



Department of Environmental Quality

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



Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

January 11, 2011

Cal Vanzee
City of Laramie
P.O. Box C
Laramie, WY 82073

RE: Laramore Addition Planned Unit Development; Water & Sanitary Sewer, Application No. 10-501, Albany County

Dear Mr. Vanzee:

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 1185 ft of 8 inch sanitary sewer, install six new manholes, installation of five new fire hydrant, and installation of approximately 1760 ft of 8 inch water line, NW ¼ Section 4, T15N, R73W; Albany County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by January 11, 2013.

The HDPE pipe will be connected by heat fusion methods.

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. Please reference Application No. 10-501 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/11-0069

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
Christie Roberts, Gertsch / Baker & Assoc, 104 S. 4th St. Suite 100, Laramie, WY 82070



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 10-502

REFERENCE PERMIT NO. 93-156, 94-523

CHEYENNE-BOPU-2011 WELL REHAB, WEBER #1
PWS WY5600011

This permit hereby authorizes the applicant:

CITY OF CHEYENNE BOPU
2100 PIONEER AVE
CHEYENNE, WY 82001

to construct, install or modify a 50 hp pump, VFD, electrical panels, new well housing, piping, scada and pitless adapter according to the procedures and conditions of the application number 10-502. The facility is located in the NE/NE1/4, Section 24 T13N R68W; Laramie County, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed January 6, 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.

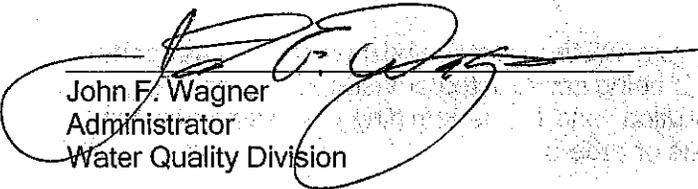
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

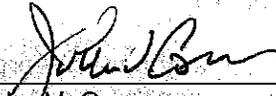
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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".

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

Date of Issuance

1/12/11

RRC/rm/11-0061

STATEMENT OF BASIS

1. Permit Number: **10-502**
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 11, 2011. 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."

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 10-503
SPECIAL CONDITIONS

ConocoPhillips Products Terminal, Rock Springs

This permit hereby authorizes the applicant:

ConocoPhillips Company
420 South Keeler Avenue
Bartlesville, OK 74004

to construct, install or modify a Pilot Test for soil vapor extraction (SVE) and biosparge sparge (BS) systems, including soil borings and monitoring wells according to the procedures and conditions of the application number 10-503. The facility is located in NE $\frac{1}{4}$ SE $\frac{1}{4}$, §6, T.18N., R.105 W. (6th 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 December 31, 2015.

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) 332-7726.

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:

After the monitoring well(s)/piezometer(s) have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

WDEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of groundwater monitoring wells/piezometers or soil borings, and sample collection so that they may be on site if deemed necessary.

The applicant is responsible for obtaining any permits required by the State Engineer's Office (777-7354).

The results of any other analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

The permanent operation of the SVE system may require the installation of off-gas treatment. The Air Quality Division may require a permit for all air quality emissions associated with SVE systems. The applicant is responsible for obtaining any permits required by the Air Quality Division (777-7391).

Environmental Monitoring Program for Groundwater of the State:

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.

The permittee shall maintain records of all monitoring information for a period of at least 3 years. Records of monitoring information shall include:

The date, exact place, and time of sampling or measurements;

The name(s) of individual(s) who performed the sampling or measurements;

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.

Sampling procedures and sample preservation accomplished;

The date(s) analyses were performed;

Names of individuals who performed the analyses;

The analytical techniques or methods used; and

The results of such analyses.

Groundwater samples from the monitoring wells shall be analyzed as indicated on the following table. This table supercedes previous permit requirements.

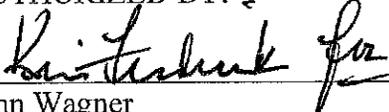
WELL NAME OR NUMBER	SAMPLING FREQUENCY	ANALYTICAL METHOD(S)	PARAMETER(S) ANALYZED	PERMIT LIMIT
Monitoring wells and monitoring points	For the duration of the Pilot Test	Various, As described in Work Plan	As described in the Work Plan	

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

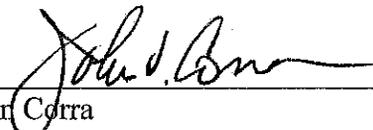
Within ninety (90) days of the receipt of the laboratory analytical data, the Applicant shall submit to WDEQ/WQD a Pilot Test Report. The Report shall contain the information discussed in the Work Plan and include information required in the GPC Guideline for Air Sparge System Pilot Tests (GPC Guideline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

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 Wagner
 Administrator
 Water Quality Division



 John Corra
 Director
 Department of Environmental Quality

2/15/11

 Date of Issuance

JOC/rm/11-0166

cc: IPS
 Lander

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
510 Meadowview Drive
Lander, Wyoming 82520
(307)332-3144

SITE NAME: ConocoPhillips Rock Springs Products Terminal

SITE STATUS: Site Remediation

APPLICANT:
ConocoPhillips Inc.
Mr. Terry S. Lauck
Site Manager
1356 Phillips Building
Bartlesville, OK 74004
(918) 661-0935

ENGINEER/CONSULTANT:
Trihydro Corporation
Mr. H. Joey Waldmann, Jr., P.G.
Geologist
1995 E. Coalton Road, #18-105
Laramie, WY 82070
(720) 307-2598

WATER QUALITY DIVISION REFERENCE PERMIT N°: 10-503; Previous #'s: 04-279, 07-697

EXISTING NEW AS BUILT

TITLE: ConocoPhillips Rock Springs Products Terminal, Biosparge and SVE Pilot Test Work Plan

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

DATE ON PROPOSAL/PLANS/REPORT: Date stamped 12/10/10

By way of reference, the application was received as of this date. WYDEQ/GPC formally responded with a request for a clarification. A meeting to discuss the proposal was held on February 10, 2011 and the application was processed on February 11, 2011.

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES
AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING OFFICIAL:

Mark Thiesse, P.G.
(1994 thru 2008)

James O'Connor, P.G.
(2009 thru present)

DATE OF THIS REVIEW: February 10, 2010

ACTION: Approve SVE/BS Pilot Test

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

- 1.1. Site Description. The Conoco Rock Springs Terminal was constructed in 1963 to store and transfer refined petroleum products. The products are received from the Pioneer pipeline to seven above ground storage tanks. The tanks have capacities ranging from 7,500 to 40,000 barrels. Product is then transferred by pipe from the tanks to a truck loading rack.
- 1.2. Site History. File correspondence from Conoco states that Tank #702 was overfilled in 1989. In July 1993, WYDEQ received a phone call from a concerned citizen who reported that Conoco was excavating severely contaminated soil at the terminal. The excavated materials included contaminated soils generated during the excavation and in conjunction with the removal of a 1,000 gallon steel sump. The sump was used to collect and containment of spills and overfills from the truck loading rack. The excavated soil was stockpiled on-site and treated to SHWD standards. The sump was replaced by a 2,500 gallon fiberglass sump. A DEQ LOV, dated August 17, 1993, was issued to Conoco for discharge to waters of the state.
- 1.3. Site hydrogeology. The facility is underlain by unconsolidated alluvial sands, gravels, and clays. The depth to groundwater, ranging from two to sixteen feet, varies both seasonally and spatially across the site. The groundwater flow direction is to the south under an average hydraulic gradient of 0.0048 ft/day. The hydraulic conductivities range from 0.11 to 0.26 ft/day.
- 1.4. During the original site assessment no pathways were reported complete from source to receptor. Only the on-site well used for domestic culinary purposes was the sole potential receptor of impacted groundwater. A KOA campground is situated on the site's up-gradient boundary.

2.0 SUMMARY OF WORK COMPLETED TO DATE:

- 2.1. **Subsurface Investigation.** A subsurface investigation (SSI) was conducted by Huntingdon (Maxim) at the terminal during the months of May and June 1994. The investigation consisted of drilling and sampling 22 soil borings and nine monitor wells. The investigation revealed the existence of two plumes of hydrocarbon impacted groundwater. The larger plume (south plume) likely originated in the manifold/sump/truck loading area. The investigation determined that the south plume contains a free product layer and extends off-site. The smaller plume (north plume) originated in the area of Tank #700, which borders Tank #702. Groundwater samples obtained from each soil boring and monitor well were analyzed for BTEX, TPH-GRO, and TPH-DRO. The concentration of one or more of the BTEX compounds exceeded the respective EPA MCL in 13 of the 22 borings and wells. Six of the 22 exceeded the TPH standard of 10 ppm. The highest concentrations of BTEX, TPH-GRO, and TPH-DRO were 21, 2.2, 28, 14, 99, and 60 mg/kg respectively. Free product was found in

two monitor wells at a thickness of 0.07 and 0.97 feet.

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

2.2.1. As to the south plume, both BTEX and TPH concentrations exceeding the drinking water standards. Measurement of the natural attenuation parameters included dissolved oxygen, carbon dioxide and the oxidation-reduction potential was conducted during May, 1995. The results indicated that intrinsic bioremediation was occurring at that time. The decreased DO concentrations and the increased CO₂ concentrations in groundwater coincide with the areas of elevated BTEX and TPH. Modeling with Bioplume II indicated that biodegradation should result in stable plume geometry and decreasing concentrations of dissolved hydrocarbons.

2.2.2. Impacted surface soils were found in the manifold area/sample building section of the site and also in the immediate vicinity of monitor well RS-6. By way of reminder, well RS-6 exhibited free product. Impacted vadose zone and smear zone soils were present in these areas, as well as an elongated area extending down-gradient from RS-6 to RS-12. Soil sample analysis results were compared to RBSL's (RBCA), SSL's (EPA), and the ARAR's (WDEQ/WQD Chapter XVII). Only benzene and TPH (GRO and DRO) exceeded one or more of the guideline concentrations.

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

2.3.1. Various methods of containing, recovering and/or remediating the separate-phase hydrocarbons, the hydrocarbon impacted soils and groundwater were evaluated. As a result of the natural attenuation assessment various factors were evaluated. They included the following: (1) the extent and degree of impacts to soil and groundwater, (2) assessment of all receptors, and, (3) the clean-up criteria. Product recovery and groundwater interception were discussed as viable remediation options for the free product. Furthermore, SVE or bioventing of the impacted soils were evaluated as possible source control methods. Conoco proposed a staged implementation of remediation. A monitoring program was implemented along with

product recovery by means of passive recovery equipment in two wells.

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

2.5. Groundwater Monitoring. Groundwater continues to be monitored at the site to delineate impacts, to assess the propensity for biodegradation and to assess the effectiveness of product recovery. Historically, annual monitoring of wells RS-3, RS-4, RS-6, RS-8, RS-9, RS-10, RS-11, RS-12, and RS-13 was conducted for BTEX, TPH-GRO, TPH-DRO and DO was conducted in the first quarter of the calendar year. In 1998, semi-annual monitoring of wells RS-3, RS-6, RS-9, RS-10, RS-12 and RS-13 for BTEX, TPH-GRO, and TPH-DRO was conducted during the first and third quarters. Because of the increasing concentrations of hydrocarbons in wells RS-10 and RS-13, the WQD modified the schedule to include semi-annual sampling beginning in 1999. Additional parameters were added to the analytical suite to evaluate the appropriateness of NA as the final remedy upon recovery of all FPH.

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

2.5.2. Calendar Year 2000 Report. This report provided a summary of the spring and fall 2000 sampling events. As mentioned above, the semi-annual sampling requirement for all target wells began in 1999. The dissolved phase contamination appeared to be decreasing slightly yet several wells still displayed concentrations of benzene and TPH above WQD standards. The most down-gradient wells with detections did not exhibit increasing concentrations. From this information it was assumed that the plume, both dissolved and free phase, was not migrating at that time.

2.5.3. Calendar Year 2001 Report. This report provided the analytical results of the spring and fall groundwater sampling, along with an update of the progress of the hydrocarbon recovery system. The groundwater continues to exhibit dissolved phase contaminant concentrations over WQD standards. Maximum concentrations were observed in RS-9 in the northern plume and RS-6 and RS-11 in the southern plume.

Benzene concentrations ranged from 10 to greater than 1,000 times the MCL in these wells. No observable decrease in concentrations was observed. Notable in 2001 was the disappearance of measurable accumulations of FPH. As a result, the product recovery system was only operated for a few months early in the year with no measurable amount of product recovered. The total amount of FPH recovered was 58.7 gallons.

2.6. March 2002 SVE/AS Work Plan. Due to concerns related to the decrease in FPH recovery, Conoco submitted a work plan that proposing a Soil Vapor Extraction (SVE) and Air Sparge (AS) pilot test in order to determine the feasibility of either of these technologies. The proposed pilot test will consisted of an AS and SVE well installed at two locations with each system completed in a different lithologic setting. The proposal included monitoring recently installed monitoring wells as well as nearby existing ones. It was proposed that the resulting monitoring data be used to determine the effective radius of influence for the respective systems. The proposal included a series of tests to observe the effects of SVE and AS systems operating independently and in concert. The system was scheduled to operate for a maximum of 12 hours depending on the results observed in the field. The proposal included SVE vapor recovery and analysis.

2.7. June 2004 Corrective Action Plan. The CAP provided a summary of the site's history, the results of the pilot test for the SVE and AS systems described above, and a proposal for installing a groundwater interceptor trench to eliminate the potential for any continued off-site migration of contaminated groundwater and FPH.

2.7.1. SVE/AS Pilot Test. The pilot test was performed on site in June, 2002 and off-site on the adjacent Layos property in December 2003. There was a delay in performing the off-site portion of the test located on the Layos property due to access agreement issues. The on-site test was deemed successful for AS/SVE operations as a result of encountering sandy and silty soils. The SVE had an approximate radius of influence of 16 feet. The AS had a radius of influence of at least 40 feet. The off-site pilot test on the Layos property was not successful due to the silty and clay soils in place. As a result, the SVE test was not even conducted. The AS test determined that 15' was the maximum effective radius of influence. Also during the off site test, FPH was discovered in some of the test wells and borings that were drilled for the pilot test. A free product thickness up to 1.5' was measured in some of the wells. Samples of the FPH were collected and sent to a laboratory for fingerprint analysis. The results indicated that the FPH was a weathered gasoline apparently originating from releases at the terminal.

An ozone injection pilot test was also performed in the off-site area, in March 2004. The test was run for a few weeks, but was terminated due to the presence of FPH.

2.7.2. January and March 2004 Additional Investigations. Due to the discovery of FPH off-site on the Layos property, Conoco performed additional soil borings and monitoring well installations using auger and direct push rigs to define the extent of the soil and groundwater contamination. A total of 40 borings and wells were

constructed to delineate the area of contamination. Both soil and groundwater samples were collected. It was determined that the FPH is located in small lenses of more permeable sandy material interbedded with the tighter silts and clays. These "pockets" of higher concentration dissolved phase and FPH contamination were located scattered over several acres. Groundwater was identified at depths ranging from 16.5 to 18.5 feet below surface. The report concluded that a smear zone produced by the contaminated groundwater migrating from the product terminal. Contamination over WQD standards was identified in several wells on the Layos property with the highest readings of benzene in the 15,000 to 17,000 µg/l range.

2.7.3. 2004 Corrective Action Plan. Conoco submitted the CAP in response to the discovery of the off-site FPH and the dissolved phase contamination in levels higher than previously identified. Conoco proposed installing a groundwater (and FPH when present) interceptor trench to eliminate any future migration of hydrocarbons off-site. It was anticipated that the trench would capture all water migrating to the west and southwest off the facility. It was proposed that any recovered FPH would be treated by air sparging to remove any VOCs prior to discharge in to the sanitary sewer operated by the West Side Sewer and Water District. The proposal included testing to ensure compliance with that discharge limit of 25 mg/l for "petroleum oil" content. The CAP did not provide recommendations as to system operation such as duration of the test.

2.8. October 2, 2007 Additional Monitoring Well Installation. Tetra Tech, on behalf of ConocoPhillips, submitted an application for a permit-to-construct to install additional monitoring wells along the south side of the facility. This action was in response to comments from the WDEQ about potential contaminant migration. The purpose of these wells was to monitor any off-site dissolved phase contamination. Permit #07-697 was approved for construction on October 17, 2007.

2.9. October 4, 2007 CAP Addendum. In response to WDEQ concerns about off-site FPH and high levels of dissolved phase contamination identified in the 2005 and 2006 groundwater monitoring reports, an addendum was submitted. Several options for FPH recovery and soil treatment technologies were considered. The addendum proposed vacuum extraction of fluids in selected off-site wells to remove FPH and groundwater. A schedule for operating the extraction for 8 months alternating with passive absorbent socks was proposed. Semi-annual groundwater monitoring will continue in order to track plume migration.

The CAP Addendum also presented the progress of getting the interceptor trench online. The trench was not operational due to zinc and molybdenum levels in concentrations above the POTW levels in the discharged effluent. Tetra Tech was in the process of employing different methods to reduce the metal concentrations in order to comply with the discharge limits. A complete report was expected at the time that the system became operational.

2.10. November 5, 2007 Annual Report. Free Phase Hydrocarbon (FPH) was identified in four off-site monitoring wells in addition to the dissolved phase

contamination above standards reported in eight wells, both on and off-site. An inquiry was made as to the disposition of the idle interceptor trench.

- 2.11. **2008 Monitoring Report & MW Installation.** Tetra Tech provided data as to four additional monitoring wells installed to track potential down-gradient contaminant migration. Soil samples indicated at least some hydrocarbon contamination in all four new wells. Dissolved phase contamination above standards observed in 12 monitoring wells. During the previous year only 4 wells were in elevated above standards. The existing FPH recovery system had not been operational since 2003 when three gallons of FPH was recovered. The interceptor trench installed in 2005 had remained idle due to complications with water disposal.
- 2.12. **2009 Monitoring Report.** The new consultant, Trihydro, reported dissolved phase contamination in 10 of 24 monitoring wells with no wells displaying FPH. WYDEQ directed ConocoPhillips to (1) repair or decommission a damaged monitoring well, RS-16, (2) explore options for disposing of recovered water, and, (3) restart the recovery trench operations. In response, Trihydro conducted an inspection of the interceptor trench infrastructure and determined that some of the trench sumps were either damaged or had become silted-in and were inoperable. As a result, Trihydro outlined procedures for restoring well RS-16 and trench system prior to conducting a pilot test of the system. The initial refurbishing work was completed in May, 2009 and was determined to be successful.
- 2.13. **2010 Monitoring Report.** Trihydro conducted the pilot test of the pump system in the recovery trench in June. The test revealed that the equipment functioned successfully even though the system had been idle since 2003. However, problems were encountered with the trench portion of the system. Even under optimum conditions the system was only able to recover approximately 0.4 gpm- far less than design capacity. It was not possible to ascertain the reasons for the ineffective recovery but deficient construction coupled with the system being 'silted-in' are suspected. Interestingly, samples of the groundwater water collected by the interception system demonstrated that the elevated molybdenum and zinc levels returned to background levels. This corroborated the belief that the elevated levels of these metals resulted from the decomposition of the components of the system and was not indicative of further groundwater contamination. Failure to obtain authorization to dispose of groundwater into the collection system operated by the West Side Sewer and Water District prevented implementation of the second phase of the pilot test. As a result, the remainder of 2010 was spent evaluating options for treatment and disposal of contaminated groundwater.

3.0 REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

3.1. **Biosparge/SVE Pilot Test Work Plan (dated November 29, 2010)**

- 3.1.1. The work plan submitted by Trihydro proposes to inject compressed air into the saturated zone of the subsurface at the site. As proposed, the air is typically injected at lower flow rates than traditional air sparging methods. The injected air increases

the concentration of dissolved oxygen in the groundwater, thereby increasing the rate of aerobic biodegradation. The biosparge can be operated independently of the SVE system. The SVE system is used to control and collect the vapors generated by the biosparge process. Additionally, the SVE process is employed to control and remove the sparged volatile organic compounds, thereby preventing migration and dissolution of the compounds into the groundwater.

3.1.2. The objectives of the biosparge pilot test will be to determine the following: (1) establish a radius of influence for each injection well based on increases in pressure and/or DO concentrations measured in the monitoring wells spaced at various radii from the injection well, (2) establish the optimum air injection pressure, flow rate & potential associated rise in the groundwater table, (3) evaluate the effects on the potentiometric surface from air injection into the aquifer, and, (4) identify any potential vapor issue that would require the use of SVE in conjunction with the biosparge system.

3.1.3. In addition to the BS and SVE pilot test, Trihydro will conduct microbial sampling of the groundwater in several monitoring wells to confirm the presence of hydrocarbon reducing bacterial. Bio-trap samplers will be installed in one up-gradient well, two mid-plume wells and one down-gradient well. The samplers will be removed following the necessary incubation period of approximately 30 days. The results of the analysis will be evaluated in conjunction with the pilot test data to determine if biosparge can provide an effective remediation strategy.

3.1.4. A meeting in February, 2011 was held to address concerns as to the need to duplicate the efforts of the previous pilot test conducted in 2002 and 2003. While there is no record that the previous system was decommissioned and the equipment was removed the subsurface infrastructure does not appear to be operational and the consultant has determined that the blower system is inadequate for the current pilot test and is not an oil-free compressor.

3.1.5. The current proposal anticipates a more effective remediation outcome than the previous pilot test due to more efficient system design and equipment coupled with more favorable subsurface conditions. The current project proposes to test certain parameters in order to determine the viability of long term remediation of the plume at the down-gradient property boundary.

END OF REVIEW

JOC/rm/11-0166

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 10-504

REFERENCE PERMIT NO. 82-551

North Antelope Rochelle Mine Sewer System Upgrade 2010

This permit hereby authorizes the applicant:

Peabody Powder River Mining, LLC
Scott Durgin, President
Caller Box 3034
Gillette, WY 82717

to construct and install a lift station for the existing North Antelope Rochelle Mine west Sewage System, according to the procedures and conditions of the application number 10-504. The facility is located in the SW ¼, SE ¼, of Section 16, Township 41 North, Range 70 West, Campbell County, Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2012.

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

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

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

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

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

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

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

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

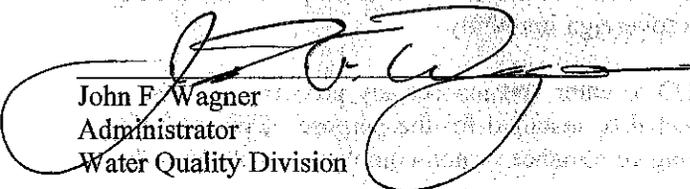
1 of 3 The applicant will provide immediate oral or written notice to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601, Phone 307-473-3465, FAX 307-473-3458, in accordance with the provisions of Section 11, Chapter 3, Wyoming Water Quality Rules and Regulations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

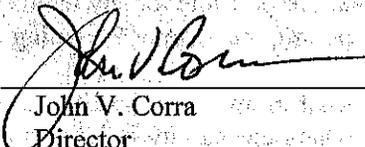
2 of 3 Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate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

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

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

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

2/8/11
Date of Issuance

KLF/rm/11-0119

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

STATEMENT OF BASIS

1. Permit Number: **10-504**
2. Application reviewed for compliance with the following applicable regulations :
Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?
YES
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.
N/A
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Karen L. Farley and completed on February 2, 2011. 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."

11/17/11



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

April 6, 2011

Lewis James
JKC Engineering
5830 East 2nd Street
Casper, WY 82609

RE: Return of Application for the North Butte Satellite Facility Small Commercial Septic System,
Location: NE ¼, Section 24, T44N, R76W; WDEQ Permit #10-505

Dear Mr. James:

The Wyoming Department of Environmental Quality (DEQ) received an application on December 7, 2010 for a Permit to Construct for a small commercial wastewater system in Campbell County for the proposed North Butte Satellite Facility commercial septic system. DEQ completed a review of the application and sent a review to you on December 23, 2010. Your response was received on January 4, 2011 and another DEQ review was issued on January 5, 2011. As of today, April 6, 2011, DEQ has not received the required information.

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

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

If you have any questions, please contact me at (307) 777.6941 or sengel@wyo.gov

Sincerely,

Suzanne Engels
Suzanne Engels
WDEQ/WQD

SE/rm/11-0333

Enclosures: application materials

cc: IPS (w/o encl)
WDEQ File (w/o encl)
Thomas Young, 550 North Poplar, Suite 100, Casper, WY 82609 (w/o encl)
Keith Bowar, Campbell County Public Works, 500 South Gillette Avenue, Suite 1400, Gillette, WY 82716

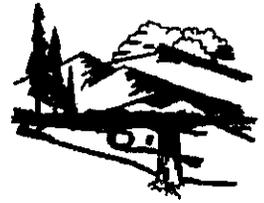
Herschler Building · 122 West 25th Street · Cheyenne, WY 82002 · <http://deq.state.wy.us>

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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Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 21, 2010

Les Butts
PO Box 344
Upton, WY 82730

RE: Butts Small Residential Wastewater System, Crook County
Location: NW ¼ SE ¼, Section 3, T51N, R62W;

Permit # 10-506

Dear Mr. Butts:

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

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.

Please be advised that Crook County inspects all small wastewater systems permitted through WDEQ. Please contact Crook County Growth and Development at 307. 283.4548 to arrange an inspection of 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) 777-6941.

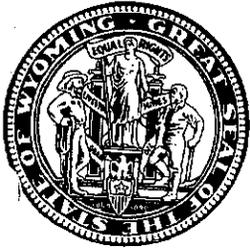
Sincerely,

Suzanne Engels
WDEQ/WQD

SE/rm/10-1096

cc: IPS, Cheyenne
WYDEQ Casper File
Tim Lyons, Crook County Growth and Development, PO Box 848, Sundance, WY 82729
Howard White, PO Box 373, Upton, WY 82730





Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 17, 2010

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

RE: Transfer of Ownership,
Cloud Peak Ranch – Sixth Filing (aka Quail Ridge Development)
Sheridan County, Reference Permit #07-624
Permit #10-507

Dear Mr. Thompson:

The above Transfer of Ownership 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 (WWQRR) and for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modifications of Existing Sewage Collection Systems in accordance with Chapter 3 and Chapter 11 of the WWQRR has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package.

If you have any questions, please contact me at (307) 777-6941.

Sincerely,

Suzanne Engels
WDEQ/WQD

SE/rm/10-1086

Enclosures

cc: IPS, Cheyenne
WDEQ Casper File
KLD Quail Ridge LLC, 51 Coffeen Ave, Ste 101-251, Sheridan, WY 82801
Jeff Feck, Vista West Engineering, PO Box 785, Sheridan, WY 82801

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

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	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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Matt Mead, Governor

Department of Environmental Quality

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John Corra, Director

NOTIFICATION OF COVERAGE

January 11, 2011

Andy Leonard
12330 N. 3rd Street
Parker, Colorado 80134

RE: Andy Leonard Small Wastewater Treatment Facility,
Location: NW¼ NW¼, Section 14, T29N, R68W,

Application No. **10-508**
Platte County

Dear Mr. Leonard:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a 1000 gallon concrete septic tank and about 124 feet of rock and pipe leachfield divided into 2 equal trenches of 62 feet each for a **3 bedroom** mobile home in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

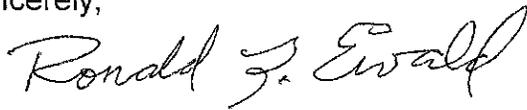
1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.
2. Filter Layer to Protect Washed Rock from Soil Infiltration Required - **A filter layer of either 2 inches of straw or untreated building paper SHALL BE placed over the top of the washed rock** before any backfill soil is placed into the trenches to complete the filling of the trenches.

The approval granted under this Notification Of Coverage and the General Permit shall expire on January 11, 2013. Please reference Application Number **10-508** in any future correspondence.



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

Sincerely,

A handwritten signature in cursive script that reads "Ronald L. Ewald".

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

RLE/rm/11-0067

Enclosures: GENERAL PERMIT - Small Wastewater Facility
Certificate of Completion

cc: IPS, Cheyenne
Platte County Planning Office, Dennis Becker, PO. Box 728, Wheatland, WY 82201



Matt Mead, Governor

Department of Environmental Quality

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John Corra, Director

NOTIFICATION OF COVERAGE

January 11, 2011

Silver Sage Ranch, LLC
Attn: Tim White
P.O. Box 1678
Saratoga, Wyoming 82331

RE: Silver Sage Ranch - Septic System just for House Addition,
Location: SW¼, Section 26, T18N, R84W,

Application No. **10-509**
Carbon County

Dear Mr. White:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility consisting of a new and separate 1000 gallon polyethylene septic tank and 100 feet of chamber leachfield divided into 2 equal trenches of 50 feet each for a **2 bedroom addition** to an existing house(which already has a separate existing functioning septic system) in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the small wastewater system in accordance with Chapter 11, Part D of the Water Quality Division Rules and Regulations, the general permit, the conditions listed below, and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Additionally, the following project specific conditions also apply:

1. Septic Tank Clean-Out Riser Requirement - Either a 6 inch diameter clean-out riser or the manway from **each compartment of the septic tank** must be extended to the ground surface.
2. Polyethylene Septic Tank Installation Requirements - To ensure structural integrity, the **manufacturer's instructions** regarding bedding the tank and filling the tank with water during burial **must be followed during installation**. Additionally, immediately after clean-outs, the tank must be refilled with water according to the manufacturer's instructions to maintain structural integrity.



The approval granted under this Notification Of Coverage and the General Permit shall expire on January 11, 2013. Please reference Application Number 10-509 in any future correspondence.

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

Sincerely,

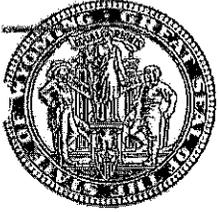


Ronald L. Ewald
Assistant Southeast District Engineer
Southeast District, Water & Wastewater Section
Water Quality Division

RLE/rm/11-0068

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
R.G. Raymer Construction, Inc., P.O. Box 1078, Saratoga, WY 82331



Department of Environmental Quality

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



Matt Mead, Governor

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

John Corra, Director

NOTIFICATION OF COVERAGE

February 24, 2011

Tim Burrige
Shenandoah West, Inc.
P.O. Box 1170
Casper, WY 82602

RE: 6708 Zero Road, Shenandoah West, Inc., Small Commercial Wastewater System, Natrona County
Location: SW ¼ SE ¼ of Section 34, Township 34N, Range 8 West; Permit # 10-510

Dear Mr. Burrige:

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

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) 473-3478.

Sincerely,

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

cc: IPS, Cheyenne
WYDEQ Casper File
Matthew R. Epp, P.E., 6080 Enterprise Drive, Casper, WY 82609
April Gindulis, Natrona County Health Department

Cheyenne
122 West 25th Street 82002
(307) 777-7937

Lander
510 Meadowview Drive 82520
(307) 332-3144

Sheridan
2100 W. 5th Street 82801
(307) 673-9337



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

PERMIT NO. 10-511

REFERENCE PERMIT NO. N/A

Rozet Elementary Wastewater System Upgrades

This permit hereby authorizes the applicant:

Randall S. Faust
Campbell County School District
109 North Gurley Avenue
Gillette, WY 82716

to construct, install, and/or modify the Rozet Elementary Wastewater System Upgrades, including construction of a new lift station, force main, and upgrades to the existing total retention lagoons, according to the procedures and conditions of the application number 10-511. The facility is located in the Town of Rozet, Wyoming, Campbell County, and further located in the NE ¼ of Section 36, Township 50 North, Range 70 West. All construction, installation, or modification allowed by this permit shall be completed by December 31, 2012.

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

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

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

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

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

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

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

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

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

1 of 3

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

2 of 3

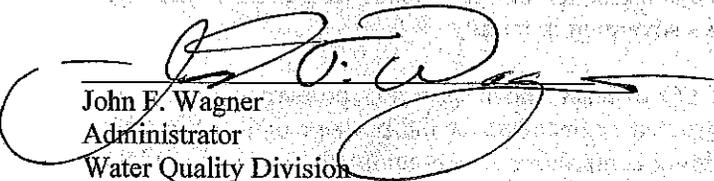
Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Northeast District, Water Quality Division, 152 North Durbin, Suite 100, Casper, WY, 82601 a certification of completion signed by the Engineer of Record or the owner. A form titled "Certificate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

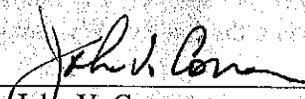
- a. Date that construction of the facility was completed; and
- b. Date that the facility was placed in operation; and
- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications.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

3 of 3

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

AUTHORIZED BY:


John F. Wagner
Administrator
Water Quality Division


John V. Corra
Director
Department of Environmental Quality

2/25/11
Date of Issuance

KLF/rm/11-0184

cc: Jason B. Dineen, P.E., Centennial Collaborative, 400 South Miller Avenue, Gillette, WY 82716

STATEMENT OF BASIS

1. Permit Number: **10-511**
2. Application reviewed for compliance with the following applicable regulations :
Chapter 3 and Chapter 11 of the Wyoming Water Quality Rules and Regulations
3. Does the permit comply with all applicable regulations identified above?
YES
4. Facilities include components not specifically covered or differing from applicable regulations and approval is based upon a deviation in accordance with Section 5.
N/A
5. A review to determine groundwater impacts in accordance with Section 17, Chapter 3 is not required.
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by Karen L. Farley and completed on February 24, 2011. 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.



Matt Mead, Governor

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

John Corra, Director

February 17, 2011

Chairman
Campbell County Board of Commissioners
500 South Gillette Ave, Suite 212
Gillette, WY 82716

RE: Lots 20C and 20D – Donkey Creek Subdivision No. 2, Campbell County
WDEQ Application #10-512

Dear Commissioners:

This subdivision application was received in this office on December 20, 2010. The Department of Environmental Quality is required by law to respond with comments within 60 days after receipt of the application as described in W.S. §18-5-306 (c). Due to incomplete and/or missing information, we are unable to make a determination at this time of the safety and adequacy of the proposed water and sewer systems. As a result, the 60-day time statute as defined in W.S. §18-5-306 has expired. The statute does not allow the extension of the 60 day completion date even with the consent of all parties.

Recommendation:

The Department of Environmental Quality is making an adverse recommendation for the Lots 20C and 20D Donkey Creek Subdivision No. 2, Campbell County, Department of Environmental Quality / Water Quality Division Application #10-512. This recommendation is provided pursuant to W.S. §18-5-306.

Re-submittal:

If the County Commissioners desire a determination of the safety and adequacy of the proposed water and sewer systems from the Department of Environmental Quality, the developer should re-submit the **complete** application with the additional information necessary. The submittal will be assigned a new application number with a new 60 day clock.

Please feel free to contact me at (307) 473-3478 should you have any questions related to these comments or the application and review process.

Sincerely,

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

Enc. WDEQ Comments, SEO Comments

cc: Donald Cale, P.O. Box 157, Gillette, WY 82717
John Wetstein, PE/PG, Wester-Wetstein & Associates, Inc., P.O. Box 2202, Laramie, WY 82073
Campbell County Engineer, 500 S. Gillette Avenue, Suite 1400, Gillette, WY 82716
Mike Ebsen, SEO
WDEQ Subdivision file, (IPS) Cheyenne

Cheyenne
122 West 25th Street 82002
(307) 777-7937

Lander
510 Meadowview Drive 82520
(307) 332-3144

Sheridan
2100 W. 5th Street 82801
(307) 673-9337



WDEQ COMMENTS

Safety and Adequacy of Proposed Sewage System

Chapter 23, Section 7(d)(i) - The proposed subdivision lies in an area that has been identified in the Soil Survey (NRCS) as "very limited" for septic system use. No percolation tests were conducted in the area in which the new homeowner will be residing (Lot 20C). Further, although the report states that there is an existing septic system in the area of Lot 20D, there was no documentation provided in the report of this existing septic system permit, nor any comments on how that system is currently functioning. The report did include a septic system permit issued by Campbell County for Lot 20A; however, this lot is not in the same restrictive soil area and therefore the percolation test results (~20 mpi) cannot be used to demonstrate whether or not a conventional septic system can be utilized in this area.

Safety and Adequacy of the Water Supply

The proposed water supply is not a public water system; therefore, DEQ has no comment other than the attached comments provided by the State Engineer's Office.



State Engineer's Office

HERSCHLER BUILDING, 4-E CHEYENNE, WYOMING 82002
(307) 777-7354 FAX (307) 777-5451
seolog@state.wy.us

DAVE FREUDENTHAL
GOVERNOR

PATRICK T. TYRRELL
STATE ENGINEER

24 January 2011

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

RE: Donkey Creek #2 – Lots 20C and 20D, Campbell County, WDEQ Application #10-512

Dear Ms. Farley:

State Engineer's Office staff has reviewed the referenced submittal in compliance with Wyoming Statute 18-5-306 (c) (i). The study states that the subdivision is located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 5, Township 49 North, Range 72 West. The proposed subdivision would create 2 single family residential lots (Lot 20C & Lot 20D), through the division of current and occupied Lot 20A. Lot 20B also exists from a former subdivision, and is occupied. Individual on-lot septic systems; and connection to an existing water supply system - supplied by the Suedkamp-Cale #1 Well (Permit No. U.W. 26518), are being proposed. The water supply system would now supply all of lot 20 (lot 20B, Lot 20C & Lot 20D). As a part of our review, a cursory search of the State Engineer's Water Right Records in the area stated in the study was conducted. We offer the following comments:

1. State Engineer records indicate that the Sedkamp-Cale #1 Well is currently permitted for Domestic Use at 2 single family dwellings within original Subdivision Lot 20, and is accompanied by a document entitled; 'Easement for Water Well and Water Well Use Agreement'.

a) A domestic enlargement application recognizing the proposed third single family dwelling will be required to be filed and approved prior to any use of the water at the proposed new dwelling. Enclosed with Mr. Cale's letter is a blank U.W. 5 Form, as well as simplified procedures for completing this form for a domestic enlargement.

b) The study further states that "a new water use agreement will need to be drafted..." to recognize new water use arrangements and/or obligations - The State Engineer's Office would encourage the same. Also enclosed with Mr. Cale's letter is a copy of the current water use agreement on file for this well.

To summarize, the State Engineers Office is generally supportive of approving the development of the proposed subdivision at this time, contingent upon perfecting the requirements and recommendations outlined in Items a) and b) above. Also be advised that any number of events could occur at some point in the future, which may preclude the State Engineer from issuing new permits for new activities of this type.

In all correspondence regarding this review please reference State Engineer's Office, Subdivision Review Number 2011-2-1. If you have any questions, please feel free to contact me at (307) 777-6166, or if you prefer email my address is mepsen@seo.wyo.gov.

Sincerely,

Mike Ebsen
Cooperative Programs Coordinator

Cc: Lou Harmon, DEQ-WQD, Environmental Program Manager
Carmine LoGuidice, Superintendent, Water Division Number II
Kody Steinbrecher, Hydrographer-Commissioner, Water District Number 10
John Barnes, Administrator, Surface Water Division
Lisa Lindemann, Administrator, Ground Water Division
Allan Cunningham, Adjudication Officer, Board of Control Division
Campbell County Planning Office, P.O. Box 194, Gillette, WY 82717
Donald Cale, P. O. Box 157, Gillette, WY 82717
John Wetstein, PE, Wester-Wetstein and Associates, Inc., P. O. Box 2202, Laramie, WY 82073



Department of Environmental Quality

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Matt Mead, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

January 12, 2011

Heartland Home Builders, Inc.
James Woods II, President
3701 Ridge Road
Cheyenne, WY 82001

RE: Deerhaven Subdivision- Water and Sewer,
Application No. **10-513**, Laramie County

Dear Mr. Woods:

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 1220 ft of 8 inch SDR 35 PVC sanitary sewer, install eight- 4 inch sanitary services, install two- 6 inch sanitary services , install six new manhole, install three new fire hydrants, install 2- 4 inch fire sprinkler lines, and installation of approximately 1320 ft of 8 inch PVC water line, NE ¼, Section 8, T13N, 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 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 12, 2012.

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. Please reference Application No. **10-513** in any future correspondence.

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

Sincerely,

Richard R. Cripe P.E.
Southeast District Engineer
Water Quality Division

RRC/rm/11-0070

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
Erin Gates, Benchmark Engineers, 1920 Thomas Ave., Suite 620, Cheyenne, WY 82001
Dena Hansen, SCWSD, 215 E. Allison Road, Cheyenne, WY 82009





Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

NOTIFICATION OF COVERAGE

December 29, 2010

Sundance Meadows Water District
James Morgan, Board Chairman
26 Sierra Road
Douglas, WY 82633

RE: Sundance Meadows Water District –
Frost Free Yard Hydrants/ Water Supply System Project,
Application No. **10-516**, Converse County

Dear Mr. Morgan:

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 two frost free yard hydrants per DEQ requirements, SW¼ Sections 21, T32N 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 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 December 29, 2012.

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. Please reference Application No. **10-516** 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/10-1128

Enclosure: Certificate of Completion

cc: IPS, Cheyenne
Thomas Brauer, C.E.P.I., 6080 Enterprise Dr., Casper WY 82609

