

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-351

Sewage Disposal at 3920 East Pershing  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Coulter</u> (Last)	<u>Joseph</u> (First)	<u>E.</u> (Middle)
<u>3411 East Pershing</u> (Street or P.O. Box)		
<u>Cheyenne</u> (City)	<u>Laramie</u> (County)	<u>Wyoming 82001</u> (State)

to construct, install, or modify a Sewage Disposal System  
facility located in Section 27, T14N, R66W  
(Legal Description)

in the County of Laramie, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Galand  
Director  
Wyoming Dept. of Environmental Quality

November 22, 1976  
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Madsen's Mobile Home Village, Lovell, Wyoming

ARCHITECT OR ENGINEER: Don Livingston, Engineering Associates, P.O. Box 1539,  
Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-352

REVIEWING ENGINEER: Jake Strohmman, William L. Garland, P.E.

DATE OF REVIEW: November 16, 1976

ACTION: CONSTRUCTION NOT AUHORIZED. *WJ*

COMMENTS: The following is required:

1. Letter of acceptance from Town of Lovell for water and sewer services.
2. What is the top and invert elevation of the sewer manholes?
3. Minimum diameter of manholes is 42".
4. What is the water main pressure furnished to the mobile home park by the Town? Commercial class 200 psi only meets AWWA C900 pressure rating of 125 psi.
5. Infiltration requirements should be stated. Alignment and grade checks?
6. Sewer and water risers shall terminate 4 inches above ground, standing water or runoff water whichever is higher. Same requirements for cleanouts.
7. Disinfection of water lines to be accomplished per AWWA C601.
8. Specifications for pressure tests?
9. Note 1 should indicate separation with water line over sewer line.
10. Show a typical lot with location of sewer and water risers.

REVIEW OF PLANS AND SPECIFICATIONS

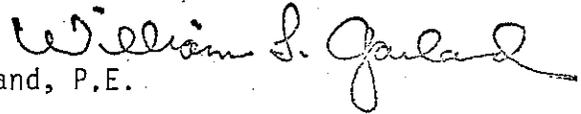
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Madsen's Mobile Home Village, Lovell, Wyoming

ARCHITECT OR ENGINEER: Don Livingston, P.E., Engineering Associates, P.O. Box  
1539, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-352R

REVIEWING ENGINEER: Jake Strohmman, William L. Garland, P.E.



DATE OF REVIEW: February 3, 1977

Supervisor - Water Quality Div.

ACTION: CONSTRUCTION IS NOT AUTHORIZED. SEE COMMENTS.

- COMMENTS:
1. The Town cannot put a fire hydrant on a 2 inch line between lots 16 and 17. A minimum of 6 inch main is required for fire flows.
  2. State alignment and grade requirements. Knowing the invert elevation of the manhole on second street, you can indicate the invert elevations on the other two manholes. How can you determine whether there is adequate cover for freeze protection?
  3. State backfill and bedding which are sufficient to protect pipe materials and assure proper alignment and grade. The trenches should not settle and cause voids as law suits have resulted from injuries due to falls resulting from improperly compacted trenches.

(An addendum letter will be sufficient)

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-352R

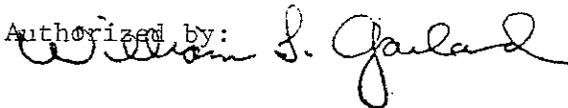
Madsen's Mobile Home Village  
(Name of Facility)

This permit hereby authorizes the applicant:

Engineering Associates  
(Last) (First) (Middle)  
P.O. Box 1539  
(Street or P.O. Box)  
Cody Wyoming 82414  
(City) (County) (State)

to construct, install, or modify a Sewer and Water  
facility located in the Town of Lovell  
(Legal Description)  
in the County of Big Horn, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.

Director  
Wyoming Dept. of Environmental Quality

March 29, 1977

Date of Issuance



*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 29, 1977

Town of Lovell  
336 Nevada Avenue  
Lovell, Wyoming 82431

ATTENTION: Robert W. Snedeker

Dear Bob:

This office has approved the sewer and water extension to Madsen's Mobile Home Park in your Town.

The commission has suggested that a fire hydrant be installed between lot 16 and 17. This poses a problem as no six inch main exists in the immediate area. The regulations adopted by this office state that the minimum size main for fire flow shall be six inch diameter.

The six inch main from Second and Shoshone should be extended to the fire hydrant if a pumper unit is utilized for fire protection. The fire hydrant should have connections such that a pumper unit cannot be connected if a 4 inch line is used.

Our primary concern is cavitation caused by a pumper on a four inch line. The cracks or breaks which could be caused by this operation will pose health hazards.

Also, rumor has reached us stating that the water study for Lovell has been completed and adopted? Have you got an extra copy for our review and library file?

Yours truly,

A handwritten signature in cursive script that reads "Jake Strohmman".

Jake Strohmman  
Environmental Engineer  
Water Quality Division

JS/jo

cc: Engineering Associates, P.O. Box 1539, Cody, Wyoming 82414

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-353

Missile Control Cable Erosion Repair  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Simmons</u> (Last)	<u>Richard</u> (First)	<u>K.</u> (Middle)
<u>Francis E. Warren Air Force Base</u> (Street or P.O. Box)		
<u>Cheyenne</u> (City)	<u>Wyoming</u> (County)	<u>82001</u> (State)

to construct, install, or modify a Missile Control Cable Erosion Repair  
facility located in Platte County, Wyoming  
(Legal Description)

in the County of Platte, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

Frank R. Harman  
for Director  
Wyoming Dept. of Environmental Quality

November 22, 1976  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-354

Merrifield Commercial Waste Treatment Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Merrifield</u> (Last)	<u>George</u> (First)	<u>C.</u> (Middle)
<u>P.O. Box 1138</u> (Street or P.O. Box)		
<u>Glenrock</u> (City)	<u>Converse</u> (County)	<u>Wyoming 82637</u> (State)

to construct, install, or modify a Waste Treatment Facility

facility located in NE $\frac{1}{4}$ , NE $\frac{1}{4}$ , Section 14, T33N, R75W  
(Legal Description)

in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

ENSURE SEPARATIONS ON PLAN SHEET ARE ADHERED TO.

Authorized by:

William P. Ireland  
Director  
Wyoming Dept. of Environmental Quality

November 19, 1976  
Date of Issuance

cc: John A. Lambert, P.O. Box 34, Douglas, Wyoming 82633

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-355

Lockwoods Carpet Company  
(Name of Facility)

This permit hereby authorizes the applicant:

Lockwoods Carpet Company  
(Last) (First) (Middle)  
1027 Durango  
(Street or P.O. Box)  
Douglas Converse Wyoming 82633  
(City) (County) (State)

to construct, install, or modify a Waste Treatment Facility  
facility located in NW<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, Section 17, T32N, R71W  
(Legal Description)

in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

ENSURE SEPARTIONS ON PLAN SHEET ARE ADHERED TO.

Authorized by:

William J. Garland  
Director  
Wyoming Dept. of Environmental Quality

November 19, 1976

Date of Issuance

cc: John Lambert, P.O. Box 34, Douglas, Wyoming 82633

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-356

City of Sheridan Sewage Treatment Plant  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan  
(Last) (First) (Middle)  
City Hall  
(Street or P.O. Box)  
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a Sewage Treatment Plant  
facility located in Section 15, T56N, R84W  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Goulet  
Director  
Wyoming Dept. of Environmental Quality

November 22, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

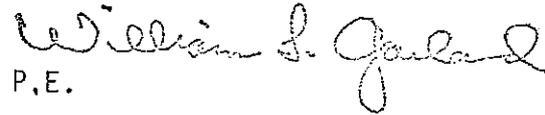
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Westridge Subdivision, 2nd Extension - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-357

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 22, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Manufacturer's data shall be provided for the well pumps, pitless adapter and sanitary well seal. Discharge with respect to anticipated head shall be provided for the well pump and booster pumps.
  2. More detail shall be provided for the water storage tank and pumphouse. All items that are covered under this permit application must be completely detailed, "Design By Others" is not acceptable.
  3. Chemical and bacteriological tests shall be performed on the well water and the results submitted to this office.
  4. Since the proposed system connects to an existing system, a letter of authorization shall be provided acknowledging the connection.
  5. Clarify how the proposed system and existing system will interact. Design flows and pressures shall be supplied along with flows and pressures for the existing system.
  6. A map showing contour line shall be provided.
  7. The standard detail sheet shows sewer items but no sewer lines are shown. Please clarify what type of sewage disposal will be utilized in the proposed extension.
  8. Due to the incompleteness of the application, this shall not be considered a final review of plans and specifications.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-357R

Westridge Subdivision, Second Extension - Gillette  
(Name of Facility)

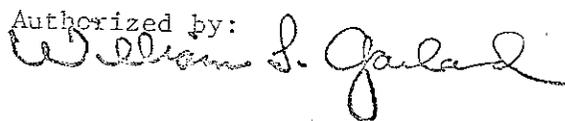
This permit hereby authorizes the applicant:

<u>Wenger</u> (Last)	<u>Bob</u> (First)	<u></u> (Middle)
<u>c/o Plains Engineering</u> <u>P.O. Box 2020</u> (Street or P.O. Box)		
<u>Gillette</u> (City)	<u>Campbell</u> (County)	<u>Wyoming 82716</u> (State)

to construct, install, or modify a Water Supply and Distribution  
facility located in Section 32, T50N, R72W  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

NOTE: COMPLETE WELL DATA SHALL BE SUPPLIED AS SOON AS IT IS AVAILABLE. CERTIFIED OPERATOR MUST BE ON DUTY AT TIME OF OPERATION OF FACILITIES. THIS DOES NOT AUTHORIZE CONSTRUCTION OF ANY SEPTIC TANK SYSTEMS AND ALL SUCH FACILITIES MUST BE SUBMITTED TO OUR OFFICE FOR A PERMIT TO CONSTRUCT.

Authorized by:  


Supervisor - Water Quality Div.  
Director  
Wyoming Dept. of Environmental Quality

February 25, 1977

Date of Issuance

cc: Mr. Bob Wenger, Savageton Route, Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 76-358

Residential Home for Bill White

(Name of Facility)

This permit hereby authorizes the applicant:

<u>White</u>	<u>Bill</u>	
(Last)	(First)	(Middle)
<u>Glendo Marina</u>		
(Street or P.O. Box)		
<u>Glendo</u>	<u>Platte</u>	<u>Wyoming 82213</u>
(City)	(County)	(State)

to construct, install, or modify a Sewer System  
facility located in Platte County, Wyoming  
(Legal Description)

in the County of Platte, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

Frank R. Haman  
for Director  
Wyoming Dept. of Environmental Quality

November 23, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Residential Home for Bill White, Glendo Marina, Glendo State Park, Glendo, Wyoming

ARCHITECT OR ENGINEER: None indicated; submitted by Bill White, owner  
Glendo Marina, Glendo, Wyoming 82213

WATER QUALITY DIVISION REFERENCE NUMBER: 76-358

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: November 23, 1976

ACTION: AUTHORIZED FOR CONSTRUCTION WITH COMMENTS.

COMMENTS: This authorization is given with the provision that:

- (1) A letter is forthcoming from the Wyoming Recreation Commission that the sewage disposal system serving the existing facilities in the Glendo State Recreation Park is capable of handling the additional sewage load from this residence.
- (2) A final determination will be made and submitted as to method of service connection into main sewer line. Present plans submitted indicate tie on to existing manhole. Clarify.

cc: Bob Drobish, Engineer, Wyoming Recreation Commission, 604 East 25th Street, Cheyenne, Wyoming 82001

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-359

Town of Dayton Water Distribution System  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Dayton  
(Last) (First) (Middle)

P.O. Box 176  
(Street or P.O. Box)

Dayton Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a Water Distribution  
facility located in The Town of Dayton  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Garland  
Director  
Wyoming Dept. of Environmental Quality

November 23, 1976  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-360

Town of Clearmont Water System  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Clearmont  
(Last) (First) (Middle)  
P.O. Box 127  
(Street or P.O. Box)  
Clearmont Sheridan Wyoming 82835  
(City) (County) (State)

to construct, install, or modify a Water Supply, Storage and Distribution  
facility located in the Town of Clearmont  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

  
Director  
Wyoming Dept. of Environmental Quality

November 23, 1976  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-361

City of Sheridan Water System  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan  
(Last) (First) (Middle)

P.O. Box 848  
(Street or P.O. Box)

Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a 20" Central Crossfeed Line & 8" Connection Line  
facility located in the City of Sheridan  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Garland  
Director  
Wyoming Dept. of Environmental Quality

November 23, 1976  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-362

City of Sheridan Water Storage System  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan  
(Last) (First) (Middle)

P.O. Box 848  
(Street or P.O. Box)

Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a Water Storage and Connector  
facility located in the City of Sheridan  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William F. Pala  
Director  
Wyoming Dept. of Environmental Quality

November 23, 1976  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-363

City of Sheridan Water System  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan  
(Last) (First) (Middle)

P.O. Box 848  
(Street or P.O. Box)

Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a 20" and 16" Southern Cross Feed Line  
facility located in the City of Sheridan  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Janelo  
Director  
Wyoming Dept. of Environmental Quality

November 23, 1976  
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Frances Countryman River Campground, Sewage Evaporation Lagoon,  
Fremont County, Wyoming

ARCHITECT OR ENGINEER: Jim Gores, Nelson, Haley, Patterson and Quirk, Inc.,  
P.O. Box 1520, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 76-364

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *WLD*

DATE OF REVIEW: December 13, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS: 1) A shutoff valve is needed on the discharge line from the pump station.
- 2) A high water level alarm is needed.
- 3) Please have owner fill out and submit 2 "Application For Permit to Construct, Install...."

Enclosures - 2 "Application for Permit to Construct, Install....."

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 76-364R

River Campground Lagoon

(Name of Facility)

This permit hereby authorizes the applicant:

Countryman                      Frances                      E.  
(Last)                                      (First)                                      (Middle)

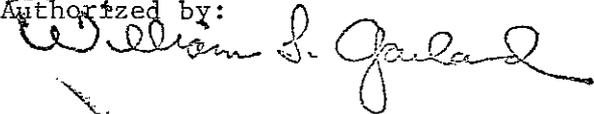
P.O. Box 67, Rawlins Route  
(Street or P.O. Box)

Lander                                      Fremont                                      Wyoming    82520  
(City)                                      (County)                                      (State)

to construct, install, or modify a Wastewater Lagoon  
facility located in Section 27, T30N, R95W  
(Legal Description)

in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.

Director

Wyoming Dept. of Environmental Quality

December 22, 1976

Date of Issuance

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-365

Butler Addition, Sewer Extension, Washington and 21st St.  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Casper Board of Public Utilities</u>		
<u>(Last)</u>	<u>(First)</u>	<u>(Middle)</u>
<u>136 West 8th Street</u>		
<u>(Street or P.O. Box)</u>		
<u>Casper</u>	<u>Natrona</u>	<u>Wyoming 82601</u>
<u>(City)</u>	<u>(County)</u>	<u>(State)</u>

to construct, install, or modify a Sewer Extension  
facility located in Butler Addition, Washington and 21st Street  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. [Signature]  
Director  
Wyoming Dept. of Environmental Quality

November 29, 1976  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-366

Sunrise Hills No. #2 Sewer Extension, Yesness Court, West 50th St.  
(Name of Facility) 18" Storm Sewer

This permit hereby authorizes the applicant:

Casper Board of Public Utilities  
(Last) (First) (Middle)  
136 West 8th Street  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Sewer Extension 18" Storm Sewer  
facility located in Sunrise Hills No. #2  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Gable  
Director  
Wyoming Dept. of Environmental Quality

November 29, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Improvement District No. 30, City of Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 117, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-367

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E. *WLG*

DATE OF REVIEW: December 1, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Where dead-end water mains occur they shall be provided with a fire hydrant, flushing hydrant or blow-off for flushing purposes. Dead ends shall be minimized by looping of all mains whenever practical.
  2. Design calculations shall be provided to support use of 6 inch water and 8 inch sewer lines for the anticipated population of the area.
  3. An overall plan view of the area, showing the location of water and sewer lines (both existing and proposed), shall be provided as well as the location of the area with respect to highways, landmarks, etc.
  4. Size of existing water and sewer mains shall be specified.
  5. "T" sewer service connections are not allowed.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-367R

Improvement District #30 - Gillette

(Name of Facility)

This permit hereby authorizes the applicant:

City of Gillette

(Last)	(First)	(Middle)
<u>c/o Plains Engineering</u>		
<u>P.O. Box 2020</u>		
(Street or P.O. Box)		
<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming 82716</u>
(City)	(County)	(State)

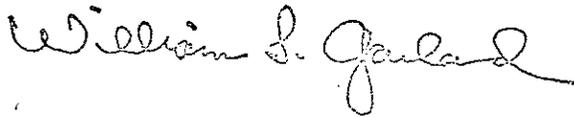
to construct, install, or modify a Water Distribution - Sewage Collection  
facility located in the City of Gillette, Section 26, T50N, R72W  
(Legal Description)

in the County of Campbell, in the State of

Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

NOTE: THIS PERMIT IS ISSUED WITH THE UNDERSTANDING THAT BOTH THE WATER  
AND SEWER SYSTEMS WILL TIE INTO THE JOHNSON SUBDIVISION AT THE  
TIME OF OPERATION, THUS AVOIDING DEAD ENDS.

Authorized by:



Supervisor Director Env. Div.  
Wyoming Dept. of Environmental Quality

December 29, 1976

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Johnson Subdivision Water and Sewer - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-368

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E. *Wesley*

DATE OF REVIEW: December 2, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. An overall plan view of the area shall be provided showing water and sewer line location, both existing and proposed. A location plat shall be shown indicating the location of the subdivision with respect to highways, landmarks, etc.
  2. Where dead-end mains occur they shall be provided with a fire hydrant, flushing hydrant or blow-off for flushing purposes.
  3. The minimum size of water main is 6 inch diameter.
  4. Please clarify the situation concerning the statements "Begin separate contract." If the stated "existing" mains are not constructed, what happens to this project?
  5. The 2 Standard Water and Sewer Detail sheets we received are not consistent. One has 16 items under "Specifications" and the other has 15. One allows "Y" or "T" sewer service connections and the other is correct in only allowing "Y" connections. Please correct the discrepancies.
  6. Please clarify what R.P.C. stands for.
  7. The letter of transmittal indicated four (4) sets of design drawings were submitted, but we only received two (2) sets. Two (2) sets are sufficient but the transmittal letter should be consistent with what is actually sent.

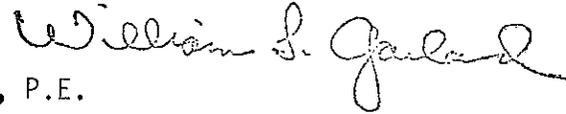
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Johnson Subdivision Water and Sewer - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-368R



REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.

DATE OF REVIEW: December 29, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. The overall plan view submitted does not show the proposed water and sewer line locations in Johnson Subdivision, these are required.
  2. If infact the 2 inch water line does service just one lot, the service must not terminate in a dead-end. A detail of the 2 inch service line shall be submitted. It is not acceptable to tap the 2 inch service line off the South branch of existing tee.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-368RR-

Johnson Subdivision Water and Sewer - Gillette  
(Name of Facility)

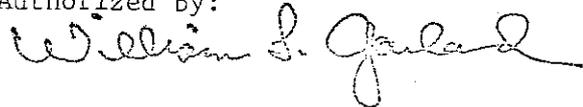
This permit hereby authorizes the applicant:

<u>Patel</u>	<u>Kanti</u>	<u>R.</u>
(Last)	(First)	(Middle)
<u>P.O. Box 2020</u>		
(Street or P.O. Box)		
<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming 82716</u>
(City)	(County)	(State)

to construct, install, or modify a Water Distribution - Sewage Collection  
facility located in Section 26, T50N, R72W, the City of Gillette  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor, Water Quality Div.  
Director

Wyoming Dept. of Environmental Quality

January 26, 1977

Date of Issuance

cc: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

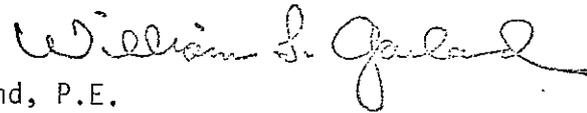
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sunburst Water and Sewer District - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-369

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 22, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Cleanouts are not allowed on laterals greater than 150 feet long; manholes are required.
  2. A drop type manhole shall be specified where a sewer enters a manhole at an elevation of 24 inches or more above the manhole invert.
  3. The elevation of the invert of existing manhole MHA-0 shall be specified.
  4. "Y" saddles, "T" saddles cannot be used.
  5. Set of specifications that are legible.
  6. Drawings of how wells and storage facilities fit into proposed system.
  7. Hydraulic design calculations of the total system. i.e. pressures, flows, pump capacities, etc.
  8. Is chlorination part of the system?
  9. How is the old system incorporated into the new system?
  10. Is the water being metered?
  11. Is the soil bearing capacity under the new tank capable of supporting the tank? Does the tank need a concrete foundation? Supply calculations.
  12. Where are the air relief valves located? Indicate on the legend. Air relief valves must conform to 10 State Standards.
  13. Include specifications for the new water tank.

PROJECT: Sunburst Water and Sewer District - Gillette

REFERENCE NUMBER: 76-369

14. Does the existing water tank have an overflow, access opening or vent? Old tank must meet the new standards.
15. Water tank tap-ins must meet standards, submit details.
16. Chemical and bacteriological tests shall be run on the well water and the results submitted to this office.
17. Due to the large number of discrepancies noted, this cannot be considered a final review of plans and specifications.

REVIEW OF PLANS AND SPECIFICATIONS

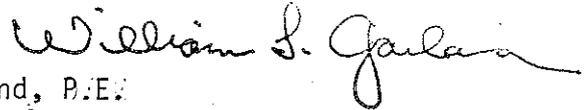
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sunburst Water and Sewer District - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-369R

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: March 15, 1977

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. The invert elevation of existing MH-0 was not specified as requested, please provide.
  2. The drawings and specifications conflict on type of sewer service connection. "Y" branches shall be specified.
  3. Enclosed is an inspection report filed by Tom Mueller concerning the existing water supply. Please submit information which indicates the problems have been eliminated. It should be noted that an unsafe sample was received for the supply on February 14, 1977.
  4. It is still unclear how the wells and storage facilities operate. Existing facilities must meet 10 State Standards. Will control of the system be automatic? If so, please explain. If not, how will the system be controlled?
  5. Design calculations shall be provided for anticipated flows, pressures, storage required, pump capacities, etc.
  6. Will the new system be chlorinated?
  7. The statement "The right is reserved to change designs and/or specifications without notice" noted in the pumphouse detail is not acceptable. Final plans and specifications are required.
  8. What provisions have been made for sewage disposal if Donkey Creek "B" line is not constructed?
  9. Is the water being metered at the wells or at the service taps?
  10. Is the applicant Sunburst Water and Sewer District or Kanti R. Patel?

PROJECT: Sunburst Water and Sewer District - Gillette

REFERENCE NUMBER: 76-369R

11. Due to the large number of comments, this cannot be considered a final review of plans and specifications.

TRB/jo

cc: Sunburst Water and Sewer District, P.O. Box 150, Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

State Office Building

Cheyenne, Wyoming 82002

PROJECT: Sunburst Water and Sewer District - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-369RR

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.

DATE OF REVIEW: April 4, 1977

*William L. Garland*  
Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS: It appears that your revisions were sent prior to receipt of our second review dated March 15, 1977. For this reason, comments 4,5,6,7,8,9 and 10 were not addressed (see attached copy of review). We cannot proceed with a third review without the required information. It should be noted we did not receive the indicated revision to Section 10.390A of the specifications. We are presently attempting to inspect the existing system to evaluate its sanitary condition and revisions may be required pending the outcome of this inspection.

TRB/jo

cc: Sunburst Water and Sewer District, P.O. Box 150, Gillette,  
WY 82716

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-369RRR

Sunburst Water and Sewer District  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Sunburst Water and Sewer District</u>		
<u>(Last)</u>	<u>(First)</u>	<u>(Middle)</u>
<u>P.O. Box 150</u>		
<u>(Street or P.O. Box)</u>		
<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming 82716</u>
<u>(City)</u>	<u>(County)</u>	<u>(State)</u>

to construct, install, or modify a Water Supply and Sewerage Collection  
facility located in Section 2, T49N, R72W  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

  
Administrator  
Water Quality Division

  
Director  
Wyoming Dept. of Environmental Quality

May 23, 1977

Date of Issuance

cc: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-369RRRR

Sunburst Sewer and Water District - Water & Sewer Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Patel</u> (Last)	<u>Kanti</u> (First)	<u>R.</u> (Middle)
<u>Box 2020</u> (Street or P.O. Box)		
<u>Gillette</u> (City)	<u>Campbell</u> (County)	<u>Wyoming 82716</u> (State)

to construct, install, or modify a Water Distribution Line and Sewage Collection  
facility located in Section 2, 3, 34, 35, T49, 50N, R72W  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galand  
Administrator  
Water Quality Division

Robert E. Durbin  
Director  
Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Gordon Fluke, Plains Engineering, P.O. Box 2020, Gillette, WY 82716

REVIEW OF PLANS AND SPECIFICATIONS

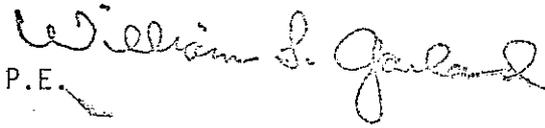
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Donkey Creek Sewer "B" Line - City of Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-370

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 22, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Please clarify whether M.H. No. 13 is a standard or drop type. Specify what the invert elevations are in all directions.
  2. Maximum infiltration or exfiltration for sewer lines shall be 200 gallons per inch of diameter of pipe per mile per day. Item 4 on sheet 2/7 calls for a minimum rather than maximum.
  3. Please provide more details on the crossing of Donkey Creek.
  4. Please clarify what provisions are called for to clean the line prior to placing into service.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-370R

Donkey Creek Sewer Line "B" - City of Gillette  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Gillette  
\_\_\_\_\_  
(Last) (First) (Middle)  
c/o Plains Engineering  
P.O. Box 2020  
\_\_\_\_\_  
(Street or P.O. Box)  
Gillette Campbell Wyoming 82716  
(City) (County) (State)

to construct, install, or modify a Sewage Collection  
facility located in Section 33, 34, 35, T50N, R72W  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:  


\_\_\_\_\_  
Supervisor - Water Quality Div.  
Director  
Wyoming Dept. of Environmental Quality

February 28, 1977

\_\_\_\_\_  
Date of Issuance

cc: Mr. Glen Taylor, City of Gillette, 400 S. Gillette Avenue, Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water and Sewer Extension for Railroad Addition, City of Buffalo

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 452, Buffalo, Wyoming 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 76-371

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E. *WLG*

DATE OF REVIEW: December 1, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Design calculations shall be submitted to justify tying the 8 inch sewer line into an existing 6 inch line. Flow allowances should be made for anticipated expansion in the area.
  2. The leakage outward or inward (exfiltration or infiltration) shall not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the sewer system.
  3. At water-sewer crossings, one full length of water pipe shall be located so both joints will be as far from the sewer as possible.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 76-371R

Water and Sewer Extension for Railroad Addition - City of Buffalo

(Name of Facility)

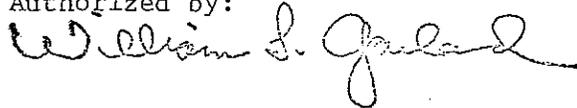
This permit hereby authorizes the applicant:

<u>City of Buffalo</u>		
(Last)	(First)	(Middle)
<u>c/o Plains Engineering</u>		
<u>P.O. Box 452</u>		
(Street or P.O. Box)		
<u>Buffalo</u>	<u>Johnson</u>	<u>Wyoming 82834</u>
(City)	(County)	(State)

to construct, install, or modify a Water Distribution - Sewage Collection  
facility located in the City of Buffalo  
(Legal Description)

in the County of Johnson, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.  
Director

Wyoming Dept. of Environmental Quality

December 29, 1976

Date of Issuance

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-372

William Semlek and City of Moorcroft Sewer Line Extension  
(Name of Facility)

This permit hereby authorizes the applicant:

William Semlek and City of Moorcroft  
(Last) (First) (Middle)  
c/o Plains Engineering  
P.O. Box 727  
(Street or P.O. Box)  
Newcastle Wyoming 82701  
(City) (County) (State)

to construct, install, or modify a Sewage Collection

facility located in Block 3 and 4 of Seventh Addition - Moorcroft  
(Legal Description)

in the County of Crook, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Garland  
Director  
Wyoming Dept. of Environmental Quality

December 2, 1976

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-373R

Century West Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Ferguson Francis

c/o CSSA

(Last)

(First)

(Middle)

200 North American Road

(Street or P.O. Box)

Cheyenne

Laramie

Wyoming 82001

(City)

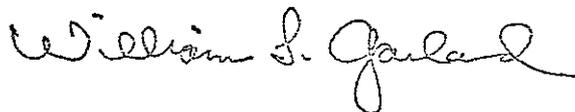
(County)

(State)

to construct, install, or modify a Water Distribution and Sewage Collection  
facility located in Section 21, T14N, R66W  
(Legal Description)

in the County of Laramie, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor Director Quality Div.  
Wyoming Dept. of Environmental Quality

January 18, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Century West

ARCHITECT OR ENGINEER: CSSA, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-373

REVIEWING ENGINEER: Tom Mueller, Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: December 2, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
1. For the water system, isolation valves are shown, on sheet 5, for Ogden Road, Ten Sleep Drive and Bowie Drive along Apache Street. These are not shown on sheets 7 and 8. They shall be included.
  2. Flushing valves shall be installed at the termination of the 4" water lines for Prospect Court, Mesa Court, and at the end of King Arthur Way. A detail of the flushing valve must be shown.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sediment Settling Pond No. 1, Cordero Mine

ARCHITECT OR ENGINEER: Mr. Peter R. Oslund, Cordero Mining Company, P.O. Box  
1440, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-375R

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: January 11, 1977

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. The calculation sheet states that the average pond depth is 12 feet but the top of the overflow dike allows only 11 feet of depth, please clarify.
  2. The calculation sheet calls for 2 36" 12 Ga. CMP while sheet 3 of 4 shows only 1, please clarify.
  3. More detail of the overflow structure shall be provided, i.e. show slope of bank to top of dike, placement of CMP, width of dike and placement of rip-rap.
  4. Even though erosion should not cause a problem with the side slope of 1.5:1, we recommend a side slope of 3:1 for safety reasons.
  5. A cross-section of the collector ditch shall be provided.
  6. It is not clear whether the run-off from the northeast corner of the overburden storage area is diverted into the sediment pond. The contour lines around the outside of the entire area are not legible enough to tell how it drains, provide a more legible copy.
  7. Are the contour elevations for the overburden storage existing or proposed? If they are existing, proposed elevations shall be provided.
  8. Due to the previous comments, this cannot be considered a final review. Any additional information must be submitted under the seal or signature of the designing engineer, who is a registered professional engineer in the State of Wyoming.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 76-375RR

Sediment Settling Pond No. 1 - Cordero Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

Cordero Mining Company

(Last)

(First)

(Middle)

P.O. Box 1449

(Street or P.O. Box)

Gillette

Campbell

Wyoming 82716

(City)

(County)

(State)

to construct, install, or modify a Sediment Settling Pond

facility located in Sec. 25, T47N, R71W

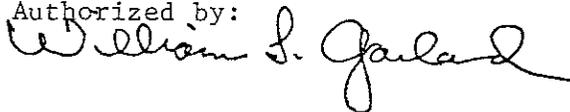
(Legal Description)

in the County of Campbell, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.

Director

Wyoming Dept. of Environmental Quality

March 29, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of Wheatland, Sanitary Sewer and Water Main Plans,  
Squaw Mountain Tracts

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, P.O. Box 856, Wheatland WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 76-376

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: December 20, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS: 1. A copy of the specifications must be included with the  
submittal. These must include the following at a minimum:

(Sewer) Pipe specification  
Bedding and Backfill  
Infiltration Testing and Limitation  
Manhole details  
Service tap details

(Water) Pipe Specification  
Bedding and Backfill  
Pressure and Leak Testing  
Disinfection Specification  
Hydrant details  
Thrust block specification or detail  
Sewer crossing specification  
Service tap details

2. Due to the incomplete nature of the application, this review  
must not be regarded as conclusive, pending submittal of  
additional information.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Squaw Mountain Tracts, Wheatland, Wyoming, Platte County

ARCHITECT OR ENGINEER: K & H Engineering, P.O. Box 856, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 76-376R

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: January 5, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS: 1. With respect to the specifications:

- a) Infiltration to clay sewerlines shall be limited to 200 gal/in-mile-day.
- b) Specifications shall be provided, in accordance with Ten State Standards, for the separation of all waterlines and sewerlines.
- c) ASTM specification C-200 for extra strength clay sewer pipe is obsolete. It has been replaced by specification C-700.

NOTE: Specifications from publications, (e.g. ASTM, AWWA, etc.) should be referred to as "in the latest edition," rather than to outdated issues. The commonly accepted PVC water pipe standard is AWWA C-900.





**Silver King Mines, Inc.**

XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXX

P. O. Box 560  
Casper, Wyoming  
82602-0560

September 21, 1981

DEPARTMENT OF ENVIRONMENTAL QUALITY  
Water Quality Division  
1111 East Lincolnway  
Cheyenne, Wyoming 82002

Attn: William L. Garland  
Administrator

RE: Permit Transfer Request  
Permit No. 76-377

Dear Mr. Garland:

Silver King Mines, Inc. hereby declares that it is the new permanent operator of the Morton Ranch Project located North of Douglas, Converse County, Wyoming.

Silver King Mines, Inc. has reviewed and hereby adopts the original Permit No. 76-377 issued to Mr. Arthur W. Woods of the United Nuclear Corporation on January 18, 1977; and hereby agrees to operate in accordance with the described plans; comply with all the terms and conditions; and perform all obligations of said permit (copy attached).

Furthermore, we request correction of the facility location from Section 15, T30N, R72W to Section 15, T35N, R72W.

We trust this information will meet your requirements. Please advise at your earliest convenience if additional information is desired.

Silver King Mines, Inc. will comply with all rules and regulations of the Water Quality Division and looks forward to a long lasting cooperative relationship. We request the transfer to be effective October 1, 1981.

Very truly yours,

C. E. Wolff  
Resident Manager  
Morton Ranch Project

CEW:meo  
Attachment

- |                   |                    |
|-------------------|--------------------|
| cc: R. M. Caywood | L. L. Snell        |
| P. A. Crowell     | R. E. Sundin (DEQ) |
| R. L. Morley      | M. R. Central File |
| R. J. Mullin      | A. W. Woods        |

PERMIT TO CONSTRUCT

JAN 19 1977

- New
- Renewal
- Modified

Permit No. 76-397

South Morton Ranch  
(Name of Facility)

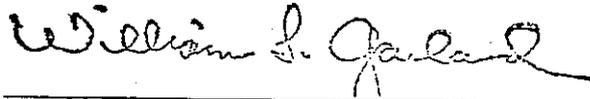
This permit hereby authorizes the applicant:

<u>Woods</u>	<u>Arthur</u>	<u>W.</u>
(Last)	(First)	(Middle)
<u>P.O. Box 2996</u>		
(Street or P.O. Box)		
<u>Casper</u>	<u>Natrona</u>	<u>Wyoming 82601</u>
(City)	(County)	(State)

to construct, install, or modify a Sewage Lagoon  
facility located in Section 15, T30N, R72W  
(Legal Description)

in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Director  
Wyoming Dept. of Environmental Quality

January 18, 1977  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-377

South Morton Ranch  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Woods</u> (Last)	<u>Arthur</u> (First)	<u>W.</u> (Middle)
<u>P.O. Box 2996</u> (Street or P.O. Box)		
<u>Casper</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82601</u> (State)

to construct, install, or modify a Sewage Lagoon  
facility located in Section 15, T30N, R72W  
(Legal Description)

in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

*William S. Garland*

Director  
Wyoming Department of Environmental Quality

January 18, 1977  
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Morton Mine Sewage Lagoon, Converse County

ARCHITECT OR ENGINEER: R. L. Streeter, P.E., United Nuclear, Mining Operations,  
P.O. Box 2996, Casper, Wyoming 82601 Attention: C. H.  
Likins

WATER QUALITY DIVISION REFERENCE NUMBER: 76-377

REVIEWING ENGINEER: Jake Strohman, William L. Garland *William L. Garland*

DATE OF REVIEW: January 18, 1977

ACTION: CONSTRUCTION AUTHORIZED (SEE COMMENTS)

Supervisor - Water Quality Div.

- COMMENTS:
1. Septic tank shall have "T"s or "L"s" for inlet - outlet structures.
  2. Floor of lagoon shall be level to a standard of  $\pm 6$  inches.
  3. Recommend not seeding inside bank of lagoon as weed control is required to keep odors to a minimum.
  4. Pipe should be laid so as to prevent bells from taking the overburden load.
  5. Indicate degree of compaction required on the lagoon dike. (90 or 95 percent by standard proctor method, i.e.)

NOTE: Awaiting material and installation spec's or pipeline from North Morton Mine. Any wastewater reservoirs also need construction permits from this office.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-378

Thermopolis KOA  
(Name of Facility)

This permit hereby authorizes the applicant:

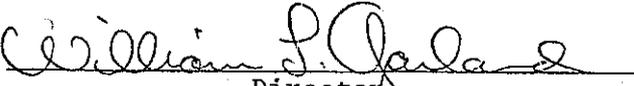
Shellcross                      Glen  
(Last)                                      (First)                                      (Middle)

Rt. 3, Box 278  
(Street or P.O. Box)

Thermopolis                      Hot Springs                      Wyoming 82443  
(City)                                      (County)                                      (State)

to construct, install, or modify a Waste Treatment Facility  
facility located in Section 11, T42N, R95W  
(Legal Description)

in the County of Hot Springs, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:  
  
Director  
Wyoming Dept. of Environmental Quality

December 6, 1976  
Date of Issuance

cc: Vern Nelson, P.E., John W. Donnell and Associates, P.O. Box 13,  
Worland, Wyoming 82401

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Thermopolis KOA

ARCHITECT OR ENGINEER: Vern Nelson, P.E., P.O. Box 13, Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 76-378

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: December 6, 1976

ACTION: AUTHORIZED

COMMENTS: Notice we have crossed the word "SMALL" out on our permit form as this facility does not meet requirements of "Small Wastewater Facility."

Recommend steps be taken to eliminate inflow into sewage systems from storms.

cc: Glen Shellcross, Rt. 3, Box 278, Thermopolis, WY 82443

January 14, 1977

Mr. John W. Donnell  
P.O. Box 13  
Worland, Wyoming 82401

RE: 76-374, Sugar Beet Hilltop  
Estates, Owner C. O. Davis

Dear Mr. Donnell:

The following information is furnished so that the owner knows what he is getting into. I am not against mechanical plants as you are probably aware, but mechanical plants for small populations have trouble meeting effluent limitations due to hydraulic surging. The discharge permit that would be issued is not a license to pollute. Effluent parameters for BOD<sub>5</sub>, suspended solids, pH, and fecal coliform would have to be adhered to. If these parameters are not met, a maximum fine of \$10,000 per day of violation could be assessed.

A certified operator is required for the plant. This operator is required to have a "C" certification and be on hand immediately. Quarterly monitoring is required for a discharge of this nature and costs over \$400 per year.

I would recommend that a full retention sewage lagoon or a septic tank and disposal system be installed. If the mechanical plant is decided upon, the polishing pond should be designed for full retention to omit the discharge permit requirements. A lagoon would also eliminate the power costs of the mechanical plant.

A properly designed lagoon with a operating depth of 3 to 5 ft. causes very few odors. The lagoon may require sealing or addition of water periodically to keep this depth. Keeping the weeds down and fencing the lagoon will also be required.

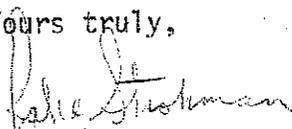
If the mechanical plant is decided upon, what is the detention time in the aeration tank? Sludge wasting capabilities will be required? Who is the operator? Send design of polishing pond. Chlorination will be required (send plans and specifications). The plant and polishing pond should be fenced.

Mr. John W. Donnell  
January 14, 1977  
Page 2

The plans and specifications require the seal or signature of an engineer licensed to practice in Wyoming.

Enclosed is a copy of a discharge permit should the decision dicates its use.

Yours truly,

  
Jake Strohmman  
Environmental Engineer  
Water Quality Division

JS/jo  
Enclosure

REVIEW OF PLANS AND SPECIFICATIONS

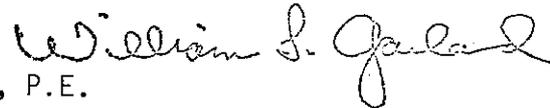
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sediment Settling Pond No. 1, Cordero Mine

ARCHITECT OR ENGINEER: Mr. Timothy C. Richmond, Cordero Mining Company, P.O.  
Box 1440, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-375

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 22, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS: A review of plans and specifications has not been performed due to the requirement that all plans and specifications must carry the seal or signature of the designing engineer, who is a registered engineer in the State of Wyoming. It should be noted that we require two (2) copies of plans and specifications and that these must comply with the requirements of "Ten State Standards."

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-379

Amoco Oil Company Refinery 2-inch Water Main Extension  
(Name of Facility)

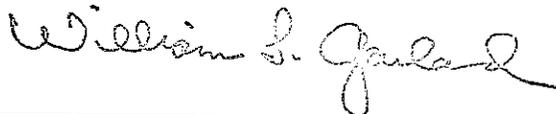
This permit hereby authorizes the applicant:

Amoco Oil Company  
(Last) (First) (Middle)  
West Yellowstone Highway  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a 2-inch Water Main Extension  
facility located in the City of Casper  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Director  
Supervisor, Water Quality Div.  
Wyoming Dept. of Environmental Quality

January 13, 1977

Date of Issuance

cc: Nix Anderson, Casper  
Casper Board of Public Utilities, Casper

REVIEW OF PLANS AND SPECIFICATIONS

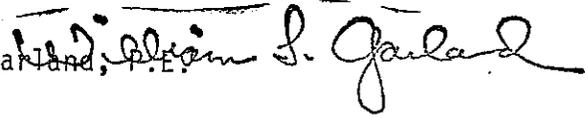
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Amoco Oil Company Refinery, 2-inch water main extension to Casper,  
West Yellowstone Highway, Casper

ARCHITECT OR ENGINEER: C. C. Hutton, P.E., Amoco Oil Company Refinery,  
West Yellowstone Highway, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-379

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.



DATE OF REVIEW: January 13, 1977

Supervisor - Water Quality Div.

ACTION: CONSTRUCTION AUTHORIZED. SEE COMMENTS.

- COMMENTS: 1. Disinfect line per AWWA C601 before use.  
2. Pressure distribution system to 1½ times operating pressure prior to burial.

cc: Nix Anderson, Casper  
Casper Board of Public Utilities, Casper

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-380

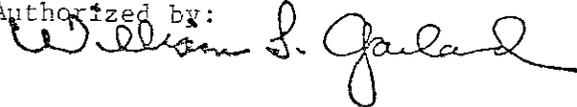
Ranchester Mobile Park, Second Addition  
(Name of Facility)

This permit hereby authorizes the applicant:

Lazy R. Campground Assn.  
(Last) (First) (Middle)  
c/o Walter J. Pilch and Associates  
Box 6498  
(Street or P.O. Box)  
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a Sewage Collection - Water Distribution  
facility located in Section 19, T57N, R85W - Town of Ranchester  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:  


Supervisor - Water Quality Div.  
Director  
Wyoming Dept. of Environmental Quality

February 28, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

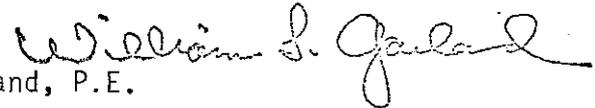
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Water and Sewer Extension, City of Sheridan

ARCHITECT OR ENGINEER: Walter J. Pilch and Associates, P.O. Box 6498,  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 76-381

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 22, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. Manholes shall be installed at the end of each sewer line.
  2. Dead end water mains shall be minimized by looping whenever practical.
  3. Size of the water main shall be specified.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-381R

City of Sheridan - Water and Sewer Extension  
(Name of Facility)

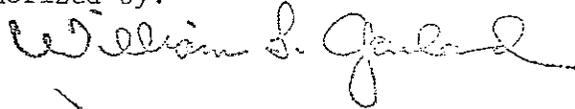
This permit hereby authorizes the applicant:

City of Sheridan  
(Last) (First) (Middle)  
c/o Walter J. Pilch and Associates  
P.O. Box 6498  
(Street or P.O. Box)  
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a Water and Sewer Extension  
facility located in the City of Sheridan  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.  
Director

Wyoming Dept. of Environmental Quality

January 6, 1977

Date of Issuance



REVIEW OF PLANS AND SPECIFICATIONS

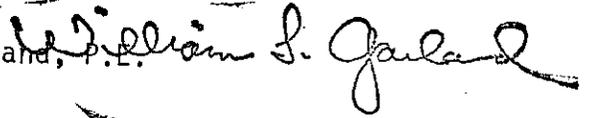
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: American Colloid Company, Lovell

ARCHITECT OR ENGINEER: Roger L. Jacobson, Engineering Associates, P.O. Box 1539,  
Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-382

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.



Supervisor - Water Quality Div.

DATE OF REVIEW: January 13, 1977

ACTION: CONSTRUCTION AUTHORIZED. SEE COMMENTS.

- COMMENTS:
1. The floor of lagoon should be as level as possible.
  2. Facility should be fenced and signed noting the nature of the facility.
  3. Sewer line should have bedding, alignment and grade specifications.
  4. Weed control and addition of water may be required at times to keep the odor down.

REVIEW OF PLANS AND SPECIFICATIONS

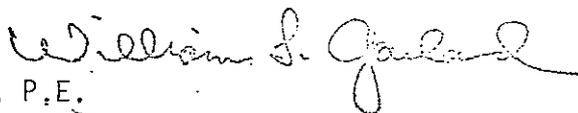
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Kenwood Estates, Water and Sewer System - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wy 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-383

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 29, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. A full review of plans and specifications will not be initiated until additional design data is provided on the storage tank and pumphouse, "Design By Others" is not sufficient.
  2. An overall plan view showing water and sewer line locations shall be provided. Contour lines shall be included.
  3. A location plat shall be provided.

REVIEW OF PLANS AND SPECIFICATIONS

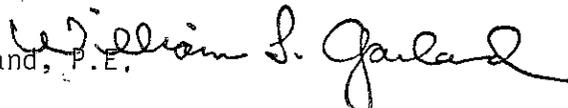
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER-QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Kenwood Estates, c/o Ken Baldwin, 2947 "B" Rd., Grand Junction

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-383R

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.



DATE OF REVIEW: March 1, 1977

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS?

- COMMENTS:
1. Submit pump curves and design flows for well pump and booster pumps. Submit design calculations for anticipated heads in system.
  2. Clarify the detail of M. H. No. 1A2; sheet 2 of 4 indicates a stub to the North of the manhole but the detail doesn't show any profile.
  3. The water lines shall be looped.
  4. The chlorine test kit provided with the sewage plant is not the approved type.
  5. Sludge handling has not been addressed.
  6. The testing procedures in the O & M Manual are not clear, i.e. after the settleable solids test is performed what is done with the information?
  7. Data about the site of the wastewater treatment plant, i.e. profile of plant area, information of 2 x 2 catch basin, flow measuring, headwell or discharge structure, drainage, fencing, signs, access, safety around the open basins, etc.
  8. What about security and access around the water supply?
  9. What about cold weather operations? Is there going to be a building over the treatment plant?
  10. What about flow equalization?

Due to the number of discrepancies noted this cannot be considered a final review.

REVIEW OF PLANS AND SPECIFICATIONS

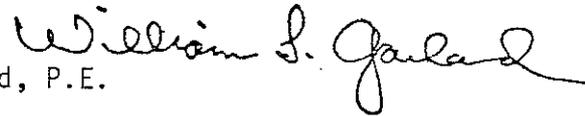
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Kenwood Estates - Gillette

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-383RR

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: April 19, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. The information provided by Case Cotter, Inc. came as recommendations and normal procedures for a plant. How will this information be used for this project?
  2. The DPD method of analysis is required for chlorine testing to satisfy requirements of the NPDES permit.
  3. No information was provided on flow measurement, signs or safety around the open basins, please provide.
  4. Please clarify where the 18" CMP is located. Is it in Donkey Creek?
  5. Due to the low elevation of the sewage treatment plant, protection from flooding will be required.
  6. Cold weather operation was deferred to Mr. Fluke's judgment so please provide the operating procedure and subsequent enclosure of the plant if required.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-383RRR

Kenwood Estates  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Baldwin</u>	<u>Lee</u>	
(Last)	(First)	(Middle)
<u>800 North LaBarge Court</u>		
(Street or P.O. Box)		
<u>Pierre</u>		<u>South Dakota</u>
(City)	(County)	(State)

to construct, install, or modify a Public Water Supply and Sewage  
facility located in Section 5, T49N, R72W  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.  
THIS FACILITY WILL REQUIRE A CERTIFIED OPERATOR FOR BOTH THE PUBLIC WATER  
SUPPLY AND THE WASTE TREATMENT FACILITIES.

Authorized by:

William J. Ireland  
Administrator  
Water Quality Division

Robert E. Austin  
Director  
Wyoming Dept. of Environmental Quality

June 1, 1977

Date of Issuance

cc: Plains Engineering, P.O. Box Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Kenwood Estates, c/o Ken Baldwin, 2947"B" Rd., Grand Junction

ARCHITECT OR ENGINEER: Plains Engineering, P.O. Box 2020, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-383RRR

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: May 24, 1977

ACTION: SEE COMMENTS.

COMMENTS:

1. Due to the ground slope of the subdivision and the location of the waste treatment facility there is a possibility of flooding the whole plant area.
2. There could be problems in the winter operation of the waste treatment facility due to blowing and drifting snow and cold temperature.
3. The open basins of waste treatment facility should have grating rails to protect the operator.



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: City of Rock Springs, Wastewater Treatment Plant, Rock Springs,  
Wyoming

ARCHITECT OR ENGINEER: Dale Crank, Johnson-Fermelia and Crank, Inc.,  
P.O. Box 631, Kemmerer, Wyoming 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 76-384

REVIEWING ENGINEER: Pat Gamroth, Don Armstrong, David W. Hill, William L. Garland, P.E.

DATE OF REVIEW: December 15, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION *wsg*

COMMENTS: The concept of the system is acceptable with the following  
questions and comments:

GENERAL

- 1) The components of the plant are very spread out. We highly recommend that closer spacing be considered in order to conserve space, energy, and fill requirements. Operator walking distance during routine checks and sample collection would be reduced. We will, however, accept the present layout if the City and the engineer designate this layout as the best practical.
- 2) A "plant description sheet" showing the design criteria for the various units is needed (i.e. - detention times, sizes, surface loading rates, weir loading rates, organic loading rates, etc. at average and peak flows). This information is needed in order to adequately review the system. This sheet would also provide a quick, illustrative reference for the operators.
- 3) Details are needed concerning pipe color coding, warning signs, etc.

SPECIFICATIONS

- 4) Page 2-2 (3) Compaction. All fills should be compacted to at least 95% of maximum density.
- 5) Page 25-22. b. Performance. Typographical error - The oxygenation capacity of each aerator should transfer at least 3.4 pounds of oxygen per shaft horsepower not 34 pounds.....

PROJECT: City of Rock Springs, Wastewater Treatment Plant, Rock Springs,  
Wyoming

REFERENCE NUMBER: 76-384

- 6) Page 27-1 Section 27. The reclamation of all borrow areas, such as reseeded, should be addressed along with addressing fugitive dust control during construction.
- 7) Page 33-1 Section 33. A carbon dioxide gas analyzer is is needed.

GRIT CHAMBER

- 8) Heat and ventilation details are needed.
- 9) More details are needed for the slide gates. Can these slide gates be operated easily without undue effort. Will these gates be watertight enough to allow operators to enter the grit chamber area.

MAIN PUMP HOUSE

- 10) Heating details are needed.
- 11) Some thought should be given to the use of variable speed pumps. We will not require variable speed pumps however.

PRIMARY CLARIFIER

- 12) How can the clarifiers be drained? It appears that all drainage must go to either to digesters or the sludge drying beds. The piping should be arranged so that the clarifiers can be drained to the Main Pump House Wetwell.

BIO-CELL PUMP STATION

- 13) Heating details are needed.
- 14) Sheet 15/43. Section A 15/15. Appears to be a drawing error only. Right manhole is not centered over the pump pad.

BIO-FILTER

- 15) A stairway should be installed here rather than a ladder. Every effort should be made to encourage frequent inspection of the bio-filter.

AERATION BASIN

- 16) The vertical clearance for spray has been suggested to be at least 30 inches and not 24 inches as shown. Please review and provide your comments.

PROJECT: City of Rock Springs, Wastewater Treatment Plant, Rock Springs,  
Wyoming

REFERENCE NUMBER: 76-384

SECONDARY PUMP HOUSE

- 17) Heating details are needed.

CHLORINE CONTACT BASIN

- 18) The basin should have provisions for complete dewatering so that accumulated sludge can periodically be flushed away, hopefully back to the Main Pump Station wetwell. A change in operating depth may have to be made in the wetwell.
- 19) The building needs floor drains.
- 20) Heating details are needed.
- 21) We would prefer to see a physical separation between the chlorine cylinder area and the chlorinator - booster pump area. Each area should have an outward swinging door.
- 22) A chlorine leak detector with an alarm system, light, noise, etc., is needed.
- 23) A self contained air breathing apparatus is needed along with adequate gas masks.
- 24) Please submit details of the chlorine solution diffuser.
- 25) Some type of baffle or scum collection system is needed in the contact basin.

DIGESTERS AND DIGESTER  
CONTROL BUILDING

- 26) Details of all supernatant and sludge line sampling ports are needed for an adequate review.
- 27) Forced ventilation should be provided in the digester control building basement. Please provide details.
- 28) The laboratory section shall be provided with sinks, an emergency shower, fire extinguishers, an eye wash, and an emergency first-aid kit.

PROJECT: City of Rock Springs, Wastewater Treatment Plant, Rock Springs,  
Wyoming

REFERENCE NUMBER: 76-384

SLUDGE DRYING BEDS

- 29) Please indicate on the plan view (sheet 34/43) exactly where the asphalt pavement is located over the sludge beds.
- 30) Runoff from the dried sludge storage area must be collected and retained. Please supply details.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-386

Rawlins Sewer Line Extensions  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>City of Rawlins</u>		
(Last)	(First)	(Middle)
<u>P.O. Box 953</u>		
(Street or P.O. Box)		
<u>Rawlins</u>	<u>Carbon</u>	<u>Wyoming 82301</u>
(City)	(County)	(State)

to construct, install, or modify a Sewer Line Extensions  
facility located in City of Rawlins  
(Legal Description)

in the County of Carbon, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

Frank R. Hanna  
for Director  
Wyoming Dept. of Environmental Quality

December 13, 1976  
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: City of Rawlins - Sewer Line Extensions

ARCHITECT OR ENGINEER: Michael J. Winterling, P.E., City Engineer for Rawlins,  
City of Rawlins, P.O. Box 953, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 76-386

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: December 13, 1976

ACTION: AUTHORIZED FOR CONSTRUCTION.

COMMENTS: This authorization covers the following:

10" Sewer from 9th and Spruce to 11th and Spruce and a 12"  
Sewer from alley between Front and Cedar on 8th Street to  
8th and Front and a 15" Sewer from 8th and Front to 7th and  
Front.

REVIEW OF PLANS AND SPECIFICATIONS

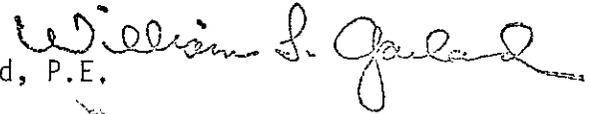
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Extension of Public Sewer System - Gillette

ARCHITECT OR ENGINEER: Russell L. Larson, Consulting Engineer, 316  
South Gillette Avenue, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 76-387

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E.



DATE OF REVIEW: December 29, 1976

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

- COMMENTS:
1. A location map shall be provided.
  2. Item 4 of the specifications calls for ASTM Specification D-3304 which appears to be a misprint, please clarify.
  3. Manhole diameter shall be specified.
  4. Water service and sewer service details or specifications shall be provided.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-387R

Extension of Public Sewer System - Gillette

(Name of Facility)

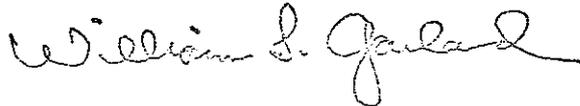
This permit hereby authorizes the applicant:

Abrams	Joe	W.
(Last)	(First)	(Middle)
P.O. Box 2530		
(Street or P.O. Box)		
Gillette	Campbell	Wyoming 82716
(City)	(County)	(State)

to construct, install, or modify a Sewage Collection  
facility located in Section 26, T50N, R72W, City of Gillette  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Director

Wyoming Dept. of Environmental Quality

January 21, 1977

Date of Issuance

cc: Russell L. Larson, Consulting Engineers, 316 South Gillette Avenue,  
Gillette, Wyoming 82716



PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-392

Second South Addition

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Water, Inc.

Hutchison                      Peter                      J.  
(Last)                              (First)                              (Middle)

1902 Thomas, Room 207  
(Street or P.O. Box)

Cheyenne    Wyoming 82001  
(City)    (County)    (State)

to construct, install, or modify a 44 Unit Apartment House  
facility located in Lots 2-10, Block 8  
(Legal Description)

in the County of Platte, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

Frank R. Harman  
Director  
Wyoming Dept. of Environmental Quality

December 15, 1976

Date of Issuance

cc: Gena Wright, Platte County Sanitarian, P.O. Box 55, Wheatland, Wyoming 82201

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Second South Addition - 44 Units Apartment House Complex,  
Lots 2-10, Block 18, Wheatland, Wyoming

ARCHITECT OR ENGINEER: Peter J. Hutchison, Wyoming Water, Inc., 1902 Thomas  
Room 207, Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-392

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman*

DATE OF REVIEW: December 15, 1976

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

cc: Gena Wright, Platte County Sanitarian, P.O. Box 55, Wheatland, WY 82201

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Bill Cody's Scouts Rest Ranch, Cody

ARCHITECT OR ENGINEER: George W. Tresler, P.O. Box 1050, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-393

REVIEWING ENGINEER: Jake Strohmman, William L. Garland, P.E.

*William L. Garland*

DATE OF REVIEW: January 14, 1977

Supervisor - Water Quality Div.

ACTION: CONSTRUCTION IS NOT AUTHORIZED.

- (150)
- COMMENTS: 1. 1000 gallon is minimum size septic tank.
2. How do you plan to get equal distribution to both leaching lines? What slope will the leach lines be laid on? Recommend side hill disposal field. (See Enclosure)
3. Minimum disposal area is 330 sq. ft. Make trenches 3 ft. wide.
4. What is highest known groundwater elevation? ✓

JS/jo  
Enclosure

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-393R

Bill Cody's Scout Rest Ranch  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Tresler</u> (Last)	<u>George</u> (First)	<u>W.</u> (Middle)
<u>P.O. Box 1050</u> (Street or P.O. Box)		
<u>Cody</u> (City)	<u>Park</u> (County)	<u>Wyoming 82414</u> (State)

to construct, install, or modify a Waste Water System  
facility located in 30 Miles West of Cody  
(Legal Description)

in the County of Park, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

*William S. Garland*

Supervisor - Water Quality Div.

Director

Wyoming Dept. of Environmental Quality

February 28, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Bill Cody's Scouts Rest Ranch, Cody, Wyoming

ARCHITECT OR ENGINEER: George Tresler, P.O. Box 1050, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-393R

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

*William L. Garland*

DATE OF REVIEW: February 25, 1977

Supervisor - Water Quality Div.

ACTION: CONSTRUCTION AUTHORIZED (SEE COMPLIANCE ITEM)

COMMENTS: The engineer shall verify the level of the groundwater table at the exact location of the leach field. If groundwater or an impermeous layer is encountered within 8 feet of the surface, construction will cease and a new disposal system will be issued to this office for approval.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-393RR

Bill Cody's Scouts Rest Ranch

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Cody</u> (Last) c/o George Tresler P.O. Box 1050	<u>Bill</u> (First)	<u></u> (Middle)
<u>(Street or P.O. Box)</u>		
<u>Cody</u> (City)	<u>Park</u> (County)	<u>Wyoming 82414</u> (State)

to construct, install, or modify a Small Waste Treatment  
facility located in 30 Miles West of Cody  
(Legal Description)

in the County of Park, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. O'Connell  
Director  
Wyoming Dept. of Environmental Quality

May 4, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Bill Cody's Scouts Rest Ranch, Cody, Wyoming

ARCHITECT OR ENGINEER: George Tresler, P.O. Box 1050, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-393RR

REVIEWING ENGINEER: William L. Garland, P.E.

DATE OF REVIEW: May 3, 1977

ACTION: AUTHORIZED FOR CONSTRUCTION (SEE COMMENTS BELOW)

COMMENTS: Pursuant to a request by Mr. Dave Baumgartner, U.S. Forest Service, Cody, Wyoming, the original permit issued to Mr. Bill Cody for the above facility is hereby replaced by the attached permit. Mr. Baumgartner's concern was primarily over the disturbance of anymore land than absolutely necessary. As per a phone conversation May 3, 1977 between Mr. Baumgartner and Mr. Garland, the minimum tank volume installed will be 750 gals with minimum leaching area of 170 sq. ft. This permit is only valid, if all other provisions of Appendix B, Wyoming Water Quality Rules and Regulations are adhered to. (Attched) The reasoning applied in the reduction of the required tank volume and leaching area is due to the seasonal use aspect of the facility and the associated reduced volume of wastewater generated. Our office assumes that due to the request by the Forest Service, they will exercise any necessary measures and precautions to insure the operability of the facility in the future.

It should be noted that the changes in the conditions of the original permit do not reflect upon the designing engineer in any manner whatsoever.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-394

Menter Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

Menter                      James                      E.  
(Last)                              (First)                              (Middle)

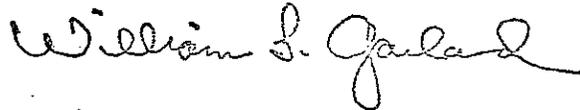
Rt. 1, Box 163  
(Street or P.O. Box)

Douglas                      Converse                      Wyoming 82633  
(City)                              (County)                              (State)

to construct, install, or modify a Commercial Waste Treatment Facility  
facility located in Section 17, T32N, R71W  
(Legal Description)

in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor ~~D.W. Hart~~ Quality Div.  
Wyoming Dept. of Environmental Quality

January 14, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: North Fertig Addition, Wheatland, Wyoming

ARCHITECT OR ENGINEER: J. Kenneth Kennedy, P.O. Box 856, Wheatland, Wyoming 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 76-395

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E. *WLG*

DATE OF REVIEW: December 20, 1976

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS. *0*

COMMENTS:

1. A copy of the specifications must be included with the submittal. These must include the following at a minimum:
  - (Sewer) Pipe specification  
Bedding and Backfill  
Infiltration testing and limitation  
Manhole details  
Service tap details
  - (Water) Pipe specification  
Bedding and Backfill  
Pressure and leak testing  
Disinfection specification  
Hydrant details  
Thrust block specification or detail  
Sewer crossing specification  
Service tap details
2. Sewer profiles must be provided.
3. Due to the incomplete nature of the application, this review must not be regarded as conclusive, pending submittal of additional information.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: North Fertig Addition, Wheatland, Wyoming, Platte County

ARCHITECT OR ENGINEER: K & H Engineering, P.O. Box 856, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 76-395R

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: January 5, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS: 1. With respect to the specifications:

- a) Infiltration to clay sewerlines shall be limited to 200 gal/in-mile-day.
- b) Specifications shall be provided, in accordance with Ten State Standards, for the separation of all waterlines and sewerlines.
- c) ASTM specification C-200 for extra strength clay sewer pipe is obsolete. It has been replaced by specification C-700.

2. Sewer slopes shall be maintained at .004 ft/ft or greater.

NOTE: Specifications from publications, (e.g. ASTM, AWWA, etc.) should be referred to as "in the latest edition," rather than to outdated issues. The commonly accepted PVC water pipe standard is AWWA C-900.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-395RR

North Fertig Addition

(Name of Facility)

This permit hereby authorizes the applicant:

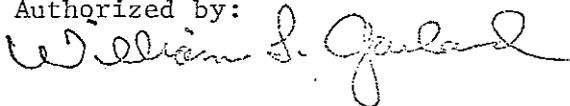
Town of Wheatland

<u>(Last)</u> c/o K&H Engineering P.O. Box 856	<u>(First)</u>	<u>(Middle)</u>
<u>Wheatland</u>	<u>(Street or P.O. Box)</u> Platte	<u>Wyoming 82201</u>
<u>(City)</u>	<u>(County)</u>	<u>(State)</u>

to construct, install, or modify a Water Distribution/Sewage Collection  
facility located in Section 11 & 12, T24N, R68W  
(Legal Description)

in the County of Platte, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor - Water Quality Div.  
Director

Wyoming Dept. of Environmental Quality

January 26, 1977

Date of Issuance

Legal Description changed from Section 26 to 28

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 76-396

Wyodak Project - Ash Pond.

(Name of Facility)

This permit hereby authorizes the applicant:

Mr. Robert W. Moench

Pacific Power and Light Company

(Last)	(First)	(Middle)
P.O. Box 720		
(Street or P.O. Box)		
Casper,	Natrona	Wyoming 82601
(City)	(County)	(State)

to construct, install, or modify a Ash Pond

facility located in Section 28, T50N, R71W  
(Legal Description)

in the County of Campbell, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

*William S. Garland*

Director  
Wyoming Supervisor of Water Quality Div. of Environmental Quality

January 18, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Union Carbide Uranium Mine, Sewerage for Showers/Locker Room  
Gas Hills, Fremont County, Wyoming

ARCHITECT OR ENGINEER: Jerald Crews, P.E., Tudor Engineering, P.O. Box 230,  
Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 76-398

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E.



DATE OF REVIEW: January 19, 1977

Supervisor - Water Quality Div.

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) The wastewater disposal system shall be designed for 15-40 gallons per worker, per shift, per day. At 40 workers per day, this is considerably more than 500 gallons per day of wastewater flow.
  - 2) We highly recommend that a figure of 35-40 gallons or higher per worker be used instead of 25 gallons per worker in order to insure an adequate factor of safety.
  - 3) Our standards require that the leach field be located at least 50 feet from any waterway.
  - 4) Please have owner or owner's representative fill out and submit 2 copies "Application for Permit to Construct, Install, etc."

DWH/jo

Enclosures - "Application for Permit to Construct, Install, etc."

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-398R

Union Carbide Corp., Metals - Shower/Locker Room Sewerage  
(Name of Facility)

This permit hereby authorizes the applicant:

Union Carbide Corporation  
(Last) (First) (Middle)  
P.O. Box 5100, Gas Hills Station  
(Street or P.O. Box)  
Riverton Fremont Wyoming 82501  
(City) (County) (State)

to construct, install, or modify a Wastewater Disposal System  
facility located in Gas Hills, Wyoming  
(Legal Description)

in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

*William J. Garland*

Supervisor - Water Quality Div.

Director

Wyoming Dept. of Environmental Quality

February 15, 1977

Date of Issuance

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 76-399

Holly Sugar Worland Cooling Tower  
(Name of Facility)

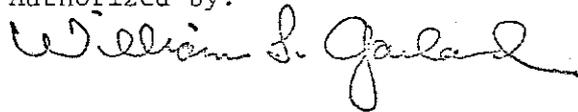
This permit hereby authorizes the applicant:

Holly Sugar Corporation  
(Last) (First) (Middle)  
Attention: Louis P. Orleans  
P.O. Box 1052  
(Street or P.O. Box)  
Colorado Springs Colorado 80901  
(City) (County) (State)

to construct, install, or modify a Wastewater Cooling Tower  
facility located in Section 25, T47N, R93W  
(Legal Description)

in the County of Washakie, in the State of  
Wyoming. This permit shall be effective for a period of 1 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Supervisor, Water Quality Div.  
Director

Wyoming Dept. of Environmental Quality

February 24, 1977

Date of Issuance