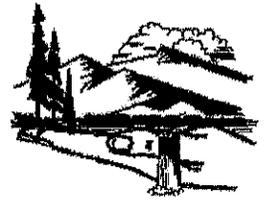




Department of Environmental Quality

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



Matthew H. Mead, Governor

Todd Parfitt, Director

**Authorization to Discharge Wastewater Associated with Ground Water Well Pump Testing and Development
Well Pump Tests of Domestic Use Water Supplies
Under the Wyoming Pollutant Discharge Elimination System**

Authorization # WYG720291

This is a renewed authorization under the renewed General Permit for Temporary Discharges.

In compliance with the provisions of the Federal Water Pollution Control Act and the Wyoming Environmental Quality Act,

Layne Christensen Company, Attn: Steve Costello, 1717 Park Avenue, Redlands, CA 92374

is authorized to discharge wastewater associated with Ground Water Well Pump Testing and Development activities from:

Gillette Madison Pipeline Project Test Wells

Outfall 001: Section 36, Township 52N, Range 67W, Latitude 44.45239, Longitude -104.84553, Campbell County

Outfall 002: Section 36, Township 52N, Range 67W, Latitude 44.44266, Longitude -104.84887, Campbell County

to surface waters of the State of Wyoming in accordance with the requirements of the enclosed General Permit for Temporary Discharge Associated with Ground Water Well Pump Testing and Development:

Receiving waters: Unnamed ephemeral tributary to Spring Creek (both class 3B), Belle Fourche River basin.

The wastewater discharged from this location associated with **WELL PUMP TESTS OF DOMESTIC WATER SUPPLIES** shall be limited and monitored by the permittee as specified below:

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7156 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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Effluent Limitation

Parameter	Authorization Maximum	Monthly Average	Weekly Average	Daily Maximum
Duration of Discharge (each well or outfall)	31 days	N/A	N/A	N/A
pH, su (standard units)	N/A	N/A	N/A	6.5-9.0
Total Suspended Solids, mg/L	N/A	30	45	90
Total Dissolved Solids (TDS), mg/L	N/A	N/A	N/A	5,000

Monitoring Requirements

Parameter	Measurement Frequency	Sample Type
Flow, gpm	Daily	Instantaneous or Continuous
pH su (standard units)	Daily	Grab
TSS, mg/L	Weekly	Grab
TDS, mg/L	Weekly	Grab

If the duration of the discharge is shorter than the required sample frequency, a minimum of one sample shall be taken for all parameters.

All waters shall be discharged in a manner to prevent erosion, scouring, or damage to stream banks, stream beds, ditches, or other waters of the state at the point of discharge. In addition, there shall be no deposition of substances in quantities which could result in significant aesthetic degradation, or degradation of habitat for aquatic life, plant life, or wildlife; or which could adversely affect public water supplies or those intended for agricultural or industrial use.

REPORTING REQUIREMENTS FOR THIS AUTHORIZATION

Reporting is required monthly, using Discharge Monitoring Reports (DMRs) to be submitted by the 28th day of the month following the completed reporting period, to WYPDES Permits Section, DEQ/WQD, Herschler Building - 4 W, 122 West 25th Street, Cheyenne, WY 82002. For eDMR please follow the instructions at the following website: <http://deq.state.wy.us/wqd/DMR/edmr.asp>. For the paper DMR's please follow the instructions at the following website: <http://deq.state.wy.us/wqd/DMR/paperdmr.asp>. If no discharge occurred during the reporting period, "no discharge" shall be reported. **The first report is due on February 28, 2013 for any discharges occurring in January, 2013.**

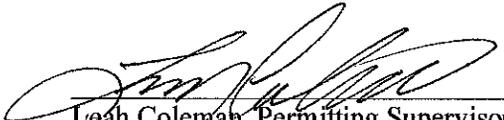
For termination of this authorization, the enclosed Termination Notice (also available at http://deq.state.wy.us/wqd/WYPDES_Permitting/downloads/TD_NOT_2_07.doc) must be completed and submitted at the completion of the discharge. Authorizations cannot be terminated until all completed DMR's have been submitted to the WQD for review. Once the permittee has received a letter confirming receipt of the termination notice, the permittee does not have to submit any further DMR's.

All WYPDES general permit authorizations are subject to a \$100 annual permit fee for as long as the authorization is active or until the general permit expires. The annual billing cycle is based on a calendar year. See the Wyoming Environmental Quality Act §35-11-312 for further information.

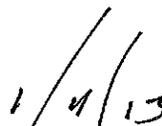
This facility has been assigned permit authorization number **WYG740291**.

Coverage under this General Permit for Temporary Discharge Ground Water Well Pump Testing and Development shall begin upon date of signature below, and discharges are authorized to continue no longer than **August 31, 2013**.

If you have any questions concerning the conditions of this general permit, contact Marcia Porter at 307-777-6081, or email marcia.porter@wyo.gov.



Leah Coleman, Permitting Supervisor
Department of Environmental Quality
Water Quality Division



Date of Issuance

Fact Sheet

General Permit for Temporary Discharge Ground Water Well Pump Testing and Development Permit Number WYG720000

This general permit will cover discharges associated with ground water well pump testing and development of **domestic use water supplies, uranium ground water wells, and oil and gas well development**. This permit does not cover production activities.

BACKGROUND: The Wyoming Department of Environmental Quality (WDEQ), Water Quality Division (WQD) determined that several types of short-term activities require coverage under a Wyoming Pollutant Discharge Elimination System (WYPDES) permit. In order to permit these temporary discharges in a timely manner, the WDEQ has issued a general permit for temporary discharges. Chapter 2, Wyoming Water Quality Rules and Regulations, provides the mechanism for general permitting under the WYPDES program. The general permit is an administrative "tool" which can be used to issue a large number of permits with a relatively small administrative burden. Under the general permitting approach, a single generic permit is issued to cover a large number of facilities conducting similar activities within a common geographic area.

In 1972, the federal Clean Water Act (CWA) was amended to provide that the discharge of any pollutants from a point source into surface waters of the United States had to be regulated through the issuance of a National Pollutant Discharge Elimination System (NPDES) permit. Under the CWA, states were given the authority to assume "primacy" to administer the NPDES program and issue such permits. The State of Wyoming obtained primacy in 1974.

The most recent revision of Chapter 2, Wyoming Water Quality Rules and Regulations, was effective as of November 4, 2004, and the Wyoming "National Pollutant Discharge Elimination System" (NPDES) program was renamed the "Wyoming Pollutant Discharge Elimination System" (WYPDES) program. Chapter 2 states that owners or operators of any point source within the State of Wyoming state (except areas within the Wind River Indian Reservation where the state does not have jurisdiction) who propose to commence discharging wastes into the waters of the state must file WYPDES permit applications and obtain a WYPDES permit.

The effluent limits established in the permit are primarily based upon Chapters 1 and 2 of Wyoming Water Quality Rules and Regulations. For some constituents, stock water standards of Chapter 8 are applied, as well as National Effluent Limit guidelines, as indicated in the parameter lists below. Depending upon the type of wastewater discharged and the stream classification of the receiving water, the permit authorization will establish effluent limits to protect the uses that are defined in Chapter 1. Most discharges will be into class 3 or higher waters, therefore, temporary discharges will be required to protect for aquatic life. Discharges to class 2A or 2AB waters will require protection of drinking water sources or aquatic life, whichever is more stringent. Selection of constituents for effluent limits and monitoring requirements in this general permit are based on WDEQ knowledge and experience of these operations from previous versions of the General Permit for Temporary Discharges.

Surface waters of the state have been broadly defined as all permanent and intermittent defined drainages and lakes, reservoirs, and wetlands which are not manmade retention ponds used for the treatment of municipal, agricultural, or industrial waste; and all other bodies of surface water, either public or private, which are wholly or partially within the boundaries of the boundaries of the state. Discharges of pollutants to areas such as fields or roads, which are not considered to be surface waters of the state, are not regulated under the WYPDES program; however, these discharges may fall under the jurisdiction of another program, such as the Water/Wastewater Program.

General Permit for Temporary Discharge Wastewater Produced From Ground Water Well Pump Testing and Development

This permit, **Ground Water Well Pump Testing and Development General Permit**, is for **domestic use water supplies, uranium ground water wells, and oil and gas well development** during drilling operations. *A change from the previous general permit for temporary discharge is the ability to include limits and monitoring for special cases in which the discharge may be contaminated with Trichloroethylene (TCE) or Tetrachloroethylene (PERC or PCE). Based on past WDEQ experience, these special cases are expected to be infrequent.*

Domestic Use Water Well Pump Tests:

“Domestic Use” refers to potable water use for human consumption. WDEQ considers this activity to negligibly impact the quality of receiving waters. A change from the previous general permit for temporary discharge is the ability to include limits and monitoring for special cases in which the discharge may be contaminated with Trichloroethylene (TCE) or Tetrachloroethylene (PERC or PCE).

Default Monitoring and Effluent Limit Requirements:

- Flow, report in gallons per minute
- Duration of discharge, 31 days per well
- Total Suspended Solids, 30 mg/L, Monthly Average (after National Secondary Treatment Standards)
- Total Dissolved Solids, 5000 mg/L, Daily Max (based on stock water standards, Chapter 8)
- pH, 6.5-9.0 Standard Units (based on Chapter 1)

Site Specific Monitoring and Effluent Limit Requirements, if the following constituents are present:

- Trichloroethylene (TCE), 5.0 µg/L, site specific, based on U.S. EPA Maximum Contaminant Levels for Drinking Water
- Tetrachloroethylene (PERC or PCE), 5.0 µg/L, based on Maximum Contaminant Levels for Drinking Water
-

Effluent limits on TCE and PCE are included to ensure treatment for these constituents if they are present. The basis for using MCLs, even to class 3B waters that do not require drinking water protection, WDEQ expects that treatment technology used will be able to treat to these levels.

Well Pump Test for Uranium Wells

This activity involves well pump aquifer tests for prospective uranium operations. Of obvious concern is impact from radionuclides, so the permit includes limits on radium and uranium. Discharge for each well is assumed to be 31 days or fewer in duration. When anticipating discharges more than 31 days in duration, WDEQ may establish stricter effluent limits.

Default Effluent Limits:

- Flow, report in gallons per minute
- Duration of discharge, 31 days per well
- Total Suspended Solids, 30 mg/L, Monthly Average (after National Secondary Treatment Standards)
- Total Dissolved Solids, 5000 mg/L, Daily Maximum (based on stock water standards, Chapter 8)
- pH, 6.5-9.0 Standard Units (Chapter 1)
- Total Recoverable Radium 226, or Total Recoverable Radium 226+228, (Chapter 1 and Implementation Policy for Radium Effluent Limits in WYPDES Permits)
 - *For discharges less than one mile from class 2AB water, the radium limit is 5 pCi/L for total recoverable radium 226 plus 228.*
 - *For discharges between 1 and 2 miles from class 2AB surface water the radium limit is 3 pCi/L limit for total recoverable radium 226.*
 - *For discharges greater than two miles but less than 10 miles to class 2AB water the radium limit is 5 pCi/L of total recoverable radium 226.*

General Permit for Temporary Discharge Wastewater Produced From Ground Water Well Pump Testing and Development

- *For discharges greater than 10 miles from class 2AB water the radium limit is 60 pCi/L for total recoverable radium 226.*
- Total Uranium, 4.0 mg/L, Daily Maximum (40 CFR PART 440—Ore Mining and Dressing Point Source Category)
- Selenium, Total Recoverable, 20 µg/L, Chapter 1, acute aquatic life standard

Effluent Limits, Determined On A Site Specific Basis, if these constituents are present:

- Trichloroethylene (TCE), 5.0 µg/L, site specific, based on U.S. EPA Maximum Contaminant Levels for drinking water.
- Tetrachloroethylene (PERC or PCE), 5.0 µg/L, based on Maximum Contaminant Levels for Drinking water for protection of drinking water or for shallow groundwater

Oil and Gas Well Development

This discharge activity involves encountering a perched artesian aquifer during drilling operations. Usually, discharge duration is 48 hours or less. This permit does not cover discharges during oil and gas well production, upon which permit conditions below are based. WDEQ may establish stricter effluent limits, such as applying chronic aquatic life standards instead of acute, when anticipating discharges more than 48 hours in duration. Permittee may provide hardness data of the discharge, if known, prior to commencement of the discharge to adjust the hardness based standards (marked by a * below) according to the hardness of the water discharged. Otherwise, the default effluent limits will be based on a hardness of 100 mg/L CaCO₃.

Default Monitoring and Effluent Limit Requirements:

- Flow, report in gallons per permit
- Duration of discharge, 31 days per well
- Total Suspended Solids, 90 mg/L, Monthly Average (based on WDEQ's experience for this type of activity)
- Total Dissolved Solids, 5000 mg/L, Daily Maximum (based on stock water standards, Chapter 8)
- pH, 6.5-9.0 Standard Units (based on Chapter 1)
- Hardness (CaCO₃) mg/L, Report
- Specific Conductance, 7,500 mS/cm (based on stock water standards, Chapter 8)
- Sulfates, 3,000 mg/L, Daily Maximum (based on stock water standards, Chapter 8)

All of the following are based on Chapter 1:

- Aluminum, Dissolved, Acute Aquatic Life Standard (see Part I)
- Arsenic, Total Recoverable, Acute Aquatic Life Standard (see Part I)
- Cadmium, Dissolved*, Acute Aquatic Life Standard (see Part I)
- Chloride, 860 mg/L if discharge is to class 2 water
- Chloride, 2000 mg/L if discharge is to class 3 or 4 water (Chapter 8)
- Chromium, Dissolved (III)*, Acute Aquatic Life Standard (see Part I)
- Copper, Dissolved*, Acute Aquatic Life Standard (see Part I)
- Iron, Dissolved, Acute Aquatic Life Standard (see Part I)
- Lead, Dissolved*, Acute Aquatic Life Standard (see Part I)
- Manganese, Dissolved*, Acute Aquatic Life Standard (see Part I)
- Mercury, Dissolved, Acute Aquatic Life Standard (see Part I)
- Nickel, Dissolved*, Acute Aquatic Life Standard (see Part I)
- Oil and Grease, 10 mg/L
- Total Recoverable Radium 226, or Total Recoverable Radium 226+228, (Chapter 1 and Implementation Policy for Radium Effluent Limits in WYPDES Permits)
 - *For discharges less than one mile from the class 2AB water, the radium limit is 5 pCi/L for total recoverable radium 226 plus 228.*

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

- *For discharges between 1 and 2 miles from class 2AB surface water the radium limit is 3 pCi/L limit for total recoverable radium 226.*
- *For discharges greater than two miles but less than 10 miles to class 2AB water the radium limit is 5 pCi/L of total recoverable radium 226.*
- *For discharges greater than 10 miles from class 2AB water the radium limit is 60 pCi/L for total recoverable radium 226.*
- Selenium, Total Recoverable, Acute Aquatic Life Standard (see Part I)
- Silver, Dissolved*, Acute Aquatic Life Standard (see Part I)
- Sulfide-Hydrogen Sulfide (S²⁻, HS⁻), 2 µg/L
- Total Petroleum Hydrocarbons, 10 mg/L
- Zinc, Dissolved*, Acute Aquatic Life Standard (see Part I)

*Hardness based constituents. Values listed above are based on a hardness of 100 mg/L CaCO₃.

Because acute aquatic life values are used, the actual discharge duration must be 31 days or less per well.

Effluent Limits, Determined On A Site Specific Basis, if the following constituents are present:

- Trichloroethylene (TCE), 5.0 µg/L, site specific, based on U.S. EPA Maximum Contaminant Levels for drinking water.
- Tetrachloroethylene (PERC or PCE), 5.0 µg/L, based on Maximum Contaminant Levels for Drinking water for protection of drinking water or for shallow groundwater

OTHER REQUIRMENTS: This general permit for temporary discharge does not cover activities such as discharges of sanitary wastewater, acids, toxic pollutants, hazardous substances, de-icing chemicals, and wastewater associated with washing of mixing drums or chutes on concrete or asphalt trucks.

In order to request coverage under the general permit for temporary discharges, the applicant must complete and submit a "Notice of Intent" (NOI) to the DEQ. The DEQ will review the NOI and determine if the proposed activity is eligible for coverage under this permit or if the activity must be covered under an individual permit. If the proposed activity is eligible for coverage under the general permit, the DEQ will send the operator notification, through a written facility authorization form, that coverage has been granted. The facility authorization form will also list effluent limitations and monitoring requirements.

Once the temporary discharge has terminated, required is submittal of a Notice of Termination along with water analytical results to the DEQ. Following a review, the DEQ will terminate coverage, deny termination, or request additional information.

Discharges to Class 1 waters are not authorized under this permit. See Appendix A for list of Class 1 waters.

If you have any questions or need additional information, contact Roland Peterson, WYPDES Permitting, at 307-777-7090.

The general permit is scheduled to expire on August 31, 2017.

AUTHORIZATION FOR TEMPORARY DISCHARGES UNDER THE
WYOMING POLLUTANT DISCHARGE ELIMINATION SYSTEM
GROUND WATER WELL PUMP TESTING AND DEVELOPMENT

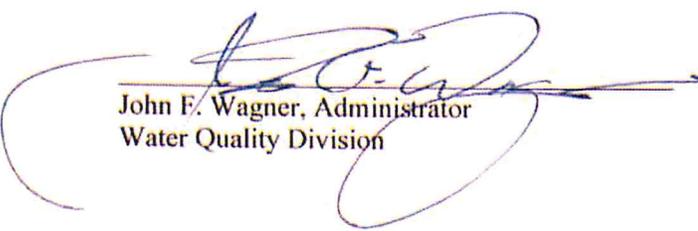
In compliance with the provisions of the federal Water Pollution Control Act, (hereinafter referred to as "the Act"), and the Wyoming Environmental Quality Act, facilities located within the State of Wyoming (except areas within the Wind River Indian Reservation where the state does not have jurisdiction) which may *temporarily discharge wastewater associated* GROUND WATER WELL PUMP TESTING AND DEVELOPMENT are hereby authorized to discharge to surface waters of the State of Wyoming in accordance with the requirements of this permit.

This general WYPDES permit is issued under the provisions of Wyoming Water Quality Rules and Regulations Chapters 1 and 2.

This permit becomes effective on the date of issuance below.

This permit shall expire on August 31, 2017.

Discharges are authorized under this permit only after submission of a Notice of Intent to discharge and a receipt of a Letter of Authorization from the Department of Environmental Quality/Water Quality Division.



John F. Wagner, Administrator
Water Quality Division



John V. Corra, Director
Department of Environmental Quality

Date of Issuance:

11/1/12

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

PART I

A. AUTHORIZATION TO DISCHARGE

1. Coverage Under This Permit

a. Permit Area

This permit covers all areas within the State of Wyoming except areas within the Wind River Indian Reservation where the state does not have jurisdiction.

b. Activities Covered Under This Permit

GROUND WATER WELL PUMP TESTING AND DEVELOPMENT is for testing and development of **domestic use water supplies, uranium ground water wells, and oil and gas well development** during oil and gas wells drilling operations. The water discharged from any of these activities must be relatively uncontaminated and must not have the potential to contribute non-conventional or toxic pollutant loadings to the receiving stream. This permit does not cover discharges during production activities.

Permit authorization coverage will be for one year or less. Actual discharge duration must be for one month or less for each well.

Discharges are authorized under this permit only after submission of a Notice of Intent to discharge and a receipt of a Letter of Authorization from the Department of Environmental Quality/Water Quality Division. The Letter of Authorization will include effluent limit and monitoring requirements, and an expiration date for the site specific coverage. Due to project delays and similar contingencies, the department may modify the authorization to extend the expiration date, if the actual discharge activity occurs for a one month or less duration per well, consistent with the temporary discharge characterization of this permit. There will be no modification to add outfalls or discharge locations. Addition of outfalls or discharge locations will be processed as a separate project, so the permittee may submit a Notice of Intent to request a new Letter of Authorization.

B. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effective immediately the quality of effluent discharged by the facility shall, at a minimum, meet the limitations as set forth below.

Samples shall be taken as often as necessary to provide representative information as to the nature and volume of the discharge(s). At a minimum, the following constituents shall be monitored at the frequency indicated for each type of discharge. For discharges of shorter duration than the listed sampling frequency, a minimum of one sample of each constituent must be collected during the discharge. The Administrator may impose additional monitoring requirements and effluent limits as decided on a case-by-case basis. The self-monitoring requirements will be specified in the facility authorization certification.

Samples taken in compliance with monitoring requirements shall be taken following the final treatment unit and prior to admixture of the effluent with any other waste stream, body of water, or substance.

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

1. WELL PUMP TESTS OF DOMESTIC USE WATER SUPPLIES (Potable Water Use For Human Consumption)			
Parameter	Effluent Limitation	Frequency	Sample Type
Flow, gpm	Report	Daily	Continuous or Instantaneous
Duration of Discharge	Shall not exceed 31 day per well or outfall	Once per discharge (each well or outfall)	Calculated
Total Suspended Solids	The concentration shall not exceed a monthly average of 30 mg/L, a weekly average of 45 mg/L or a daily maximum of 90 mg/L.	Weekly	Grab
Total Dissolved Solids	The concentration shall not exceed 5000 mg/L.	Weekly	Grab
pH, Standard Units	The pH shall not be less than 6.5 nor more than 9.0 standard units.	Daily	Grab
Trichloroethylene* (TCE)	5.0 µg/L	Weekly	Grab
Tetrachloroethylene* (PERC or PCE)	5.0 µg/L	Weekly	Grab
All waters shall be discharged in a manner to prevent erosion, scouring, or damage to stream banks, stream beds, ditches, or other waters of the state at the point of discharge. In addition, there shall be no deposition of substances in quantities which could result in significant aesthetic degradation, or degradation of habitat for aquatic life, plant life or wildlife; or which could adversely affect public water supplies or those intended for agricultural or industrial use.			

*Site-specific requirement, if these constituents are present in detectable amounts.

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

2. WELL PUMP TEST FOR URANIUM WELLS			
Parameter	Effluent Limitation	Frequency	
Flow, gpm	Report	Daily	
Duration of Discharge	Shall not exceed 31 days per well or outfall	Once per discharge (each well or outfall)	
Total Suspended Solids	The concentration shall not exceed a monthly average of 30 mg/L, a weekly average of 45 mg/L or a daily maximum of 90 mg/L.	Weekly	
Total Dissolved Solids	The concentration shall not exceed 5000 mg/L	Weekly	
pH, Standard Units	The pH shall not be less than 6.5 nor more than 9.0 standard units.	Daily	
Total Recoverable Radium 226	<ul style="list-style-type: none"> ○ For discharges between 1 and 2 miles from class 2AB surface water, the radium limit is 3 pCi/L limit for total recoverable radium 226. ○ For discharges greater than two miles but less than 10 miles to class 2AB water, the radium limit is 5 pCi/L of total recoverable radium 226. ○ For discharges greater than 10 miles from class 2AB water, the radium limit is 60 pCi/L for total recoverable radium 226. 	Weekly	
Total Recoverable Radium 226+228	<i>For discharges less than one mile from class 2AB water, the radium limit is 5 pCi/L for total recoverable radium 226 plus 228.</i>	Weekly	
Total Uranium (as U)	4.0 mg/L	Weekly	
Trichloroethylene* (TCE), µg/L	5.0 µg/L	Weekly	
Tetrachloroethylene* (PERC or PCE), µg/L	5.0 µg/L	Weekly	
All waters shall be discharged in a manner to prevent erosion, scouring, or damage to stream banks, stream beds, ditches, or other waters of the state at the point of discharge. In addition, there shall be no deposition of substances in quantities which could result in significant aesthetic degradation, or degradation of habitat for aquatic life, plant life or wildlife; or which could adversely affect public water supplies or those intended for agricultural or industrial use.			

* Site-specific requirement, if these constituents are present in detectable amounts.

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

3. OIL AND GAS WELL DEVELOPMENT			
Parameter	Effluent Limitation	Frequency	Sample Type
Flow, gpm	Report	Daily	Instantaneous or Continuous
Duration of Discharge	Shall not exceed 31 days per well or outfall	Once per discharge (each well or outfall)	Calculated
Total Suspended Solids, mg/L	The concentration shall not exceed a daily maximum of 90 mg/L.	Weekly	Grab
Total Dissolved Solids, mg/L	The concentration shall not exceed 5000 mg/L.	Weekly	Grab
pH, Standard Units	The pH shall not be less than 6.5 nor more than 9.0 standard units.	Daily	Grab
Hardness (CaCO ₃) mg/L	Report	Weekly	Grab
Aluminum, Dissolved	750 µg/L	Weekly	Grab
Arsenic, Total Recoverable	340 µg/L	Weekly	Grab
Cadmium, Dissolved*	2.0 µg/L	Weekly	Grab
Chloride, class 3 or 4 water	2000 mg/L	Weekly	Grab
Chloride, class 2 water	860	Weekly	Grab
Chromium, Dissolved (III)*	569.8 µg/L	Weekly	Grab
Copper, Dissolved*	13.4 µg/L	Weekly	Grab
Iron, Dissolved	1000 µg/L	Weekly	Grab
Lead, Dissolved*	64.6 µg/L	Weekly	Grab
Manganese, Dissolved*	3110 µg/L	Weekly	Grab
Mercury, Dissolved	1.4 µg/L	weekly	Grab
Nickel, Dissolved*	468.2 µg/L	Weekly	Grab
Oil and Grease	10 mg/L	Weekly	Grab

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

3. OIL AND GAS WELL DEVELOPMENT			
Parameter	Effluent Limitation	Frequency	Sample Type
Total Recoverable Radium 226	<ul style="list-style-type: none"> ○ For discharges between 1 and 2 miles from class 2AB surface water the radium limit is 3 pCi/L limit for total recoverable radium 226. ○ For discharges greater than two miles but less than 10 miles to class 2AB water the radium limit is 5 pCi/L of total recoverable radium 226. ○ For discharges greater than 10 miles from class 2AB water the radium limit is 60 pCi/L for total recoverable radium 226. 	Weekly	Grab
Total Recoverable Radium 226+228	For discharges less than one mile from class 2AB water, the radium limit is 5 pCi/L for total recoverable radium 226 plus 228.	Weekly	Grab
Selenium, Total Recoverable	20 µg/L	Weekly	Grab
Silver, Dissolved*	3.4 µg/L	Weekly	Grab
Specific Conductance	7500 mS/cm	Weekly	Grab
Sulfates	3000 mg/L	Weekly	Grab
Sulfide-Hydrogen Sulfide (S ²⁻ , HS ⁻)	2 µg/L	Weekly	Grab
Total Petroleum Hydrocarbons	10 mg/L	Weekly	Grab
Zinc, Dissolved*	117.1 µg/L	Weekly	Grab
Because acute aquatic life values are used, the actual discharge duration must be one month or less per well.			

***Hardness Dependent Constituents**

Equations For Parameters With Hardness Dependence

The following equations include the conversion factors to derive the dissolved metals values, acute aquatic life standards per Chapter 1:

	Acute Concentration (µg/L)
Cadmium	$e^{(1.0166 [\ln(\text{hardness})]-3.924)}(\text{CF})$
Chromium(III)	$e^{(0.8190 [\ln(\text{hardness})] +3.7256)}(0.316)$
Copper	$e^{(0.9422 [\ln(\text{hardness})]-1.700)}(0.960)$
Lead	$e^{(1.273 [\ln(\text{hardness})]-1.460)}(\text{CF})$
Manganese	$e^{(0.7693[\ln(\text{hardness})]+4.4995)}$
Nickel	$e^{(0.8460 [\ln(\text{hardness})]+2.255)}(0.998)$
Silver	$e^{(1.72 [\ln(\text{hardness})]-6.52)}(0.85)$
Zinc	$e^{(0.8473 [\ln(\text{hardness})]+0.884)}(0.978)$

Permittee may provide hardness data of the discharge, if known, prior to commencement of the discharge. WDEQ will adjust the effluent limits accordingly. Otherwise, the default effluent limits will be based on a hardness of 100 mg/L CaCO₃. Hardness values used in the above equations will be a maximum of 400 mg/L, for example, if the hardness of the discharge is above 400 mg/L. Hardness equations are based on Chapter 1.

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

All waters shall be discharged in a manner to prevent erosion, scouring, or damage to stream banks, stream beds, ditches, or other waters of the state at the point of discharge. In addition, there shall be no deposition of substances in quantities which could result in significant aesthetic degradation, or degradation of habitat for aquatic life, plant life or wildlife; or which could adversely affect public water supplies or those intended for agricultural or industrial use.

C. Request for Authorization

1. Notice of Intent

In order to be considered eligible for authorization to discharge wastewater under the terms and conditions of this permit, the owner, operator, and/or authorized agent of any facility desiring to discharge wastewater must submit a Notice of Intent (NOI) to the Administrator on a form provided by the Administrator. The NOI must be submitted at least 30 days prior to the first anticipated date of discharge and at a minimum must contain the following information:

- (1) Name, address, and descriptive location of the facility, including quarter section, township and range, latitude and longitude;
- (2) Name, address and phone number of principal in charge of operation of the facility and the owner;
- (3) Names of the drainage and water body receiving or potentially receiving the discharge (including irrigation ditches, intermittent streams and dry drainages);
- (4) Distance the effluent must travel before reaching the immediate receiving stream and the first live waters (live water is any stream, lake or other water body which contains water year-around);
- (5) A brief description of the type of activity resulting in the discharge such as groundwater pump and treat, including the anticipated date for commencement of the discharge, expected duration of the discharge, expected termination date of the discharge, average and maximum flow rate of the discharge, the source of water which is to be discharged and the total expected volume of the discharge;
- (6) A brief description of the type of water treatment process to be employed (including recycling or reuse);
- (7) A map and/or schematic diagram showing the area of the activity, location of the discharge, and the location of any treatment system employed;
- (8) A list of all potential pollutants and the expected concentrations in the wastewater to be discharged;
- (9) If the discharge is to a storm sewer system, ditch, or other man made conveyance, approval from the owner of the system must be obtained, and attached to the NOI;
- (10) A description of the erosion control measures that will be implemented to prevent significant damage to or erosion of the receiving water channel.

The NOI and any supplemental information shall be submitted to:

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Wyoming Department of Environmental Quality
Water Quality Division - WYPDES Program
122 West 25th Street (4th Floor West)
Cheyenne, Wyoming 82002

The administrator shall review each NOI and make a completeness determination within 30 days of receipt of the NOI. If the NOI is deemed incomplete, the applicant will be notified describing the additional information needed within 45 days of receipt of the NOI.

An NOI must be filed and coverage must be granted in writing under this permit prior to the start of the discharge.

2. Agreement to Comply.

Submission of the NOI to the Department constitutes full agreement by the operator to meet and comply with all requirements of this general permit.

3. Criteria for Coverage Under General Permit

a. Evaluation of whether or not an individual permit may be required instead of a general permit, is subject to one or more of the following criteria:

- (1) Will the discharge result in exceedance of the Total Maximum Daily Load (TMDL) established for any pollutant in the receiving water;
- (2) Is the receiving water listed as an impaired waterbody in need of TMDL development on the most recent 303(d) list;
- (3) Beneficial uses of the receiving water may be adversely impacted;
- (4) The need to preserve high quality waters;
- (5) Addition of chemicals (such as chlorine or flocculent) to water prior to discharge;
- (6) Failure of the effluent to pass a Whole Effluent Toxicity (WET) test, when required;
- (7) Potential for the effluent to cause a violation(s) of water quality standards in the receiving water(s);
- (8) Differences in ambient water quality, including temperature and flow, between the effluent and receiving waters;
- (9) An anti-degradation review showing that the discharge would cause unacceptable degradation of the receiving waters;
- (10) Total anticipated volume of the discharge;
- (11) Surface water classification (discharges to Class 1 surface waters are not authorized under this permit); and/or

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- (12) Coverage under a more specific permit (those facilities already covered under a more specific general permit and/or an individual permit will not be granted coverage under this permit).

4. Notice of Transfer and Acceptance

When responsibility for temporary discharge activity changes from one operator to another, the current and future permittee shall submit a completed Notice of Transfer and Acceptance . The certification must be signed by both parties in accordance with Part II.A.11 of this permit. The certification shall be submitted to DEQ within 14 days of the change in operator. The transfer form is available from DEQ. If requested by the Administrator, a NOI shall be submitted by the new permittee and a NOT shall be submitted by the current permittee.

5. Notice of Termination

Once the temporary discharge has terminated, a Notice of Termination (NOT) along with water analytical results must be submitted to the DEQ. Following a review, the DEQ will terminate coverage, deny termination, or request additional information. The permittee will receive a written confirmation of the DEQ's actions. Compliance with the conditions of this permit is required when an NOT has been submitted and accepted by the Department.

6. Definitions

Concentration Values

- a. **“Daily Maximum (mg/L)”** - The highest single reading from any grab or composite sample collected during the reporting period.
- b. **“Monthly Average (mg/L)”** - The arithmetic mean of all composite and/or grab samples collected during a calendar month.
- c. **“Weekly Average (mg/L)”** - The arithmetic mean of all composite and/or grab samples collected during any week. A week begins at 12:01 a.m. Sunday morning and ends at 12:00 midnight Saturday evening.

Quantity Values

- d. **“Daily Maximum”** - The highest single daily quantity reading (See Calculations below) recorded during the reporting period.
- e. **“Monthly Average”** - The arithmetic mean of all the daily quantity readings (See Calculations below) recorded during a calendar month.
- f. **“Weekly Average”** - The arithmetic mean of all the daily quantity readings (See Calculations below) recorded during a week. A week begins at 12:01 a.m. Sunday morning and ends at 12:00 midnight Saturday evening.

Flow Values

- g. **“Daily Flow”** - The flow volume recorded on any single day. The daily flow volume may be determined by using an instantaneous reading (if authorized by this permit) or a continuous recorder.

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- h. **“Daily Maximum Flow”** - The highest single daily flow reading recorded during a reporting period.
- I. **“Monthly Average Flow”** - The arithmetic mean of all daily flow values recorded during a calendar month.
- j. **“Weekly Average Flow”** - The arithmetic mean of all daily flow values recorded during a week. A week begins at 12:01 a.m. on Sunday morning and ends at 12:00 midnight Saturday evening.

Calculations

- k. **“Daily Quantity (kg/day)”** - The quantity, in kilograms per day, of pollutant discharged on a single day. The daily quantity shall be calculated by multiplying the composite or grab sample concentration value for that day in milligrams/liter (mg/L) times the flow volume (in millions of gallons per day - MGD) for that day times 3.78. If a flow volume reading for the day the sample is collected is not available, the average flow volume reading for the entire reporting period shall be used.
- L. **“Daily Quantity (#/day)”** - The quantity, in number per day, of bacteria or other pollutants discharged on a single day. The number per day shall be calculated by multiplying the composite or grab sample result for that day, in number per 100 milliliters (#/100 ml), times the flow volume (in millions of gallons per day - MGD) times 3.78×10^7 . If a flow volume reading for the day the sample is collected is not available, the average flow volume reading for the entire reporting period shall be used.

Miscellaneous Definitions

- m. **“Administrator”** means the Administrator of the Water Quality Division (WQD), Wyoming Department of Environmental Quality or his or her authorized agent.
- n. **“Best Management Practices”** (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the state. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
- o. **“Bypass”** means the intentional diversion of waste streams from any portion of a treatment facility.
- p. A **"composite"** sample, for monitoring requirements, is defined as a minimum of four grab samples collected at equally spaced two hour intervals and proportioned according to flow.
- q. **“CWA”** means the federal Clean Water Act or the Federal Water Pollution Control Act.
- r. **“Ephemeral Stream”** means a stream which flows only in direct response to a single precipitation in the immediate watershed or in response to a single snow melt event, and which has a channel bottom that is always above the prevailing water table.
- s. **"GPM,"** for monitoring requirements, is defined as gallons per minute.

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- t. A “**grab**” sample, for monitoring requirements, is defined as a single “dip and take” sample collected at a representative point in the discharge stream.
- u. “**Hazardous Constituents**” is defined as those constituents listed in Chapter 2, Appendix H of the Wyoming Department of Environmental Quality Hazardous Waste Rules and Regulations or any approved subset thereof.
- v. “**Hazardous Substance**” is defined as any substance, other than oil, which, when discharged in any quantities into waters of the U.S., presents an imminent and substantial danger to the public health or welfare, including but not limited to fish, shellfish, wildlife, shorelines and beaches (Section 311 of the CWA); identified by EPA as the pollutants listed under 40 CFR Part 116.
- w. An “**impaired waterbody**” is defined as a waterbody in which the beneficial uses are not fully attained.
- x. An “**instantaneous**” measurement for monitoring requirements is defined as a single reading, measurement, or observation.
- y. An “**intermittent stream**” means a stream or part of a stream that is below the local water table for some part of the year, but is not a perennial stream.
- z. “**MGD,**” for monitoring requirements, is defined as million gallons per day.
- aa. “**Net**” value, if noted under Effluent Characteristics, is calculated on the basis of the net increase of the individual parameter over the quantity of that same parameter present in the intake water measured prior to any contamination or use in the process of this facility. Any contaminants contained in any intake water obtained from underground wells shall not be adjusted for as described above and, therefore, shall be considered as process input to the final effluent. Limitations in which “net” is not noted are calculated on the basis of gross measurements of each parameter in the discharge, irrespective of the quantity of those parameters in the intake waters.
- bb. “**Non-conventional Pollutants**” are all pollutants that are not included in the list of conventional or toxic pollutants as described in 40 CFR Part 401.
- cc. “**Surface Waters of the State of Wyoming**” means all perennial, intermittent and ephemeral defined drainages and lakes, reservoirs, and wetlands which are not manmade retention ponds used for the treatment of municipal, agricultural, or industrial waste; and all other bodies of surface water, either public or private, which are wholly or partially within the boundaries of the state. Nothing in this definition is intended to expand the scope of the Environmental Quality Act as limited in W.S. 35-11-1104.
- dd. “**Toxic Pollutant**” is defined as pollutants or combination of pollutants, including disease-causing agents, which after discharged and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will, on the basis of information available to the Administrator of EPA, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, (including malfunctions in reproduction) or physical deformations, in such organisms or their offspring. Toxic pollutants also include those pollutants listed by the Administrator under CWA Section 307 (a)(1) or any pollutant listed under Section 405(d) which related to sludge management.

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- ee. **"Total Maximum Daily Load (TMDL)"** is defined as the amount of pollutant, or property of a pollutant, from point, nonpoint, and natural background sources, that may be discharged to a water quality-limited receiving water. Any pollutant loading above the TMDL results in violation of applicable water quality standards.

7. Terms, Conditions and Specific Limitations

a. General Limitations

- (1) Discharges are not allowed that include soaps, degreasers, detergents, surfactants, antifreeze, deicers, or any hazardous constituents and hazardous substances under this permit unless the permit establishes an effluent limit for that constituent.
- (2) No chemicals are to be added to the discharge unless permission for the use of a specific chemical is granted by DEQ/WQD. It is the responsibility of the applicant to provide this information on the NOI. Additional limitations and monitoring may be imposed in these cases.
- (3) Discharges are not allowed that include solvents, acids, caustics, halogenated hydrocarbons, biocides, or chemicals which are not readily biodegradable and which could adversely affect water quality or aquatic life.
- (4) Discharges from permanent dairy operations, livestock or poultry production operations, animal feeding operations, permanent or long term stable or kennel facilities, or animal waste storage or handling facilities are not covered under this permit.
- (5) Discharges are not allowed which contain wastewater from washing of the interior of bulk tanker trucks, areas in which aircraft de-icing chemicals are used, in-stream boat washing, washing the mixing drums or chutes on concrete or asphalt trucks, or hydro blasting (the use of abrasive slurries for cleaning purposes or the removal of paint).
- (6) There shall be no discharge of sanitary wastewater from toilets, septic tanks, or related facilities.
- (7) There shall be no discharge of solid animal waste, food waste or vegetative wastes (grass, leaves, manure, garbage, etc.).
- (8) There shall be no discharge of floating solids or visible foam in other than trace amounts.
- (9) Bulk storage structures for fuels and other chemicals shall have adequate protections so as to contain all spills and prevent any spilled material from entering the effluent stream or waters of the State.
- (10) This permit does not constitute authorization under 33 U.S.C. 1344 (Section 404 of the Clean Water Act) of any stream dredging or filling operations.
- (11) The discharge of chlorinated water (including potable tap water) shall not be allowed unless it can be demonstrated that the chlorine substantially dissipates to non-detectable levels prior to discharge and possesses no potential for toxic

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impacts to live waters. Any total residual chlorine sample results less than 0.05 mg/L will be considered non-detectable.

- (12) The permittee must notify the permitting authority of the termination of the discharge by submitting a Notice of Termination provided by the Administrator.
- (13) Discharges to Class 1 waters are not authorized under this permit. See Appendix A for list of Class 1 waters.
- (14) There shall be no discharge of floating solids or visible foam in other than trace amounts, nor shall the discharge cause formation of a visible sheen or visible hydrocarbon deposits on the bottom or shoreline of the receiving water.

8. Continuation of Coverage Under a Renewed Permit

Facilities or projects that have active coverage under the previous general permit for temporary discharges, which expires on August 31, 2012, are automatically covered under this permit until December 31, 2012. This applies to the appropriate categories (discharges of contaminated ground water) under the previous permit that apply to this new permit.

All permittees that receive coverage under this automatic process must submit an NOI, or other form as provided by the Administrator, to this office by November 30, 2012 to maintain coverage under this general permit. Operators who fail to do so will have their coverage under this permit terminated and may be subject to an enforcement action.

9. Reporting

For all activities listed in Part I.A.1.b (1) through (5), copies of all effluent monitoring results obtained during the discharge shall be submitted on forms provided by the Department to the Wyoming Department of Environmental Quality, WYPDES Compliance, monthly (on or before the 28th of each month for activities occurring the previous month).

For activities listed in Part I.A.1.b.(6) only, effluent monitoring results obtained during the previous three months shall be summarized and reported on a Discharge Monitoring Report Form and submitted to the Wyoming Department of Environmental Quality.

Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the Signatory Requirements (see Part II.A.11), and submitted to:

Wyoming Department of Environmental Quality
Water Quality Division, WYPDES Compliance
Herschler Building, 4 West
122 West 25th Street
Cheyenne, WY 82002
Telephone: (307) 777-7781

If no discharge occurs during the reporting period, "no discharge" shall be reported. If the discharge is intermittent during the reporting period, sampling shall be done while the facility is discharging.

Nothing in this permit in any way relieves the permittee from complying with water quality standards as defined in Wyoming Department of Environmental Quality Rules and Regulations and/or the Environmental Quality Act or any other local, state, or federal regulations.

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10. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and approval by, the permit issuing authority.

11. Test Procedures

Test procedures for the analysis of pollutants, collection of samples, sample containers, sample preservation, and holding times, shall conform to regulations published pursuant to 40 CFR, Part 136, unless other test procedures have been specified in this permit.

12. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling;
- b. The dates and times the analyses were performed;
- c. The person(s) who performed the analyses and collected the samples;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine the results.
- f. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

13. Fees

All WYPDES general permit authorizations are subject to a \$100 annual permit fee for as long as the authorization is active or until the general permit expires. The annual billing cycle is based calendar year, January 1 through December 31. See the Wyoming Environmental Quality Act §35-11-312 for further information.

All parties who have held an authorization under this permit for any part of the 12 months prior to December 31 will be billed \$100 per authorization held. The fee is not prorated for part year ownership.

When an authorization is transferred all parties who held the authorization in that fiscal year will receive invoices for \$100. The fee is not prorated for part-year ownership.

14. Records Retention

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The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the administrator at any time. Data collected on site, copies of Discharge Monitoring Reports and a copy of this WYPDES permit must be maintained on site during the duration of activity at the permitted location.

15. Penalties for Tampering

The Act provides that any person who falsifies, tampers with or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or both.

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PART II

A. **MANAGEMENT REQUIREMENTS**

1. **Changes**

The permittee shall give notice to the administrator of the Water Quality Division as soon as possible of any physical alterations or additions to the permitted facility. Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as determined in 40 CFR 122.29 (b); or
- b. The alteration or addition could change the nature or increase the quantity of pollutants discharged.

2. **Noncompliance Notification**

- a. The permittee shall give advance notice of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- b. The permittee shall report any noncompliance which may endanger health or the environment as soon as possible, but no later than 24 hours from the time the permittee first became aware of the circumstances. The report shall be made to the Water Quality Division, Wyoming Department of Environmental Quality at (307) 777-7781.
- c. For any incidence of noncompliance, including noncompliance related to non-toxic pollutants or non-hazardous substances, a written submission shall be provided within five (5) days of the time that the permittee becomes aware of the noncompliance circumstance.

The written submission shall contain:

- (1) A description of the noncompliance and its cause;
 - (2) The period of noncompliance, including exact dates and times;
 - (3) The estimated time noncompliance is expected to continue if it has not been corrected; and
 - (4) Steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance.
- d. The following occurrences of unanticipated noncompliance shall be reported by telephone to the Water Quality Division, WYPDES Program (307) 777-7781 by the first workday following the day the permittee became aware of the circumstances.
- (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit; or
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit.

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- e. The administrator of the Water Quality Division may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Water Quality Division, WYPDES Program (307) 777-7781. Reports shall be submitted to the Wyoming Department of Environmental Quality at the address in Part I under Reporting.
- f. The permittee shall report all instances of noncompliance that have not been specifically addressed in any part of this permit at the time the monitoring reports are due.

3. Facilities Operation

The permittee shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. However, the permittee shall operate, as a minimum, one complete set of each main line unit treatment process whether or not this process is needed to achieve permit effluent compliance.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to waters of the state resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Bypass of Treatment Facilities

- a. Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- b. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c. and d. of this section. Return of removed substances to the discharge stream shall not be considered a bypass under the provisions of this paragraph.
- c. Notice:
 - (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice at least 60 days before the date of the bypass.
 - (2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part II.A.2.
- d. Prohibition of bypass.
 - (1) Bypass is prohibited and the administrator of the Water Quality Division may take enforcement action against a permittee for a bypass, unless:
 - (a) The bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed to prevent a bypass

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which occurred during normal periods of equipment downtime or preventive maintenance; and

- (c) The permittee submitted notices as required under paragraph c. of this section.
- e. The administrator of the Water Quality Division may approve an anticipated bypass, after considering its adverse effects, if the administrator determines that it will meet the three conditions listed above in paragraph d. (1) of this section.

6. Upset Conditions

- a. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improper designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- b. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph c. of this section are met.
- c. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required under Part II.A.2; and
 - (4) The permittee complied with any remedial measures required under Part II.A.4.
- d. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

7. Removed Substances

Solids, sludges, filter backwash or other pollutants removed in the course of treatment or control of wastewaters or intake waters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the state.

8. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with a schedule of compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities; or
- b. If such alternative power source as described in paragraph a. above is not in existence and no date for its implementation appears in Part I, take such precautions as are necessary to maintain and operate the

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facility under its control in a manner that will minimize upsets and insure stable operation until power is restored.

9. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal act and the Wyoming Environmental Quality Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give the administrator of the Water Quality Division advance notice of any planned changes at the permitted facility or of any activity which may result in permit noncompliance.

10. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

11. Signatory Requirements

All applications, reports or information submitted to the administrator of the Water Quality Division shall be signed and certified.

- a. All permit applications shall be signed as follows:
 - (1) For a corporation: by a responsible corporate officer;
 - (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
 - (3) For a municipality, state, federal or other public agency: by either a principal executive officer or ranking elected official.

- b. All reports required by the permit and other information requested by the administrator of the Water Quality Division shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above and submitted to the administrator of the Water Quality Division; and
 - (2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

- c. If an authorization under paragraph II.A.11.b. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph II.A.11.b must be submitted to the administrator of the Water Quality Division prior to or together with any reports, information or applications to be signed by an authorized representative.

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d. Any person signing a document under this section shall make the following certification:

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

B. RESPONSIBILITIES

1. Inspection and Entry

If requested, the permittee shall provide written certification from the surface landowner(s), if different than the permittee, that the administrator or the administrator's authorized agent has access to all physical locations associated with this permit including well heads, discharge points, reservoirs, monitoring locations, and any waters of the state.

The permittee shall allow the administrator of the Water Quality Division or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and
- d. Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the federal act, any substances or parameters at any location.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the regional administrator of the Environmental Protection Agency and the administrator of the Water Quality Division. The administrator of the Water Quality Division shall then provide written notification to the new owner or controller of the date in which they assume legal responsibility of the permit. The permit may be modified or revoked and reissued to change the name of the permittee and incorporate such other requirements as described in the federal act.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the federal act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Wyoming Department of Environmental Quality and the regional administrator of the Environmental Protection Agency. As required by the federal act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the federal act.

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4. Toxic Pollutants

The permittee shall comply with effluent standards or prohibitions established under Section 307 (a) of the federal act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Changes in Discharge of Toxic Substances

Notification shall be provided to the administrator of the Water Quality Division as soon as the permittee knows of, or has reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 µg/l);
 - (2) Two hundred micrograms per liter (200 µg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
 - (3) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21 (g) (7); or
 - (4) The level established by the director of the Environmental Protection Agency in accordance with 40 CFR 122.44 (f).

- b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 µg/l);
 - (2) One milligram per liter (1 mg/l) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21 (g) (7); or
 - (4) The level established by the director of the Environmental Protection Agency in accordance with 40 CFR 122.44 (f).

6. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. As long as the conditions related to the provisions of "Bypass of Treatment Facilities" (Part II.A.5), "Upset Conditions" (Part II.A.6), and "Power Failures" (Part II.A.8) are satisfied then they shall not be considered as noncompliance.

7. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

permitted activity in order to maintain compliance with the conditions of this permit.

8. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the federal act.

9. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state or federal law or regulation. In addition, issuance of this permit does not substitute for any other permits required under the Clean Water Act or any other federal, state, or local law.

10. Property Rights

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

11. Duty to Provide Information

The permittee shall furnish to the administrator of the Water Quality Division, within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the administrator, upon request, copies of records required by this permit to be kept.

12. Other Information

When the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or any report to the administrator of the Water Quality Division, it shall promptly submit such facts or information.

13. Permit Action

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

PART III

A. OTHER REQUIREMENTS

1. Flow Measurement

At the request of the administrator of the Water Quality Division, the permittee must be able to show proof of the accuracy of any flow measuring device used in obtaining data submitted in the monitoring report. The flow measuring device must indicate values of within plus or minus ten (10) percent of the actual flow being measured.

2. 208(b) Plans

This permit may be modified, suspended or revoked to comply with the provisions of any 208(b) plan certified by the Governor of the State of Wyoming.

3. Reopener Provision

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations (and compliance schedule, if necessary) or other appropriate requirements if one or more of the following events occurs:

- a. The state water quality standards of the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit;
- b. A total maximum daily load (TMDL) and/or watershed management plan is developed and approved by the state and/or the Environmental Protection Agency which specifies a wasteload allocation for incorporation in this permit;
- c. A revision to the current water quality management plan is approved and adopted which calls for different effluent limitations than contained in this permit;
- d. Downstream impairment is observed and the permitted facility is contributing to the impairment;
- e. The limits established by the permit no longer attain and/or maintain applicable water quality standards;
- f. The permit does not control or limit a pollutant that has the potential to cause or contribute to a violation of a state water quality standard.
- g. If new applicable effluent guidelines and/or standards have been promulgated and the standards are more stringent than the effluent limits established by the permit.
- h. If an Interstate Memorandum of Cooperation exists, effluent limits may be incorporated into this permit or existing limits may be modified to ensure that the appropriate criteria, water quality standards and assimilative capacity are attained.

4. Permit Modification

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

**General Permit for Temporary Discharge
Wastewater Produced From Ground Water Well Pump Testing and Development**

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- d. If necessary to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b) (2) (C) and (D), 304 (b) (2) and 307 (a) (2) of the federal act, if the effluent standard or limitation so issued or approved:
- e. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- f. Controls any pollutant not limited in the permit.

5. Toxicity Limitation - Reopener Provision

This permit may be reopened and modified (following proper administrative procedures) to include a new compliance date, additional or modified numerical limitations, a new or different compliance schedule, a change in the whole effluent protocol or any other conditions related to the control of toxicants if one or more of the following events occur:

- a. Toxicity was detected late in the life of the permit near or past the deadline for compliance;
- b. The TRE results indicate that compliance with the toxic limits will require an implementation schedule past the date for compliance and the permit issuing authority agrees with the conclusion;
- c. The TRE results indicate that the toxicant(s) represent pollutant(s) that may be controlled with specific numerical limits and the permit issuing authority agrees that numerical controls are the most appropriate course of action;
- d. Following the implementation of numerical controls on toxicants, the permit issuing authority agrees that a modified whole effluent protocol is necessary to compensate for those toxicants that are controlled numerically;
- e. The TRE reveals other unique conditions or characteristics which, in the opinion of the permit issuing authority, justify the incorporation of unanticipated special conditions in the permit.

6. Severability

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

7. Penalties for Falsification of Reports

The federal act provides that any person who knowingly makes any false statement, representation or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation or by imprisonment for not more than two years per violation or both.

General Permit for Temporary Discharge Wastewater Produced From Aquifer Discharges

APPENDIX A

Class 1 Waters of the State

1. All surface waters located within the boundaries of national parks and congressionally designated wilderness areas as of January 1, 1999;
2. The main stem of the Snake River through its entire length above the U.S. Highway 22 Bridge (Wilson Bridge);
3. The main stem of the Green River, including the Green River Lakes from the mouth of the New Fork River upstream to the wilderness boundary;
4. The Main Stem of the Wind River from the Wedding of the Waters upstream to Boysen Dam;
5. The main stem of the North Platte River from the mouth of Sage Creek (approximately 15 stream miles downstream of Saratoga, Wyoming) upstream to the Colorado state line;
6. The main stem of the North Platte River from the headwaters of Pathfinder Reservoir upstream to Kortez Dam (Miracle Mile segment);
7. The main stem of the North Platte River from the Natrona County Road 309 bridge (Goose Egg Bridge) upstream to Alcova Reservoir;
8. The main stem of Sand Creek above the U.S. Highway 14 bridge;
9. The main stem of the Middle Fork of the Powder River through its entire length above the mouth of Buffalo Creek;
10. The main stem of the Tongue River, the main stem of the North Fork of the Tongue River, and the main stem of the South Fork of the Tongue River above the U.S. Forest Service Boundary;
11. The main stem of the Sweetwater River above the mouth of Alkali Creek;
12. The main stem of the Encampment River from the northern U.S. Forest Service boundary upstream to the Colorado state line;
13. The main stem of the Clarks Fork River from the U.S. Forest Service boundary upstream to the Montana state line;
14. All waters within the Fish Creek (near Wilson, Wyoming) drainage;
15. The main stem of Granite Creek (tributary of the Hoback River) through its entire length;
16. Fremont Lake;

**General Permit for Temporary Discharge
Wastewater Produced From Aquifer Discharges**

17. Wetlands adjacent to the above listed Class 1 waters.
18. National Parks and Wilderness Areas. All surface waters located within the boundaries of Yellowstone and Grand Teton National Parks and congressionally designated wilderness areas as of January 1, 1999 are Class 1 waters. Such Class 1 designation always takes precedence over the classification given in the listing. For example, Dinwoody Creek is shown as a Class 2 water; however, the upper portions are within a wilderness area and those portions are Class 1. The portion below the wilderness boundary is Class 2.

LJC/bb/12-1066



Wyoming Pollutant Discharge Elimination System (WYPDES)

Department of Environmental Quality
Application for Permit to Discharge Wastewater for:

Notice of Intent for Temporary Discharges Involving Ground Water Well Pump Testing and Development

Modified June 12, 2013

RECEIVED

FEB 12 2016

DEQ WATER QUALITY

The general permit for temporary discharges currently authorizes the discharge of wastewater to surface waters of the state associated with:

- Well pump tests of domestic use water supplies
- Well pump tests for uranium testing
- Aquifer discharge from oil and gas wells

The water discharge from any of these activities must be relatively uncontaminated and must not have the potential to contribute non-conventional or toxic pollutant loadings to the receiving stream. Generally, no trans-basin transfer of surface water will be allowed, in order to prevent spreading of whirling disease spores, non-native species and other nuisance aquatic life organisms. Discharges must be of short duration, lasting no longer than one year.

For more details such as effluent limits and monitoring requirements, please read and review the General Permit for Temporary Discharge Involving Aquifer Discharges found on-line at http://deq.state.wy.us/wqd/WYPDES_Permitting/index.asp

Mail or hand deliver the application to:

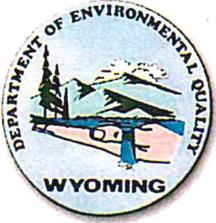
WYPDES Permits Section
Department of Environmental Quality/WQD
122 West 25th Street, Herschler Building, 4W
Cheyenne, WY 82002

(An original signature of the applicant is required. Faxes cannot be accepted)

When to file: The Notice of Intent (NOI) must be submitted at least 30 days prior to the first anticipated date of discharge.

General Application Instructions:

1. Please provide as much information as possible on the application form. Additional spaces may be inserted in the application form to accommodate additional information.
2. Please provide a response to ALL items, even if it is to indicate that the item is "not applicable". Leaving items blank may result in the application being returned as incomplete.
3. Provide a map of the area of activity including the area of the activity, location of the discharge point, direction of discharge flow, location of any treatment units, and the location of all receiving waters.
4. Please provide an email address when possible. Once a temporary discharge permit is issued, a copy may be emailed which may expedite the permit.



Wyoming Pollutant Discharge Elimination System (WYPDES)

Department of Environmental Quality
 Application for Permit to Discharge Wastewater for:

*Notice of Intent for Temporary Discharge Involving
 Ground Water Well Pump Testing and Development*

Modified June 12, 2013

WYG720377

Official Use Only
 RECEIVED
 FEB 12 2016
 DEQ WATER QUALITY

- ✓ Please print or type. Submission of illegible materials will result in return of the application to the applicant.
- ✓ All items must be completed accurately and in their entirety or the application will be deemed incomplete and the processing will be delayed or application returned.
- ✓ An original signature of the applicant is required. Faxes cannot be accepted.
- ✓ The Notice of Intent (NOI) must be submitted at least 30 days prior to the first anticipated date of discharge.

1. Check the box (es) corresponding to the type of application being applied for:

- Well pump test of domestic use water supplies
- Well pump test for uranium testing
- Aquifer discharge from oil and gas wells

2. Contact Information:

<i>Permit Applicant Contact Name:</i> Michael E. Sordan, Project Mngr.	<i>Local Facility Contact Name:</i> <input type="checkbox"/> Same As Permit Applicant Zane Green, P.E. Project Representative
<i>Company Name:</i> Layne Christensen Company	<i>Company Name:</i> Morrison-Maierle, Inc.
<i>Mailing Address:</i> 12030 E. Riggs Road	<i>Mailing Address:</i> 2200 Foothills Blvd, Suite A
<i>City, State, and Zip Code:</i> Chandler, AZ 85249	<i>City, State, and Zip Code:</i> Gillette, WY 82716
<i>Telephone Number:</i> 863-287-6055	<i>Telephone Number:</i> 307-687-1812
<i>Fax number:</i> 480-895-8699	<i>Fax number:</i> n/a
<i>E-Mail Address:</i> michael.sordan@layne.com	<i>E-Mail Address:</i> zgreen@m-m.net

<i>Billing Contact Name:</i> n/a	<input type="checkbox"/> <i>Same As Permit Applicant</i>	<i>If Applicable, Other Contact Name:</i> n/a
<i>Company Name:</i>		<i>Company Name:</i>
<i>Mailing Address:</i>		<i>Mailing Address:</i>
<i>City, State, and Zip Code:</i>		<i>City, State, and Zip Code:</i>
<i>Telephone Number:</i>		<i>Telephone Number:</i>
<i>Fax number:</i>		<i>Fax number:</i>
<i>E-Mail Address:</i>		<i>E-Mail Address:</i>

3. Project information:

<i>Project Name:</i> Gillette Madison Pipeline Project - Madison Production Wells
<i>Street Address (if applicable):</i> ~ 16 miles north of Moorcroft, WY off US Route 14

4. Project description:

<i>Briefly describe the project:</i> Construct & test three new public water supply wells for the City of Gillette, WY - target aquifer is the Madison Group limestone, appr. top 2400' below ground surface.	
<i>Date when project is planned to start (MM/DD/YR):</i> 12/15/15	<i>Date when project is planned to end (MM/DD/YR):</i> 08/30/2016
<i>Duration of discharge (days):</i> Each well - Intermediate test ~ 1200gpm for 24 hrs Final test ~ 1800 gpm for 168 hrs	

5. Outfall location (Additional spaces may be added as necessary):

Outfall(s)	Quarter/Quarter	Section	Township	Range	Latitude in NAD 83 decimal degrees accurate to a minimum of 5 decimal places (if available)	Longitude in NAD 83 decimal degrees accurate to a minimum of 5 decimal places (if available)	County
001 13		36	52N	67W	44.4434611°	-104.8583639°	Campbell
002 14		36	52N	67W	44.4513028°	-104.8593222°	Campbell
003 15		36	52N	67W	44.4551444°	-104.8529306°	Campbell

6. Discharge information:

<i>Source of water which is to be discharged:</i> Ground water from Madison Group limestone - ~ 2400 to 2850' bgs
<i>Average and Maximum flow rate of discharge(million gallons/day):</i> per well - int. test ~ 1200 gpm / 1,728,000 gal; final- 1800 gpm or 2,592,000 gal/day
<i>Total expected volume of the discharge (million gallons/day):</i> ~ 59,616,000 (total for both int. & final tests for all three wells)
<i>Description of the type of water treatment process to be employed (e.g. recycling, reuse, and detention)</i> Initial well development water will flow through steel tanks to allow suspended solids to drop out
<i>Is the discharged water chlorinated?</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes, how will the total residual chlorine be reduced or eliminated?</i> n/a
<i>Provide a list of all potential pollutants and the expected concentrations in the wastewater to be discharged:</i> None
<i>Is the project area located near or by any contaminated sites?</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>Check the State of Wyoming's Solid and Hazardous Waste Division website (http://deq.state.wy.us/shwd/) including the storage tank program for resolved and unresolved contaminated sites.</i>
<i>Describe the control measures that will be implemented to prevent significant damage to or erosion of the receiving water channel at the point of discharge:</i> Straw logs / waddles will be used to dissipate the impact of the discharge water

7. Receiving water:

<i>Names of the nearest defined drainage(s) which could receive the temporary discharge and nearest live waters (live water is any stream, lake or other water body which contains water year-around):</i> Well 13 water will first enter Little Spring Creek ~ 1.1 miles from the well Well 14 water will first enter Little Spring Creek ~ 1.6 miles from the well Well 15 water will first enter Spring Creek ~ 1.65 miles from the well <i>Receiving Water Basin (i.e., Powder River Basin):</i> BELLE FOURCHE RIVER BASIN
<i>Distance from project site (miles):</i> Well 13 ~ 1.1 miles; Well 14 ~ 1.6 miles; Well 15 ~ 1.65 miles
<i>Will project water be discharged to a storm sewer system, ditch, or other man-made conveyance?</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes, approval from the owner of the system must be obtained. Please attach a statement from the owner granting approval.</i> n/a

8. Sampling Requirements

a. For discharges associated with Well Pump Tests for Oil and Gas Well Development, a water quality analysis for the constituents listed below must be attached to the NOI.

PARAMETER	REQUIRED DETECTION LIMIT and Required Units
Aluminum, Dissolved	50 ug/L
Arsenic, Total Recoverable	1 ug/L
Cadmium, Dissolved	5 ug/L
Chloride	5 mg/L
Chromium, Dissolved (III)	1ug/L
Copper, Dissolved	10 ug/L
Hardness (CaCO3) mg/L	10 mg/L as CaCO ₃
Iron, Dissolved	50 ug/L
Lead, Dissolved	2 ug/L
Manganese, Dissolved	50 ug/L
Mercury, Dissolved	1 ug/L
Nickel, Dissolved	10 ug/L
Oil and Grease	1 mg/L
pH	0.1 pH unit
Radium 226, Total Recoverable	0.2 pCi/L
Radium 228, Total Recoverable**	0.2 pCi/L
Selenium, Total Recoverable	5 ug/L
Silver, Dissolved	3 ug/L
Specific Conductance	5 micromhos/cm
Sulfates	10 mg/L
Sulfide-Hydrogen Sulfide (S ²⁻ , HS ⁻)	0.1 mg/L
Total Dissolved Solids	5 mg/L
Total Petroleum Hydrocarbons	1 mg/L
Total Suspended Solids	2 mg/L
Zinc, Dissolved	50 ug/L

b. For discharges associated with Well Pump Tests of Domestic Use Water Supplies, a water quality analysis for the constituents listed below must be attached to the NOI.

PARAMETER	REQUIRED DETECTION LIMIT and Required Units
pH	0.1 pH unit
Trichloroethylene	1 ug/L
Tetrachloroethylene	1 mg/L
Total Suspended Solids	2 mg/L
Total Dissolved Solids	5 mg/L

c. For discharges associated with *Well Pump Tests for Uranium Wells*, a water quality analysis for the constituents listed below must be attached to the NOI.

PARAMETER	REQUIRED DETECTION LIMIT and Required Units
pH	0.1 pH unit
Trichloroethylene	1 ug/L
Tetrachloroethylene	1 ug/L
Total Suspended Solids	2 mg/L
Total Dissolved Solids	5 mg/L
Radium 226, Total Recoverable	0.2 pCi/L
Radium 228, Total Recoverable**	0.2 pCi/L
Total Uranium	0.3 pCi/L

9. Attachments:

For all projects: Attach a site map and schematic diagram that shows the area of the activity, location of the discharge point, direction of discharge flow, location of any treatment units, and the location of all receiving waters.

10. Other information:

Any optional information the permittee wishes to have considered: n/a

11. Copy of General Permit:

Do you wish to receive a paper copy of the General Permit? Yes No
Those who check "no" will receive only a letter of authorization for their project.

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

Authorized signatories for this application are the following:	
For corporations:	A principal executive officer of at least the level of vice president, or the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the overall operation of the facility from which the discharge originates.
For partnerships:	A general partner.
For a sole proprietorship:	The proprietor.
For a municipal, state, federal or other public facility:	Either a principal executive officer or ranking elected official.

Greg McInnis Vice-President

Printed Name of Person Signing Title

 1/27/16 909-390-2833

Signature of Applicant* Date Telephone

*All permit applications must be signed in accordance with 40 CFR Part 122.22, "for" or "by" signatures are not acceptable.

Section 35-11-901 of Wyoming Statutes provides that: Any person who knowingly makes any false statement, representation, or certification in any application ... shall upon conviction be fined not more than \$10,000 or imprisoned for not more than one year, or both.

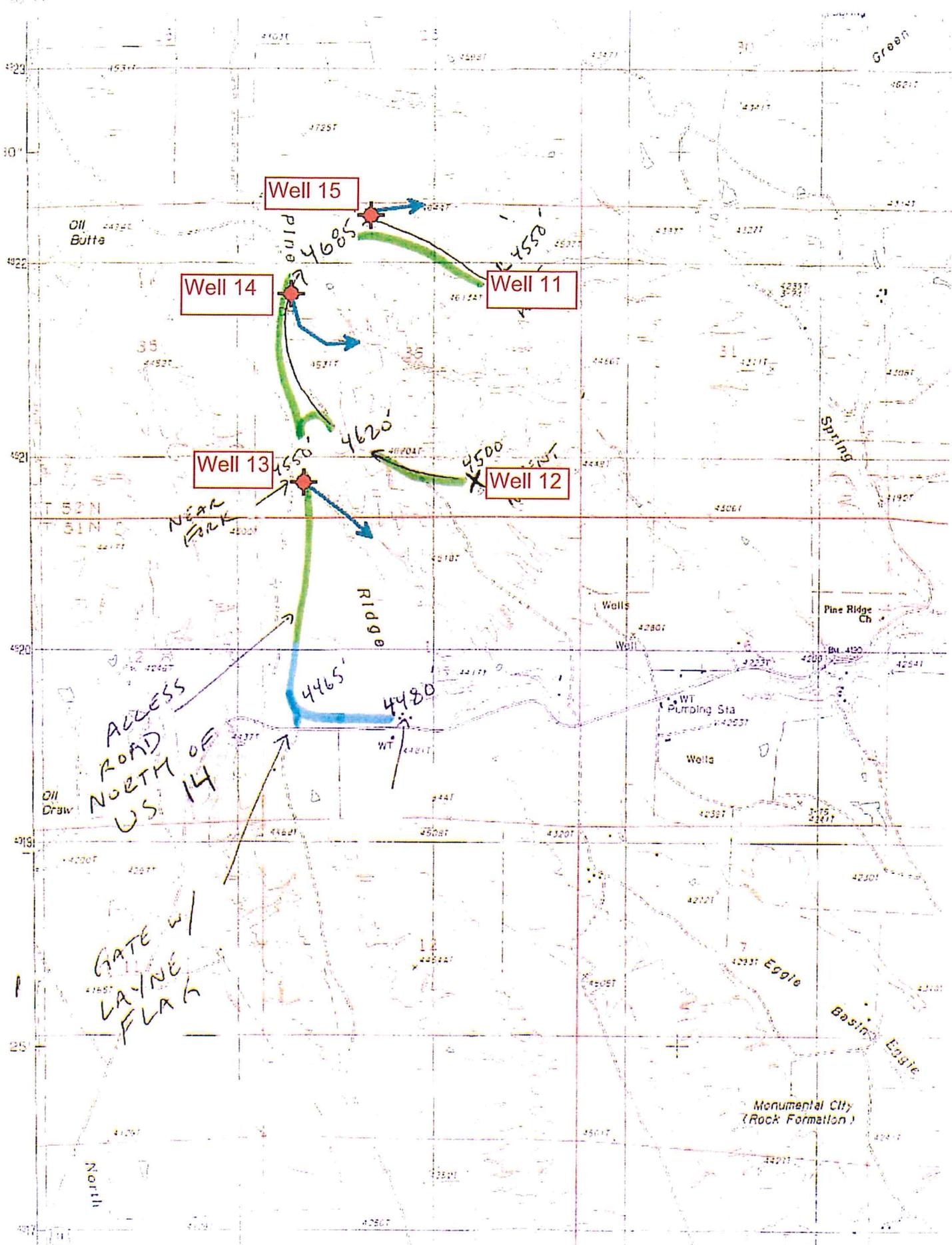
Wyoming Statute 35-11-312 was revised to require discharge permit fees be paid prior to permit issuance. Therefore, payment of permit fees must be accompanied with the application. Any application received without proper fee payment will be returned. For complete information related to permit fees, please visit our website at http://deq.state.wy.us/wqd/WYPDES_Permittng/index.asp.

Authorizations under this general permit will be issued for a maximum term of one year. Each authorization under this permit carries a flat fee of \$100.

I have enclosed a check for \$ 100⁰⁰.

Check Number _____

For Agency Use Only	
Date Check Received	<u>2-12-15</u>
Check Amount	<u>\$100 - #3966447</u>
Permit Term	<u>1 yr</u>
Approval	<u>ng</u>



Well 15

Well 14

Well 11

Well 13

Well 12

4685

4550

4620

4500

4550

4465

4480

ACCESS ROAD NORTH OF US 14

GATE w/ LAYNE FLANK

Oil Butte

Green

RIDGE

Spring

Pine Ridge Ch

WT Pumping Sta

Wells

Eggle

Bosim

Eggle

Monumental City (Rock Formation)

North

