8270	NA
	Sec-butylbenzene	524	NA
Styrene	524	0.1 <sup>1</sup>	
Tert-butylbenzene	524	NA	

<sup>1</sup>Limit based on 2012 Edition of EPA's "Drinking Water Standards and Health Advisories" Maximum Contaminant Level (MCL)

<sup>2</sup>Limit based on 2011 Edition of EPA's "Drinking Water Standards and Health Advisories" Drinking Water Equivalent Level (DWEL)

All chemical concentrations in this permit are expressed in mg/L unless otherwise noted. pH is always expressed in standard units.

e. Groundwater and Injectate monitoring reporting requirements:

1. The results (laboratory results) of groundwater and injectate monitoring shall be reported quarterly in the UIC GEM database, and copies of laboratory reports uploaded to GEM within forty-five (45) days of the sample date.
2. The Permittee shall provide two (2) annual water quality summary reports to the Administrator, one hard copy and one in a digital format. The reports shall contain the following minimum information:
  - i. well names;
  - ii. name of coal seam sampled;
  - iii. API numbers;
  - iv.  $\frac{1}{4}$   $\frac{1}{4}$ , Section, Township, Range location of each production well;
  - v. water quality sample date;
  - vi. water quality analysis date;
  - vii. detection limits;
  - viii. EPA methods;
  - ix. water quality analytes (sorted alphabetically);
  - x. water quality results (mg/L), including copies of the laboratory reports;
  - xi. produced water volumes;
  - xii. injection rates and volumes;
  - xiii. dates describing when wells were injecting, producing, or idle;
  - xiv. permit limits; and
  - xv. laboratory reports and data sheets.
3. Reports shall include explanations of permit compliance or non-compliance.
4. Should a permit limit in **Table 5** or **Table 6** be exceeded, the report shall also describe the reporting mechanisms that were undertaken, and the permittee's investigation into the causes of the exceedances and efforts to prevent such exceedances in the future.
5. Reports shall include time-series graphs of parameter concentrations on the X-axis and sample dates on the Y-axis with plots of permit limits superimposed on the X-axis.
6. Reports shall include test data and analysis of all pressure falloff and MIT tests completed during the reporting period. Other report formats may be submitted with prior approval from the Administrator.
7. If a well is dry at the time of sampling, the permittee shall report the well as dry.

f. Monitoring Well monitoring requirements:

1. Prior to injecting any amendments, the Permittee shall collect an initial sample from the monitoring wells listed in **Table 7** for laboratory analysis, and semi-annually thereafter, in accordance with **Table 8**.

**Table 7 (Monitoring Well Locations)**

Well Name	API Number	Well Depth (feet)	Quarter/Quarter	Section	Township	Range
Groves 44-14	49005353050000	1169	SESE	14	45N	75W
Groves 22-13	49005467110000	1286	SENE	13	45N	75W
Groves 11-24	49005356260000	1221	NWNW	24	45N	75W
Groves 44-13	49005467160000	1354	SESE	13	45N	75W
Groves 42-14	49005465670000	1192	SENE	14	45N	75W

**Table 8 (Monitoring Well Monitoring Schedule)**

Sampling Schedule	Constituent Analyzed	EPA Analytical Method
Semiannual (grab) Jan 1 – June 30 Jul 1 – Dec 31	Alkalinity (Dissolved Inorganic Carbon)	A2320 B
	Ammonia	350.1, 350.2, 350.3
	Arsenic	200.7, 200.8, 200.9
	Bicarbonate	A2320 B
	Calcium	200.7
	Carbon 13 Isotope	Varies
	Carbonate	A2320 B
	Chloride	300.0
Semiannual (grab) Jan 1 – June 30 Jul 1 – Dec 31	Conductivity	Field
	Iron	200.7, 200.9
	Magnesium	200.7
	Manganese	200.7, 200.8, 200.9
	Nickel	200.7, 200.8, 200.9
	Nitrate	300.0
	Nitrite	300.0
	pH	Field
	Potassium	200.7
	Residual Sodium Carbonate	Calculation
	Selenium	200.7, 200.8, 200.9
	Sodium	200.7
	Sulfate	300.0
	Hydrogen Sulfide	A4500 S-D
	Total Dissolved Solids	300.0
	Total Organic Carbon	5310C
Turbidity	Field	
Zinc	200.7, 200.8	

2. All samples collected from monitoring wells shall be analyzed by an independent, third-party EPA certified laboratory.

g. Monitoring Well Requirements:

1. The results of monitoring well sampling (laboratory results) for all wells listed in **Table 7** shall be reported quarterly in the UIC GEM database, copies of laboratory reports uploaded to GEM, and copies of laboratory reports provided to the well owner(s) within forty-five (45) days of the sample date.
2. The Permittee shall provide two (2) annual water quality summary reports to the Administrator, one hard copy and one in a digital format.
3. The reports shall be separate and specific from the groundwater monitoring and injectate reports described in Part I.c. and Part J.b. of the permit. The reports shall include the following:
  - i. A list of all monitoring wells that were sampled during the semiannual reporting period.
  - ii. The results of water quality analyses, including:
    - A. water quality sample date;
    - B. water quality analysis date;
    - C. detection limits;
    - D. EPA methods;
    - E. water quality analytes (sorted alphabetically); and
    - F. water quality results (mg/L), including copies of the laboratory reports.
  - iii. Well information, including:
    - A. well depths, if available publicly;
    - B. SEO permit number;
    - C. well name;
    - D.  $\frac{1}{4}$   $\frac{1}{4}$ , Section, Township, Range;
    - E. completed formation and/or perforated intervals, if available publicly; and
    - F. water levels, if available publicly.
  - iv. Analysis of sampling results, including:
    - A. A comparison of the current semiannual reporting period's results to previous results for each monitoring well sampled.
    - B. If a well that has been previously sampled was not sampled during the current semiannual reporting period, a description of why the well was not sampled.
4. The Permittee shall immediately notify the Administrator of potential water quality issues presented by a valid State Engineer Office (SEO) water well permit holder within the area of review (**Table 3**) or within  $\frac{1}{2}$  (one-half) mile of an injection or production well listed in **Table 2** of this permit.
5. The Permittee shall immediately notify the Administrator and SEO water well permit holder of

potential water quality issues encountered with any SEO-permitted water well.

## J. Requirements for Monitoring the Discharge

“Injectate” is a mixture of amendments consisting of vitamins and minerals, multi-nutrients, cell vitality enhancers, and produced water. For the purposes of this permit, “injectate” does not refer to amendments that have not been diluted with produced water.

### a. Injectate sampling requirements:

1. The Permittee shall meter volumes of all injectate emplaced into each well.
2. The permittee must report the specific vitamins and minerals, multi-nutrients, cell vitality enhancers, tracers, and produced water used to make up the injectate, the amounts or volumes of each amendment, the concentration of each amendment in the injectate, and the rate of injectate injection into the well.

Due to the nature of some of the amendments, it is acceptable to calculate concentrations based upon known volume or weight of these amendments per unit volume of “make-up” or produced water and report these values to the Administrator. The permittee is required to describe how each amendment’s concentration in the injectate was determined.

3. Amendments are incorporated into the injectate by a continuous-feed system. The injectate sampling required by this permit shall occur at a sample withdrawal port located downstream of the injection port, and is to be representative of the amendments and produced water.

Injectate sampling shall occur once per quarter. The Permittee is required to sample the injectate for all constituents listed in **Table 5 and Table 6**. Sample results and laboratory reports shall be reported and uploaded quarterly into the UIC GEM database within forty-five (45) days of the sample date, and in the annual water quality report described in Part J.b. of this permit.

4. Injectate quality shall not exceed injectate limits established in **Table 5 or Table 6** during any single sampling event at the point of injection for any constituent.
5. Only one injectate sample per monitoring period is required to be collected and analyzed for all constituents listed in **Table 5 and Table 6**.
6. All samples reported to the Administrator shall be unfiltered unless filtered samples are specified for the given analysis; turbidity shall not exceed 20 NTUs unless otherwise approved by the Administrator. Samples shall be collected such that they are representative of injectate without further treatment.
7. All samples collected to meet injectate sampling requirements shall be analyzed by an independent, third-party EPA certified laboratory.

### b. Injectate reporting requirements:

1. The results (laboratory results) of injectate sampling shall be reported quarterly in the UIC GEM database, and copies of laboratory reports and analyses uploaded to GEM within thirty (45) days of the sample date.
2. The Permittee shall provide two (2) annual water quality summary reports to the Administrator, one hard copy and one in a digital format. Amendment reports will be held confidential by the Administrator.
3. The reports shall contain the following minimum information:
  - i. injection well names;
  - ii. name of coal seam being injected into;
  - iii. API numbers;
  - iv.  $\frac{1}{4}$   $\frac{1}{4}$ , Section, Township, Range location of each injection well;
  - v. injectate quality sample date;
  - vi. injectate quality analysis date;
  - vii. detection limits;
  - viii. EPA methods;
  - ix. injectate quality analytes (sorted alphabetically);
  - x. injectate quality results (mg/L);
  - xi. injection volumes;
  - xii. injection pressures;
  - xiii. injection rates;
  - xiv. beginning and end dates of all well nutrient restorations;
  - xv. permit limits.

#### **K. Test Procedures**

All samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity and in accordance with an approved Sampling and Analysis Plan. All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

#### **L. Records and Reports**

The Permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The Permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Reports of compliance or noncompliance with, and any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted no later than thirty (30) days following each schedule date.

Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the Permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the

noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance.

Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above.

#### **M. Permit Actions**

This permit is issued for a period of ten (10) years. Injection may occur only during the first five (5) years of the permit.

If the permittee wishes to continue injection after the five (5) year injection duration of this permit, the permittee shall apply to the Administrator and obtain a new permit prior to the expiration date of this permit. An expired permit continues in effect until a new permit is issued or the permit is terminated by the Administrator. It shall not be a defense for the Permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the Permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

1. Violation of this permit;
2. Obtaining a permit by misrepresentation of facts in the application; or
3. Failure of the tubing, casing, cement, or confining layers.

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

#### **N. Mechanical Integrity**

Mechanical integrity shall be maintained continuously.

The following Part I mechanical integrity tests are required for each injection well identified in **Table 1** on a five (5) year basis, as long as injection is occurring during the life of this permit (once in 2012 and once in 2017) as follows:

1. The Permittee may not exceed 65 psig (measured at the surface) injection pressure in the wellbores (unless for testing purposes). The Permittee shall pressure test the casing

before injection and at least once every five (5) years. The casing shall be pressure tested up to an indicated surface pressure of 700 psig and held for 15 minutes. A passing test shall show that there is less than a 10 psig pressure loss after 15 minutes at 700 psig. The Administrator may eliminate the requirement for pressure testing if he/she determines wireline methods are deemed adequate.

## **O. Abandonment or Conversion to Water Wells**

### General Requirements:

1. The Permittee shall notify the Administrator at least seven (7) days before conversion or abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. 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.
4. Injection wells covered by this permit shall be permanently abandoned or converted to another use within three (3) years after the date when coal bed methane water was last injected unless those wells are converted to water wells.
5. Wells which are to be converted to another use shall be covered by an approved Wyoming State Engineer Office's permit to document that it has been converted to a water well. A copy of this permit shall be submitted to the Administrator as evidence that the well has been converted.

## **P. Duties of the Permittee**

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

## Q. Signatories Requirement

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

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

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

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:

1. The authorization is made in writing by one of the prescribed principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the Administrator.

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

## R. Noncompliance

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

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

**S. Permit Transfer**

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

**T. Property Rights**

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

**U. Severability**

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

**END OF PERMIT**

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-004

REFERENCE PERMIT NO. N/A

Black Hills Power Light / Neil Simpson Plant  
Finished Water Storage  
PWS WY5600135

This permit hereby authorizes the applicant:

Gregory L. Hager, General Manager  
Black Hills Power  
13151 Highway 51  
Gillette, WY 82718

to construct, install, and/or modify the Black Hills Power Light / Neil Simpson Plant PWS No:5600135P Finished Water Storage, including construction of three water storage tanks and associated new water lines according to the procedures and conditions of the application number 12-004. The facility is located in the SW ¼ of Section 22, Township 50 North, Range 71 West, further located in Campbell County, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2013.

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

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

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

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

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

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

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

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

1 of 4

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

2 of 4

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

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

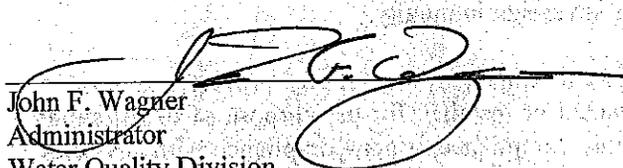
3 of 4

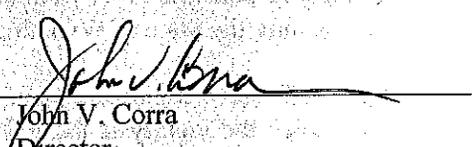
Within thirty days of completion of construction of the authorized facility, the Engineer of Record will submit two (2) complete copies of the Operation and Maintenance Manuals to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY 82601.

4 of 4

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

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

3-7-12  
Date of Issuance

JRV/rm/12-0154

cc: Edward S. Scott, P.E., Consolidated Engineers, Inc., 316 S. Gillette Avenue, P.O. Box 1035, Gillette, WY 82717

## STATEMENT OF BASIS

1. Permit Number: **12-004**
2. Application reviewed for compliance with the following applicable regulations :  
Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?  
  
NO, CHAPTER 12, SECTION 13(a)(vii) REQUIRING MANHOLES TO HAVE A MINIMUM INSIDE OPENING DIAMETER OF 24 INCHES. THE SYSTEM CONSISTS OF THREE 5,000 GALLON TANKS WITH 24 INCH MANWAY LIDS AND 22 INCH DIAMETER OPENINGS.
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.  
  
DUE TO THE SIZE OF THE TANKS, CLEANING WILL TAKE PLACE FROM THE OUTSIDE. TANK ENTRY WILL BE DISCOURAGED DUE TO CONFINED SPACE CONCERNS. BECAUSE OF THE RELATIVELY LOW COST OF THE TANK, IF MAJOR MAINTENANCE IS REQUIRED THE TANK WILL BE REPLACED.
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Jason Vreeland, P.E., and completed on March 6, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 24, 2012

Nathan Beauheim, Assistant City Engineer  
City of Cheyenne  
2101 O'Neil Ave.  
Cheyenne WY 82001

RE: Prairie View Golf and Okie Blanchard Sanitary Sewer Main  
Application No. **12-005**, Laramie County

Dear Mr. Beauheim:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as installation of approximately 1935 feet of 8 inch SDR 35 sanitary sewer main, installation of approximately 322 feet of 4 inch SDR 35 sanitary sewer main, and install seven new manholes, SE ¼, Section 28; T14N R 66W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by January 24, 2014.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path: [http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp). Please reference Application No. **12-005** in any future correspondence.

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

Sincerely,

Richard R. Cripe PE  
Southeast District Engineer  
Water Quality Division

RRC/rm/12-0040

Enclosure: Certificate of Completion

cc: IPS, Cheyenne  
Jeffrey J. Griggs, AVI, 1103 Old Town Lane, Suite 101, Cheyenne, WY 82009  
Herman Noe, Cheyenne Board of Public Utilities, P.O. Box 1469, Cheyenne WY 82003





# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 24, 2012

City of Laramie  
Katharine Trowbridge, Project Manager  
P.O. Box C  
Laramie, WY 82070

RE: City of Laramie, SPT Phase 1, Schedule 4 Project  
Application No. **12-006**, Albany County

Dear Katharine Trowbridge:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as installation approximately 30 ft of 4 inch water main, installation approximately 30 ft of 6 inch water main, installation of approximately 4400 feet of 36 inch PVC sanitary sewer main, installation of approximately 630 feet of 24 inch PVC sanitary sewer main, installation of approximately 30 feet of 8 inch PVC sanitary sewer main installation of approximately 34 feet of 4 inch PVC sanitary sewer main, installation of 1 (48 inch) new manhole, installation of 13 (72 inch) new manholes, installation of 4 (96 inch) new manholes, installation of 1 (6' x 10') concrete vault, installation of 1 (7' x 10') concrete vault, NE ¼, Section 29, T16N R 73W; Albany County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by January 24, 2014.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path: [http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp). Please reference Application No. **12-006** in any future correspondence. If you have any questions, please contact me at 307-777-7075.

Sincerely,

Richard R. Cripe PE  
Southeast District Engineer  
Water Quality Division

RRC/rm/12-0043

Enclosure: Certificate of Completion

cc: IPS, Cheyenne  
Nancy Roof, AMEC Earth and Environmental, Laramie, WY 82070





# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 13, 2012

Eric Witmer  
P.O. Box 764  
Rawlins, WY 82301

RE: Witmer Residential Septic System,  
Location: NE $\frac{1}{4}$  SW $\frac{1}{4}$ , Section 18, T21N, R87W,

Application No. **12-007**  
Carbon County

Dear Mr. Witmer:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1250 gallon, two compartment, concrete septic tank discharging into about 280 feet of chamber type trench leachfield divided into four equal length trenches of about 70 feet each for a **5 bedroom house** in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 25 of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O. of the general permit. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway **from each compartment of the septic tank must be extended to the ground surface.**
2. Minimum Leachfield Size Requirement - an error was made in the calculation of the leachfield size resulting in too small of a leachfield. Therefore, **the minimum leachfield size shall be at least 66 "Infiltrator" brand, Quick4EQ36 model chamber units.**

The approval granted under this Notification Of Coverage and the General Permit shall expire on January 13, 2014. Please reference Application Number **12-007** in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or by phone at (307) 777-6183.

Sincerely,

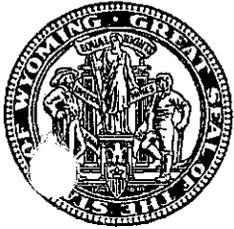
Ronald L. Ewald  
Assistant Southeast District Engineer  
Southeast District, Water & Wastewater Section  
Water Quality Division

RLE/rm/12-0034

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

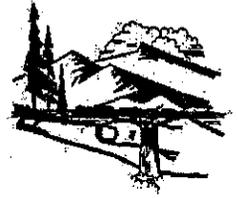
cc: IPS, Cheyenne  
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West  
Buffalo Street, Suite 336, Rawlins, Wyoming 82301





# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

February 24, 2012

Jerry Petty, Mayor  
Town of Bar Nunn, WY  
4820 N. Wardwell Industrial Avenue  
Bar Nunn, WY 82601

RE: Bar Nunn Wardwell Industrial Avenue Sanitary Sewer – Upgrade 2012, Natrona County,  
WDEQ #12-008

Mayor Petty:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems in accordance with Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the facility(ies) in accordance with the general permits and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

This permit will expire December, 2013. Please contact this office if a time extension is needed in order to complete this project

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.  
Northeast District Engineer, Water Quality Division

Enclosures: Certificate of Completion

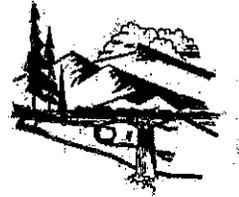
cc: William D. Johnston, P.E., Partner's Engineering, P.O. Box 941, Casper, WY 82602  
IPS, Cheyenne  
Casper WDEQ File





# Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

February 7, 2012

William Johnston, P.E.  
Partner's Engineering, Inc.  
P.O. Box 941  
Casper, WY 82602

RE: Bar Nunn Wardwell Industrial Avenue Sanitary Sewer Upgrade 2012  
Location: NE ¼ Section 17, T. 34 N, R. 79 W, Natrona County, WY  
WDEQ Application #12-008

Dear Mr. Johnston:

We have completed our review of the permit application submitted on January 5, 2012. Attached you will find a summary of the review comments. Please provide the information requested as soon as possible. Please feel free to contact either Jason at (307) 473-3469 or Karen at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

Jason Vreeland, P.E.  
Assistant Northeast District Engineer  
WDEQ/WQD

Karen L. Farley, P.E.  
Northeast District Engineer  
WDEQ/WQD

Attachments: WDEQ Comments

cc: Jerry Petty, Town of Bar Nunn, WY, 4820 North Wardwell Industrial Avenue, Bar Nunn, WY 82601  
IPS  
WDEQ File



**REVIEW OF PLANS & SPECIFICATIONS**  
**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**WATER QUALITY DIVISION**  
**152 North Durbin Street, Suite 100**  
**Casper, Wyoming 82601**  
**Phone (307) 473-3465**

**PROJECT:** Bar Nunn Wardwell Industrial Avenue Sanitary Sewer Upgrade

**LOCATION:** Natrona County, Wyoming

**ENGINEER:** Partner's Engineering, Inc.

**APPLICANT:** Town of Bar Nunn

**WATER QUALITY DIVISION APPLICATION NUMBER:** 12-008

**DATE ON PROPOSAL/PLANS/REPORT:** December 28, 2011

**DATE RECEIVED BY DEQ:** January 5, 2012

**DATE OF THIS REVIEW:** February 7, 2012

**WDEQ REVIEWER:** Jason Vreeland, P.E., Karen L. Farley, P.E.

**ACTION:** **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Chapter 3, Section 14 (a), Wyoming Water Quality Rules and Regulations (WWQRR), the application is denied because it is incomplete and/or contains errors. Please address the comments outlined below and submit the requested information/clarifications in order that the application process may be completed in accordance with Chapter 3, Section 9 of the WWQRR. If the applicant fails to provide the requested information within six months, the incomplete application shall be returned. **This review may not include all deficiencies and shall not be construed as a complete comprehensive list.**

**WDEQ COMMENTS**

- 1) WWQRR Chapter 11, Section 6(a) – Please clearly state the scope and purpose of the project including problems and the proposed solution. It is understood that the primary reason is to eliminate the “bottle-neck” that exists, but it is also stated in the design report that Bar Nunn wishes to “...construct a street connecting Wardwell Industrial Avenue where the current pavement ends near Red Deer Trail to McMurry Boulevard.” What is the correlation between the two projects?

- 2) WWQRR Chapter 11, Section 6(a)(iii) – Please revise the design report to include downstream impacts on existing sewers including the capacity of the downstream facilities.
- 3) WWQRR Chapter 11, Section 7(b) – The plan set is very difficult to follow due to line styles and colors, lack of a detailed legend that clearly defines all line types and colors used in the drawings, lack of plan view stationing and topographic features, and general drafting. Please address.
- 4) WWQRR Chapter 11, Section 7(b) (iv) – Please show the locations of ALL water crossings in the profile view and identify any issues that may need to be addressed during construction.
- 5) WWQRR Chapter 11, Section 7(b) – Please provide a cross-section of the sewer's bedding.
- 6) WWQRR Chapter 11, Section 9(c)(i)(D) – Please provide velocities for the proposed sections of sanitary sewer.
- 7) WWQRR Chapter 11, Section 9(d) – Please clearly identify which manholes are to remain and which are to be replaced. If they are to remain, please provide confirmation that they are of adequate size and are in good enough condition to be reused.
- 8) Sheet 4 – Are the lines shown tying in at the existing manhole actual service lines? If so, they cannot tie directly into the manhole; service lines must be tied in using a wye or a saddle on the main collection line. If not, then please indicate the pipe sizes on the drawing and show inverts.
- 9) Sheet 4 – MH 22.5 has an incorrect top elevation shown – please address.
- 10) Are these collection lines owned and operated by Wardwell Water and Sewer District? If so, please have them provide a letter of acceptance for the project.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-010

CHEYENNE LEADS BUILDING WELL  
PWS Not Assigned

This permit hereby authorizes the applicant:

Cheyenne Leads  
P. O. BOX 1045  
Cheyenne, WY 83003

to construct, install or modify a Drilling, Construction, Developing and Testing one new well for future use as part of public water system according to the procedures and conditions of the application number 12-010. The facility is located adjacent to Interstate 25 in NW ¼ NE ¼ Section 33, T13N R67W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed January 24, 2014.

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

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

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

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

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

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

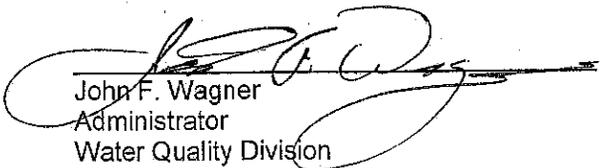
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit.

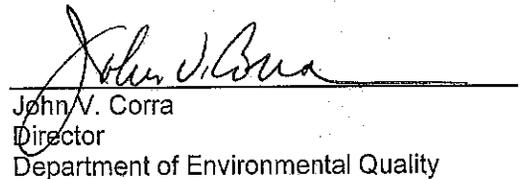
This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7075, FAX 307-777-7610, 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 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".
4. Separate permits to construct will be required for the improvements necessary to the well to supply water to a public water system.
5. The applicant will perform yield and drawdown tests in accordance with Chapter 12, Section 9(b) (ii). Results of these tests are to be provided with the Certificate of Completion.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

Date of Issuance 1-26-12

RRC/rm/12-0045

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

## STATEMENT OF BASIS

1. Permit Number: **12-010**
2. This application was reviewed for compliance with the applicable regulations ;  
Chapters 3, 12
3. Does the permit comply with all applicable regulations identified above?  
Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.  
Public water supplies are exempted from review by Chapter 3, Section 17.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe P.E., Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on January 25, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 26, 2012

Converse County School District No. 1  
Dan Espeland, Superintendent of Schools  
615 Hamilton  
Douglas, WY 82633

RE: Douglas Upper Elementary School, Water and Sewer  
Application No. 12-011, Converse County

Dear Mr. Espeland:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems and or Existing Sewage Collection Systems described as installing approximate 450 LF of 4 inch water main, installing approximate 320 LF of new 6 inch Sanitary Sewer, NE ¼ NW ¼; Section 8, T23N R 71W; Converse County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by January 26, 2014.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path: [http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp). Please reference Application No. 12-011 in any future correspondence.

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

Sincerely,

Richard R. Cripe PE  
Southeast District Engineer  
Water Quality Division

RRC/rm/12-0047

Enclosure: Certificate of Completion .

cc: IPS, Cheyenne  
Jason L. Meyers, WLC, 200 Pronghorn, Casper WY 82601



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
ROAD APPLICATION PERMIT

X New  
Renewal  
Modified

PERMIT NO. 12-012  
SPECIAL CONDITIONS

Bentonite Performance Minerals  
Road Application

This permit hereby authorizes the applicant:

Bentonite Performance Minerals, LLC  
P.O. Box 547  
Lovell, WY 82431

to road apply approximately 10,000 gallons of wash rack water per year, at a rate not to exceed 1500 gallons per mile, according to the procedures and conditions of application number 12-012. The application site is located in portions of Sections 4, 9, 16, 21, 28, 33, 34, and 35, Township 55 North, Range 93 West, in the county of Big Horn, in the State of Wyoming. The application site is located near Lovell, Wyoming. This permit shall be effective until November 1, 2017.

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 disposal method described 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 activity. The permittee, owner and/or operator are solely responsible for any liability arising from the waste disposal permitted. 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.

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.

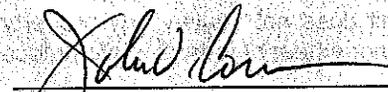
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 10 The permittee shall notify representatives from the DEQ/WQD at least 48 hours prior to the application of water. The authorized representative in your area can be contacted at the following address: DEQ/WQD, Casper WDEQ Field Office, 152 North Durbin Street, Suite 100, Casper, WY 82604, telephone (307) 473-3452; FAX (307) 473-3458.
- 2 of 10 The permittee shall provide immediate oral and/or written notice to the Casper WDEQ Field Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications to the approved permit package.
- 3 of 10 The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Casper WDEQ Field Office on the attached Certification of Completion form.
- a. Date that the road application was completed; and\*
  - b. Certification the road application was done in accordance with the terms and conditions of the permit; or
  - c. Certification the road application was completed with changes or modifications. Submit the information necessary to clearly indicate the road application as actually performed.
- 4 of 10 The review and approval of this permit is based upon the items identified in the attached Statement of Basis.
- 5 of 10 The wash rack water shall not be applied during the period from November 1 to April 10.
- 6 of 10 The application site slope shall not exceed eight percent (8%) for vehicular application.
- 7 of 10 Application of wash rack water shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 8 of 10 Only the roads designated in this permit are authorized for application of the wash rack water. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the WQD.
- 9 of 10 The water will be sampled and analyzed prior to initial application, then on an annual basis. The laboratory results must be submitted to WDEQ within 30 days of receiving the results.
- 10 of 10 An annual report will be submitted to this office by January 1 of each year. The report will include a copy of the wash water analytical results, a list of the date when water was applied and the amount of water which was applied. The annual report will also include a map showing the roads which had received water for the past year.

AUTHORIZED BY:

  
for John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

1-13-12  
Date of Issuance

KJM/rm/12-0029

STATEMENT OF BASIS

I. General information.

A. Permit Number: 12-012

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

A. Chapter XI. No

B. Chapter XII. No

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

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

No

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

No

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

No

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

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

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

B. Briefly state the basis for the deviation.

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

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

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

District Policy 10.2 (10/17/86)

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

NA

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

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 opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the wash water onto the roadbed. Repeated applications of wash water on the same sections of road will be monitored by roadbed analyses.

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

NA

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

NA

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

NA

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

NA

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

NA

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

NA

VII. Documentation of Statement of Basis.

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

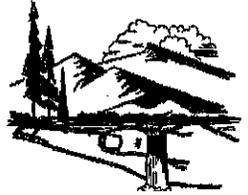
#### CERTIFICATION

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 Kim Medina, Project Geologist, and completed on January 12, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

February 10, 2012

Cheyenne Regional Medical Center  
Attn: David W. Squires, Senior VP  
214 e. 23<sup>rd</sup> Street  
Cheyenne, Wyoming 82001

RE: CRMC Parking Garage Utility Improvements,  
Location: NE¼, Section 31, T14N, R66W,

Application No. **12-013**  
Laramie County

Dear Mr. Squires:

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 consisting of abandoning in-place 4-inch water main in 25<sup>th</sup> Street between Warren & House Avenues and replacing with new 8-inch PVC water main, one new fire hydrant, reconnect 6 existing water services to the new main, and install a new 1.5-inch water service to CRMC garage 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, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Additions to Wyoming Public Works Standard Specifications for Waterline Construction:
  - a. Section 2665 E.6 - Water tight plugs shall be maintained in all pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.
  - b. Section 2675 D - Flushing shall achieve minimum velocities of at least 5 feet per second for pipelines 12 inches in diameter or less. Flushing shall be through flush valves and a discharge pipe to the surface. Fire hydrants shall not be flushed until after the water main or distribution line is flushed.



The approval granted under this Notification Of Coverage and the General Permit shall expire on February 10, 2014. Please reference Application Number 12-013 in any future correspondence.

If you have any questions, please contact me at [rewald@wyo.gov](mailto:rewald@wyo.gov) or (307) 777-6183.

Sincerely,



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

RLE/rm/12-0087

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

cc: IPS, Cheyenne  
Erin M. Gates, BenchMark Engineers, P.C., 1920 Thomes Avenue, Suite 620,  
Cheyenne, Wyoming 82001  
Herman Noe, Cheyenne BOPU, Engineering Manager, 2406 Snyder Avenue,  
Cheyenne, Wyoming 82001



# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 31, 2012

City of Laramie  
Attn: Cal Van Zee, Utility Division Manager  
P.O. Box C  
Laramie, Wyoming 82073

RE: Grand Ave. & 30<sup>th</sup> St. Intersection Water Main Replacement,  
Location: SW¼, Section 35, T16N, R73W,

App. No. 12-014  
Albany County

Dear Mr. Van Zee:

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 consisting of replacement of 354 feet of existing 14 & 16 inch diameter cast iron pipe with 374 feet of 24 & 30 inch diameter AWWA C905 DR14 PVC water pipe and two new fire hydrants 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, 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:

Additions to Wyoming Public Works Standard Specifications for Waterline Construction:

- a. Section 2665 E.6 - Water tight plugs shall be maintained in all pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.
- b. Section 2675 D - Flushing shall achieve minimum velocities of at least 5 feet per second for pipelines 12 inches in diameter or less. Flushing shall be through flush valves and a discharge pipe to the surface. Fire hydrants shall not flushed until after the water main or distribution line is flushed.

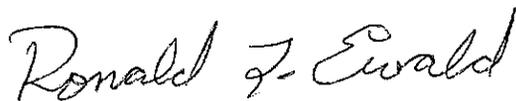


- c. Water mains greater than 12 inches in diameter shall be 100% remote video inspected after completion before first charging with water. If objects greater than 2" in diameter are found, they shall be mechanically removed before water is introduced. If flushing velocities greater than 5 feet per second cannot be achieved, the lines shall be 100% remote video inspected after flushing. Any remaining debris must be removed before the line can be disinfected or placed into service.

The approval granted under this Notification Of Coverage and the General Permit shall expire on January 31, 2014. Please reference Application Number 12-014 in any future correspondence.

If you have any questions, please contact me at [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or (307) 777-6183.

Sincerely,



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

RLE/rm/12-0053

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

cc: IPS, Cheyenne  
Flint L. Polson, Coffey Engineering & Surveying, LLC, 902 S. 3<sup>rd</sup> Street, Laramie,  
Wyoming 82070



# Department of Environmental Quality

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



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

January 24, 2012

D. Steven Degenfelder, Vice President  
Double Eagle Petroleum Company  
PO Box 766  
Casper WY 86202

RE: North Atlantic Rim Treatment Pilot Plant (CDM) Permit to Construct #12-015

Dear Mr. Degenfelder:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Pilot Project in accordance with Section 5, Chapter 11, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. **This permit expires 60 days from the date of issuance.**

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit. The following items need to be submitted to WDEQ/WQD CBM Group:

- a. Date that the construction of the treatment facility will begin;
- b. Certification the construction of the treatment facility was done in accordance with the terms and conditions of the permit; or  
Certification the construction of the treatment facility was completed with changes or modifications.
- c. All sampling will be conducted in accordance with the submitted sampling plan.
- d. Sampling of any waste products will be performed prior to disposal.
- e. A detailed report including on-site and lab analytical data relating to the facility's performance for meeting the discharge requirements, treatment/discharge volumes, any problems with the system and what has been done to correct them, or a notification that the plant has not been operating, will be submitted within 30



days after end of treatment.

- f. Immediate notification to WDEQ/CBM Group of any violations, exceedences, upsets, or incidents relating to the facility and its operation.

Please notify WDEQ at least one week prior to start-up or initial processing of CBM water. If you have any questions, please contact Dennis Lamb or Kim Medina at 152 North Durbin, Casper, WY, 82601, (307) 473-3465. Thank you.

Sincerely,

  
Dennis Lamb  
DEQ/WQD

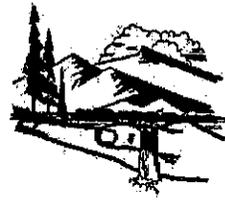
Enclosures:      Application for Permit to Construct  
                         Certificate of Completion

cc:            WDEQ File  
                 IPS Cheyenne



# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

January 31, 2012

Samuel Simmon  
11218 West Dexter Trail  
Westphalia, MI 48894

RE: Simmon Small Residential Septic System, Crook County  
Location: NW ¼, Section 32, T. 53N, R. 61W, Aladdin, WY  
Permit # 12-016

Dear Mr. Simmon:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

**This Notification of Coverage is issued in response to the submission and completion of the required septic system information for an as-built permit. The system generally complies with Wyoming Department of Environmental Quality/Water Quality Regulations governing Small Wastewater Systems.**

**Additionally, please respond in writing if you do not plan to construct the permit issued for 329 State Highway 111, permit no. 11-385, so that the permit may be withdrawn.**

If you have any questions, please contact me at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3469. Thank you.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

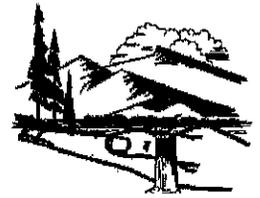
cc: IPS, Cheyenne  
WDEQ Casper File  
Wade Habeck, Timberline Services, Inc., P.O. Box 867, Sundance, WY 82729  
Tim Lyons, Crook County Growth and Development





# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 20, 2012

James E. Schneider  
1627 Arizona Ave., N.E.  
Cedar Rapids, IA 52402-5501

RE: Schneider Residential Septic System,  
Location: NW¼ SW¼, Section 27, T28N, R83W,

Application No. **12-017**  
Carbon County

Dear Mr. Schneider:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1000 gallon, two compartment concrete septic tank, discharging into about 120 feet of chamber type trench leachfield divided into two equal length trenches with a minimum of 7 "Infiltrator" brand, EQ36 model chamber units each in trenches of about 60 feet long for a 3 bedroom house in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 25 of the Water Quality Division Rules and Regulations, the general permit, the condition listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific condition also applies:

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

The approval granted under this Notification Of Coverage and the General Permit shall expire on January 20, 2014. Please reference Application Number 12-017 in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or by phone at (307) 777-6183.

Sincerely,

Ronald L. Ewald  
Assistant Southeast District Engineer  
Southeast District, Water & Wastewater Section  
Water Quality Division

RLE/rm/12-0039

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

cc: IPS, Cheyenne  
Kristy Rowan, Carbon County Planning Office, Carbon Building, 215 West  
Buffalo Street, Suite 336, Rawlins, Wyoming 82301  
4M Welding & Construction Inc., 511 C.R. 146, Carpenter, Wyoming 82054



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-018

UNION PACIFIC RAILROAD COMPANY  
CHEYENNE SEWER PROJECT

This permit hereby authorizes the applicant:

Mark Ross  
1400 W. 52<sup>nd</sup> Ave  
Denver, CO 80221

to construct, install or modify an new storm water evaporation pond according to the procedures and conditions of the application number 12-018. The facility is located in NW ¼, NE ¼ Section 6, T13N R66W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed March 30, 2014.

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

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

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

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

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

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

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

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

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7088, FAX 307-777-5973, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
  
- 2 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
  
- 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

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

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

Date of Issuance 4-2-12

RRC/rm/12-0285

## STATEMENT OF BASIS

1. Permit Number:       **12-018**
2. This application was reviewed for compliance with the applicable regulations ;  
    Chapters 3 and 11,
3. Does the permit comply with all applicable regulations identified above?  
    Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not  
    required.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate  
    documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard R. Cripe, Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on March 30, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION

PERMIT NO. 12-019

REFERENCE PERMIT NO. 11-369

Haystack Mine Supply Well #1 Plug and Abandon  
No Public Water System Number Assigned

This permit hereby authorizes the applicant:

Michael W. Nimmo  
Haystack Coal Company  
3555 Farnam  
Omaha, NE 68131

to plug and abandon Haystack Coal Company Mine Supply Well #1(Permit Number 11-369) according to the procedures and conditions of the application number 12-019. The facility is located approximately 13 miles northeast of The City of Evanston within SW ¼ NE ¼, Section 31, T17N, R118W in the county of Uinta, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by January 24, 2013.

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

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

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

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

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

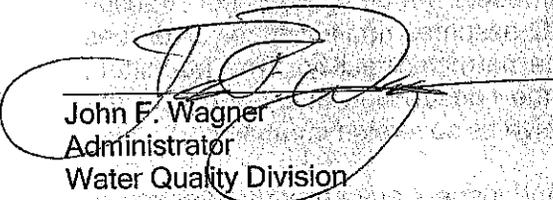
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

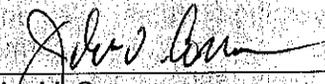
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit;  
or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

1-25-12  
Date of Issuance

MDB/rm/12-0041

cc: Gareth Powell, P.E., Uinta Engineering, Inc., P.O. Box 746, Evanston, WY 82931-0746

## STATEMENT OF BASIS

1. Permit Number: 12-019
2. Application reviewed for compliance with the following regulations:
3. Chapters 3, and 11 of the Wyoming Water Quality Rules and Regulations.
4. Does the permit comply with all applicable regulations identified above?  
Yes.
5. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.  
NA.
6. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
Not Required.
7. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark Baron P.E. Southwest District Engineer, mark.baron@wyo.gov and completed on January 24, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-020

REFERENCE PERMIT NO. 11-369

Haystack Mine Supply Well #1-Second Attempt  
No Public Water System Number Assigned

This permit hereby authorizes the applicant:

Michael W. Nimmo  
Haystack Coal Company  
3555 Farnam  
Omaha, NE 68131

to construct a water well to serve both potable and industrial water demands at the Haystack Coal Mine according to the procedures and conditions of the application number 12-020. The facility is located approximately 13 miles northeast of The City of Evanston within SW ¼ SW ¼, Section 31, T17N, R118W in the county of Uinta, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by February 1, 2014.

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

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

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

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

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

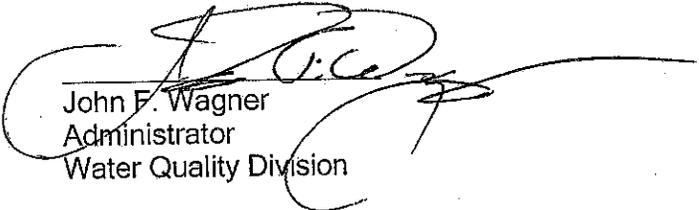
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

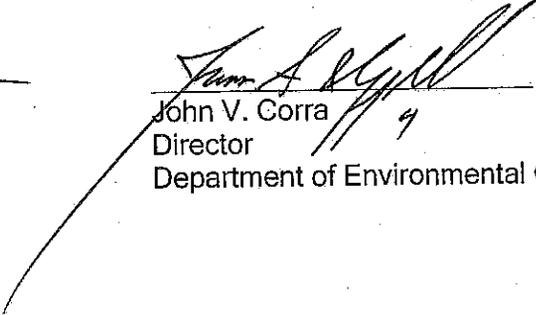
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit;  
or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

2-7-12  
Date of Issuance

MDB/rm/12-0069

cc: Gareth Powell, P.E., Uinta Engineering, Inc., P.O. Box 746, Evanston, WY 82931-0746

## STATEMENT OF BASIS

1. Permit Number: 12-020
2. Application reviewed for compliance with the following regulations:
3. Chapters 3, and 12 of the Wyoming Water Quality Rules and Regulations.
4. Does the permit comply with all applicable regulations identified above?  
Yes.
5. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.  
NA.
6. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
Not Required.
7. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

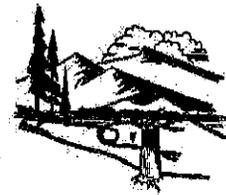
## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark Baron P.E. Southwest District Engineer, mark.baron@wyo.gov and completed on February 1, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."



# Department of Environmental Quality

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



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

February 10, 2012

Kaare Kimsey  
P.O. Box 354  
Moorcroft, WY 82721

RE: Kimsey Small Residential Septic System  
Location: NE ¼, Section 10, T. 48N, R. 67W, Weston County, WY  
Permit # 12-021

Dear Mr. Kimsey:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leachfield.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.
3. Flow-divider tees or a distribution box is required to evenly split flow between trenches or rows for a bed system. Standard tees are not an adequate substitute for flow-dividing tees.
4. Contact WDEQ at 307-473-3469 prior to backfilling the system.

**Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils. Please contact me with questions at 307-473-3469.**

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

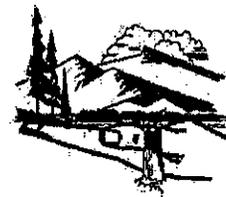
cc: IPS, Cheyenne  
WDEQ Casper File  
Timberline Services, P.O. Box 867, Sundance, WY 82729  
Weston County Growth and Development, 1 West Main Street, Newcastle, WY 82701





# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

February 3, 2012

Cameron Wagner  
Kustom Concepts, LLC  
1351 North Derrick Drive  
Casper, WY 82604

RE: Kustom Concepts 6" Fire Protection Water Line, Natrona County,  
WDEQ #12-022

Mr. Wagner:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems 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(ies) in accordance with the general permits and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

This permit will expire February 3, 2013. Please contact this office if a time extension is needed in order to complete this project

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.  
Northeast District Engineer, Water Quality Division

Enclosures: Certificate of Completion

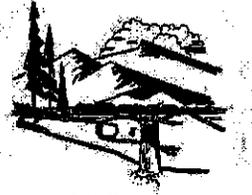
cc: Marlon B. Holmquist, Vista West Water Company, P.O. Box 567, Casper, WY 82602  
Brad Holwegner, P.E., WLC, 200 Pronghorn Street, Casper, WY 82601  
IPS, Cheyenne  
Casper WDEQ File





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John Corra, Director

## NOTIFICATION OF COVERAGE

February 15, 2012

Robert McPherson  
Town of Mills  
P.O. Box 789  
Mills, WY 82644

RE: Town of Mills Water Line Adjustment  
Location: SW ¼, Section 2, T. 33N, R. 80W  
Permit # 12-023

Dear Mr. McPherson:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems 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. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

**This permit is valid until December 31, 2013.**

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

Enclosures: Certificate of Completion

cc: IPS, Cheyenne  
WDEQ Casper File  
Jason L. Meyers, P.E., WLC, 200 Pronghorn, Casper, WY 82601





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John Corra, Director

## NOTIFICATION OF COVERAGE

January 30, 2012

Ivan Policky  
227 Inyan Kara Road  
Upton, WY  
82730-8310

RE: Kallas Small Residential Septic System, Crook County  
Location: SW ¼ SW ¼, Section 7, Township 50N, Range 64 West, Crook County, WY  
Permit # 12-024

Dear Mr. Policky:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Additionally, the following permit condition applies:

1. Cleanouts are required every 100 feet and at all changes in direction 22.5 degrees and greater, both horizontal and vertical. This requirement includes both the pipeline from the house to the septic tank and from the septic tank to the leachfield.
2. Either a 6-inch diameter clean-out riser or a manway from each compartment of the septic tank must be extended to the ground surface from all septic tanks.

**Septic systems shall not be installed during adverse weather. This includes rain, snow, severely cold temperatures, or excessively moist soils.** Please contact me with questions at 307-473-3469.

Sincerely,

Karen L. Farley, P.E.  
NE District Engineer  
WDEQ/WQD

cc: ✓IPS, Cheyenne  
WDEQ Casper File  
Tri-City Excavation, Inc., 169 Thorn Divide Road, Carlile, WY 82721  
Tim Lyons, Crook County Growth and Development





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John Corra, Director

## NOTIFICATION OF COVERAGE

February 21, 2012

Steve Blakeman  
Town of Moorcroft  
P.O. Box 70  
Moorcroft, WY 82721

RE: Lincoln Street Water Main  
Location: SW ¼, Section 6, T. 67N, R. 50W  
Permit # 12-025

Dear Mr. Blakeman:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems 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. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

**This permit is valid until December 31, 2013.**

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

Enclosures: Certificate of Completion

cc: IPS, Cheyenne  
WDEQ Casper File  
Bill A. Carson, P.E., Stetson Engineering, Inc., P.O. Box 457, Gillette, WY 82717





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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

February 6, 2012

Dustin Bates  
P.O. Box 489  
Sundance, WY 82729

RE: Bates Residential Septic System,  
NW ¼, Section 26, T. 50N, R. 64W, Crook County  
As Built Permit # 12-026

Dear Mr. Bates:

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. The General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage,

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

**This Notification of Coverage is issued in response to the submission and completion of the required septic system information for an as-built permit. The system generally complies with Wyoming Department of Environmental Quality/Water Quality Regulations governing Small Wastewater Systems.**

If you have any questions, please contact me at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3469.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

cc: IPS, Cheyenne  
WYDEQ File  
Tim Lyons, Crook County Growth and Development



PERMIT TO CONSTRUCT  
(AS-BUILT)

New  
 Renewal  
 Modified

PERMIT NO. 12-027  
SPECIAL CONDITIONS

Schlumberger Technology Corporation-Inactive Rock Springs Facility  
Additional Site Characterization Project

This permit hereby authorizes the applicant:

Schlumberger Technology Corporation  
121 Industrial Blvd, Rm 126  
Sugar Land, TX 77478

to construct, install or modify additional monitoring wells & decommission (P & A) certain existing monitoring wells according to the procedures and conditions of the application number 12-027. The facility is located in SE¼, Section 35, T.20N., R.105W. (6<sup>th</sup> P.M.) in the county of Sweetwater, in the State of Wyoming. All construction, installation or modification allowed by this permit shall be completed by March 31, 2017.

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, 510 Meadowview Drive, 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. All monitoring well installations and all monitoring wells subject to decommissioning authorized under this permit shall comply with the requirements of Chapter 26 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. WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of the bailers and sample collection so that they may be on site if deemed necessary.
3. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
4. The results of any other analyses conducted on soil or water removed from all wells/piezometers or boreholes shall be provided to the department as soon as they are available.
5. ***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 supplements previous permit requirements.

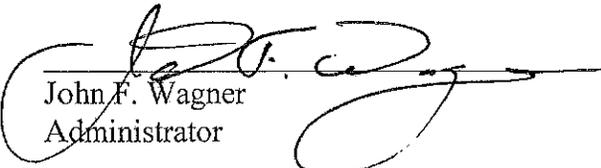
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT*
All Existing MW's	Semi-annual	EPA 8260 (long list)	Volatile Organic Compounds (VOC's)	
Proposed MW's	Quarterly for at least 1 year & then semi-annual w/ existing program			

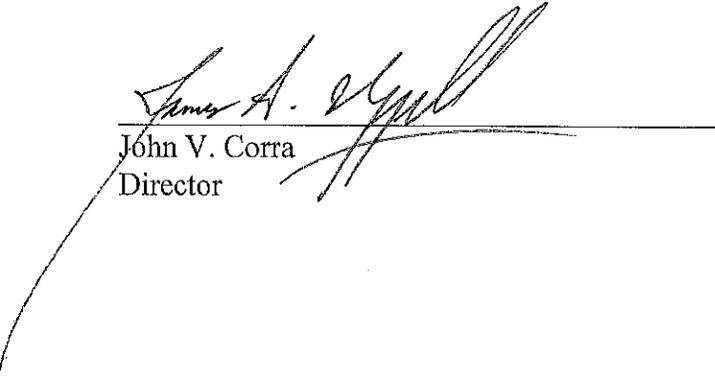
\* Permit Limits (i.e. Groundwater Protection Standards) are only required for compliance monitoring wells. All chemical concentrations in this permit are expressed in mg/l unless otherwise noted.

6. Within ninety (90) days of completion of the recovery system installation, Schlumberger Technology Corporation shall submit a completion report. The completion report shall include the operation and maintenance plan and "as built" diagrams of the MW's and P & A reports for the decommissioned MW's. Thereafter, an annual report, as is currently being submitted, will be required that provides a summary of the sampling data, a description of any equipment problems or downtime, and any other pertinent data.

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:

  
 John F. Wagner  
 Administrator

  
 John V. Corra  
 Director

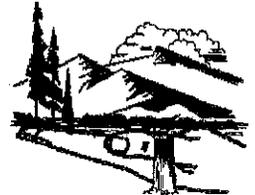
3-22-2012  
 Date of Issuance

JOC/rm/12-0229



# Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

## GROUNDWATER POLLUTION CONTROL PROGRAM

### REVIEW COMMENTS:

#### PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

**SITE NAME:** Schlumberger Technology Corp., Inactive Rock Springs Facility

**SITE STATUS:** Site Remediation

**APPLICANT:**

**ENGINEER/CONSULTANT:**

Mr. Du'Bois J. Ferguson  
Remediation Technical Manager  
Schlumberger Technology Corporation  
121 Industrial Blvd, Rm 126  
Sugar Land, TX 77478

Mr. Rick Deuell, P.E.  
Owner/Project Engineer  
Deuell Environmental, LLC  
1653 Diamond Head Ct  
Laramie, WY 82072

**WATER QUALITY DIVISION REFERENCE PERMIT NUMBER:** P-to-C #00-282, UIC #00-306 and the current proposal P-to-C #12-027

EXISTING       NEW       AS-BUILT

**TITLE:** Schlumberger Tech Corp., Inactive Rock Springs Facility, Additional Site Characterization

PLANS       SPEC'S       PROPOSAL       REPORT

[Check all that apply]

**DATE ON PROPOSAL/PLANS/REPORT:** February 1, 2012

**IS THIS PROPOSAL SUBMITTED PURSUANT TO:**

'CONDITIONS' TO ANY WQD PERMIT?  NO  YES (WQ Permit 00-282)

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

**REVIEWING OFFICIAL(S):** \_\_\_\_\_

James P. O'Connor, P.G.

**DATE OF THIS REVIEW:** March 6, 2012

**ACTION:** Install 5 GW MW's for plume delineation with 7 existing MW's & 1 SVE well proposed for decommissioning (P & A). Approve with modification as submitted- comments attached.



## COMMENTS: GROUNDWATER SECTION

### 1.0 SUMMARY OF EXISTING CONTAMINATION

#### 1.1. Site description & history

The legal description of the site is as follows: SE¼ §35, T. 20 N., R. 105 W. (6<sup>th</sup> P.M.)  
The site address is listed as follows: 93 Reliance Road in Reliance, Wyoming. The site is owned by Schlumberger Technology Corporation (STC) and is situated in Sweetwater County. STC owns approximately 37 acres of contiguous property with the working area of the facility occupying approximately 9.5 acres. Approximately half of the facility is paved. The facility was built by Dowell, a division of The Dow Chemical Company. Dowell operated the facility from 1977 to 1984. Dowell Schlumberger (DSI) acquired ownership of the 9.5 acre operation in 1984 followed by STC in 1993. STC purchased the additional property downgradient to the west to ensure access to any potential off-site subsurface contamination in the late 1990's. The facility has been inactive since 2008 when STC move operations to a newly constructed facility in Rock Springs.

When active, the facility was used as a base for providing oil field services including the following: well cementing, acid treatment and formation fracturing. Storage of chemicals used in conjunction with the operation have included vehicle fuels, various maintenance lubricants, solvents, bulk acids, sands, cements, fly ash, nitrogen and smaller volumes of well treatment chemicals. The working portion of the facility included an office building, fueling facilities, a maintenance/repair shop, tool shop, bulk storage silos and tanks, a chemical warehouse and drum storage pad, and a railroad siding. Two septic systems for sanitary sewage were in place for the office building and maintenance shop. The septic system for the maintenance shop was replaced in 2000. The maintenance shop facilities included an underground used oil tank and wastewater disposal facilities consisting of an oil/water separator and a wastewater evaporation pond. Equipment and materials employed in providing these services were kept onsite.

For a brief period the regulatory jurisdiction at the site was split between the Wyoming Department of Environmental Quality (WDEQ), Water Quality Division (WQD) LUST program and the Groundwater Pollution Control (GPC) program as a result of commingled groundwater contaminant plumes. Correspondence from Dowell Schlumberger, dated March 17, 1993, states that Dowell Schlumberger Incorporated did not intend to participate in the State of Wyoming UST Reimbursement program. The site cleanup is therefore under the jurisdiction of the GPC program.

#### 1.2. Summary of Existing Contamination

Potential contaminant sources identified at the site included, in generally decreasing potential: wastewater pond, fueling facilities, used oil tank, oil/water separator, shop areas, maintenance shop/wash bay sump, septic tanks & leachfields, above ground bulk chemical storage with a sump in close proximity to the acid storage area. Currently, samples are collected on a semi-annual basis from all MW's in which GW is present. During latest sampling event the list of MW's included the following: MW917-4, MW917-17, MW917-19, MW917-23, MW917-24, MW917-25, MW917-29, MW917-30 & MW917-31. All MW's are analyzed for the following

field parameters: DO, pH, conductivity, temperature, and, these analytes: 1,1-DCA, 1,2-DCA, 1,1-DCE, PCE, TCA, TCE, BTEX.

### 1.3. Site Geology/Hydrogeology

The sediments underlying the site are comprised of unconsolidated, fine medium-grained silty sand and clay derived from weathering of the underlying Ericson and Rock Springs formations of the Mesa Verde group. The bedrock erosional surface dips approximately 6 degrees to the west and structurally 7 to 15 degrees to the west in this area. Surface topography and drainage at the site slopes generally from east to west. An unnamed ephemeral drainage channel crosses the site approximately in the middle from east to west through a culvert that returns to a natural surface channel which ultimately discharges into Killpecker Creek approximately 2,200' to the west. The GW flow is westerly. Depth to groundwater has substantially declined since monitoring was initiated but ranges from 15 to 30 feet below ground surface (bgs).

The site was graded and backfilled in some areas prior to construction of the facility. The greatest fill depth is in the center of the site where the drainage channel crosses the property. The culvert and surrounding backfill may function as a preferential flow path for intermittent surface recharge to the unconsolidated and unconfined surface aquifer especially along the west side of the site where the culvert apparently intersects the water table near the wastewater pond. Flow in the watertable aquifer is generally to the west and west-southwest and as is typical of unconfined aquifers parallels the surface topography. Recharge areas for the underlying confined formation- the Erickson and Rock Springs formations- are apparently offsite with possibly some limited recharge existing where the unconsolidated materials are in contact.

## 2.0 CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE

### 2.1. 1988 thru 2000 WQ Chapter 3 Permits-to-Construct & UIC Permit issued

- Permit-to-Construct 89-053 authorized the installation of the initial series of boreholes and monitoring wells.
- Statewide Permit-to-Construct 89-348 (replacing 89-053) authorized investigations at this site as well as several other DSI facilities in Wyoming.
- Statewide Permits-to-Construct 90-289 & 91-343 were renewals of previous permits-to-construct.
- Permit-to-Construct 00-282 authorized additional MW's. Five of the wells were installed in November, 1999, with two additional wells and one borehole installed in October, 2000.
- UIC Permit 00-306 authorized the injection of Hydrogen Release Compound (HRC) in the vicinity of the former wastewater pond.

### 2.2. Equipment Removal

Three underground fuel storage tanks, lines and dispensers along with the used oil tank were removed in November, 1988. Also, while both 10,000 gallon fuel tanks were found to be in good condition, the investigation determined that the fuel suction lines had leaked and contaminated

the underlying soil. Fuel contaminated soil was excavated to a depth of 12 feet. In July, 1991, the oil/water separator system was removed. The wastewater pond was excavated and the materials disposed of by the mid-1990's.

### 2.3. Remedial Activities at the site (generally in chronologic order)

- The maintenance shop oil/water separators were removed by WWC in July, 1991. The shallow subsurface separator system included a concrete settling basin and two steel tank separators installed in series at the west corner of the shop. The contents of the separator system were deposited in the former wastewater pond. The concrete settling basin was broken up and properly disposed. The two steel separators were cut up and sold as scrap metal. The pond was excavated and backfilled with native onsite soils and frack sand tailings from the sand silos onsite. During the removal of the separators MW917-14 was damaged and was subsequently plugged and abandoned in September, 2003.
- A thin layer of free product (FP) was initially detected at MW917-26 in May, 1991 and at MW917-5B in November, 1991. Both MW's were completed within the excavation area of the decommissioned fueling facilities. The 0.08' of FP was detected during a single sampling event in MW-5B. However, the FP persisted at MW-26 until February, 1993. Approximately one pint of FP was recovered from MW-36 in March, 1992. No additional FP was measured at either MW through 2007 after which GW was no longer present. GW sampling subsequent to the disappearance of the FP revealed BTEX concentrations ranging from non-detect to levels of benzene slightly elevated above the MCL of 0.05 µg/L in the last sampling event prior to the disappearance of GW.
- Use of the former wastewater pond that received water from the truck wash bay and maintenance garage was discontinued in July, 1991. The potentially contaminated sludge and soils were excavated and the pond was backfilled in February, 1993. The pond contents- i.e. fluids, sludge and soil- were sampled and disposed of at appropriate facilities. The extent of the pond excavation was limited by the pond closure plan and based on field VOC's. Approximately 965 yards<sup>3</sup> were removed from the final pond excavation measuring 52' X 85' with depths ranging from 3' to 9'. It was recorded that the excavation exhibited a 'septic' odor rather than one of a 'hydrocarbon' nature. Clean backfill was imported, compacted and graded consistent with the surrounding terrain. GW MW917-13, located adjacent to the former pond, was abandoned during the closure activities.
- Based on the SVE survey and subsequent soil sampling and GW monitoring, two SVE pilot tests were performed at the site in April, 1994 to evaluate the permeability of the vadose zone and to determine the effective radius. These were in the vicinity of the maintenance and tool shops. The two wells involved in the pilot tests were MW917SVE-22 and MW917-18, respectively. The results of the pilot tests indicated that low permeability, especially in the vicinity of the tool shop would limit the feasibility of the SVE unless the wells were closely spaced. Also, the extent of the contamination in this area was not adequately delineated. As a result, SVE was discounted as a viable

remedial option. In 1994, WDEQ requested that STC provide a CAP for remediating the GW.

- By 1997 declining BTEX concentrations and primary VOC compounds and daughter products associated with the solvents at the facility in conjunction with apparent plume stability indicated that natural attenuation was occurring at the site. With the overall BTEX and VOH concentrations in decline, all identified potential sources removed coupled with the low permeability surficial aquifer, NA appeared to be the final remedial option for the site. To that end, the requisite natural attenuation parameters were collected. Specific analyses indicated that biodegradation of BTEX and VOH compounds was occurring.
- In 1998 STC initiated a pilot test to determine if the introduction of hydrogen compounds to the GW would assist in maintaining an anaerobic/reducing environment and enhance the natural attenuation of the VOH's through reductive dechlorination. Hydrogen release compound (HRC) was emplaced in MW917-25 on March 3, 1998. According to the report, the canisters were inappropriately removed four times during the study to collect GW samples. As a result, the canisters re-oxygenated the GW and the redox measurements were invalidated.
- A CAP prepared by WWC, dated May 26, 1999, included a proposal to install two new MW's downgradient of the existing monitoring network and to re-install three existing wells that had gone dry. WDEQ's review of the CAP indicated that the decision to formally accept MNA as the long-term remedial option for the site would be deferred pending the finalization of WDEQ's Voluntary Remediation Program (VRP) and the implementation of the MNA with the VRP.
- A report dated, May 23, 2000, provided information as to the installation of the additional MW's and the results of the NA parameters further supported MNA as the remedial option of the facility. The additional MW's were installed downgradient of the former wastewater pond and at the southern boundary of the property. Other MW's were abandoned and re-installed as deeper wells in order to compensate for the declining water table. Additional sample data for the NA parameters provided support for the conclusions concluded by the 1997 NA study.
- The May, 2000 report identified low-level detections of VOH contaminants, including vinyl chloride, slightly above MCL's in MW917-29 located on the southern boundary of the facility. As a result of this concern, WDEQ requested a work plan for additional investigation of the extent of the GW contamination from the former wastewater pond. WDEQ notified STC of the requirement for an as-built permit-to-construct for the two new MW's installed in 1999. Further, WDEQ requested a decision from STC to either enter the VRP or proceed with site remediation under an Order of Consent with the GPC program.

- WWC provided a new Corrective Action Plan and Design Report (CAP) dated July 21, 2000. The CAP included a permit-to-construct for the additional MW's and for the three additional MW's for the purpose of plume delineation. The new CAP also provided information pertaining to the HRC pilot test and a proposal for source area remediation using direct push injection of HRC in the water table aquifer.
- In the August 29, 2000 review, WDEQ authorized Permit-to-Construct 00-282 for the as-built and proposed new GW monitoring wells. Additionally, UIC-306 5B5 was issued for the HRC injection. A total of 6,000 pounds of HRC and 140 gallons of glycerine were injected in a staggered 10' grid pattern as an emplacement of an HRC barrier wall. In the southern extent of the barrier wall dry bedrock was encountered, thus limiting the HRC injection in that area.
- Since completion of the borehole and MW installations and emplacement of the HRC treatment cell, GW monitoring of the contaminant plume associated with the former wastewater pond has occurred on a semi-annual schedule at all MW's remaining in the monitoring program when they exhibited adequate water. On March 22, 2002, STC elected to remain in the GPC program instead of entering into the VRP. Although WDEQ has not formally accepted MNA as the final remedial option continued monitoring of NA progress has been approved.
- Current and historic data indicates that BTEX and VOH compounds have continued to decline over the last decade to the extent that BTEX concentrations are at levels below MCL's. Currently, VOH concentrations are below MCL's at all wells with sufficient water to sample. Also, the VOH compounds are detected primarily as daughter products of the solvent-related VOH compounds. With the exception of MW917-29 (which presents persistent low levels of 1,1-DCA concentrations below MCL) none of the other wells located downgradient of the former wastewater pond or the facility in general have exhibited any detections since March, 2010. The GW monitoring in the vicinity of the former wastewater pond source area and the facility in general appear to demonstrate that there is no current off-site migration of dissolved phase VOH contamination within the water table aquifer. While GW levels have been in decline at the site for several years and many wells are now dry, all of the downgradient MW's still retain enough water to provide representative samples.
- **BTEX Biodegradation.** The results of the study to assess the natural attenuation parameters indicate that hydrocarbon degradation is taking place at the site. Dissolved oxygen (DO), pH, and nitrate levels are all lower than the background well. Ferrous iron is a by-product of anaerobic degradation of hydrocarbons, and is present at elevated levels. In addition, analytical results for BTEX compounds in the monitoring wells show a declining trend. All of this information indicates that anaerobic degradation of hydrocarbons is taking place.
- **Chlorinated Hydrocarbons.** The laboratory analyses show several trends indicating that degradation of chlorinated hydrocarbons is taking place in the area around the

abandoned wastewater pond, down gradient of the pond, and in the area around well MW-19. Elevated levels of methane were identified in these areas. Methane is produced by anaerobic microorganisms and elevated levels of methane are a good indicator of reducing geochemical conditions required for reductive dehalogenation. The methane is also a carbon source for methanotropic oxidation of chlorinated hydrocarbons in aerobic conditions. Carbon dioxide is an end product of degradation of hydrocarbons and chlorinated hydrocarbons, and is found in elevated amounts. Ethene and ethane, found at elevated levels, are also end products of reductive dechlorination of chlorinated hydrocarbons. In addition, the microorganisms that were identified during the study have the capability to degrade both hydrocarbons and chlorinated hydrocarbons.

#### **2.4. Recommendations proffered by Schlumberger Technology Corporation**

##### **2.4.1. Proposed recommendations for drilling and monitoring well installation**

1. Due to declining GW conditions, wells MW-34u and MW-34b will be installed in the same borehole to replace MW917-15. MW-34u will be installed in the unconsolidated water table aquifer immediately above the alluvial/bedrock contact. MW-34b will be installed some distance below the contact, within the underlying bedrock strata, based on lithology and saturation conditions.
2. For similar reasons- i.e. due to declining GW conditions- wells MW-35u and MW-35b will be installed in the same borehole to replace MW917-31 and MW-6. Both MW's have been dry, either from installation or for several years. MW-6 has exhibited VOH concentrations in excess of MCL's in the last samples that were reported. MW-35b will be installed in the unconsolidated water table aquifer immediately above the alluvial/bedrock contact. MW-35b will be installed some distance below the contact, within the underlying bedrock strata, based on lithology and saturation conditions.
3. Monitoring well MW-36 will be installed in the area below the downgradient extent of the VOH plume, some distance below the alluvial/bedrock contact but within the bedrock strata based on lithology and saturation conditions.
4. The dual completion wells will allow for evaluation of whether the bedrock hosts and aquifer and the nature of the hydraulic connection to the overlying surficial water table aquifer.
5. The recommendations included the details of the drilling, soil sampling and MW construction procedures and shall comply with WQ Chapter 26 Rules & Regulations.

##### **2.4.2. Proposed recommendations for abandoning selected MW's**

6. Monitoring wells MW917-15A and MW917-31 are proposed for replacement and should be abandoned concurrent with the proposed drilling and new well installation program.

7. Upgradient monitoring wells MW917-1A, MW917-4, MW917-18, MW917-24, all completed in the unconsolidated water table aquifer have all been dry for several years. No contaminants have ever been detected in MW-1A. The other three wells have exhibited low level detections of VOH daughter/breakdown compounds but have not exceeded MCL's. These MW's are not providing useful data and are potential conduits for GW contaminants in an area otherwise covered with asphalt and concrete. These MW's should be plugged and abandoned in conjunction with the proposed new well installation program.
8. Similar to #6 above, monitoring wells MW917-5B and MW917-26 have been dry since September, 1994 and September, 1995, respectively. These wells are not providing useful data and are potential conduits into the subsurface in an area otherwise covered with asphalt and concrete. All other MW's in this area (e.g. MW917-7 and MW917-16) have been abandoned. These MW's should be plugged and abandoned in conjunction with the proposed new well installation program.
9. Similar to #'s 6 & 7 above, soil vapor extraction well SVE917-22 was installed exclusively for use as an SVE well. The results of the SVE pilot test indicated that bedrock in this area is impermeable to air flow to a degree required for effective remediation by SVE methodology. SVE917-22 is completed at a depth too shallow to intersect GW, is providing no useful data and is a potential conduit into the subsurface in an area otherwise covered with asphalt and concrete. SVE917-22 should be abandoned in conjunction with the proposed new well installation program.
10. The recommendations included the details of the plugging and abandonment (P & A) and shall comply with WQ Chapter 26 Rules and Regulations.

### 3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS

- 3.1. The current application for Permit-to-Construct 12-027 provided a satisfactory summary of the activity at the Schlumberger Technology Center facility from 1989 to the present.
- 3.2. As to the recommendations listed as #'s 1, 2 & 3 outlined in §2.8.1, above, concerning the placement of additional MW's to provide further delineation of the contaminant plume, WDEQ is in agreement with the proposal as specified with respect to the approximate locations and depths.
  - 3.2.1. WDEQ is in agreement with the details of the MW construction and soil & GW sampling as stated in §6.4 of the application.
  - 3.2.2. WDEQ is in agreement with the details of the GW sampling schedule as specified in §6.5 of the application- i.e. quarterly basis for a period of at least one year and thereafter on the same semi-annual schedule as the other remaining wells in the current GW monitoring program.

3.2.3. WDEQ is in agreement with the details of the proposed sample analysis as specified in §6.5 of the application.

3.2.4. However, WDEQ holds in abeyance the total number of additional wells necessary to delineate the extent of the contaminant plume, both laterally and vertically. The review of the current well configuration and construction in conjunction with the nature of the contaminants may dictate additional MW placements.

3.3. As to the recommendations listed as #'s 6, 7, 8 & 9 outlined in §2.8.2 above, concerning the abandonment of selected MW's, WDEQ is in agreement with the proposal as specified with the procedures as specified in §6.4 of the application.

3.3.1. However, while WDEQ with the recommendation to decommission MW917-5B and MW917-26, we disagree with the assertion that these MW's are not necessary. According to the second bulleted item under §2.3, prior to the disappearance of GW in the vicinity of former truck scales and fuel dispenser, the report noted that benzene levels were slightly above MCL's. Consequently, we require a replacement well in this vicinity to better vertically delineate the contamination.

JOC/rm/12-0229



# Department of Environmental Quality



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viatt Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

February 6, 2012

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

RE: Rock Springs - RV Park Sewage Collection Systems - Permit Number 12-028, N ½, Section 10, T19N, R105W Sweetwater County.

Dear Mr. Kauchich:

The above application for coverage under General Permit to Construct the extension of a sewage collection system consisting of about 5600 linear feet (LF) of 6-inch PVC Sewer Main and 3200 LF of 8-inch PVC Sewer Main 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 facilities in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permits. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

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

Sincerely,

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

PDF to Cheyenne  
Daniel Kennedy, P.E., JFC Engineers Surveyors, Inc., 1515 Ninth St., Suite A, Rock Springs, WY 82901



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-029

REFERENCE PERMIT NO. 11-170

QEP Water Disinfection and Distribution  
No Public Water System Number Assigned

This permit hereby authorizes the applicant:

Kevin Williams  
Questar Exploration & Production Company  
P.O. Box 2125  
Pinedale, WY 82941

to construct a water disinfection and distribution system consisting of two hydropneumatic tanks, three backflow prevention devices, a UV disinfection unit, pump to waste pipe, meter and pressure gages according to the procedures and conditions of the application number 12-029. The facility is located just south of the Town of Pinedale in SW ¼ NE ¼ Section 15, T33N, R109W in the county of Sublette, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by March 14, 2014.

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

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

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

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

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

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

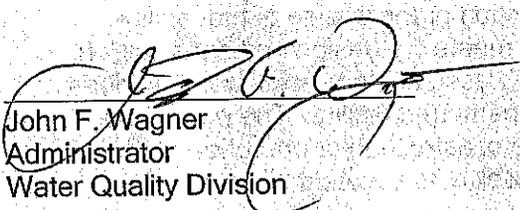
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit.

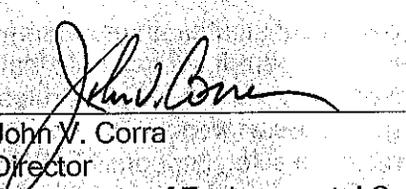
This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadow View Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
- a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John W. Corra  
Director  
Department of Environmental Quality

4-5-12  
Date of Issuance

MDB/rm/12-0294

## STATEMENT OF BASIS

1. Permit Number: 12-029
2. Application reviewed for compliance with the following regulations:  
Yes, Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above? Yes.
4. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
Not required.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mark.baron@state.wy.us, Southwest District Engineer and completed on March 14, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Brian Gary, P.E., WLC Engineering, P.O. Box 1519, Pinedale, WY 82941



# Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

April 6, 2012

Creekside Homes LLC  
Attn: Bruce H. Perryman, Managing Member  
1103 Old Town Lane, Suite 101  
Cheyenne, Wyoming 82009

RE: Country Homes Subdivision Phase I & II – Water & Sewer Extensions,  
Application No. 12-030, Laramie County

Dear Mr. Perryman:

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** consisting of approximately 4750 feet of 8" PVC C-900 DR-14 water main with gate valves as indicated, and eight(8) fire hydrant assemblies, and Existing **Sewage Collection Systems** consisting of approximately 2125 feet of 8" PVC SDR 35 sanitary sewer main, and 16 new manholes, located in the NE¼, Section 171, T13N, R66W, Laramie County in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with, **Chapter 11, Section 9** of the Water Quality Division Rules and Regulations, and both systems in accordance with the general 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. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **April 5, 2014**.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Please reference Application No. 12-030 in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or by phone at (307) 777-6183.

Sincerely,

Ronald L. Ewald  
Assistant Southeast District Engineer  
Water Quality Division

RLE/rm/12-0301

Enclosures: Certificate of Completion form

cc: IPS, Cheyenne

Dena L. Hansen, General Manager, South Cheyenne Water & Sewer District,  
215 East Allison Road, Cheyenne, WY 82007

Thomas L. Kent, AVI, p.c., 1103 Old Town Lane, Cheyenne, WY 82009

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-7582	ABANDONED MINES (307) 777-8145 FAX 777-6482	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 777-5884	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-6973	WATER QUALITY (307) 777-7761 FAX 777-5973
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Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

March 12, 2012

Cheyenne Board of Public Utilities  
Attn: Herman Noe, Engineering and Water Resource Manager  
P.O. Box 1469  
Cheyenne, Wyoming 82003-1469

RE: West Pershing Blvd Water & Sanitary Sewer Improvements,  
Location: Section 35, T14N, R67W,

App. # 12-031  
Laramie County

Dear Mr. Noe:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Public Water Supply Distribution Systems consisting of removing about 4000 feet of existing 8 inch water line and reconstructing it with a combination of 8 inch and 12 inch C-900 PVC water pipe, new valves, fittings, and new fire hydrants and Existing Sewage Collection Systems consisting of slip lining approximately 2627 linear feet of existing 8 inch clay sewer line with Cured-In-Place-Pipe, abandoning old manholes, and installing new manholes in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, the 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 permits. Additionally, the following project specific conditions also apply:

1. Additions to Wyoming Public Works Standard Specifications for Waterline Construction:
  - a. Section 2665 E.6 - Water tight plugs shall be maintained in all pipe openings in a trench any time pipe laying is not in progress or the trench is unattended.
  - b. Section 2675 D - Flushing shall achieve minimum velocities of at least 5 feet per second for pipelines 12 inches in diameter or less. Flushing shall be through flush valves and a discharge pipe to the surface. Fire hydrants shall not be flushed until after the water main or distribution line is flushed.

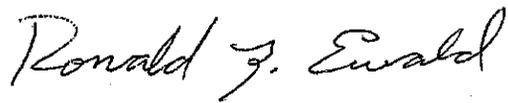


- c. Water mains greater than 12 inches in diameter shall be 100% remote video inspected after completion before first charging with water. If objects greater than 2" in diameter are found, they shall be mechanically removed before water is introduced. If flushing velocities greater than 5 feet per second cannot be achieved, the lines shall be 100% remote video inspected after flushing. Any remaining debris must be removed before the line can be disinfected or placed into service.

The approval granted under this Notification Of Coverage and the General Permit shall expire on March 12, 2014. Please reference Application Number 12-031 in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or (307) 777-6183.

Sincerely,



Ronald L. Ewald  
Assistant Southeast District Engineer  
Water Quality Division

RLE/rm/12-0175

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

cc: IPS, Cheyenne  
Daniel C. Mummert, Trihydro Corporation, 3001 East Pershing Blvd, Suite 115,  
Cheyenne, Wyoming 82001



# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

February 27, 2012

Todd Kelley, P.E.  
Sanderson Stewart, Inc.  
P.O. Box 6359  
Williston, ND 58802

RE: Powder Horn Ranch Wastewater Treatment Facility Expansion  
Location: SW ¼ Section 34, T. 55 N, R. 84 W, Sheridan County, WY  
WDEQ Application #12-032

Dear Mr. Kelley:

We have completed our review of the permit application submitted on January 20, 2012. Attached you will find a summary of the review comments. Please provide the information requested as soon as possible. Please feel free to contact either Jason at (307) 473-3469 or Karen at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

Jason Vreeland, P.E.  
Assistant Northeast District Engineer  
WDEQ/WQD

Attachments: WDEQ Comments

cc: Homer Scott, The Powder Horn, LLC., 51 Powder Horn Road, Sheridan, WY 82801  
IPS  
WDEQ File



**REVIEW OF PLANS & SPECIFICATIONS**  
**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**WATER QUALITY DIVISION**  
**152 North Durbin Street, Suite 100**  
**Casper, Wyoming 82601**  
**Phone (307) 473-3465**

**PROJECT:** Powder Horn Ranch Wastewater Treatment Facility Expansion

**LOCATION:** Sheridan County, Wyoming

**ENGINEER:** Sanderson Stewart, Inc.

**APPLICANT:** The Powder Horn, LLC.

**WATER QUALITY DIVISION APPLICATION NUMBER:** 12-032

**DATE ON PROPOSAL/PLANS/REPORT:** January 13, 2012

**DATE RECEIVED BY DEQ:** January 20, 2012

**DATE OF THIS REVIEW:** February 27, 2012

**WDEQ REVIEWER:** Jason Vreeland, P.E.

**ACTION:** **NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Chapter 3, Section 14 (a), Wyoming Water Quality Rules and Regulations (WWQRR), the application is denied because it is incomplete and/or contains errors. Please address the comments outlined below and submit the requested information/clarifications in order that the application process may be completed in accordance with Chapter 3, Section 9 of the WWQRR. If the applicant fails to provide the requested information within six months, the incomplete application shall be returned. **This review may not include all deficiencies and shall not be construed as a complete comprehensive list.**

**REVIEW COMMENTS**

- 1) WWQRR Chapter 11, Section 6(c)(v) – Please provide projected flows and wastewater characteristics for the system. The report indicates that the design flows are based on existing water use data. Further, Page 13 of the report indicates that the average and maximum daily flows are the same. Projected wastewater characteristics including BOD, suspended solids, and pH are also not addressed.
- 2) WWQRR Chapter 11, Section 7(a)(iii) – Please provide a set of plans with the name and

- seal/signature of the project engineer.
- 3) WWQRR Chapter 11, Section 7(b)(i) – For construction and ease of review, please clearly label existing and proposed elements on the plan set.
  - 4) WWQRR Chapter 11, Section 7(b)(ii) – If the sewer line from the influent manhole to the bar screen is a proposed line, please provide a plan and profile sheet.
  - 5) WWQRR Chapter 11, Section 7(d) – Please provide the technical specifications for the project.
  - 6) WWQRR Chapter 11, Section 11(d)(i) – Please indicate if the system is provided with an alternate source of power.
  - 7) WWQRR Chapter 11, Section 11(d)(ii) – The design report indicates that the proposed system would bypass the biological portion of the treatment during high flows. Complete bypassing of treatment units is prohibited. Only duplicate process units or single units where adequate downstream process capabilities are provided are allowed to be bypassed. Please revise the design accordingly.
  - 8) WWQRR Chapter 11, Section 11(l) – The plan set appears to show the bar screen outside of the treatment building. All equipment including bar screens shall be housed in heated, lighted, and ventilated structures with the structure entrance above grade. Please revise accordingly.
  - 9) WWQRR Chapter 11, Section 11(m) – Please describe what chemicals are to be stored in the chemical storage room. All toxic chemical storage areas shall be provided with lighting and ventilation that are switched from outside the room and windows to permit viewing. Floors in polymer feed and storage areas shall be provided with nonslip surfaces.
  - 10) WWQRR Chapter 11, Section 12(a)(iv) – The report calls for a coarse bubbler design in the flow equalization tank with a minimum rate of 2 cfm per 1,000 gallons of tank volume. A minimum of 20 cfm per 1,000 cubic feet or 2.7 cfm per 1,000 gallons is required for raw or screened wastewater. Please revise accordingly.
  - 11) WWQRR Chapter 11, Section 12(b)(v) – Sheet 2 of the plan set calls for a minimum velocity of 2 fps in the line from the influent collection manhole to the bar screen. The maximum approach velocity for a manually cleaned bar screen is 1.5 fps. Please revise the design accordingly while also maintaining a minimum velocity of 2 fps in the sewer system.
  - 12) Page 10, Section 6.1.5 indicates that the chlorine contact basin is not in regular service and will remain in place for use only during emergencies. Please explain the basis for increasing the capacity of the chlorine contact chamber as well as define emergency situations.
  - 13) Page 14 of the design report indicates that the flow equalization basin is sized based on the design peak hourly flow duration and the design pumping rate. Please provide the basis for these two values.
  - 14) Please explain the need for an in-line equalization basin as opposed to a side-line basin. If the justification for the larger basin is primarily for periods of high flows exceeding capacity, a side-line basin may be more appropriate. If the larger basin is justified based on providing minimum flow requirements during low use hours, please provide minimum flow rates needed to ensure the operation of the biological unit.
  - 15) Page 5 of the design report indicates an increasing problem with fats, oils, and grease flowing from the clubhouse and residences. Please provide a description of the existing grease trap system with estimated flows.

## RECOMMENDATIONS

- 1) The design flow is reported as 100,000 gpd. WWQRR regulations have several different requirements for systems more than 100,000 gpd. Design flows above the 100,000 gpd flow rate will require modifications such as two of each treatment unit and mechanically cleaned grit basins.
- 2) Page 6 of the design report indicates issues with floor drains at the maintenance shop. Consider installing a sand-oil interceptor for the shop floor drains.



# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

Todd Parfitt, Director

November 14, 2012

Homer Scott  
The Powder Horn, LLC.  
51 Powder Horn Road  
Sheridan, WY 82801

**RE: Return of Application for Powder Horn Ranch Wastewater Treatment Plant Expansion  
Permit# 12-032, Location: SW ¼ Section 34, T. 55N, R. 84W, Sheridan County, WY**

Dear Mr. Scott:

An application for a permit to construct was submitted to the Wyoming Department of Environmental Quality (WDEQ) on January 20, 2012 for the construction of upgrades to the headworks of the Powder Horn Ranch wastewater treatment facility. Subsequently a review was issued on February 27, 2012 and a formal response was submitted on September 21, 2012. The response included revisions to the original headworks upgrade application, as well as an increase to the wastewater treatment system capacity. Prior to the application, WDEQ had emailed Mark Jensik informing him that WDEQ encourages the Powder Horn to submit an application for upgrades to the headworks. At the same time, he was told that infiltration and inflow issues need to be identified and a plan to address these issues must be developed prior to the enlargement of the wastewater treatment plant. I have included this email as an attachment to this letter.

Based on the conditions discussed prior to the application requiring a plan to address infiltration and inflow issues prior to increasing the capacity of the system, it was determined that this submittal is incomplete, and in accordance with Wyoming Department of Environmental Quality/Water Quality Rules and Regulations Chapter 3, Section 14 – Denial of a Permit or Coverage under a General Permit, DEQ is returning the application materials to you.

If a plan to address the infiltration and inflow issues has been developed please provide this information to WDEQ for review and the application may be re-submitted. If a plan has not been developed please address these issues or remove the increase in capacity from the project and re-submit. If you have any questions please call me at (307) 473-3469 or Karen Farley at (307) 473-3478.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

cc: Travis Evans, P.E., Environmental and Civil Solutions, LLC., 371 Coffeen Ave., Sheridan, WY 82801  
WDEQ File  
IPS





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## powder horn sanitary sewer system

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Karen Farley <karen.farley@wyo.gov>

Fri, Nov 18, 2011 at 9:49 AM

To: markj@thepowderhorn.com

Cc: Lou Harmon <lou.harmon@wyo.gov>, Jason Vreeland <jason.vreeland@wyo.gov>

Mark,

Thanks for the information you provided on this system - the water usage records combined with the plant flows is very revealing, in my opinion.

If we look at the yearly flows and compare them with the water usage, there is a fairly significant difference between the two. Where is all of the additional water coming from? At this point, it is difficult to say without a lot more investigation. Looking at 2008, the total flows into the plant are 10.5 MG; water usage records from SAWS give 7.5MG, a difference of approximately 28%. If the collection system were comprised of vitrified clay or some other pipe material that did not use gasketed joints, I would be more inclined to attribute the additional water to infiltration; however, the system is PVC, and although some of the videos show that there are sections and areas in which the contractor used glued joints, generally speaking, the joints appear to be bell and spigot. Aside from the fact that there are many offset joints, I am not fully convinced that infiltration is the likely cause of all of the additional flows into the plant. It probably contributes, but is not the sole contributor, as you have surmised.

So that leaves the possibility that other sources of water are suspect, such as inflow (runoff from storms, irrigation, precipitation in general) or possibly groundwater making its way into the plant. I suspect that the roof drains and perimeter drains may be contributing, as well as some runoff making its way into the sewer system via manholes. I agree that the methods you are using are going to be nothing but helpful in controlling some of this, and encourage you to continue.

One item that is of concern to me, however, is the graph you provided which showed a significant spike in inflow to the plant during the months of May and June of this year. This implies that rainfall or snowmelt may be making its way to the headworks of the plant. I looked at precipitation for the Sheridan area during these two months and see that although May 2011 was twice the average, June was only slightly above. I am fairly certain, though, that snow melt was significant for most of the state, starting in June and actually in some places it never finished before winter set in again this year. So, there are lots of unanswered questions still. I can't do all of the research and analysis; this has to be done by someone else. You have a good start on collecting data, but I recommend that this continue so that the cause(s) can be identified and corrected. It is a waste of time, money, and resources to continue to correct things that may or may not have any real benefit to the overall problem, which right now appears to be that the plant is receiving more wastewater than it has been designed for and that it should be getting in the first place. Is any of the irrigation water being directed through the plant or does all of that go into the lake? Has the lift station just ahead of the treatment plant been really looked at? If the water coming through the collection system is so much higher, the pumps should be running quite a bit and I would like to know if this has been evaluated.

I do agree, however, that the improvements to the plant that you have referred to (grit channel, automated screening process, sludge bagging capability) are all beneficial towards the overall operation and efficiency of the plant. I would encourage you to immediately submit an application for permit to construct for the headworks improvements. Before the rest of the plant is enlarged, the sources of infiltration and inflow need to be identified. With that information in hand you can make better decisions on the allocation of your resources between correcting the Infiltration and Inflow (I&I) and increasing the plant capacity. Your WYPDES permit includes a requirement for 85% reduction of BOD5. The purpose and impact of that requirement is to force WWTP's to eliminate I&I so that the influent is concentrated enough to make it possible to get 85% reduction.

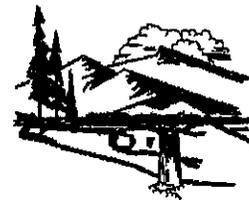
Hope this helps. If you have questions, please call or email me.

Karen L. Farley, P.E.  
Northeast District Engineer  
152 North Durbin, Ste 100  
Casper, WY 82601

307-473-3478



# Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

February 8, 2012

Dennis Jereb  
Anadarko Petroleum  
2515 Foothill Blvd., Suite 300  
Rock Springs, WY 82901

RE: Wamsutter - Anadarko Office Fire Hydrant & Water Main - Permit Number 12-033, NE 1/4 Section 27, T20N, R94W, Sweetwater County

Dear Mr. Jereb:

The above application for coverage under General Permit to Construct the extension of a public water supply distribution system consisting of about 580 linear feet of 8-inch PVC water main and one fire hydrant 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. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

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

Sincerely,

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

PDF to Cheyenne

xc: Edward P. Nowak, P.E., Camp Creek Engineering, 410 E. Grand Ave., Suite 205, Laramie, WY 82070

Page 1 of 1





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Matthew H. Mead, Governor

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John Corra, Director

February 22, 2012

Steven M. Bruce, P.E.  
Bruce Engineering  
P.O. Box 2284  
Gillette, WY 82717

RE: Alpha Coal Land Company Shop Septic System  
Location: NE ¼, T. 47N, R. 72W, Campbell County  
WDEQ Application #12-034

Dear Mr. Bruce:

We have completed our review of the permit application submitted on February 9, 2012. Attached you will find a summary of the review comments. Please provide the information requested as soon as possible. Please feel free to contact me at (307) 473-3469 should you have any questions related to these comments or the application and review process.

Sincerely,

Jason Vreeland, P.E.  
Assistant Northeast District Engineer  
WDEQ/WQD

Attachments: WDEQ Comments

cc: Murphy Love, Alpha Coal Land Company, P.O. Box 3039, Gillette, WY 82717  
IPS  
WDEQ File



**REVIEW OF PLANS & SPECIFICATIONS**  
**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**WATER QUALITY DIVISION**  
**152 North Durbin Street, Suite 100**  
**Casper, Wyoming 82601**  
**Phone (307) 473-3465**

**PROJECT:** Alpha Coal Land Company Shop Septic System

**LOCATION:** Campbell County, Wyoming

**ENGINEER:** Bruce Engineering

**APPLICANT:** Murphy Love, Alpha Coal Land Company

**WATER QUALITY DIVISION APPLICATION NUMBER: 12-034**

**DATE ON PROPOSAL/PLANS/REPORT:** February 8, 2012

**DATE RECEIVED BY DEQ:** February 9, 2012

**DATE OF THIS REVIEW:** February 14, 2012

**WDEQ REVIEWER:** Jason Vreeland, P.E.

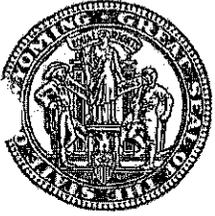
**ACTION: NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Chapter 3, Section 14 (a), Wyoming Water Quality Rules and Regulations (WWQRR), the application is denied because it is incomplete and/or contains errors. Please address the comments outlined below and submit the requested information/clarifications in order that the application process may be completed in accordance with Chapter 3, Section 9 of the WWQRR. If the applicant fails to provide the requested information within six months, the incomplete application shall be returned. **This review may not include all deficiencies and shall not be construed as a complete comprehensive list.**

**COMMENTS**

- 1) WDEQ conventional septic systems application package requires that three bedroom mobile homes are design using a design flow of 500 gpd. Please provide justification for a lower flow rate or revise the absorption field sizing.
- 2) Page 3 indicates that the water source is a private well. Please provide the SEO well number.
- 3) Please indicate if this is an existing shop, the size of the shop, and what is currently being used for wastewater disposal.
- 4) Please provide the septic tank manufacturer, model, and size as well as the estimated backfill over the tank.
- 5) Page 3 indicates that a photograph was taken of the soil horizon but doesn't appear to be

included with the report. Please provide this photograph.

- 6) Please clarify what type of absorption field is proposed for this system. If chambers are to be used, provide information on the type of chamber proposed and size the absorption field accordingly. WDEQ's conventional septic systems application package for permit to construct provides equivalent areas to be used for specific types of chambers with the allowed reduction already taken into account. If a pipe system is to be used, please provide the width of the trench as well as the depth of rock to be installed beneath the pipe and size the absorption field accordingly.
- 7) Page 4 gives the owner the option to reduce the trench length by 50%. The equivalent areas mentioned above already provide for the reduction. The owner may not reduce the trench length but may double the absorption field area to eliminate the reduction if desired. Further, WDEQ policy allows for up to a 50% reduction in the bottom infiltrative surface area which is not necessarily the same as a 50% reduction in the length of the trench.
- 8) Flow-dividing tees or distribution boxes are required to evenly split flow between trenches. Please indicate the use of either flow-dividing tees or distribution boxes on the site plan.



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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

March 19, 2012

Murphy Love  
Alpha Coal West, Inc.  
P.O. Box 3039  
Gillette, WY 82717

RE: Alpha Coal Land Company Shop Septic System  
Application No. 12-034, Campbell County

Dear Mr. Love:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1,000 gallon Norwesco septic tank discharging into two trenches of Biodiffuser Standard Chambers approximately 94 feet in length each, for a three employee field shop located in the NE ¼, Section 10, Township 47N, Range 72W, Campbell County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2013.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Additionally, the following permit condition applies:

1. Flow-divider tees or a distribution box is required to evenly split flow between trenches or rows for a bed system. Standard tees are not an adequate substitute for flow-dividing tees.

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

cc: IPS, Cheyenne  
WDEQ Casper File  
Steven M. Bruce, P.E., P.O. Box 2284, Gillette, WY 82717

Cheyenne  
122 West 25<sup>th</sup> Street 82002  
(307) 777-7937

Lander  
510 Meadowview Drive 82520  
(307) 332-3144

Sheridan  
2100 W. 5<sup>th</sup> Street 82801  
(307) 673-9337





Matt Mead, Governor

# Department of Environmental Quality

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John Corra, Director

## NOTIFICATION OF COVERAGE

February 13, 2012

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

RE: Rock Springs - RV Park Water Distribution System - Permit Number 12-035, N 1/2, Section 10, T19N, R105W Sweetwater County

Dear Mr. Kauchich:

The above application for coverage under General Permit to Construct the extension of a public water distribution system consisting of about 70 linear feet (LF) of 6-inch PVC Water Main and 7100 LF of 4-inch PVC Water Main to serve 467 recreation vehicle spaces 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 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. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

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

Sincerely,

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

PDF to Cheyenne  
Daniel Kennedy, P.E., JFC Engineers Surveyors, Inc., 1515 Ninth St., Suite A, Rock Springs, WY 82901





Matt Mead, Governor

# Department of Environmental Quality

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John Corra, Director

## NOTIFICATION OF COVERAGE

March 14, 2012

Thunder Creek Gas Services, LLC  
Attn: Marvie Brown, Plant Manager  
P.O. Box 108838  
Oklahoma City, OK 73101

RE: Thunder Creek Gas Plant Office & Control Room Septic System,  
Application No. **12-037, Converse County**

Dear Mr. Brown:

The above application for coverage under **General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility** consisting of a 1300 gallon, three compartment, NORWECO® Singulair Green® Biokinetic® septic treatment system discharging into about 80 feet of chamber type trench leachfield divided into four equal length trenches of 4 *Infiltrator* brand, Quick4 model chamber units each, for a 4 employee office and control room, located in the **SE¼ NE¼, Section 33, T33N, R73W, Converse County**, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with **Chapter 11, PART D** of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **March 14, 2014**.

This **Notice of Coverage** is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General Permits can be viewed at the following path:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Please reference Application No. **12-037** in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or by phone at (307) 777-6183.

Sincerely,

Ronald L. Ewald  
Assistant Southeast District Engineer  
Southeast District, Water & Wastewater Section  
Water Quality Division

RLE/rm/12-0189

Enclosures: Certificate of Completion

cc: IPS, Cheyenne

Robert Bennett, 6080 Enterprise Drive, Casper, Wyoming 82609

Holly Richardson, Converse County Office of Special Projects, 107 N. 5<sup>th</sup>, Suite B-6,

Douglas, Wyoming 82633

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	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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WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-038

Reference Permit No. 11-140

Washakie County Septage Treatment Facility's Air Gap, Tank, and Booster Pumps

This permit hereby authorizes the applicant:

Ron Harvey, Chairman  
Washakie County Commission  
P.O. Box 260  
Worland, WY 82401

to install a 5,000-gallon water tank, two booster pumps, and create an air gap near the connection to the Honey Monster, according to the procedures and conditions of the application number 12-038. This project was brought about to comply with the City of Worland's Requirement to provide an air gap between potable water and non-potable water lines. This project is located at Section 22, Township 47 North, and Range 92 West in the county of Washakie, in the state of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by May 31, 2016.

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

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

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

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

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

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

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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Northwest District Engineer, 510 Meadowview Dr., Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
- a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

John F. Wagner  
Administrator  
Water Quality Division

John V. Corra  
Director  
Department of Environmental Quality

3-30-12

Date of Issuance

JSB/rm/12-0282

## STATEMENT OF BASIS

1. Permit Number: 12-038
2. Application reviewed for compliance with the following regulations:  
Chapters 3 and 12 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above? Yes
4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.  
  
No
5. If Section 17 of Chapter 3 is applicable, indicate the basis of determining groundwater will be protected.  
  
Public water supplies are exempted from review by Chapter 3, Section 17.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by James Brough, jamesbrough@wyo.gov, Northwest District Engineer and completed on May 13, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

cc: Robert Overfield, P.E., Engineering Associates, P.O. Box 1900, Cody, WY 82414  
Heath Overfield, P.E., Engineering Associates, 429 Broadway, Thermopolis, WY 82443  
Bruce Frederick, Washakie County, 1001 Big Horn Ave., Suite 104, Worland, WY 82443

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-039

Green River - 2012 Water Tank Utility Project  
PWS WY5601181

This permit hereby authorizes the applicant:

David G. Westling  
City of Green River  
50 East 2<sup>nd</sup> North  
Green River, WY 82935

to construct finished water storage tank overflow air gaps for the Upland Tank and the Teton Tank according to the procedures and conditions of the application number 12-039. The facilities are located in the City of Green River in NE ¼ Section 34, T18N R107W for the Upland Tank and in SW ¼ Section 35, T18N, R107W for the Teton Tank in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by April 2, 2014.

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

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

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

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

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

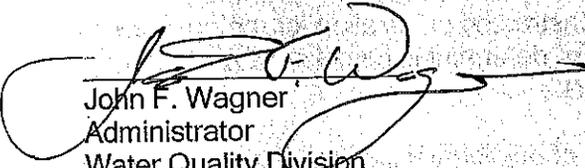
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

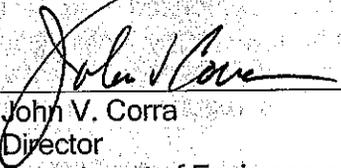
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 4      The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadow View Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-7726, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 4      Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
- a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 4      The integrity of each anti-intrusion device (Tideflex Check Valve) for the Teton and Upland Tank overflows must be checked at least every three months. A written record of the inspection date, name of the inspector and findings of the inspections must be kept at the City of Green River's Public Works Department. These inspection reports must be made available upon request.
- 4 of 4      The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

4-5-12  
Date of Issuance  
MDB/rm/12-0295

## STATEMENT OF BASIS

1. Permit Number: 12-039
2. Application reviewed for compliance with the following regulations:  
Yes. Chapters 3, and 12 of the Wyoming Water Quality Rules and Regulations.
3. Chapter 12, Section 13 (a)(vi) requires that storage tank overflow pipes shall be located such that the tank discharge is visible. Because of very steep grades at both the Upland and Teton tanks the overflow air gaps not readily visible and must be place in concrete manholes. The overflow air gap design is based on WDEQ/WQD Policy 14.13.2.
4. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
Not Required.
5. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

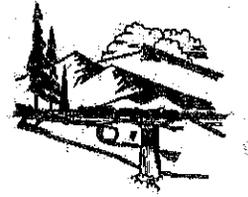
## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mark.baron@state.wy.us, Southwest District Engineer and completed on April 2, 2012. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."



# Department of Environmental Quality

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



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

April 4, 2012

Steve Miller  
P.O. Box 6112  
Sheridan, WY 82801

**RE: Return of Application for SMC, LLC Septic System- Lot 3 Indian Paintbrush Estates  
Permit# 12-040  
Location: NW ¼ Section 21, T. 55N, R. 84W, Sheridan County, WY**

Dear Mr. Miller:

An application for a permit to construct was submitted to the Wyoming Department of Environmental Quality (WDEQ) on February 16, 2012 for the construction of a wastewater treatment system on Lot 3, Indian Paintbrush Estates. The application was reviewed and a list of comments was sent to Sheridan County Public Works Department for a joint Sheridan County/WDEQ review on February 16, 2012 with subsequent correspondence on the comments.

Based on information from the Sheridan County Public Works Department the application for a permit to construct a wastewater treatment system is no longer needed through WDEQ. Therefore, in accordance with Wyoming Department of Environmental Quality/Water Quality Rules and Regulations Chapter 3, Section 14 – Denial of a Permit or Coverage under a General Permit, DEQ is returning the application materials to you.

If you have any questions please call me at (307) 473-3469.

Sincerely,

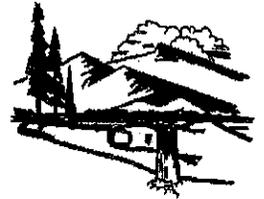
Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

cc: Ken Muller, P.E., Sheridan County Public Works Department  
Aaron Rosenlund, P.E., P.O. Box 199, Ranchester, WY 82839  
WDEQ File  
IPS





# Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

February 17, 2012

Paul Kauchich, P.E.  
Joint Powers Water Board  
P.O. Box 1299  
Green River, WY 82935

RE: Rock Springs - Signal and Yellowstone Road Water Main Improvements - Permit Number 12-041, SW ¼, Section 10, T19N, R105W Sweetwater County

Dear Mr. Kauchich:

The above application for coverage under General Permit to Construct the extension of a public water distribution system consisting of about 7426 linear feet (LF) of 12-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 Permits. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

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

Sincerely,

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

PDF to Cheyenne  
Daniel Kennedy, P.E., JFC Engineers Surveyors, Inc., 1515 Ninth St., Suite A, Rock Springs, WY 82901



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-042

Reliance Finished Water Storage Tank and the Yellowstone Cross Chlorine Reinjection Station  
PWS WY5600050C

This permit hereby authorizes the applicant:

Ben Bracken  
City of Green River, City of Rock Springs and Sweetwater County  
Joint Powers Water Board  
P.O. Box 1299  
Green River, WY 82935

to construct a 500,000 gallon concrete finished water storage tank with control vault for the Reliance area along with a chlorine reinjection station at the Yellowstone Cross according to the procedures and conditions of the application number 12-042. The facilities are located about (Tank) 0.5 miles northeast of Reliance in Lot 7, Section 31, T20N, R104W and about (Reinjection) 3.5 miles southwest of Reliance in Section 4, T19N, R105W in the county of Sweetwater, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by April 16, 2014.

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

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

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

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

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

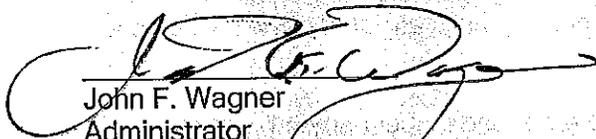
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

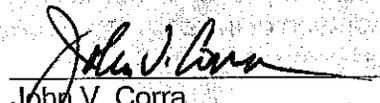
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 4      The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadow View Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-7726, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
  
- 2 of 4      Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
  
- 3 of 4      Final designs of both the water storage tank vent and overflow screen are to be based on additional Wyoming DEQ and EPA input and will be considered by the engineer before construction.
  
- 4 of 4      The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

4-27-12  
Date of Issuance

MDB/rm/12-0381

## STATEMENT OF BASIS

1. Permit Number: 12-042
2. Application reviewed for compliance with the following regulations:  
Yes. Chapters 3, and 12 of the Wyoming Water Quality Rules and Regulations.
3. Chapter 12, Section 13 (a)(viii)(B) requires that for ground level structures the tank vent shall terminate in an inverted U construction. A shroud type tank vent has been proposed. The requirements for vent construction based on additional Wyoming DEQ and EPA input will be consider by the engineer before installing the shroud type tank vent.
4. Chapter 12, Section 13 (a)(vi)(B) requires that the overflow of a ground level structure shall open downward and be screened with noncorrodible screen. This section does not specify the size of the overflow screen. The requirements for the overflow screen construction based on additional Wyoming DEQ and EPA input will be considered by the engineer before installing the overflow screen.
5. If a Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
Not Required.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark D. Baron, P.E., mark.baron@state.wy.us, Southwest District Engineer and completed on April 16, 2012. 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."



# State Engineer's Office

HERSCHLER BUILDING, 4-E CHEYENNE, WYOMING 82002  
(307) 777-7354 FAX (307) 777-5451  
seoleg@seo.wyo.gov

MATTHEW H. MEAD  
GOVERNOR

PATRICK TYRRELL  
STATE ENGINEER

8 November 2011

Karen L. Farley, P.E.  
DEQ, WQD, Northeast District  
152 North Durbin Street – Suite 100  
Casper, Wyoming 82601

RE: Salt Creek Heights Business Center Phase I, Natrona Co., WDEQ Application #11-384

Dear Ms. Farley:

State Engineers Office staff has reviewed the submittal referenced above in compliance with W.S. 18-5-306(c)(i). The Salt Creek Heights Business Center, PUD Master Plan encompasses portions of lands within Sections 5 and 6 of Township 33 North, Range 79 West as well as portions of lands within Sections 31 and 32 of Township 34 North, Range 79 West. The submittal states that water and sewer service to the site is proposed to be provided from connections to the City of Casper's water and sewer systems. As a part of this review a preliminary water right search in the area of the lands proposed to be subdivided was conducted. Based upon a review of the information submitted, we offer the following comments:

1. Various Municipal Use (Surface and Ground) water rights in the name of the City of Casper do encompass and recognize the proposed PUD and the phase I subdivision lands as being within areas permissible to be serviced by numerous City of Casper water rights. Periodically, updated service area maps are provided, and this practice is acceptable to the State Engineers Office.
2. Our search also revealed existing and subject reservoir water rights of record as attaching to the subdivision lands. However, the submittal made no reference to the planned disposition of these rights, as outlined under Wyoming Statute 18-5-306 (a) (xi). Please note that as of the date of this letter the Board of Control Division of the State Engineers Office had not received this required documentation.

Because of concerns outlined in item 2, the State Engineers Office is non-supportive of approving the development of the proposed subdivision at this time. In all correspondence regarding this review please reference State Engineer Review Number 2011-26-11. If you have any questions, please feel free to contact me at (307) 777-6166, or if you prefer email, my address is [mike.ebsen@wyo.gov](mailto:mike.ebsen@wyo.gov). Thank you for this opportunity to comment.

Sincerely,

Mike Ebsen  
Cooperative Programs Coordinator

Surface Water  
(307) 777-6475

Ground Water  
(307) 777-6163

Board of Control  
(307) 777-6178

Cc: Lou Harmon, DEQ-WQD, Environmental Program Manager  
John Barnes, Administrator, Surface Water Division  
Lisa Lindemann, Administrator, Ground Water Division  
Allan Cunningham, Administrator, Board of Control Division  
Randy Tullis, Superintendent, Water Division I  
Jack Gibson Hydrographer-Commissioner, Water District 11  
Scott Sissman, Amoco Reuse Joint Powers Board, 2435 King Blve., Casper, WY 82604  
Gene Wallace, Natrona County Planning Office, 200 North Center-Rm 202, Casper, WY 82601  
Rocky Carns, P.E., JR Engineering, LLC, 7200 S. Alton way C100, Centennial, CO 80112



# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

February 21, 2012

Chairman  
Natrona County Board of County Commissioners  
200 North Center  
Casper, WY 82601

RE: **Non-Adverse Recommendation**, Salt Creek Heights Business Center Phase I, Natrona County  
WDEQ Application #12-043

Dear Commissioners:

The Wyoming Department of Environmental Quality has completed the review of the proposed Salt Creek Heights Business Center Phase I, located in Section 5 and the NE ¼ of Section 6, Township 33 North, Range 79 West, Natrona County, WY, adjacent to the City of Casper. The subdivision will be comprised of 27 lots, with proposed land uses of office, hospitality and service center services, small scale light industrial, light impact medium industrial and large industrial.

The information was submitted by JR Engineering, LLC, signed by Rocky Carns, P.E., a Wyoming Licensed Professional Engineer. This letter represents the recommendations of the Wyoming Department of Environmental Quality as required by W.S. §18-5-306 (c).

**Findings as to the safety and adequacy of the proposed sewage system:**

The proposed sewage system is to connect to the existing sanitary sewer mains that were installed during the initial development of the area. The improvements for this Phase I have already been permitted by the City of Casper. The information submitted addresses the safety and adequacy of the proposed sewage system.

**Findings as to the safety and adequacy of the proposed water system:**

The proposed water system is to connect on to the City of Casper water system. The City of Casper has already permitted the proposed improvements for this Phase I area. The information submitted addresses the safety and adequacy of the proposed water system.

**State Engineer's Office (SEO) Comments:**

The State Engineer's Office (SEO) has previously provided comments pertaining to this proposed subdivision. At the time, the SEO stated that they were generally NOT SUPPORTIVE, due to questions about existing and subject reservoir water rights of record. Please know that as of today, we have not received further information from the SEO that this has been resolved. We understand that this may have been addressed, but we were not notified if it has been. We have attached the previous comments from the SEO with this correspondence.



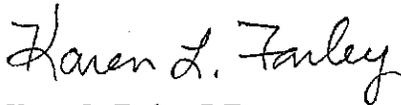
**Conclusions:**

The Wyoming Department of Environmental Quality has "No Adverse" recommendations applicable to the Salt Creek Heights Business Park Phase I subdivision.

**Disclaimer:**

Nothing in Wyoming Department of Environmental Quality recommendations or comments regarding the JR Engineering, LLC proposal for the Salt Creek Heights Business Park Phase I Subdivision shall be construed to relieve Refined Properties, LLC, of the obligation to obtain any permits or additional approval from any local, state, or federal agencies as required by law, rules, regulations, or ordinances. Nothing in these recommendations commits the Wyoming Department of Environmental Quality, City of Casper, or Natrona County to the issuance of required permits for construction, operation, or modification of the existing sanitary sewer and water supply.

Sincerely,



Karen L. Farley, P.E.  
Northeast District Supervisor  
Water and Wastewater Program, Wyoming Water Quality Division

Enc. SEO Comments

cc: Amoco Reuse Agreement Joint Powers Board, Alice Kraft, 2435 King Blvd., Suite 300, Casper, WY 82604  
Refined Properties, LLC, Richard Bratton, 747 West First Street, Casper, WY 82602  
Gene Wallace, Natrona County Planning Office, 200 North Center, Rm 202, Casper, WY 82601  
Rocky Carns, P.E., JR Engineering, LLC, 7200 S. Alton Way C100, Centennial, CO 80112  
Dave Hill, City of Casper  
WDEQ Subdivision file  
IPS (Cheyenne)



# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

June 6, 2012

Jessica Weinman  
United States Department of Interior, National Parks Service  
P.O. Box 10  
Devils Tower, WY 82720

RE: Devils Tower National Monument Wastewater System  
Application No. 12-044, Crook County

Dear Ms. Weinman:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of three Presby AES systems and associated septic tanks, for three comfort stations located in the NE ¼, Section 18, Township 53N, Range 65W, Crook County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **December 31, 2013**.

This Notification of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Additionally, the following permit condition applies:

1. Coordinate with Crook County personnel as well as WDEQ personnel a minimum of 24 hours prior to the completion of construction to schedule inspections of the systems.

If you have any questions, please contact me at 307-473-3469.

Sincerely,

Jason Vreeland, P.E.  
Assistant NE District Engineer  
WDEQ/WQD

cc: IPS, Cheyenne  
WDEQ Casper File  
Tim Lyons, Crook County Growth and Development  
David Schiess, P.E., Schiess & Associates, 7103 South 45<sup>th</sup> West, Idaho Falls, ID 83402

Cheyenne  
122 West 25<sup>th</sup> Street 82002  
(307) 777-7937

Lander  
510 Meadowview Drive 82520  
(307) 332-3144

Sheridan  
2100 W. 5<sup>th</sup> Street 82801  
(307) 673-9337



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-045

Jim Bridger Power Plant - FGD Pond 2 - Dikes V and VI Improvements

This permit hereby authorizes the applicant:

Robert P. Arambel  
PacifiCorp  
P.O. Box 158  
Point of Rocks, WY 82942

to construct increased dike height from two to four feet on interior dikes V and VI at various locations according to the procedures and conditions of the application number 12-045. The facility is located approximately 35 miles east of the City of Rock Springs and 8 miles north of Point of Rocks within 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 February 21, 2013.

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

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

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

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

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

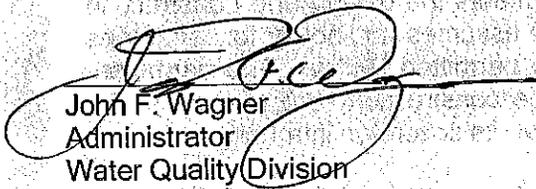
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

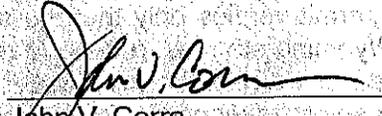
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 3 The applicant will provide immediate oral or written notice to the Wyoming Department of Environmental Quality, Water Quality Division (WQD), Southwest District Engineer, 510 Meadowview Drive, Lander, WY 82520, 307-332-3144, FAX 307-332-3183, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northwest District a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 of 3 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

2-24-12  
Date of Issuance

MDB/rm/12-0118

cc: Michael Meyer, P.E., PacifiCorp Energy, P.O. Box 158, Point of Rocks, WY 82942

## STATEMENT OF BASIS

1. Permit Number: 12-045
2. Application reviewed for compliance with the following regulations:  
Chapters 3, and 11 of the Wyoming Water Quality Rules and Regulations.
3. Does the permit comply with all applicable regulations identified above?  
No.
4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.  
PacificCorp is increasing interior dike heights to contain FGD wastewater east of dikes V and VI within FGD Pond 2. Final plans and specifications will be submitted when an engineering study has been completed. The study will address how to use FGD Pond 2 to meet future coal combustion byproduct disposal regulations.
5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
FDG Pond #2 has an existing groundwater monitoring and remediation system.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Mark Baron P.E. Southwest District Engineer, mark.baron@wyo.gov and completed on February 21, 2013. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents permit conditions, and the items identified in this "Statement of Basis."



# Department of Environmental Quality

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Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 · Casper, WY 82601 · (307) 473-3450

John Corra, Director

## NOTIFICATION OF COVERAGE

May 10, 2012

Lane Thompson, P.E.  
City of Sheridan  
P.O. Box 848  
Sheridan, WY 82801

RE: West Downtown Phase III Improvements Project  
Permit No. 12-046, NE ¼, Section 27, T56N, R84W, City of Sheridan, WY

Dear Mr. Thompson:

The above application for coverage under General Permits to Construct modifications to a Public Water Supply System consisting of the replacement of existing 4" and 6" water mains with 12" and 16" PVC water mains, and modifications to a Public Sewage Collection System consisting of the removal and replacement of existing 8" sewer mains with 8" PVC sewer mains, in accordance with Chapter 3, Section 7 and Chapter 11 and Chapter 12 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facilities in accordance with the General Permits and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permit. These General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

All construction, installation, or modification allowed by this Notification of Coverage shall be completed by December 31, 2013.

If you have any questions, please contact me at 307-473-3478.

Sincerely,

Karen L. Farley, P.E.  
NE District Engineer  
WDEQ/WQD

cc: PDF to Cheyenne  
WDEQ Casper File  
David Engels, P.E., EnTech, Inc. Professional Engineers, 1949 Sugarland Drive, Suite 205, Sheridan, WY 82801





# Department of Environmental Quality

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environment for the benefit of current and future generations.*



Matthew H. Mead, Governor

152 N. Durbin St., Suite 100 • Casper, WY 82601 • (307) 473-3450

John Corra, Director

March 22, 2012

David Engels, P.E.  
Entech, Inc.  
1949 Sugarland Drive  
Suite 205  
Sheridan, WY 82801

RE: West Downtown Phase III Improvements Project  
Location: NE ¼, Section 27, T. 56 N, R. 84 W, Sheridan, WY  
WDEQ Application #12-046

Dear Mr. Engels:

We have completed our review of the permit application submitted on February 21, 2012. Attached you will find a summary of the review comments. Please provide the information requested as soon as possible. Please feel free to contact Jason at (307) 473-3469 or Karen Farley at (307)-473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

Jason Vreeland, P.E.  
Assistant Northeast District Engineer  
WDEQ/WQD

Karen L. Farley, P.E.  
Northeast District Engineer  
WDEQ/WQD

Attachments: WDEQ Comments

cc: Lane Thompson, P.E., City of Sheridan, P.O. Box 848, Sheridan, WY 82801  
IPS  
WDEQ File



**REVIEW OF PLANS & SPECIFICATIONS**  
**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**WATER QUALITY DIVISION**  
**152 North Durbin Street, Suite 100**  
**Casper, Wyoming 82601**  
**Phone (307) 473-3465**

**PROJECT:** West Downtown Phase III Improvements Project

**LOCATION:** Sheridan, Wyoming

**ENGINEER:** David Engels, P.E., Entech, Inc.

**APPLICANT:** Lane Thompson, P.E., City of Sheridan

**WATER QUALITY DIVISION APPLICATION NUMBER: 12-046**

**DATE ON PROPOSAL/PLANS/REPORT:** February 20, 2012

**DATE RECEIVED BY DEQ:** February 21, 2012

**DATE OF THIS REVIEW:** March 22, 2012

**WDEQ REVIEWER:** Jason Vreeland, P.E., Karen Farley, P.E.

**ACTION: NOT AUTHORIZED FOR CONSTRUCTION.** In accordance with Chapter 3, Section 14 (a), Wyoming Water Quality Rules and Regulations (WWQRR), the application is denied because it is incomplete and/or contains errors. Please address the comments outlined below and submit the requested information/clarifications in order that the application process may be completed in accordance with Chapter 3, Section 9 of the WWQRR. If the applicant fails to provide the requested information within six months, the incomplete application shall be returned. **This review may not include all deficiencies and shall not be construed as a complete comprehensive list.**

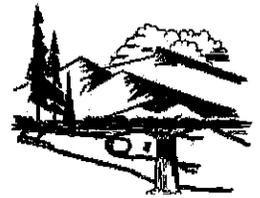
**WDEQ COMMENTS**

- 1) WWQRR Chapter 12, Section 14(b)(i) – Please provide more information on the modeled system including assumptions, modeling output, and hydrant test data.
- 2) WWQRR Chapter 12, Section 14(b)(iii) – The design report indicates that a fire flow of 1,500 gpm was used for modeling purposes. Please verify this is an appropriate minimum fire flow for this area; i.e. the heritage towers, YMCA, and any planned development.



# Department of Environmental Quality

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



Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

March 20, 2012

Cheyenne Board of Public Utilities  
Attn: Herman Noe, Engineering Manager  
P.O. Box 1469  
Cheyenne, Wyoming 82003

RE: My Place Hotel – Water & Sewer Extensions,  
Application No. **12-047**, **Laramie County**

Dear Mr. Noe:

The above application for coverage under **General Permit to Construct**, Install, Modify or Operate Extensions to or Modifications of Existing Public **Water Supply Distribution Systems** consisting of approximately 626 feet of 8" PVC C-900 water pipe, three gate valves, and two fire hydrants, and Existing **Sewage Collection Systems** consisting of approximately 495 feet of 8" sewer pipe, and three new manholes, located in the NE¼, **Section 01, T13N, R67W, Laramie County** in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with **Chapter 12, Section 14** of the Water Quality Division Rules and Regulations, the 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. All construction, installation, or modification allowed by this Notification of Coverage shall be completed by **March 20, 2014**.

This Notice of Coverage is covered under the General Permits on the Wyoming Department of Environmental Quality webpage. The General permits can be viewed at the following path:

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

Please reference Application No. **12-047** in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or by phone at (307) 777-6183.

Sincerely,

Ronald L. Ewald  
Assistant Southeast District Engineer  
Water Quality Division

RLE/rm/12-0218

Enclosures: Certificate of Completion form

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





# Department of Environmental Quality

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Matthew H. Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

March 8, 2012

U.S. Bureau of Reclamation  
Attn: Tom Sawatzke, Acting Area Manager  
P.O. Box 1630  
Mills, Wyoming 82644

RE: Guernsey State Park Shower House Water & Sewer Improvements

Application No. 12-048  
Platte County

Location: NW¼, Section 27, T27N, R66W,

Dear Mr. Sawatzke:

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 consisting of 1½ inch water service line connected to an existing water supply line, curb stops, and an approved backflow prevention device inside the shower building; and to Construct and Install a Small Wastewater Facility consisting of a 3000 gallon DEQ approved septic tank discharging into about 660 feet of chamber type trench leachfield divided into 11 equal length sidehill trenches of 15 Infiltrator brand, Quick4 High Capacity model chamber units each 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, and the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permits, 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 permits. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway **from each compartment of the septic tank must be extended to the ground surface.**
2. Leachfield Header Sidehill Distribution Requirement - the overflow pipe (outflow pipe) from an uphill trench to a downhill trench shall exit the Infiltrator row end cap piece 4 to 6 inches lower than the elevation that the inflow pipe enters at. See sketch on Sheet C-105.



The approval granted under this Notification Of Coverage and the General Permit shall expire on March 8, 2014. Please reference Application Number 12-048 in any future correspondence.

If you have any questions, please contact me at either [ron.ewald@wyo.gov](mailto:ron.ewald@wyo.gov) or (307) 777-6183.

Sincerely,



Ronald L. Ewald  
Assistant Southeast District Engineer  
Water Quality Division

RLE/rm/12-0161

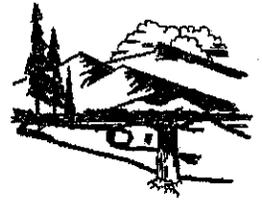
Enclosures: GENERAL PERMIT - Extensions/Modifications of Existing Public Water  
Supply Distribution Systems  
GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion form

cc: IPS, Cheyenne  
Erin M. Gates, BenchMark Engineers, P.C., 1920 Thomes Avenue, Suite 620,  
Cheyenne, Wyoming 82001

- 3) WWQ Policy 13.9.13 -- Please provide a letter from the City of Sheridan indicating their approval of a very low slope design. In addition, please note the additional requirements in the policy that may require special provisions or additional specifications.
- 4) WWQRR Chapter 12, Section 6(b)(ii) -- Please provide the projected water demands for the future development at station 293+71.
- 5) WWQRR Chapter 11, Section 9(c)(iii) -- Sheet WS02 appears to show an existing service line connecting into a proposed MHSA-04. Service lines must be connected with a wye or tee for new construction. Further, the existing line appears to miss the manhole. Please address.
- 6) WWQRR Chapter 11, Section 9(d)(v) -- Sheet WS02 shows manhole MHSA-04 to be constructed near the flow line of the gutter. Manhole covers are to be watertight in areas subject to flooding. Please address.



# Department of Environmental Quality



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Matt Mead, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

February 23, 2012

C. Douglas Dowlin  
P.O. Box 992  
Rawlins, WY 82301

RE: Wamsutter - Latham Avenue and Crooks Gap Road - Permit Number 12-049, Wamsutter Industrial Park Lot 15, 797 Latham Ave., Lat 41.665, Long -107.968611, NE ¼ SE ¼, Section 34, T20N, R94W, Sweetwater County

Dear Mr. Dowlin:

The above application for coverage under General Permit to Construct the extension of a sewage collection system consisting of about 400 linear feet of 6-inch PVC sewer main in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the General Permits. These General Permit requirements can be downloaded from the Wyoming Department of Environmental Quality webpage. The General Permits can be found under the Water Quality Division Water and Wastewater Program, Engineering and Technical Services at :

[http://deq.state.wy.us/wqd/www/Permitting/Pages/general\\_permits.asp](http://deq.state.wy.us/wqd/www/Permitting/Pages/general_permits.asp)

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

Sincerely,

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

PDF to Cheyenne  
Edward M Rajnovich, P.E., WLC Engineering, 1015 Harshman St., Rawlins, WY 82301  
Rebecca Matthews, Town of Wamsutter, P.O. Box 6, Wamsutter, WY 82336



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 12-050

REFERENCE PERMIT NO. 83-682, 99-185, 99-459, 11-160

ROCK RIVER MEMBRANE FILTRATION  
WATER TREATMENT PLANT UPGRADES  
PWS WY5600048

This permit hereby authorizes the applicant:

TOWN OF ROCK RIVER  
P. O. BOX 280  
Cheyenne, WY 82083-0280

to construct, install or modify a new chemical feed pump for coagulant, two new 200 micro self cleaning pre-filter, new acid feed pump, a new 2,200 gallon aging tank, a new caustic feed pump, new chlorination system, new turbidity meters, a UV254 analyzer, clearlogx system, upgrade scada, new membrane modules, new air compressors according to the procedures and conditions of the application number 12-050. The facility is located in SE ¼ Section 31, T21N R76W; Albany County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed March 2, 2014.

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

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

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

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

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

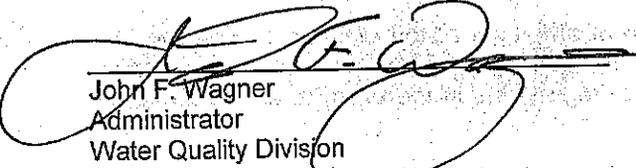
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

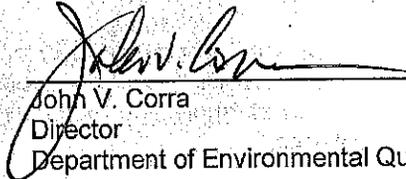
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 The applicant will provide immediate oral or written notice to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002, Phone 307-777-7075, FAX 307-777-7610, 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 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District, Water Quality Division, Herschler Building 4 West, Cheyenne, WY, 82002 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate of Completion" has been provided.
  - a. Date that construction of the facility was completed; and
  - b. Date that the facility was placed in operation; and
  - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
  - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate is required. All modifications or deviations from the authorized plans must be highlighted.
- 3 The proposed chemical pretreatment must consistently achieve finished water TOC at less than 2.0 mg/l in order to assure the TTHM/HAA5 compliance for the Stage2.
- 4 The finished water UV254 must consistently be maintained at less than 0.025.
- 5 A draft operation and maintenance manual for the membrane filtration and pretreatment of the Water Treatment Plant must be submitted at 50 percent completion of construction to the Southeast District Engineer of the Water Quality Division for approval. Approval of the final operation and maintenance manual is required prior to completion of construction.
- 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

Date of Issuance 3-2-12

RRC/rm/12-0148

cc: Lyn Hill, Dowl HKM, P.O. Box 70, Laramie, WY 82073

## STATEMENT OF BASIS

1. Permit Number: **12-050**
2. This application was reviewed for compliance with the applicable regulations ;  
Chapters 3, 12
3. Does the permit comply with all applicable regulations identified above?  
Yes
4. The permit approval is based upon a deviation from applicable regulations in accordance with Section 5. of Chapter 12.
  - a. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.  
Chapter 12, Section 5 allows approval of technologies demonstrated by pilot plant operations. The use of Micro-filtration technology and Clearlogx system technology to treat the Rock River raw water was successfully demonstrated under Notification of Coverage 11-160.
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 was not required.  
Public water supplies are exempted from review by Chapter 3, Section 17.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Richard Cripe P.E., Southeast District Engineer, Water and Wastewater Section, Wyoming Department of Environmental Quality /Water Quality Division, and completed on March 2, 2012. 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."