

PERMIT TO CONSTRUCT

PERMIT NO. 92-001
See Special Conditions

- New
- Renewal
- Modified

COASTAL CHEM. WASTEWATER DITCHES

This permit hereby authorizes the applicant:

Coastal Chem, Inc.
P. O. Box 1287
Cheyenne, Wyoming 82003

to construct, install or modify a system of process wastewater drainage ditches according to the procedures and conditions of the application number 92-001. The facility is located in Section 16 NW 1/4 SW 1/4 Township 13 North, Range 67 West in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

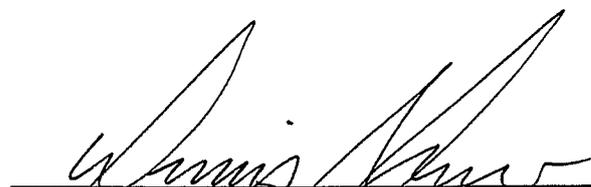
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

1/14/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 92-001

1. Coastal may construct as many linear feet of this typical ditch design as necessary within the plant site without notifying this department in advance. As part of the overall annual reports of the groundwater monitoring of this site, Coastal shall include a progress report for the replacement of existing ditches with ditches meeting this approved design.
2. Exhibit 2 of the application shows aluminum batten strips bolted down with stainless steel bolts. Dissimilar metals such as this in contact in a wet salty environment will corrode by electrolytic reaction. For this reason, Coastal shall replace the aluminum shown with a metal more compatible with bolts used.

RL/jn
20070.DOC

cc: Jake Strohmman, DEQ/WQD
Louis Harmon, DEQ/WQD

PERMIT TO CONSTRUCT

PERMIT NO. 92-002

X New
Renewal
Modified

CATHEDRAL HOME FOR CHILDREN - WATER SYSTEM MODIFICATION

This permit hereby authorizes the applicant:

Cathedral Home for Children
P. O. Box "E"
Laramie, Wyoming 82070

to construct, install or modify a water supply and distribution system according to the procedures and conditions of the application number 92-001. The facility is located in the SW ¼ of Section 16, Township 16 North, Range 73 West in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

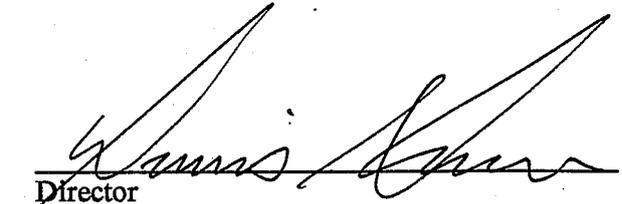
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The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-20-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RL/jn
20481.LTR

y

PERMIT TO CONSTRUCT

PERMIT NO. 92-003

X New
Renewal
Modified

Cheyenne Roundtop Water Treatment Plant Sludge Collector

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P O Box 1469
Cheyenne, WY 82003

to construct, install or modify a pneumatically operated sludge collector facility according to the procedures and conditions of the application number 92-003. The facility is located in Section 16 T14N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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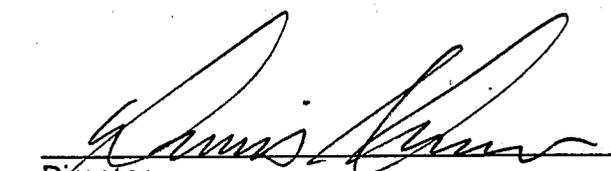
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

1-27-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LH/nc
20208.LTR

af

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-004
See Special Conditions

FAWCETT RESIDENTIAL ELEVATED LEACH FIELD

This permit hereby authorizes the applicant:

Russell A. Fawcett
8470 Zero Road
Casper, Wyoming 82604

to construct, install or modify a septic system facility according to the procedures and conditions of the application number 92-004. The facility is located in Section 32, Township 34 North, Range 80 West in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

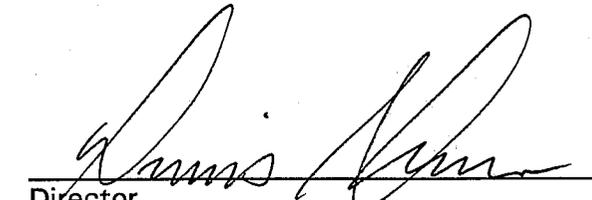
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality

1-27-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct #92-004

1. A variance from the minimum requirement of four feet of separation between the seasonally high groundwater level and the bottom of the absorption system stone is approved based on the following factors:
 - a. The system has been designed by a licensed Professional Engineer,
 - b. The design of this system is considered to be a hybrid of a mounded infiltrative system and an unlined evapotranspiration system. Under worst case conditions (groundwater at one foot below original ground surface) this system will have enough subsurface infiltrative surface area to handle 21 percent (202 s.f. available/952 s.f. required) of the effluent and enough exposed surface area ($38 \times 63 = 2394$ s.f. minimum) to handle 98 percent (2394 s.f./2453 s.f. as determined by formula in Section 42, Chapter 11) of the liquids by evapotranspiration. This overlapping of effluent disposal capacity should be sufficient,

-
- c. No adverse health or environmental impact is anticipated because of this variance from the four foot separation standard, and
 - d. The following conditions are also met:
 - 2. The size of the absorption system stone area can be no smaller than 16 feet wide by 45 feet long,
 - 3. The one foot deep excavated area for the base of the mound shall be a minimum of 38 feet x 63 feet as shown in the plans,
 - 4. During construction, care is taken to insure that the finished size and shape of the mounded area conforms with the requirements of Part D, Section 41 (c), (ii) of the Wyoming Department of Environmental Quality, Water Quality Rules and Regulations, Chapter XI which states:
 - (ii) "Grade. The finished grade shall extend at least three feet horizontally beyond the stone and then be sloped to the parent soil at a grade no steeper than four horizontal to one vertical."
 - 5. The permittee shall notify Natrona County Health Department, 1200 East 3rd, Casper, Wyoming 82601-2990, telephone number (307) 235-9316 at least twenty four (24) hours before beginning installation. Inspection of the installed system by the County is required before final cover is placed.

RE/bb/20182.doc

cc: Natrona County Health Department

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 92-006

BIG GOOSE WATER DISTRIBUTION SYSTEM (WTD)
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Sheridan Area Water Supply - Joint Powers Board
224 South Main Street, #B-1W
Sheridan, Wyoming 82801

to construct, install or modify a water distribution facility according to the procedures and conditions of the application No. 92-006. The facility is located in Township 55 North, Range 85 West, in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of one (1) ~~Year~~ (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

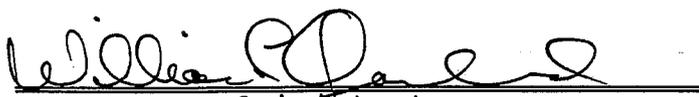
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity. The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

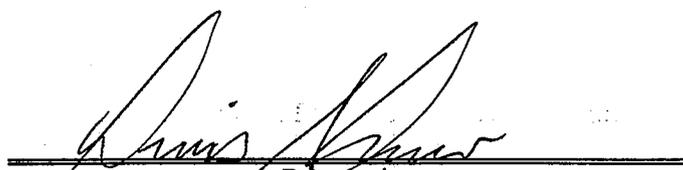
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

2/3/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SCF:pr

CONDITIONS

1. A variance is hereby granted from the requirements of Chapter XII, Section 14(c) for minimum valve spacing in residential areas. Because the system is located in a rural location, the number of users per length of waterline is very low. This division agrees that placing valves every 800' as required by Water Quality Division Rules and Regulations (WQDRR) in this type of location would significantly increase the cost of the project while the benefit from such action would be low. However, if the number of users on the system increases to a level which warrants additional valving, this division reserves the authority to require the system to be modified.
2. A variance is hereby granted from the requirements of Chapter XII, Section 14(h)(ii)B for installation of a manhole on the supply side of a stream crossing. This division agrees that a manhole in this application will not increase the probability of gaining access to the valve during a flood event. Your request to install a valve box in lieu of a manhole at the supply side of the line is approved.



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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February 15, 1995

Mr. Ken Cook, Mayor
Town of Burlington
P.O. Box 38
Burlington, WY 82411

RE: As-Built Permit to Construct, WQD Reference Number 92-007R

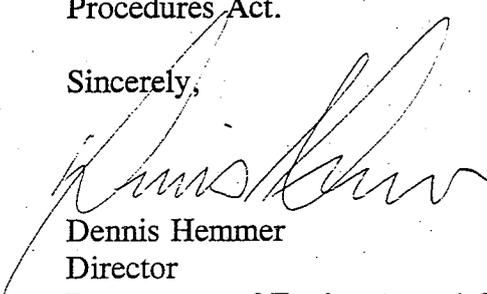
Dear Mr. Cook:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by your engineer, Charles Wolz of Steedly & Associates.

The Burlington Well No. 2 facilities appear to meet most of the applicable DEQ/WQD regulations, so the enclosed As-Built Permit To Construct is hereby issued. However, please note that the wells don't have valving and piping which will allow pumping to waste, which is required by the Chapter XII regulations. This letter and the stamped plans will serve as your notification of DEQ/WQD authorization.

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

Sincerely,


Dennis Hemmer
Director
Department of Environmental Quality

DH/JH/jn/nc - 50773.ltr
xc: Plans (2), File (2)

AS-BUILT
PERMIT TO CONSTRUCT

New

Permit No. 92-007R

Renewal

Modified

Burlington Well No. 2
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Burlington

P.O. Box 38

Burlington, WY 82411

to have constructed a well and piping and installed the well pump according to the procedures and conditions of the application No. 92-007R. The facility is located in SE¼ SW¼ Section 31, T52N, R96W Resurvey in the County of Big Horn, in the State of Wyoming.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets most of the minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

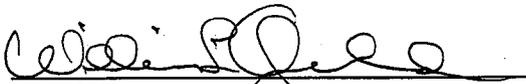
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

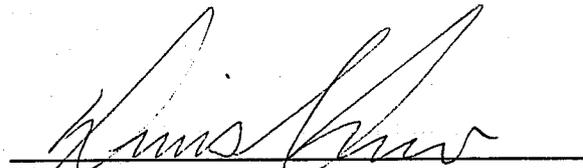
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-17-95

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi - 50733.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-008
See Special Conditions

Goshen County Fair Ground - Water Supply & Distribution System

This permit hereby authorizes the applicant:

Goshen County Wyoming
2125 East A Street
P.O. Box 160
Torrington, Wyoming 82240

to construct, install or modify a water supply and distribution system facility according to the procedures and conditions of the application number 92-008. The facility is located in Section 9, Township 24 North, Range 61 West in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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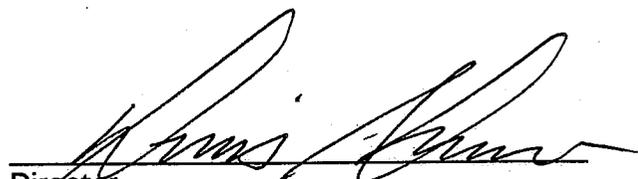
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

4-16-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

- 1 of 4. Valving Changes needed to meet maximum distance requirements:
- A. Move valve shown just south of matchline E-E approximately 100 feet further south,
 - B. Move valve shown at corner approximately 140 feet east of T at matchline G-G to new location immediately east of T at matchline G-G,
 - C. Add a new valve just to the east of T midway between matchlines H-H and J-J.
- 2 of 4. All pipe on the north and west sides between matchlines C-C and G-G shall be eight (8) inches in diameter instead of the six (6) inches in diameter shown in several locations on the plans.

- 3 of 4. The existing water well which serves the house on the southwest part of the fairgrounds shall be permanently physically disconnected from the house and distribution system upon satisfactory completion, testing, and disinfection of the new distribution system. This well may be used as a source for irrigation water or other such use provided that there is no direct or indirect connection to the distribution system.
- 4 of 4. During construction, if sewer lines are encountered such that variances to Chapter 11 or 12 spacing requirements would be necessary, or if it is even suspected that a sewer line is too close, the engineer and owner will locate physically by excavation those lines that would require such variances and submit details of each situation to DEQ/WQD for review and approval.

RE/bb/20693.doc



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR

Department of Environmental Quality

Hershey Building ● 122 West 25th Street ● Cheyenne, Wyoming 82002

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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January 10, 1995

Chris Jensen
Baker & Associates
215 E. 21st Ave., #111
P.O. Drawer E
Torrington, Wyoming 82240

RE: Review of As-Built drawings for Goshen County Fairgrounds; Permits 91-410, 92-008, and 92-075: **UNSATISFACTORY**

Dear Mr. Jensen:

The Water Quality Division (WQD) of the Wyoming DEQ has received and reviewed the three (3) sets of as-built drawings referenced above. All three sets were found to be unsatisfactory and therefore unacceptable.

General Problems:

1. None of the plans were stamped by a P.E. as required by Chapter III of the Wyoming Water Quality Rules and Regulations (WQR&R). Also, two (2) sets (91-410 and 92-075) were not clearly marked as as-builts and were not dated correctly. As-built plans should be clearly marked as such and correctly dated (92-008 is so marked and dated), and properly stamped. Since the original plans were stamped, the as-built plans should also be stamped.
2. Changes and corrections were not always carried throughout the drawings completely. Examples of this are manhole locations and invert elevations which were changed but associated sewer pipe lengths and slopes which were not changed from the originals. As-built plans need to be accurate, consistent, and complete.

Specific Problems and Questions for:

91-410

1. The upgradient invert (4.77) at MH#3 is lower than the downgradient invert (4.83). How can this be?
2. It cannot be determined if permit condition 4, which requires the location of "mystery" water lines, has been met.
3. It cannot be determined if permit condition 5, which requires the project to be inspected by a licensed registered P.E., has been met.

92-008

Other than the P.E. stamp requirement these plans look acceptable, except for the following item:

1. Condition 1.C. of the permit required a valve to be installed just east of the T midway between matchlines H-H and J-J. This valve does not appear on the as-built plans. What happened to this valve?

92-075

1. It appears that the small restroom, restroom C, was not built. Is this correct?
2. The proposed sewer line between MH#8 and MH#7 appears to have been rerouted and to include a new MH#7A. Is this correct? Where are the plan and profile drawings for this new section of sewer?
3. On sheet 4, in the area of restroom B, and concerning permit condition 3, the following is observed. The as-builts seem to show that the existing Rabbit and Poultry building has moved about 15 feet east from where it was shown on the original plans, and also, the existing manhole originally shown directly in front of the new restroom b seems to have moved about 25 feet east. How could an existing structure and manhole move like this? Also, the elevation view for this section of sewer line is still not shown, and details of the water/sewer crossings are also still not shown. This information needs to be provided.

Chris Jensen
January 10, 1995
Page 3

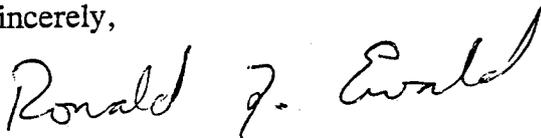
What Needs To Be Done?:

In order to properly satisfy and verify that the conditions of these three permits have been met, the WQD requests that the following be done:

1. Redo all of the as-built plans as necessary, incorporating all corrections and changes, and properly marking them as as-builts with the correct dates and P.E. stamp.
2. Prepare a written document to go with these as-built drawings which specifically addresses how each condition of each permit was accomplished or satisfied (or an explanation of why it was not accomplished), including clear identification of discrepancies discovered during construction such as the location of any "mystery" water or sewer lines, and so on. This document could best be thought of as an after-the-fact engineering design report.
3. Please submit this information within 60 days after receipt of this letter.

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

Sincerely,



Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

RLE/nc 50115.LTR

cc: Gary Steele, WQD
Goshen County

RF

PERMIT TO CONSTRUCT

PERMIT NO. 92-009
See Special Conditions

New
 Renewal
 Modified

C & H WELL SERVICE - MONITORING WELLS

This permit hereby authorizes the applicant:

C & H Well Servicing, Inc.
6480 Swanson Street
P. O. Box 2556
Gillette, Wyoming 82717-2556

to construct, install or modify a system of monitor wells according to the procedures and conditions of the application number 92-009. The facility is located in Section 11 NE¼ SW¼, Township 49 North, Range 72 West in the county of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

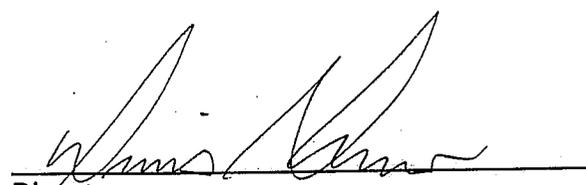
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-14-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 92-009

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 92-009. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells 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. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD.

Special Conditions for Permit to Construct 92-009 (continued)

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
5. 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 wells shall be installed to define the extent of the contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - a. The borehole diameter shall be at least 4 inches larger in diameter than the casing diameter;
 - b. The screened interval shall extend at least 2 feet above the highest expected groundwater level and at least five feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;
 - c. If PVC casing is used, the casing shall be installed using mechanical connectors without the use of solvents or glues to hold the casing sections together. This mechanical connection may use set screws, threads, or other types of couplings;
 - d. To minimize the entrance of fine grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - f. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - g. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. Protective casing shall be cemented into a sloping concrete cap; and
 - h. All monitor wells shall be designed to contain a minimum of 3 feet of water at all times of the year.

Special Conditions for Permit to Construct 92-009 (continued)

7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:
 - a. a chronology of events leading up to the investigation;
 - b. A site map showing the physical features, well locations and sea level elevations;
 - c. The permittee shall provide the exact latitude and longitude for each of the monitor wells being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude. At the permittee's option, he may submit State Plain coordinates accurate to one foot in place of the latitude and longitude. In addition, the permittee shall submit the exact sea level elevation, accurate to .01 foot for the top of the PVC casing used.
 - d. Construction details and logs of monitor wells;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction of groundwater movement; and
 - k. Interpretation of the data and conclusions including recommended remedial measures.
9. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

Special Conditions for Permit to Construct 92-009 (continued)

10. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters:
 - a. Purgeable Hydrocarbons using EPA Method 624;
 - b. Base/Neutral and Acid Extractable Hydrocarbons using EPA Method 625;
 - c. Barium,, Cadmium, Chromium, Lead, Mercury, and Selenium, using EPA 200 series methods;
 - d. Total Petroleum Hydrocarbons using EPA Method 418.1;
 - e. After the first monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the first monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring;
 - f. The results of these analyses shall be submitted to the cheyenne office by the last day of the month following the end of each quarter. The first set of results are due by the last day of April, 1992.
11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

RL/jn
20436.LTR

cc: Jake Strohman, DEQ/WQD
Don McKenzie, DEQ/WQD, Sheridan

PERMIT TO CONSTRUCT

PERMIT NO. 92-010

New
 Renewal
 Modified

Cheyenne BOPU Converse Ave Extension and Dry Creek

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P. O Box 1469
Cheyenne,WY 82003

to construct, install or modify a water and sewer line creek crossing facility according to the procedures and conditions of the application number 92-010. The facility is located in SW 1/4, Section 21, T14N, R66W, in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

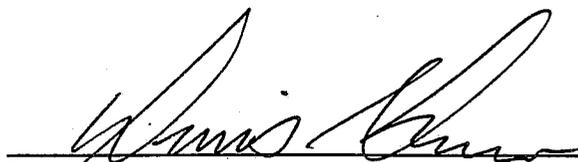
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-11-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LH/mad 20407.LTR

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg, 4 West
Cheyenne, Wyoming 82002

PROJECT: Cheyenne BoPU Converse Ave Extension and Dry Creek Crossing

ENGINEER: AVI pc
2035 Westland Road
Cheyenne, WY

APPLICANT: Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 92-010

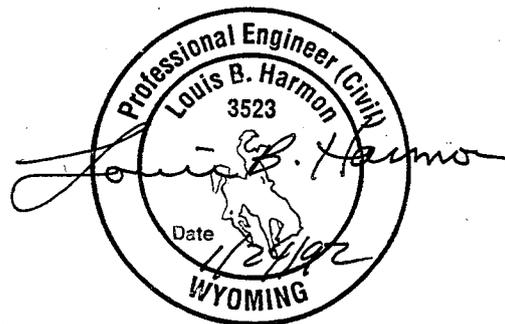
REVIEWING ENGINEER: Lou Harmon

DATE OF REVIEW: January 24, 1992

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. This application is not accompanied by the engineering report required by Section 6 of Chapters XI and XII of DEQ/WQD regulations. The engineering report should address the appropriate items listed in those sections, especially existing flow conditions, anticipated maximum flows and effects of anticipated growth in the area.
2. The plans show a 36" diameter sewer discharging into a 27" sewer which is contrary to regulation. A variance must be requested and justified before this can be approved.



LBH/jn
20228.LTR

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 92-011

Neiman Sawmill Sewer Extension
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Hulett
Box 278
Hulett, Wyoming 82720

to construct, install or modify a collection system facility according to the procedures and conditions of the application No. 92-011. The facility is located in Section 12, Township 54 North, Range 65 West, in the County of Crook in the State of Wyoming.

This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

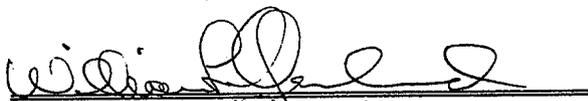
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

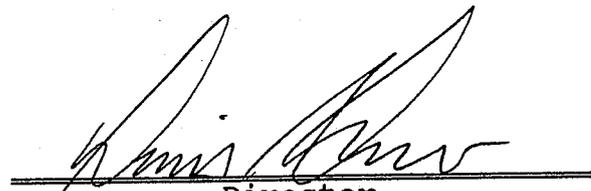
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

2-25-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

✓
SCF:pr

11

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-012

Casper Public Utilities
13th Street Collection Line Replacement

This permit hereby authorizes the applicant:

City of Casper Public Utilities
200 North David
Casper, Wyoming 82601

to construct, install or modify a replacement of 12" and 8" diameter sewer lines according to the procedures and conditions of the application number 92-012. The facility is located in S 1/2 Section 8 T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

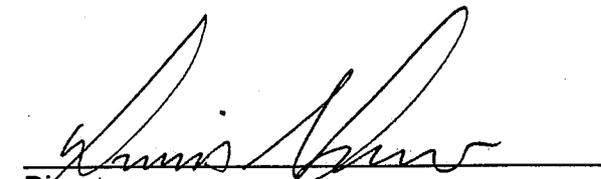
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

1-30-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LH/bb/20239.doc

PERMIT TO CONSTRUCT

[X] New

Permit No. 92-013

[] Renewal

[] Modified

Good Samaritan Mission
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Loren Bebee

P. O. Box 7815

Jackson, WY 83001

to construct a fire sprinkler water supply line according to the procedures and conditions of the application No. 92-013. The facility is located in NW $\frac{1}{4}$ Sec 34, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described

herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

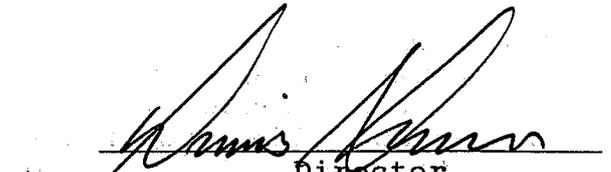
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

3-11-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-014
*** Conditions on Permit ***

Little America Travel Plaza Storm Drainage System Improvements
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Mr. Steven Holding
Sinclair Oil Corporation
550 E South Temple
Salt Lake City, UT 84102

to construct a storm water collection, detention and treatment system according to the procedures and conditions of the application No. 92-014. The facility is located in the North 1/2 of Section 17, Township 18 North, Range 110 West in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability

arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

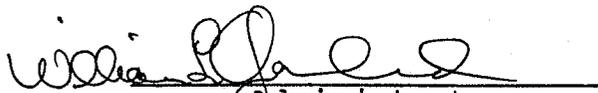
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

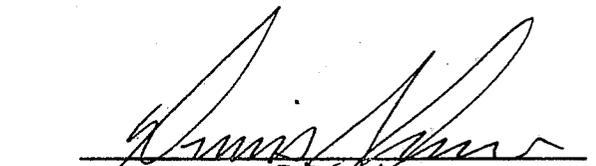
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

2-12-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

CONDITIONS ON PERMIT 92-014

1. To insure that no violation of DEQ/WQD Chapter VIII Regulations (Quality Standards For Wyoming Groundwaters) takes place, the water from the detention pond will be sampled quarterly for a period of one year for the constituents listed below. The results of the quarterly sample analysis shall be submitted to the Lander office for review. If the sampling results indicate that the quality of the pond water could adversely effect groundwater quality, additional measures to protect groundwater quality must be implemented. These measures may include groundwater monitoring and/ or pond lining.

QUARTERLY SAMPLE ANALYSIS

BETX(Benzene,Ethylbenzene,Toluene,Xylene) : EPA Method 502.2

Oil and Grease : EPA Method 413.1

TDS(Total Dissolved Solids) : EPA Method 160.1

2. Any free product (floating oils or fuel) reaching the pond shall be removed immediately and disposed of at a DEQ/WQD authorized disposal facility.
3. In the event of a spill, as defined by Chapter IV, DEQ/WQD Regulations, the stormdrain system and pond should be immediately isolated to prevent any spilled material from contaminating either the storm drain system or the runoff detention pond. If a spill reaches the storm drain or pond, the affected area will be decontaminated and wastes material disposed at a DEQ/WQD approved site.
4. The oil water separator will be operated and maintained in a manner such that no free product is discharged to the pond.

R7

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 92-015RR
CONDITIONS

Pond 1 Expansion
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Tenneco Soda Ash Joint Venture

P. O. Box 1167

Green River, WY 82935

to raise pond elevation by five feet to enlarge pond area to 225.84 acres including groundwater monitoring wells facility according to the procedures and conditions of the application No. 92-015RR. The facility is located in Sec. 1, T17N, R110W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the

performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

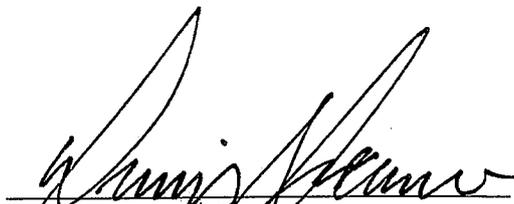
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

BL/jyi

Conditions for Monitoring Wells

- 1 of 8 The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 92-015RR. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).

- 2 of 8 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.

- 3 of 8 After the monitoring wells 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. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.

- 4 of 8 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.

- 5 of 8 In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level; Factory slotted casing is recommended for the perforated interval;

- d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
- e. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
- f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
- g. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
- h. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
- i. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.

6 of 8 DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.

7 of 8 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

8 of 8 All monitor wells associated with this facility shall be sampled and the wastewater analyzed on the same schedule and for the parameters the other Tenneco monitor wells are currently sampled.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days.

PERMIT TO CONSTRUCT

New

Permit No. 92-016

Renewal

Modified

Boulder Quarantine Facility

This permit hereby authorizes the applicant (name and address):

Wyoming Game & Fish

5400 Bishop Blvd.

Cheyenne, WY 82006

to construct a fish quarantine facility on the East Fork of the New Fork River according to the procedures and conditions of the application No. 92-016. The facility is located in NW1/4, Section 26, T.32N., R.108W. in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have

been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

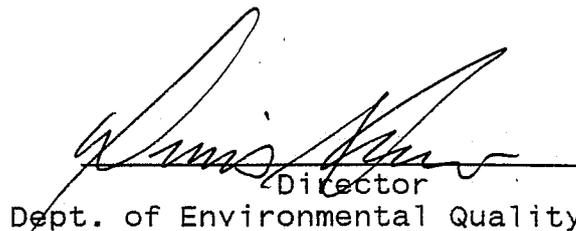
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

3-7-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

BL

PERMIT TO CONSTRUCT

PERMIT NO. 92-017
See Special Conditions

New
 Renewal
 Modified

Orchard Valley Sanitary Sewer Improvements

This permit hereby authorizes the applicant:

South Cheyenne Water & Sewer District
215 East Allison Road
Cheyenne, WY 82007

to construct, install or modify a sewer line replacement facility according to the procedures and conditions of the application number 92-017. The facility is located in NE 1/4, Section 18, T13N, R66W, in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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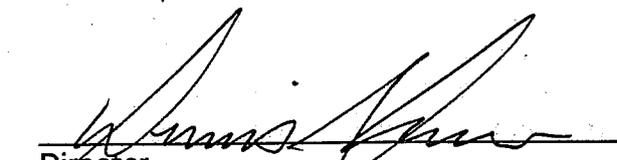
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality

2-11-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct #92-017

As recommended in the engineer's report, a variance is granted for the use of SDR 26, ASTM D-2241 pipe in areas where the overt of the sewer line is less than 18" below the waterline invert. The upgraded sewer line is to be used in lieu of encasement of one the lines. This alternative is only allowable where the overt of the sewer line is below the invert of the water line.

LH/mad 20408.LTR

cc: Jack Noblitt & Associates
1920 Thomes Avenue, Suite 620
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-018

Robert Queen Septic System
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Robert Queen
St. Rt. 4, Box 25
Sundance, Wyoming 82729

to construct, install or modify a septic system facility according to the procedures and conditions of the application No. 92-018. The facility is located in Section 23, Township 53 North, Range 62 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

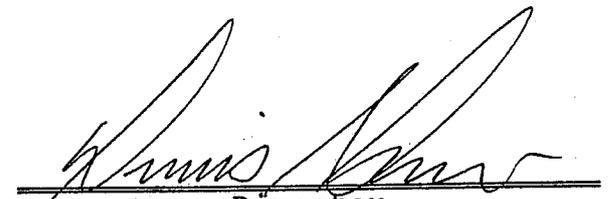
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

2-25-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SCF:pr

THE STATE



OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

May 6, 1993

Town of Fort Laramie
100 E. Bliss
Fort Laramie, WY 82212

RE: Fort Laramie Land Application of Lagoon Sludge
NE 1/4 Section 27, T. 26 N., R. 64 W., Goshen County
Permit No. 92-019

Gentlemen:

The permit application shown above is for the one time application of sludge to the ground. Our office is aware that the Town of Fort Laramie will not be applying sludge to the land and will not require the permit requested. Also Chapter II Section 7 Paragraph (b)i indicates that an applicant has six months to respond to a review or the incomplete permit information will be returned. The review for the permit was dated April 6, 1992 which is more than six months ago and therefore the incomplete permit is being returned to the Town.

This item has not been permitted. Land application of sludge without a permit is a violation of the Environmental Quality Act and is punishable with fines not to exceed \$10,000 per day of violation. If you wish to reconsider land application of sludge, then application procedures pursuant to Chapter III, Wyoming Water Quality Rules and Regulations, must be followed.

Sincerely,


Gary Steele, P.E.
Southeast District Engineering Supervisor
Water Quality Division

GS/nc 32226.LTR
Enclosure
cc: IPS

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg, 4 West
Cheyenne, Wyoming 82002

PROJECT: FORT LARAMIE LAND APPLICATION OF LAGOON SLUDGE

ENGINEER: Jack Noblitt & Associates

APPLICANT: Town of Fort Laramie

WATER QUALITY DIVISION REFERENCE NUMBER: 92-019

REVIEWING ENGINEER: Lou Harmon

DATE OF REVIEW: April 6, 1992

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:



1. A completed Chapter III Application for Permit to Construct must be submitted. Three copies of this form are enclosed.
2. Please complete the Lagoon Sludge Application Form enclosed as part of the application for Permit to Construct.

/jn
21035.ltr

cc: Mark Escobedo, DEQ/WQD

MUNICIPAL LAGOON SLUDGE APPLICATION FORM

To Be Used With The Chapter III
Application For Permit To Construct

1. This form is for the one time application of sludge from sewage lagoons operated by

A. Owner: _____

Address: _____

City : _____ State: _____ Zip: _____

on agricultural lands used only for animal feed crops (pasture or cultivated) and restricted from public access or change of use for a minimum of 12 months and grazing or harvesting activities for 30 days. Permission is hereby granted by the landowner for use of the property at

B. _____ 1/4 Section _____ T__N R__W, _____ County

for the disposal of sludge only from the lagoons listed above. The landowner and any tenants understand that this sludge is not 100 percent pathogen free and agree to abide by the access restrictions.

C. Landowner: _____

Address: _____

City : _____ State: _____ Zip: _____

Landowner's Signature: _____

D. Tenant: _____

Address: _____

City : _____ State: _____ Zip: _____

Tenant's Signature: _____

2. The sludge shall only be transported to the application site in covered trucks. If the sludge drips free liquid it shall be transported in water tight conveyance.
3. The sludge shall be uniformly spread at a rate not to exceed 10 tons per acre with equipment designed for the sludge consistency being applied. The sludge may not be spread on snow, during precipitation, within 1500 feet of any residence, or within 300 feet of a road, surface water, property line, or water well or on slopes exceeding 5 per cent.
4. The operation of the lagoon shall be considered to have satisfied the requirements of a "Process to Significantly Reduce Pathogens" or PSRP.
5. The sludge and the soil at the application site shall be tested for Kjeldahl nitrogen and pH. The results are as follows:

	Nitrogen as N		pH
Site:	_____ (lbs/acre)		_____
Sludge:	_____ (lbs/ton)		_____

The available nitrogen shall not exceed 250 pounds per acre after the application of the sludge. The pH of the soil shall be greater than 6.5.

6. The land application of the sludge must comply with Part E of Chapter XI of DEQ/WQD Regulations. If upon review DEQ/WQD determines that this application does not demonstrate compliance, additional information or modifications may be required. The use of this form may result in conditions more restrictive than Part E. An individually designed land application permit supported by a design report may be submitted in lieu of this form.

/jn
21035-1.ltr

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-020

Creative Construction, Industrial Septic Tank Modifications

This permit hereby authorizes the applicant:

Creative Construction
1831 Schoonover
Gillette, WY 82716

to construct, install or modify an industrial and sanitary septic system facility according to the procedures and conditions of the application number 92-020. The facility is located in NE ¼ SE¼ Section 11, T49N, R72W in the county of Campbell, in the State of Wyoming. This permit shall be effective for a period of one (1) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Program Supervisor, UIC Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

7/17/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RFL/mad 22171.LTR

PERMIT TO CONSTRUCT

New

Permit No. 92-021

Renewal

Modified

Waste Disposal Cell D
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

General Chemical Corp.

P. O. Box 551

Green River, WY 82935

to construct, install, or modify a tailings waste disposal cell and seepage interceptor trench facility according to the procedures and conditions of the application No. 92-021. The facility is located in NE $\frac{1}{4}$, SW $\frac{1}{4}$, Sec 31, T19N, R109W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

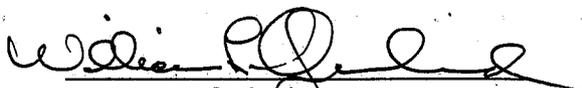
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

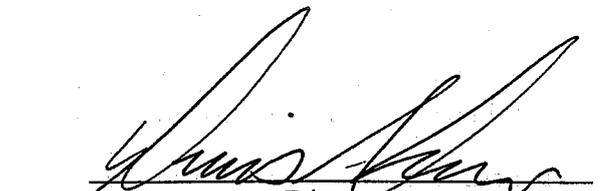
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3/4/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.
BL/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-022RR

Boysen State Park Water Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

State of Wyoming, Department of Commerce, State Parks

2301 Central Ave. Barrett Building

Cheyenne, WY 82002

to install a 20 gpm water treatment plant with storage and chlorination facilities according to the procedures and conditions of the application No. 92-022RR. The facility is located in NW $\frac{1}{4}$ Sec. 21, T5N, R6E, Wind River Meridian in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

8-14-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi

LAND APPLICATION PERMIT

PERMIT NO.: 92-023
SEE SPECIAL CONDITIONS

Riverton Sludge Management Plan
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Riverton

P.O. Box 1700

Riverton, WY 82501

to land apply the Riverton Wastewater Treatment Facilities municipal sludge to various sites. The application sites are located in Riverton at the old landfill and parks as well as reclaimed land in the county of Fremont in the State of Wyoming.

This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allow under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the disposal method described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any

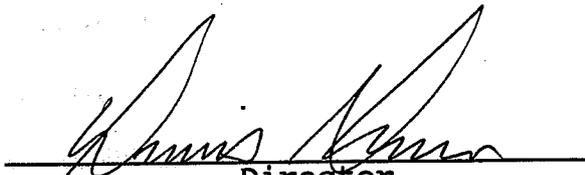
responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringements of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-3-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Conditions to Land Application Permit

1. of 6 The City of Riverton must comply with the final 40 CFR Part 503 sludge technical standards when promulgated. These standards are expected to be final by July 1992.
2. of 6 This permit may be reopened anytime to ensure that the technical standards published in 40 CFR Part 503 are included. The City of Riverton is required to comply with applicable Part 503 standards whether or not such requirements are listed in either this or the NPDES permit.
3. of 6 The City of Riverton must comply with the sludge management and monitoring requirements listed in the City's NPDES permit (WY-0020672). The sludges monitoring reports are to be sent to the DEQ/WQD, Lander office, quarterly as well as to DEQ/WQD, Cheyenne office.
4. of 6 The City of Riverton is required to notify the DEQ/WQD in writing of any significant change in the sludge use or disposal practice. This includes any new use or disposal site not previously identified.
5. of 6 The City of Riverton must keep records indicating amount of dry sludge produced, as well as the locations and

amounts applied to all agriculture and reclaimed lands. Records for sludge applied to parks, greenbelts, or around the wastewater treatment plant are suggested.

6. of 6 Annual Processes to Significantly Reduce Pathogens (PSRP) and Processes to Further Reduce Pathogens (PFRP) analyses must be done in accordance with the analytical methods listed in Appendix A (attached). Sludge can be applied to parks, golf courses, ballfields or other lands where the potential for human exposure cannot be adequately controlled, only after PFRP equivalency is demonstrated. For stockpiling to qualify as an equivalent PFRP, the City of Riverton must demonstrate that the sludge contains:

< 3 MPN Salmonella spp./4 grams dry weight

< 1000 MPN fecal coliform bacteria/gram dry weight

See Appendix B (attached) for details.

JH/anc

Enclosures: Appendix A and Appendix B

APPENDIX A

Recommended Analytical Methods to Demonstrate PSRP or PFRP Equivalency

Organism or Parameter of Interest	Method/Reference
Microbial Populations	
Indicator Organisms:	
Fecal coliform	Standard Methods, Methods 908 and 909 (APHA, 1985).
Fecal streptococcus	Standard Methods, Method 910A (APHA, 1985) or Slanetz and Bartley, 1957.
Enterococci	Levin et al., 1975.
Salmonella spp.	Standard Methods, Method 912C.1 (APHA, 1985) or Kenner and Clark, 1974.
Total enteroviruses	EPA, 1984c or Goyal et al., 1984.
Helminth ova (including <i>Ascans</i> spp., <i>Toxocara</i> spp., <i>Trichuris trichiura</i>)	Fox et al., 1981 or Yanko, 1987 or Tulane University, 1981
Vector Attraction Potential	
Specific Oxygen Uptake Rate (SOUR)	Standard Methods, Method 213A. (APHA, 1985)
Sludge Characteristics	
Total solids	Standard Methods, Method 209A (APHA, 1985).
Total suspended solids	Standard Methods, Method 209C (APHA, 1985).
Volatile solids	Standard Methods, Method 209D (APHA, 1985).
Volatile suspended solids	Standard Methods, Method 209D (APHA, 1985).

APPENDIX B

To be equivalent to PFRPs, a process must reduce microorganisms to below the following limits:

- *Salmonella* spp. - 3 MPN/100 ml sludge at 5% solids (100 ml sludge at 5% solids equals approximately 5 g dry solids).^{3,4,5}
- Total enteroviruses - 1 plaque-forming unit (PFU)/100 ml sludge at 5% solids.^{3,4,5}
- Helminth ova - 1 viable ovum/100 ml sludge at 5% solids.⁵ For treatment processes, you must demonstrate this reduction for *Ascaris* spp. only.³ If you are applying for PFRP status for stockpiled sludge, you must demonstrate that *Ascaris* spp., *Toxocara* spp., and *Trichuris trichiura* have been reduced to no more than 1 viable egg per 100 ml sludge at 5% solids. (These additional requirements for stockpiled sludge are necessary because it is impossible to know whether the untreated sludge contained helminths. A negative finding for one helminth species alone does not necessarily indicate helminth reduction. It may simply mean that species was not present initially. Negative findings in three species provides greater reassurance of destruction.)

³ To demonstrate adequate pathogen destruction, the untreated sludge must contain 1,000 MPN *Salmonella* spp./g total suspended solids (TSS); 1,000 PFU total enteroviruses/g TSS, and 100 viable *Ascaris* spp. ova/g TSS prior to treatment. If your untreated sludge does not naturally contain these densities, you must spike it to achieve these levels.

However, if you can demonstrate that one organism is more susceptible than others, it may be sufficient to test only for the last susceptible organism. For example, viruses are much less sensitive to radiation than bacteria and helminth ova. For radiation-based processes, it is sufficient to demonstrate that the process reduces viruses to the required level. If you think your process might qualify for this reduction in testing, provide the PEC with the data necessary to substantiate your claim.

⁴ For processes for which data in the literature indicate a correlation between indicator organism reduction and reduction of pathogenic viruses and bacteria (for example, thermal processes using temperatures of sufficient degree and duration to anticipate pathogen destruction, e.g., 3 days at 53°C [127°F], 30 minutes at 70°C [158°F], it may be possible to substitute indicator organism data for total enterovirus and *Salmonella* spp. data. If you think your process might qualify for such a substitution, consult with the PEC prior to performing microbiological testing, and provide the

committee with the data necessary to substantiate your claim.

Processes that qualify for this substitution must demonstrate the capability to reduce either fecal coliforms and fecal streptococci or fecal coliforms and enterococci to densities below 100/g total suspended solids.

⁵ For sludges with a different solids percentage, the volume or weight equivalent of 5 grams dry solids must be calculated to determine the appropriate units of sludge for demonstrating PFRP pathogen reduction. This is done by dividing 5 grams by the density of the sludge. For example for a 1% sludge, the density (on a volume basis) is approximately 1 g/100 ml. For this sludge, the volume equivalent of 5 g is:

$$\frac{5 \text{ g dry solids}}{1 \text{ g/100 ml}} = 500 \text{ ml.}$$

Thus, to meet PFRP requirements, a 1% sludge must contain less than 3 MPN *Salmonella* spp., 1 PFU total enteroviruses, and 1 viable helminth ovum per 500 ml sludge. For an 18% sludge, the density (on a weight basis) is 0.18 g dry solids/1 g total sludge cake. The weight equivalent of 5 g dry solids is:

$$\frac{5 \text{ g dry solids}}{0.18 \text{ g dry solids} / 1 \text{ g sludge cake}} = 28 \text{ grams sludge cake}$$

In addition, as part of PFRP equivalency, you must demonstrate that your process reduces vector attractiveness to the same degree as properly conducted anaerobic digestion (see below).

Reduction in Vector Attractiveness: Criteria for Demonstrating Equivalency

Type of Sludge	Criteria
All types	Reduction of volatile solids content of the sludge by at least 38% during treatment.
Sludges from aerobic processes (aerobic digestion or extended aeration)	Treated sludge has an oxygen intake of less than 1 mg oxygen/hour/g TSS as demonstrated by the specific Oxygen Uptake Rate (SOUR) test at 20°C (68°F).
Anaerobic sludges	Volatile solids reduction in treated sludge after 40 days <i>additional</i> batch mesophilic digestion is less than 15%.
Sludges that contain no raw primary sludge	Total suspended solids content of treated sludge is 75% or greater and remains at this level until the point of land application.
High pH sludges	Treated sludge maintains a pH of 11.5 or greater up to the time of land application.
Stockpiled sludge	Lack of odor throughout the sludge pile.



THE STATE

OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520

Air Quality Division
(307) 332-6755

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-6924

Water Quality Division
(307) 332-3144

February 26, 1992

Mr. Harry LaBonde Jr.
City of Riverton
P.O. Box 1700
Riverton, Wy. 82501

RE: Sludge Management Plan, Appl. No. 92-023

Dear Harry:

Department of Environmental Quality, Water Quality Division (DEQ/WQD) has reviewed the City of Riverton's proposed sludge management plan which will supersede permit number 86-294. Permit 86-294 expired October 21, 1991, after a five year effective period. Permit 92-023 is also issued for sludge management for a five year period although the permit can be reopened anytime to ensure that the technical standards to be promulgated in 40 CFR Part 503 are met. These standards are to be final by July 1992.

Riverton's oxidation ditch, aerobic digester, and sludge drying is a recognized Process to Significantly Reduce Pathogens (PSRP). The storage of the processed sludge has been and is proposed in your application as the Process to Further Reduce Pathogens (PFRP) which would enable the sludge to be used where unrestricted human contact is possible. A PFRP must effectively reduce bacteria, viruses, and helminth ova in the sludge to below detectable levels. This level of sludge treatment is required when the land application process cannot be adequately controlled to prevent the potential for human exposure.

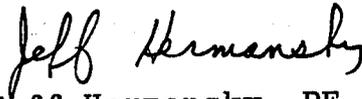
Sludge storage may be effective in meeting the PFRP criteria but it is not acceptable simply as a process. The regulations state that treatment methods or operating conditions other than those listed as PFRP methods may be acceptable if they reduce pathogens and vector attraction to an extent equivalent to that achieved by the listed PFRP's. Therefore, Riverton's sludge can be used on parks, greenbelts, or the golf course only after testing to determine equivalency shows that pathogens have been reduced to below detectable levels.

To determine if PSRP has been achieved, sludge samples must be taken at the aerobic digester influent and from the dewatered sludge. For the PFRP determination, the aged stockpile must be sampled prior to application. Sampling protocol can be found in the EPA "POTW Sludge Sampling and Analysis Guidance Document" which is enclosed. Be sure that all analytical results are reported in dry weight.

As in Riverton's previous sludge management plan, the sludge application rate is limited to 10 dry tons per acre for parks, the golf course, and other greenbelt areas. One time application to the old Riverton landfill and abandoned farm land around Ocean Lake, is limited to 20 dry tons per acre. Greater one time application rates may be permitted if justified by site and crop specific agronomic analysis submitted to this office for evaluation.

There is a good deal of confusion surrounding the land application of sludge since the EPA regulations have been so long in coming. I believe it would be a good idea if we were to get together to discuss this permit since I suspect there may be some questions. Please let me know.

Sincerely,



Jeff Hermansky, PE

encls.

xc. Harry Labonde, City of Riverton
Larry Robinson, DEQ/WQD, Cheyenne
file (2)

PERMIT TO CONSTRUCT

PERMIT NO. 92-024

New
 Renewal
 Modified

Frontier Refining, Inc

This permit hereby authorizes the applicant:

Frontier Refining, Inc
P. O Box 1588
Cheyenne, WY 82003

to construct, install or modify a modification of industrial wastewater sewer system facility according to the procedures and conditions of the application number 92-024. The facility is located in NW 1/4, Section 4, T13N, R66W, in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

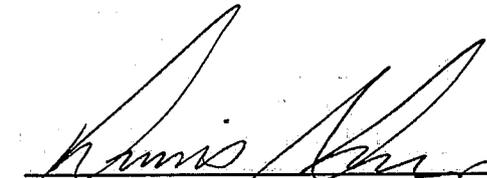
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3/4/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LH/mad 20644.LTR

file

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-025

SINCLAIR REFINERY QUADRICELL INDUCED AIR FLOTATION UNIT

This permit hereby authorizes the applicant:

Sinclair Oil Corporation
P.O. Box 277
Sinclair, WY 82334

to construct, install or modify induced air flotation unit according to the procedures and conditions of the application number 92-025. The facility is located in SW 1/4 Section 15 T21N R86W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

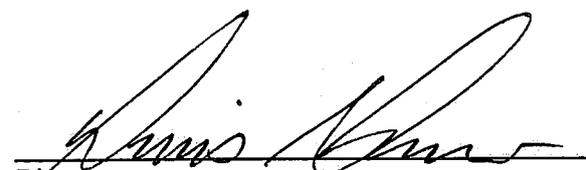
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

4-8-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

LBH/nc 20996.LTR

cc: Kevin Frederick
Tom Aalto, EPA
Klane Forsgren, Sinclair Oil Corp., 550 East South Temple,
Salt Lake City, UT 84102

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-026
*** Conditions on Permit ***

Black Butte Coal Co. Pond SP-I6
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Black Butte Coal Company

P.O. Box 98

Point of Rocks, WY 82942

to construct a sedimentation/treatment pond according to the procedures and conditions of the application No. 92-026. The facility is located in SE 1/4, SE 1/4, Section 7, Township 18N, Range 100W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

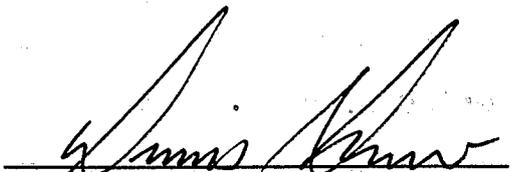
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-11-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Conditions on Permit

- 1/3 A sample of the water pumped from the pit shall be collected quarterly and analyzed for Total Dissolved Solids, Sulfate (SO₄), and Selenium. The pit water shall not exceed the levels listed for Class III groundwaters in Chapter VIII of DEQ Water Quality Rules and Regulations. Sampling results indicating pit water not meeting the Class III groundwater limits shall be reported to the DEQ/WQD immediately. Pit water not meeting the Class III limits shall not be transferred to the pond. If water quality in the pit falls below Class III groundwater standards a lined pond will be required.

- 2/3 Records shall be kept which document the volume of pit water discharged to the pond.
- 3/3 The results of the analyses shall be submitted to the Lander DEQ/WQD office. The report should summarize all sampling results to date, show volumes of pit water discharged and illustrate trends if present. Depending on the results of these analysis, additional sampling and analysis may be required by the Water Quality Division.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-027
*** Conditions on permit ***

Black Butte Coal Co. Pond SP-I5
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Black Butte Coal Company

P.O. Box 98

Point of Rocks, WY 82942

to construct a sedimentation/treatment pond according to the procedures and conditions of the application No. 92-027. The facility is located in NE 1/4, NE 1/4, Section 7, Township 18N, Range 100W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-11-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Conditions on Permit

- 1/3 A sample of the water pumped from the pit shall be collected quarterly and analyzed for Total Dissolved Solids, Sulfate (SO₄), and Selenium. The pit water shall not exceed the levels listed for Class III groundwaters in Chapter VIII of DEQ Water Quality Rules and Regulations. Sampling results indicating pit water not meeting the Class III groundwater limits shall be reported to the DEQ/WQD immediately. Pit water not meeting the Class III limits shall not be transferred to the pond. If water quality in the pit falls below Class III groundwater standards a lined pond will be required.

- 2/3 Records shall be kept which document the volume of pit water discharged to the pond.

- 3/3 The results of the analyses shall be submitted to the Lander DEQ/WQD office. The report should summarize all sampling results to date, show volumes of pit water discharged and illustrate trends if present. Depending on the results of these analysis, additional sampling and analysis may be required by the Water Quality Division.



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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February 15, 1995

Leroy T. Wells, P.E.
Department of Transportation
P.O. Box 1708
Cheyenne, WY 82003-1708

RE: As-Built Permit to Construct, WQD Reference Number 92-028

Dear Mr. Wells:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by yourself as the construction supervisor. Our review indicates that the application appears to meet DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued.

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

Sincerely,

Dennis Hemmer
Director
Department of Environmental Quality

DH/RT/nc 50792.LTR

Enclosure

xc: Plans (2)

AS- BUILT
PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-028
* **CONDITIONED** *

Dept. of Transportation, Medicine Bow Shop Evap. Pond
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyo. Dept. of Transportation

P.O. Box 1708

Cheyenne, WY 82003-1708

to have constructed an evaporation pond according to the procedures and conditions of the application No. 92-028. The facility is located in NE NE ¼ S12 T22N R79W in the County of Carbon, in the State of Wyoming.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours,

Permit to Construct #92-028
Dept. of Transportation, Medicine Bow Shop Evaporation Pond

to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

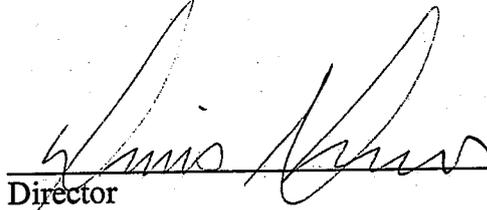
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-17-95

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

STANDARD CONDITIONS 1 through 2

1. of 2 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
2. of 2 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

RT/nc 50792.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 92-028

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

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

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

NA

B. Briefly state the basis for the deviation.

NA

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

NA

Statement of Basis
92-028

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

Not Applicable

- VI. Documentation of Statement of Basis.

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

RT/nc 50792.LTR

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

PERMIT TO CONSTRUCT

New

Permit No. 92-029R

Renewal

Modified

Bridger Coal Company TDS Pond No. 3
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Bridger Coal Company

P.O. Box 2068

Rock Springs, WY 82902-2068

to construct a coal mine sedimentation pond according to the procedures and conditions of the application No. 92-029R. The facility is located in SE 1/4, NW 1/4, Section 5, Township 20 North, Range 100 West in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

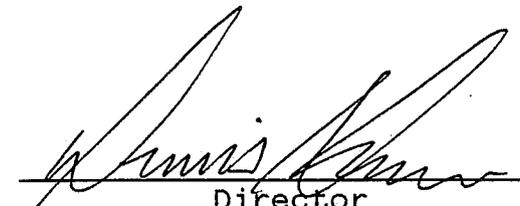
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-24-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.____
SR/sr

PERMIT TO CONSTRUCT

PERMIT NO. 92-030
See Special Conditions

New
 Renewal
 Modified

Alcova Lagoons Wastewater Treatment Facility

This permit hereby authorizes the applicant:

Natrona County Parks Department
4621 Cy Avenue
Casper, WY 82604

to construct, install or modify a modification and improvement of unpermitted lagoon system facility according to the procedures and conditions of the application number 92-030. The facility is located in NE ¼, Section 33, T30N, R83W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3-23-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 92-030

- 1 of 6 The bottom and sides of the second and third cells shall be scarified and uniformly recompactd. The compaction rates and material content shall be adjusted to achieve the desired infiltration rates.
- 2 of 6 An operations manual must be completed and submitted to DEQ/WQD for approval by May 1, 1992. Section 24 of Chapter XI provides the detailed requirements for operations manuals. Detailed as-built drawings must be submitted before start up of the system.
- 3 of 6 Monitoring reports on the lagoon operation shall be due to DEQ/WQD and Natrona County Health Department annually by October 31st. The following elements shall be included in the report.
 - a. Spring start up conditions, including water levels in all cells, water levels in the monitoring wells and the level of the lake shall be recorded.

- b. Mid-season operating conditions shall be recorded during the first week of August.
- c. End of season operating conditions shall be recorded during the second week of September. The end of season report shall include an estimate of the volume of waste treated during the season. The operating time of the lift stations may be used to arrive at this estimate.
- d. Water samples from the three monitoring wells and shall be analyzed for nitrates and nitrites as "N", ammonia, and total coliforms in May and the first week of August.

4 of 6 If the down gradient monitoring wells have coliforms present they shall be immediately resampled. If the coliforms are present upon the resampling, the second and third cells shall immediately be manually chlorinated for the remainder of the season. If the same problem occurs the following season design efforts shall be initiated to remedy the problem.

5 of 6 The single primary cell design of this system with no diversion piping is approved as the system is used seasonally to treat recreational activity wastes.

6 of 6 This facility shall not be allowed to receive septic wastes or outhouse and privy wastes.

/mad 20823.LTR

cc: Natrona County Health Department
CEPI

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-031
See Special Conditions

YARBER CONSTRUCTION - UST SITE ASSESSMENT AND OVER EXCAVATION

This permit hereby authorizes the applicant:

Yarber Construction
132 East Carlson
Cheyenne, Wyoming 82240

to construct, install or modify or conduct an underground storage tank site assessment and over excavation of contaminated soils according to the procedures and conditions of the application number 92-031. The facility is located in the NW¼ NW¼ of Section 19, Township 14 North, Range 66 West in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

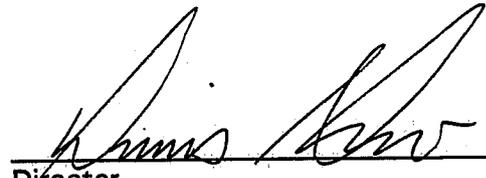
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-28-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 92-031

- 1 of 3. The soil samples should also be analyzed for Total Petroleum Hydrocarbons (TPH) in addition to BTEX as proposed.
- 2 of 3. This permit only allows site assessment activities and subsequent over excavation of contaminated soils as determined by the consultant on-site at the time of the site assessment. If any remediation activities beyond simple over excavation of contaminated soils are determined to be necessary these activities will require a separate application and permit approval before starting up.
- 3 of 3. A detailed site assessment report including sample locations and analytical results shall be sent to DEQ for inclusion in the state UST notification file for this site (UST facility ID #1897). Additionally, if any overexcavation remediation is conducted as a result of the site assessment, details of the extent of the excavation shall be included in this report to DEQ.

RE/jn
20575.LTR

cc: Suzanne Stevenson, EPA, Region VIII
UISR file #1897

From: Randall Taylor
To: CHEYENNE.PBURNS
Date: 3/4/96 10:34am
Subject: Permit Application Status Report

Your latest permit status report was receive 2/29/96. There are two updates I would like to have made to this as follows:

- 1) 95-338, Church & Dwight/Green River was forwarded to Bob Lucht and should list RFL as the lead person for this permit.
- 2) 92-032, Kemmerer/Diamondville San Sew was handled just prior to my starting with the DEQ. The only record I have of this permit is a copy of the application form with a description of proposed construction given as replacement of 305 LF of 10" sanitary sewer.

On February 29, 1996 I sent a letter to the Kemmerer/Diamondville Joint Powers Board inquiring as to the status of this project. This morning Barry Mootz, JPB Supervisor, called me back and said this project was never constructed and the application should be considered withdrawn.

Barry did tell me that in 1992 this portion of pipe was insitu-lined, but never replaced as described in the application. Our requirements for permitting insitu-lining have not been clear, and I do not know what the JPB may have been told back then. I do not see any merit in pursuing any as-built permitting for the insitu-lining (in any case this would be a seperate issue).

~~This application should be shown as withdrawn.~~

CC: CHEYENNE.LROBIN

PERMIT TO CONSTRUCT

[X] New

PERMIT NO. 92-033

[] Renewal

[] Modified

BIG GOOSE WATER TREATMENT PLANT

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Sheridan Area Water Supply - Joint Powers Board
224 South Main Street
Sheridan, Wyoming 82801

to construct, install or modify a water treatment facility according to the procedures and conditions of the application No. 92-033. The facility is located in Section 25, Township 55 North, Range 86 West, in the County of Sheridan in the State of Wyoming.

This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

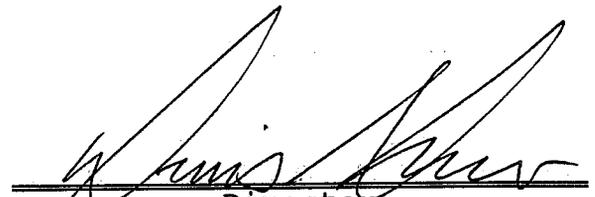
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

5-6-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SCF/pr:4/29

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 92-034

SHERIDAN WATER TREATMENT PLANT UPGRADE

(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Sheridan Area Water Supply - Joint Powers Board
224 South Main Street
Sheridan, Wyoming 82801

to construct, install or modify a water treatment facility according to the procedures and conditions of the application No. 92-034. The facility is located in Section 29, Township 56 North, Range 84 West, in the County of Sheridan in the State of Wyoming.

This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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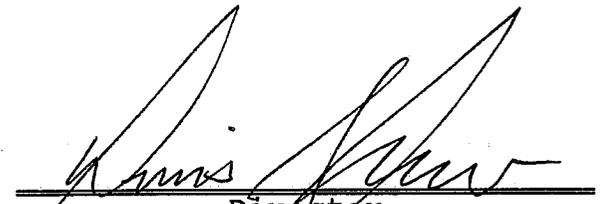
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

5-6-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

✓
SCF/pr:4/29

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-035

Dickinson Mobile Home Park Sewer
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

J.R. Contractor, Inc.

1602 Dorrie Street

Riverton, WY 82501

to construct, an eight inch collection sewer line to convey sewage to the City of Riverton collection system according to the procedures and conditions of the application No. 86-372RR. The facility is located in Sec 23, T1N, R4E in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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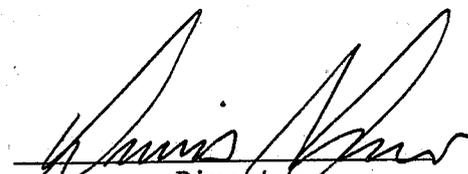
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AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

3-3-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SG

PERMIT TO CONSTRUCT

New

Permit No. 92-036

Renewal

Modified

Jackson Fire Station Fire Protection
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Jackson

P.O. Box 1687

Jackson, WY 83001

to install a 4" diameter fire sprinkler system line according to the procedures and conditions of the application No. 92-036. The facility is located in Sec 27, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

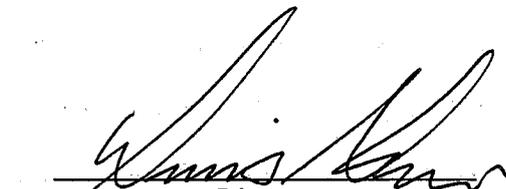
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3/4/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SG

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-037RR
CONDITIONED

Luton Guest Ranch WWTF
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Brad Luton

P.O. Box 95

Moran, WY 83013

to construct a septic tank and elevated leachfield system according to the procedures and conditions of the application No. 92-037RR. The facility is located in Section 34, T45N, R113W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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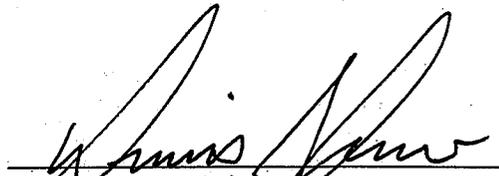
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AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

5-14-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SG

CONDITIONS

- 1 of 8. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 92-037RR. Additional wells meeting the requirements of the application and this permit may be

installed if prior approval is received from the Water Quality Division (WQD).

- 2 of 8. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
- 3 of 8. After the monitoring wells 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. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
- 4 of 8. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
- 5 of 8. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The screened interval shall extend above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level; Factory slotted casing is recommended for the perforated interval;
 - d. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - e. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
- 6 of 8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

- 7 of 8. All monitor wells associated with this facility shall be sampled on a quarterly basis for pH, fecal coliform, ammonia, nitrate-n, nitrite-n, chlorides, and static water level.

The results of these analyses shall be submitted to the Lander office within 30 days from the last day of the quarter. Depending on the results of these analyses, parameters to be sampled and frequency of sampling may be revised by the Water Quality Division. A groundwater gradient map shall be provided with the lab analysis.

- 8 of 8. The results of any analysis conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-038
See Special Conditions

Laramie County City/County Health Center

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82003

to construct, install or modify water and sewer line extensions to Health Center facility according to the procedures and conditions of the application number 92-038. The facility is located in SW ¼, Section 05, T13N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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

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

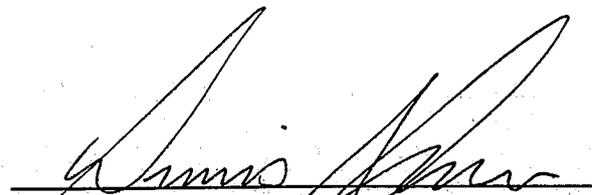
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3-6-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct #92-038

- 1 of 3. Hospitals and laboratories require a reduced pressure backflow device to protect the water main.
- 2 of 3. If the high hazard areas such as the laboratories within the building are protected by local reduced pressure backflow devices, then the water service can be protected with a double check valve as per the requirements of Chapter XII of the DEQ/WQD regulations.
- 3 of 3. The landscaping irrigation system requires that a vacuum breaker or airgap type backflow protection device be used between the irrigation system and other water distribution piping.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-039

Salt Creek Water and Sewer District Improvements, Phase II, Tubb Town

This permit hereby authorizes the applicant:

Salt Creek Water and Sewer District
P.O. Box 847
Newcastle, WY 82701

to construct, install or modify Collection System and Mound Treatment System according to the procedures and conditions of the application number 92-039. The facility is located in Section 1, SW 1/4, T44N, R61W in the county of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Program Supervisor, CMAG Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11-9-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

POL/nc 24006.LTR

cc: R.C.H & Associates, P.O. Box 1659, Glenrock, WY 82637



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

October 2, 1992

Robert C. Hartley
R.C.H and Associates
P.O. Box 1659
Glenrock, WY 82637

RE: Federal Sewage Works Grant C560245-94: Phase II Salt Creek Water District Sewer Improvements, Tubb Town; Plans and Specifications Review 92-039RR

Dear Bob:

We have completed the review of the revisions you sent concerning the above referenced project. Our comments are below.

Sheet 45 - Cleaning of pump suction line at wet well

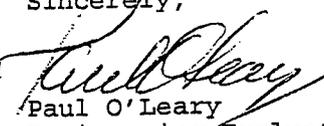
General

1. Please correct the typographical error 4 CFR should be 41 CFR. This is found in the statement added to the Bid Form. Please submit corrected copy.
5. The issue of management of the individual home septic tanks needs to be addressed. Will there be a management agency to provide for the pumping out of the septic tanks on a regular basis? Access easements may be required to maintain the collections systems service lines and septic service lines. This should be addressed formally between the property owners and the Salt Creek Water District.

Please add to contract language the reference to EPA Boilerplate Section VII Remedies. This means Section 101.16-Arbitration is an option, not a requirement. The Grantee must be made aware of this change and refer to EPA Boilerplate for direction.

Please make the necessary changes and submit 5 (five) copies of the revised plans and specifications to this office. Should you have any questions please contact me at 777-7085.

Sincerely,


Paul O'Leary
Engineering Evaluator
Water Quality Division

PO/nc 23568.LTR
xc: Salt Creek Water District
Grant File

October, 1992
CLEAN WATER MONTH

PERMIT TO CONSTRUCT

[X] New

Permit No. 92-040R

[] Renewal

[] Modified

Fleischli Oil Co. Bulk Plant
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Fleischli Oil Company

P. O. Box 487

Cheyenne, WY 82003

to construct, install, or modify a series of ground water monitoring wells facility according to the procedures and conditions of the application No. 92-040. The facility is located in SE ¼ SE ¼ Sec. 15, T19N, R105W (151 Industrial Drive), Rock Springs in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the

performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

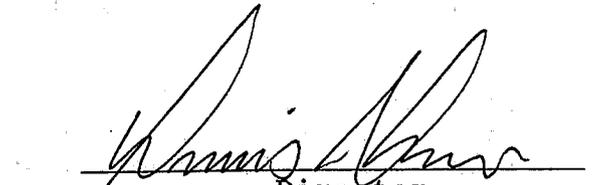
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-3-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.
dg/jyi

Conditions for Monitoring Wells

- 1 of 10 The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 92-040R. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 10 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
- 3 of 10 After the monitoring wells 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. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
- 4 of 10 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
- 5 of 10 The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
- 6 of 10 In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

- b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level; Factory slotted casing is recommended for the perforated interval;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1 - 2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
- 7 of 10 DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
- 8 of 10 Within 90 days of issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;

- d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
- 9 of 10 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
- 10 Of 10 All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed in the permit to construct application #92-040R.

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-041R

Farwell Farms SWTF
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Farwell Farms

140 Lane 15

Powell, WY 82435

to install a septic tank and leachfield system according to the procedures and conditions of the application No. 92-041R. The facility is located in Sec 30, T55N, R77W in the County of Big Horn in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee

understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

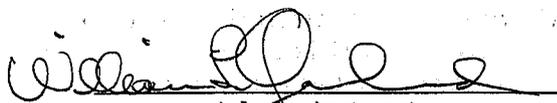
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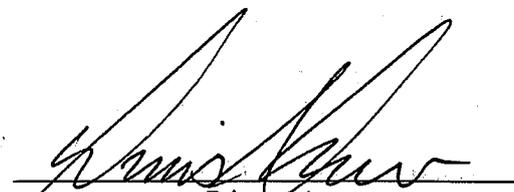
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

3-23-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.
SG



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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January 11, 1995

Mr. Steve Strollo
Project Manager, Remediation Technology
Conoco Inc.
6855 South Havana St., Suite 200
Englewood, CO 80112

**RE: Review of Casper Station Pump & Treat and SVE Remediation System
WQD Permit No. 92-042
Conoco Pipeline Company, Evansville, WY**

Dear Mr. Strollo:

I am writing this letter in response your letter dated May 3, 1994. The Wyoming Department of Environmental Quality, Water Quality Division(WDEQ/WQD) has reviewed your letter and the operation of the existing remediation system at the referenced facility. Comments, requirements, and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program Review. Any proposed modifications and/or additions to the groundwater pump and treat and SVE remediation system will be evaluated following the submittal of appropriate plans and specifications.

Please contact me directly should you have any questions.

Sincerely,

Phillip Stump
Phillip Stump
Senior Environmental Analyst
Water Quality Division

PS/nc 50164.LTR

Enclosures: GPC Program Review Form
WDEQ/WQD Minimum Content Requirements for a Subsurface
Investigation (SSI) Report of Investigation (ROI)

xc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne (wo/encl)
Carl Anderson, Supervisor, SHWD/Cheyenne (wo/encl)
Bob Lucht, UIC Program, WQD/Cheyenne (wo/encl)

ps: oil-comp\conoco\cas-sta.rv1

GROUNDWATER SECTION REVIEW OF PROPOSALS/PLANS

**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION**

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
(307) 777-7781

PROJECT: Casper Station Pump and Treat and SVE Remediation System
Conoco Pipeline Company, Evansville, WY

APPLICANT: Steve Strollo
Project Manager, Remediation Technology
Conoco Inc.
6855 South Havana St., Suite 200
Englewood, CO 80112
(303)649-4093

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 92-042

TITLE: Letter: Conoco's Casper Station Pump and Treat Remediation System

PROPOSAL **PLANS** **REPORTS**

DATE ON PROPOSAL/PLANS/LETTERS: May 3, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WDEQ/WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWER: Phillip Stump, Senior Environmental Analyst

DATE OF LAST REVIEW: N/A

DATE OF THIS REVIEW: January 12, 1995

ACTION: N/A

1 SUMMARY OF EXISTING CONTAMINATION:

1.1 The site investigation results in the WDEQ/WQD files include soil sampling performed during drilling operations in the upper geologic unit (10/01/91). Hydrocarbon contaminated soils (benzene levels = 0.125 - 1.75 mg/kg, TPH = 1800 - 4240 mg/kg) were detected in this shallow zone. The borings in this contaminated area were completed as shallow SVE wells (SB-E, SB-W, SB-4, SB-10, SB-11, SB-12, SB-14). The SVE wells are screened in this upper unit which extends from ground level to approximately 15 ft. The unit contains fine grained unconsolidated soil composed of interbedded layers of clayey silt and silty clay with thin lenses of fine grained sand and gravel.

1.2 A dissolved benzene plume has been identified by the on-site quarterly monitoring events. The highest benzene concentration have been measured at RW-9 and MW-5 (1600 ppb - 12/18/92, and 1500 ppb - 09/10/93), respectively.

2 CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

2.1 The cone of influence from extraction well RW-9 appears to have prevented the off-site migration of dissolved groundwater contamination. Since the pump and treat system has not been in operation since the summer of 1993, the migration of contaminated groundwater has not been controlled.

2.2 The results of soil sampling taken during the installation of the (11) existing wells is not in the WDEQ/WQD files. Hydrocarbon soil contamination probably exists below the shallow contaminated area. The capillary zone at the water table in this area may contain residually absorbed contamination which is a significant source of dissolved groundwater contamination. The water table elevations need to be studied to determine the seasonal fluctuations, and any fluctuations caused by the pump and treat and re-injection system. If the water table rises above the zone of residually absorbed soil contamination, the effectiveness of the SVE system is decreased.

2.3 SVE System

The SVE system consists of the shallow wells identified in *Section 1.1* and the groundwater wells (MW-5, RW-9, MW-11). The report (Petroleum Remediation Plan, December 1991) indicated the shallow SVE wells have a radius of influence (ROI) of about 20 ft. and the deeper screened groundwater wells have a ROI of about 100 ft. The ROI tests were conducted at the operating conditions of 30 in. applied vacuum (23 in. standard applied vacuum) and 233 SCFM. The empirical data supporting the ROI estimations was not available in the WDEQ/WQD file.

The SVE equipment (i.e., blower, knockout pot, etc.) was sized to operate on one to three SVE wells at any one time. The SVE wells were to be alternately utilized as active SVE wells and passive air inlet wells. The Conoco letter (May 3, 1994) indicated that the SVE system has been connected to MW-11 exclusively, and discharges to the atmosphere.

2.3.1 To effectively treat both the shallow and deeper contaminated soils the operation and physical structure of the existing system may need to be modified and/or expanded. Additional deeper SVE wells may be required to effectively treat the deeper contaminated soils. The data collected during tests on the existing system (*Section 3.3*) will help evaluate the need for modifications.

2.4 Pump and Treat with Re-injection

The pump and treat system began operation in the summer of 1992. RW-9 is being employed as the extraction well at a flow rate of about 10 gpm. The system was initially operated with MW-10 as a re-injection well. An infiltration gallery was installed at a later date. Both the well and the gallery have become inoperable due to fouling. The air stripping unit has also been plagued with fouling problems.

The groundwater treatability analysis (Exhibit 1, Petroleum Remediation Plan, December 1991) indicates that the ambient groundwater quality has a very high carbonate hardness. During the existing treatment process the metals are precipitating (i.e., magnesium and calcium as carbonates). Iron and manganese will also precipitate and cause fouling problems if these metals are present in significant amounts. Biological growth can also cause fouling. An acid injection system that continuously injects citric and sulfuric acids was installed prior to the air stripper unit.

2.4.1 A pre-treatment process of precipitation softening or flocculation and filtration may be needed to remove the carbonate hardness prior to the air stripping unit. WDEQ/WQD recommends consulting with other operators of pump and treat systems in the area to help identify potential treatment alternatives. Additional water chemistry analysis (i.e. ambient metals present, alkalinity, Total hardness, pH, etc.) of the influent and process stream sampling are required to determine the appropriate modifications to the treatment process.

3 REQUIREMENTS/RECOMMENDATIONS:

3.1 WDEQ recommends that Conoco shall evaluate the effectiveness of the present remediation system prior to proposing pilot-scale tests of new technologies (i.e., air sparging, etc.). Modifications and/or expansions to the SVE system and the pump and treat system should be proposed after evaluating the effectiveness of the existing systems. Potential operational changes to the SVE and the pump and treat systems are as follows:

3.1.1 enlarge the SVE system to apply a vacuum to more than one active SVE well;

3.1.2 utilize SVE wells as soil venting wells to actively inject air into the ground and enhance biodegradation and volatilization of the hydrocarbon contamination;

3.1.3 operate the SVE system in sequence with pump and treat to lower the water table and expose the highly contaminated soils in the capillary zone; and/or

- 3.1.4 re-inject water with dissolved hydrogen peroxide to supply oxygen and increase the biodegradation of hydrocarbon contamination.
 - 3.2 The SVE system contaminant emission rates have been submitted between 8/17/92 and 12/07/93 for MW-11. Please submit the documentation of any other past operations (i.e., contaminant emission rate of any SVE wells other than MW-11 which were utilized as active wells, etc.).
 - 3.3 The operation of the SVE system should be evaluated to identify potential operational changes and physical modification or additions. To evaluate the effectiveness of the SVE system, Conoco should submit plans to perform the following tests and conduct monitoring and sampling as described below:
 - 3.3.1 tests to evaluate the ROI of the upper and lower geologic units;
 - 3.3.2 tests measuring the flow rate and extracted hydrocarbon concentrations at individual wells;
 - 3.3.3 respiration test on highly contaminated soil areas (i.e., if the potential for bioremediation is to be measured); and
 - 3.3.4 monitoring and sampling should include the following:
 - 3.3.4.1 Piezometer or Monitoring Wells at the site that measure:
 - 3.3.4.1.1 static water levels measured before start-up and during each test to measure mounding effects; and
 - 3.3.4.1.2 dissolved groundwater concentrations as required by the UIC Permit No. 91-213. Also, please measure the water temperature of groundwater samples.
 - 3.3.4.2 Soil vapor points (i.e., passive SVE wells, monitoring wells, etc.) located concentrically away from each active SVE well at increasing horizontal distances in the vadose zone that measure:
 - 3.3.4.2.1 soil vapor pressure/vacuum during ROI tests; and
 - 3.3.4.2.2 O₂ and CO₂ levels in soil vapor during respiration tests, if bioremediation is to be estimated.
- Note:** Background levels need to be established before system start-up and prior to each test.
- 3.3.4.3 Periodically, the SVE system should be monitored for:

- 3.3.4.3.1 VOC concentration in extracted vapors of the total system;
- 3.3.4.3.2 total flow rate of the system;
- 3.3.4.3.3 VOC concentrations and flow rate at individual wellheads during tests;
- 3.3.4.3.4 applied vacuum of total system; and
- 3.3.4.3.5 temperature of extracted air.

Note: If the system operates with more than one SVE well, the vacuum/pressure at each SVE wellhead should be monitored periodically to detect any short-circuiting or inadequate vacuums and to determine how the system can be fine-tuned.

3.4 Within 90 days, Conoco shall submit the following plans and schedules to WDEQ/WQD:

- 3.4.1 a plan and schedule to eliminate any source(s) of contamination that continues to exist on-site (i.e., any existing pipeline leaks or valve leaks, etc.) or verification that existing source(s) do not exist on-site;
- 3.4.2 a plan and schedule to determine the vertical and horizontal nature and extent of hydrocarbon contamination in the soil at deeper depths between the upper geologic unit and the water table or submit analytical data from previous soil sampling in this zone;

Note: A report of investigation summarizing any subsurface investigations shall be submitted to WDEQ/WQD. The report shall include the information specified in the enclosed *WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation*;

- 3.4.3 a plan to perform tests (*Section 2.4.1*) on the operation of the groundwater pump and treat system(s) and a schedule to restart operations to prevent continuing migration of dissolved hydrocarbon constituents; and
- 3.4.4 a plan and schedule to perform tests on the SVE system that includes the items described in *Section 3.3*.

PERMIT TO CONSTRUCT

PERMIT NO. 92-042
See Special Conditions

- New
- Renewal
- Modified

CONOCO PIPE LINE COMPANY CASPER STATION REMEDIATION PLAN

This permit hereby authorizes the applicant:

Conoco Pipe Line Company
6855 South Havana Street, Suite 600
Englewood, CO 80112

to construct, install or modify a soil and groundwater remediation system facility according to the procedures and conditions of the application number 92-042. The facility is located in SW 1/4 Section 06, T33N R78W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

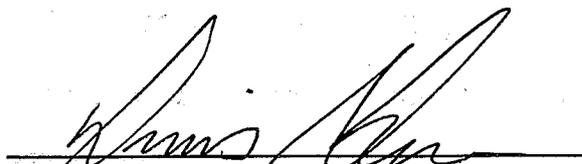
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3-16-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

CONDITIONS TO PERMIT #92-042

- 1 of 2. Wyoming laws and regulations require that remediation efforts continue until hydrocarbon levels in the groundwater are reduced to concentrations below the Federal drinking water limits (MCL's).
- 2 of 2. **REPORTING REQUIREMENTS:** The reporting requirements created as part of the UIC Permit, Wyoming Permit #91-213, adequately provide the information necessary to determine compliance with the requirements of this permit. However, if the information could also be submitted on a 3 1/2 inch diskette in a Lotus 1-2-3 format it would facilitate future capture of this data for inclusion in a Geographical Information System. Other data formats are acceptable but conversations with Conoco personnel indicated that Lotus 1-2-3 was most convenient.

LBH/nc 20714.LTR
cc: Bob Lucht



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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September 14, 1995

Ms. Laura Zotsky
Project Manager, Remediation Technology
Conoco Inc.
6855 South Havana St., Suite 200
Englewood, CO 80112

Re: Review of Remediation System Evaluation Workplan and Quarterly Monitoring, Spring 1995
WQD Permit No. 92-042 Conoco Casper Pump Station, Evansville, WY

Dear Ms. Zotsky:

I am writing this letter in response your Work Plan dated May 22, 1994. The Wyoming Department of Environmental Quality, Water Quality Division (WDEQ/WQD) has reviewed your workplan and quarterly monitoring report. Comments, requirements, and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program Review.

Please contact me directly should you have any questions.

Sincerely,

Phillip Stump
Phillip Stump, P.E.
Senior Environmental Analyst
Water Quality Division

PBS/bb/54006.ltr

enclosures: GPC Program Review Form

cc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
Carl Anderson, Supervisor, SHWD/Cheyenne

GROUNDWATER SECTION REVIEW OF PROPOSALS/PLANS

**WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION**

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
(307) 777-7781

PROJECT: Remediation System Evaluation
Conoco Casper Pump Station, Evansville, WY

APPLICANT: Laurie Zotsky
Project Manager
Conoco Inc.
P.O. Box 2197
Houston, TX 77252-2197
(713)293-4802

CONSULTANT: Bonnie Percy
Huntingdon Engineering & Environmental, Inc.
605 N. Warehouse Rd.
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 92-042

TITLE: Remediation System Evaluation Work Plan
Quarterly Monitoring, Spring 1995

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/LETTERS: May 22, 1995
July 12, 1995

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WDEQ/WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWER: Phillip Stump, Senior Environmental Analyst

DATE OF LAST REVIEW: January 11, 1995

DATE OF THIS REVIEW: September 14, 1995

ACTION: Authorize Workplan with Contingencies

I. SUMMARY OF EXISTING CONTAMINATION:

- A. Upon review of the VOC sampling data from May '88, concentrations measured in the monitoring wells that are on the outlying plume area (MW-1, MW-6) have significantly decreased as reflected in the most recent sampling event on May 5, 1995. The wells lying in center of the plume area (MW-5 and MW-11) have had measurable levels of free product in the past that have decreased to small traces of product. The operation of the SVE System should help to reduce the small traces of free product. The dissolved benzene concentrations have not significantly declined in this area.

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

- A. Since dissolved oxygen levels drop significantly below background levels and highly reducing conditions exist in the contaminant plume area, the biodegradation of the hydrocarbons appears to be mass-limited by the amount of dissolved oxygen that is supplied by the movement of groundwater into the area; although, anaerobic biodegradation may be occurring in the plume area.

1. If the evidence of anaerobic biodegradation is not verified, Conoco may need to propose a remedial alternative that actively supplies oxygen as an electron acceptor.

- B. An adequate site characterization was never completed or the site investigation files have not been found. The May 9, 1995 letter (Huntingdon) proposes the construction of two cross-sections to help identify the vertical extent of contamination. Any known results of soil sampling data should be noted at its respective sampling location on the cross-section. Please identify any inadequacies in defining the vertical and horizontal extent of soil and groundwater contamination.

1. Within the summary report to be submitted within 8 weeks (Huntingdon May 9, 1995 letter), Conoco shall propose additional site characterization work to delineate unknown areas (i.e., smear zone in the lower lithologic unit penetrated by MW-11, etc.).

- C. The plans of remediation can not be completely evaluated until the existing contamination has been fully characterized. WDEQ/WQD will not consider a completely passive 'natural attenuation' approach if one of the following conditions exist: 1) free product above trace levels is present on the water table; and 2) dissolved groundwater contamination that exceeds State groundwater standards has and is migrating off-site.

III. REQUIREMENTS/RECOMMENDATIONS:

- A. The May 9, 1995 Proposal Letter (Huntingdon) addresses the establishment of clean-up criteria. Clean-up objectives can be estimated from the Water Quality Rules and Regulations, Chapter XVII. Fate and transport calculations can be utilized to estimate acceptable soil contamination concentrations. WDEQ/WQD cautions that enough site specific data (i.e., f_{oc} , bulk soil density, and volumetric soil moisture content) needs to be collected to obtain acceptable results. The anaerobic half-life values of specific contaminants (i.e., benzene, etc.) would not be applicable in all situations; such as, when free product is present, etc..

- B. At the present time, the WDEQ/WQD is preparing a guidance document on what minimum data gathering requirements (i.e., groundwater sampling parameters, site-specific parameters) are needed at sites where "natural attenuation" is proposed. WDEQ/WQD recommends consulting the reference document from the Air Force Center for Environmental Excellence, Brooks Air Force Base, "**Technical Protocol for Implementing the Intrinsic Remediation with Long-term Monitoring Option for Natural Attenuation of Dissolved-Phase Fuel Contamination in Ground Water**" as a preliminary step for determining the data requirements.
1. Upon completion of WDEQ/WQD's guidance document(s) (i.e., natural attenuation, bioremediation, etc.), WDEQ/WQD will inform Conoco about any additional data gathering requirements.
- C. The proposed sampling plan provides for the sampling of electron acceptors (DO, nitrate, and sulfate) and the metabolic byproducts (iron II, sulfide, and methane) of biodegradation. Since electron acceptors are consumed and the byproducts are produced during the biodegradation of petroleum hydrocarbons, the contour mapping of these parameters will aid in determining the amount of biodegradation that is occurring.
- D. The analysis of the sampling results will need to estimate the rate at which the intrinsic remediation is occurring to determine whether off-site migrations are controlled. Compliance wells located at the property boundary would verify control. To perform estimates it may be beneficial to be able to model the future biodegradation and other natural attenuation processes occurring in the groundwater. Biodegradation and other natural attenuation processes can be modelled by several different programs. **Bioplume II** is an example of a software program employed for this purpose.
- E. The processes other than biodegradation that are responsible for the observed "natural attenuation" are dilution, sorption (retardation), and hydrodynamic dispersion. To aid in the modeling these processes, site specific data; such as the permeability (i.e., groundwater flow rates) and total organic content of the soil (TOC) are needed. Also, contaminants specific parameters; such as, organic carbon partitioning coefficients (K_{oc}) and fuel/water partitioning coefficients (i.e., modelling NAPL source), need to be obtained from literature.
- F. Soil-vapor Extraction (SVE) System
The proposed plan in the May 9, 1995 letter (Huntingdon) will help to evaluate the effectiveness of the current SVE System. After evaluating the radius of influence (ROI) and the contaminant extraction data from the tests, Conoco shall propose operational, physical and monitoring changes to the system.
1. Based upon the ROI measured at MW-11 which is the only monitoring well that penetrates the deep lithologic unit, new monitoring/SVE well(s) will need to be installed in the deeper zone.

WDEQ/WQD highly recommends installing SVE wells with conservative overlapping the ROIs to speed up the rate of remediation and enhance the remediation of the contaminated soils and groundwater.

September 14, 1995
Casper Station, Evansville, WY

Page 4

2. To enhance and speed up the remedial process, WDEQ/WQD also recommends the operation of multiple SVE wells through a manifolded system instead of moving the point of extraction between individual wells.
3. Any modifications to the SVE will require approval from the WDEQ/Air Quality Division to evaluate the change in air emissions associated with the SVE system. The DEQ/AQD can be contacted in Cheyenne at (307) 777-7391.
4. As required in the WDEQ/WQD's January 12, 1995 review; following the ROI tests and during normal operations, the SVE system shall be periodically monitored for the following:
 - a. VOC concentration in extracted vapors of the total system;
 - b. total flow rate of the system;
 - c. flow rate and applied vacuum at individual wellheads to detect any short-circuiting or inadequate vacuums and determine how the system can be fine-tuned;
 - d. applied vacuum of total system; and
 - e. temperature of extracted air.

PBS/bb/54006.ltr

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 92-043

DAYTON WATER STORAGE FACILITY
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Dayton
P.O. Box 176
Dayton, Wyoming 82836

to construct, install or modify a water storage facility according to the procedures and conditions of the application No. 92-043. The facility is located in Section 32, Township 57 North, Range 86 West, in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising

from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

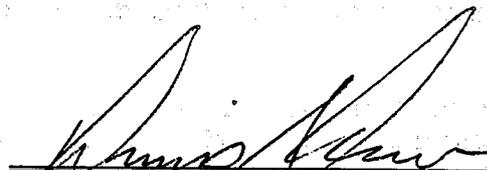
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-13-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SCF:pr

SPECIAL CONDITIONS

1. An Operation and Maintenance (O & M) Manual must be submitted to the Water Quality Division for approval prior to start-up. The O & M manual shall contain all items listed in Section 16, Chapter XII of the Water Quality Division Rules and Regulations.

PERMIT TO CONSTRUCT

New

Permit No. 92-044

Renewal

Modified

Riverton 1992 Sewer Reconstruction
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

City of Riverton

P.O. Box 1700

Riverton, WY 82501

to replace an 8 inch sewer main between East Adams and East Washington from North Federal to South 12th St. according to the procedures and conditions of the application No. 92-044. The facility is located in Sec 35, T1N, R4E in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

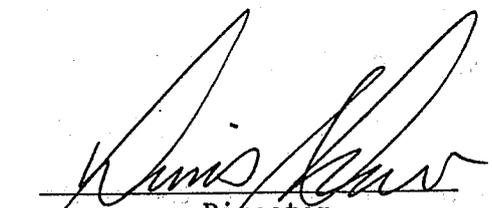
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

3-9-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.
SG

PERMIT TO CONSTRUCT

New

Permit No. 92-046

Renewal

Modified

Shoshoni Water Distribution System Reconstruction
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Town of Shoshoni

P.O. Box 267

Shoshoni, WY 82649

to replace the water distribution system throughout the town according to the procedures and conditions of the application No. 92-046. The facility is located in Sec 27,28 T38N R94W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee

understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

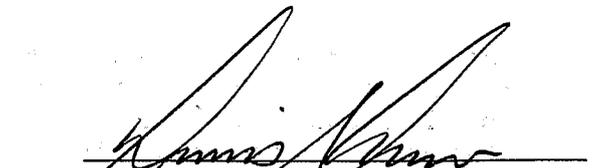
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

3-11-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SG

RF

PERMIT TO CONSTRUCT

PERMIT NO. 92-047
See Special Conditions

- New
- Renewal
- Modified

MGF OIL CORPORATION CASPER MONITOR WELLS

This permit hereby authorizes the applicant:

MGF Oil Corporation
6733 South Yale
P. O. Box 21540
Tulsa, Oklahoma 74121

to construct, install or modify a system of monitor wells according to the procedures and conditions of the application number 92-047. The facility is located in Section 3 SE 1/4 NE 1/4, Township 33 North, Range 80 West in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

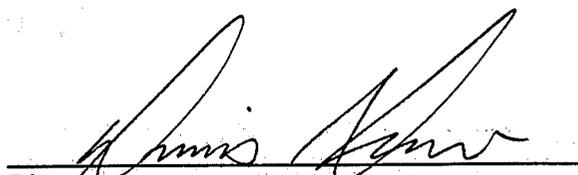
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3-5-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 92-047

- 1 of 11. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 92-047. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 11. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 3 of 11. After the monitoring wells 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. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD.

Special Conditions for Permit to Construct 92-047 (continued)

- 4 of 11. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 5 of 11. 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 wells shall be installed to define the extent of the contamination.
- 6 of 11. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
- a. The borehole diameter shall be at least 4 inches larger in diameter than the casing diameter;
 - b. The screened interval shall extend at least 2 feet above the highest expected groundwater level and at least five feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;
 - c. If PVC casing is used, the casing shall be installed using mechanical connectors without the use of solvents or glues to hold the casing sections together. This mechanical connection may use set screws, threads, or other types of couplings;
 - d. To minimize the entrance of fine grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - f. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - g. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. Protective casing shall be cemented into a sloping concrete cap; and
 - h. All monitor wells shall be designed to contain a minimum of 3 feet of water at all times of the year.

Special Conditions for Permit to Construct 92-047 (continued)

- 7 of 11. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 8 of 11. Within 90 days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:
- a. a chronology of events leading up to the investigation;
 - b. A site map showing the physical features, well locations and sea level elevations;
 - c. The permittee shall provide the exact latitude and longitude for each of the monitor wells being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude.
 - d. Final location, construction details and logs of monitor wells;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction of groundwater movement; and
 - k. Interpretation of the data and conclusions including recommended remedial measures.
- 9 of 11. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
- 10 of 11. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters:
- a. Benzene using EPA Method 624.
 - b. Ethylbenzene using EPA Method 624.

Special Conditions for Permit to Construct 92-047 (continued)

- c. Toluene using EPA Method 624.
- d. Total Xylenes using EPA Method 624.
- e. n-Butylbenzene using EPA Method 624.
- f. 1,2,4-Trimethylbenzene using EPA Method 624.
- g. 1,3,4-Trimehtylbenzene using EPA Method 624.
- h. Propylbenzene using EPA Method 624.
- i. Naphthalene using EPA Method 624.
- j. Phenol using EPA Method 625.
- k. 2-Methylphenol using EPA Method 625.
- l. 4-Methylphenol using EPA Method 625.
- m. Phenanthrene using EPA Method 625.
- n. Bix(2-Ethylhexyl)phthalate using EPA Method 625.
- o. 2-Methylnaphthalene using EPA Method 625.
- p. 1-Methylnaphthalene using EPA Method 625.
- q. Lead using EPA 200 series methods.
- r. After the first monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the first monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring.
- s. The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each quarter. The first set of results are due by the last day of April, 1992.

11 of 11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

RL/jn
20662.LTR

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 92-048

LITTLE GOOSE/BIG HORN/CITY WATER DISTRIBUTION SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Sheridan Area Water Supply Joint Powers Board
224 South Main Street, Suite B-1W
Sheridan, Wyoming 82801

to construct, install or modify water distribution facilities according to the procedures and conditions of the application No. 92-048. The facility is located in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

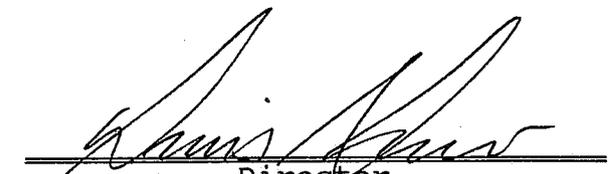
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

8-14-92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

SCF/pr:08/10/92

SPECIAL CONDITIONS

- 1 of 2. A variance is hereby granted from the requirements of Chapter XII, Section 14(c) for minimum valve spacing in residential areas. Because the system is located in a rural location, the number of users per length of waterline is very low. This division agrees that placing valves every 800' as required by Water Quality Division Rules and Regulations (WQDRR) in this type of location would significantly increase the cost of the project while the benefit from such action would be low. However, if the number of users on the system increases to a level which warrants additional valving, this division reserves the authority to require the system to be modified.
- 2 of 2. A variance is hereby granted from the requirements of Chapter XII, Section 14(h)(ii)B for installation of a manhole on the supply side of a stream crossing. This division agrees that a manhole in this application will not increase the probability of gaining access to the valve during a flood event. Your request to install a valve box in lieu of a manhole at the supply side of the line is approved.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-049
See Special Conditions

COTTONWOOD CANTEEN

This permit hereby authorizes the applicant:

Michael Johnston
619 Bourdeaux Road
Wheatland, Wyoming 82201

to construct, install or modify a commercial septic system facility according to the procedures and conditions of the application number 92-049. The facility is located in the NW ¼ NW ¼ of Section 23, Township 25 North, Range 66 West in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

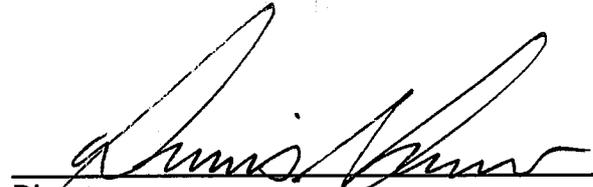
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3/26/92

Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

Special Conditions

- 1 of 5 DEQ/WQD accepts the design load of 530 gallons/day based on estimates of 50 vehicles/day plus 1 employee. However, because this is a new facility in a new location with no previous customer history the owner is required to monitor the customer traffic at this establishment to determine if the 530 gallon/day loading rate is realistic and adequate. At such time that the 530 gallon/day rate is determined to be insufficient the owner will have expansion plans prepared and submit a new application to DEQ/WQD for review.
- 2 of 5 All locations which are part of the leach field piping system which indicate a 4 way cross connector will be replaced with offset double T connectors to ensure more even distribution of effluent through the leach field.
- 3 of 5 The three(3) 55 foot long main leach lines will be interconnected by leach lines at both the north and south ends of the leach field.
- 4 of 5 The manhole on the septic tank must be extended to the surface because there is no clean-out on Vaughn Concrete Products septic tanks as required.
- 5 of 5 Because of the close proximity of driveways and parking areas physical barriers shall be placed on the north, east, and south sides of the leach field to prevent vehicle traffic over the leach field.

RF



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756 FAX (307) 634-0799	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781 FAX (307) 777-5973
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March 23, 1992

Michael Johnston
619 Bourdeaux Road
Wheatland, Wyoming 82201

RE: Potential installation of new Underground Storage Tanks (UST's) to store fuel at proposed new business in Platte County called Cottonwood Canteen.

Dear Mr. Johnston:

Recently the Wyoming Department of Environmental Quality/Water Quality Division (DEQ/WQD) received an application from you for a permit to construct a septic system at the facility mentioned above. In the engineering design report this facility is described as a filling station, bait shop, and convenience store. This letter is intended to serve as a reminder that if you should proceed with the filling station portion of this project any UST's will have to be installed to meet all current federal and state UST regulations. These regulations include technical system standards as well as registration, reporting, and financial assurance requirements.

Before you start installation of any UST's you should contact this office at 777-6183 to notify DEQ/WQD of your intentions to install new tanks. Please make this initial contact at least 30 days (even earlier if possible) prior to beginning construction so that arrangements and schedules can be made for DEQ/WQD personnel to be on site to perform required installation inspections.

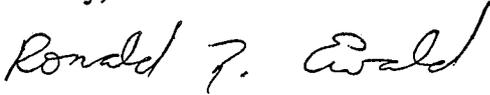
Whether you choose to use underground tanks or above ground tanks you should also contact the State Fire Marshall's office at 777-7960 to be sure that you meet any of their fuel storage tank requirements that would apply to your facility.

I am including a copy of the EPA publication "Musts for USTs" and the most recent State UST Newsletter to assist you in reviewing these requirements. Also included is a blank UST Notification form which will need to be completed and returned to DEQ/WQD when the UST installation is completed.

Michael Johnston
March 23, 1992
Page 2

If you should need further assistance complying with these regulations please call the phone numbers listed in the UST Newsletter for specific questions or call me at 777-6183. Good luck with your new establishment.

Sincerely,



Ronald L. Ewald
Engineering Evaluator
SE District - Water Quality Division

RLE/jn
20867.LTR

Enclosures: "Musts for USTs"
UST Newsletter (November 15, 1991)
Blank UST Notification form

cc: LeRoy Feusner, UST Section

PERMIT TO CONSTRUCT

[X] New

Permit No. 92-050R

[] Renewal

[] Modified

Arps Subdivision Water Distribution System
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Dan Arps

1501 Crestway

Worland, WY 82401

to construct a water distribution system according to the procedures and conditions of the application No. 92-050R. The facility is located in SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 20, T47N, R92W in the County of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

4-2-92
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

JH/jyi