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**IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**REUSE PERMIT**

**M-228-01**

**Midas Gold, Inc.** (hereafter "permittee") is hereby authorized to construct, install, and operate a reuse facility in accordance with (1) this permit; (2) "Recycled Water Rules" (IDAPA 58.01.17); (3) an approved plan of operation; and (4) all other applicable federal, state, and local laws, statutes, and rules. This permit is effective from the date of signature and expires on January 16, 2019.

  
\_\_\_\_\_  
Signature

1/16/2014  
\_\_\_\_\_  
Date

Pete Wagner

\_\_\_\_\_  
Regional Administrator  
BoiseBoise Regional Office  
Idaho Department of Environmental Quality

Idaho Department of Environmental Quality  
Boise Regional Office  
1445 North Orchard  
208-373-0550  
Boise, ID. 83706

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## 1. Commonly Used Acronyms/Abbreviations and Definitions

BMP	best management practice
CA	compliance activity
CFU	colony-forming units
COD	chemical oxygen demand
DEQ	Idaho Department of Environmental Quality
DEQ Guidance	DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision
Director	Director of the Idaho Department of Environmental Quality or designee unless otherwise specified
EFSFSR	East Fork of the South Fork Salmon River
Ei	irrigation efficiency
FM	flow monitoring
ft	foot
gpd	gallons per day
gpm	gallons per minute
GS	growing season
GW	ground water
GWQR	Ground Water Quality Rule
IDAPA	Idaho Administrative Procedures Act
IDWR	Idaho Department of Water Resources
IWR	irrigation water requirement
lb	pound
LG	lagoon
MG	million gallons
mg/kg	milligram per kilogram
mg/L	milligram per liter
MU	management unit
NGS	non-growing season
NTU	nephelometric turbidity unit
PO	plan of operation
QAPP	quality assurance project plan
Responsible Official	is the facility contact person authorized by the permittee to communicate with DEQ on behalf of the permittee on any matter related to the permit, including without limitation, the authority to communicate with and receive notices from DEQ regarding notices of violation or non-compliance, permit violations, permit enforcement, and permit revocation. The Responsible Official is also responsible for providing written certification of permit application materials, annual report submittals, and other information submitted to DEQ as required by the permit. Any notice to or communication with the Responsible

Official is considered a notice to or communication with the permittee. The Responsible Official may designate an Authorized Representative to act as the facility contact person for any of the activities or duties related to the permit, except signing and certifying the permit application, which must be done by the Responsible Official. The Authorized Representative shall act as the Responsible Official and shall bind the permittee as described in this definition. Designation of the Authorized Representative shall follow the requirements specified in Section 6.1.3 of the permit

SW	supplemental irrigation water
SU	soil monitoring unit
µmhos/cm	micromhos per centimeter
WLAA	well location acceptability analysis
WW	wastewater
WWTP	wastewater treatment plant

## 2. Facility Information

Information Type	Information Specific to This Permit
Type of recycled water	Municipal, Class A
Method of treatment	Membrane Bioreactor WWTP, chlorine disinfection
Facility location address	Stibnite, Idaho. On the Stibnite Road (FS 412), approximately 15 miles east of Yellow Pine.
Facility geographic location	T18N, R9E, part of Sections 23, 10, 11, 12, 13, 14, and 15 T19N, R9E, part of Section 35
Facility mailing address	405 S 8 <sup>th</sup> Street, Suite 21 Boise, ID 83702
Facility contact information	<p>Responsible Official:                      Robert Barnes, COO                      Telephone: (778) 724-4703                      Email: <a href="mailto:bbarnes@midasgoldcorp.com">bbarnes@midasgoldcorp.com</a></p> <p>Authorized Representative:                      Kyle Fend                      Environmental Permitting and Compliance Coordinator                      Telephone: (208) 901-3047                      Email: <a href="mailto:fend@midasgoldinc.com">fend@midasgoldinc.com</a></p> <p>Notify DEQ within 30 days if there is a change in personnel for any of the facility contacts. A minor permit modification will be issued by DEQ to confirm the change.</p>
Ground water	<p>Depth to GW: 20 feet (in EFSFSR and Meadow Creek Valley, deeper where mining materials and waste rock have been placed on the original ground surface.</p> <p>General GW flow direction: Parallel to the direction of Meadow Creek in the valley floor, toward Meadow Creek on the valley sides</p> <p>Beneficial uses: Nearby drinking water supply wells</p>

Information Type	Information Specific to This Permit
Nearby surface water(s) and beneficial uses	<p>East Fork of the South Fork Salmon River (EFSFSR) (between Sugar Creek and Meadow Creek). Beneficial uses: cold water biota, primary contact recreation.</p> <p>Sugar Creek (including West End Creek). Beneficial uses: cold water biota, primary contact recreation.</p> <p>West End Creek. Beneficial uses: cold water biota, primary contact recreation.</p> <p>Unnamed Creek. Beneficial uses: cold water biota, primary contact recreation.</p> <p>Midnight Creek. Beneficial uses: cold water biota, primary contact recreation.</p> <p>Fiddle Creek. Beneficial uses: cold water biota, primary contact recreation.</p> <p>Garnet Creek. Beneficial uses: cold water biota, primary contact recreation.</p> <p>EFSFSR (Above Meadow Creek). Beneficial uses: cold water biota, primary contact recreation.</p>

### 3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
<p>CA-228-01                      Prior to the discharge of Class A recycled water for reuse</p>	<p><b>Wastewater Treatment Plant Performance Testing:</b> The permittee shall conduct performance testing of the completed WWTP to demonstrate that the WWTP will perform according to the WWTP design criteria in the plans and specifications and the Class A recycled water performance criteria in IDAPA 58.01.17 §§601 and 602. No discharge of wastewater effluent for reuse shall be allowed until the WWTP performance testing has been completed and, at least, conditionally approved by DEQ.</p> <p>The permittee shall submit a WWTP Performance Testing Plan to DEQ for review, and obtain DEQ approval of the plan, prior to starting the WWTP performance testing. The disposal of all wastewater effluent and any byproducts (e.g., grit and sludge) during testing shall also be addressed in the plan. If subsurface discharge to the existing septic system and drainfield is to be utilized as a method of wastewater effluent disposal, the plan shall specify how this will be accomplished, and shall address the impacts of the constituents of the wastewater effluent (e.g., chlorine residual, BOD<sub>5</sub>, total suspended solids) on the septic system, the drainfield, and the ground water. Wastewater effluent shall be discharged to the septic system and drainfield at flowrates no greater than 2,499 gpd.</p> <p>Following the completion of the WWTP performance testing, the results shall be compiled in a report and submitted to DEQ for review and approval within 45 days of completion of the performance testing.</p>

<b>Compliance Activity (CA) Number and Completion Due Date</b>	<b>Compliance Activity Description</b>
<p>CA-228-02 Wastewater System OMM shall be submitted prior to discharge of Class A Recycled Water for reuse. Other management plans by six (6) months after permit issuance</p>	<p><b>Plan of Operation (PO):</b> The permittee shall submit to DEQ for review and approval a Plan of Operation (PO) that reflects current operations and incorporates the requirements of this permit. The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address applicable items in the Plan of Operation Checklist in the DEQ Guidance.</p> <p>The PO shall include the following site management plans or the permittee may submit the site management plans individually:</p> <ol style="list-style-type: none"> <li>1. Wastewater System Operation and Maintenance Manual (OMM). The OMM shall include, but not be limited to, descriptions of all processes and all equipment, operating instructions, operator safety procedures, operational trouble-shooting procedures, manufacturers' literature and instructions for all equipment and processes, and instructions for contacting the responsible charge operator and substitute responsible charge operator. The OMM shall also include:             <ol style="list-style-type: none"> <li>a. A list of manufacturer's recommended spare parts, and an inventory of all spare parts stored on at the Golden Meadows site.</li> <li>b. Procedures for managing the storage and disposal of any non-compliant effluent, including procedures for restoring the facilities to normal operation.</li> <li>c. Contingency Plan for:                 <ol style="list-style-type: none"> <li>i. Reducing the wastewater influent flow from the camp facilities to maximize the storage capacity in the wastewater influent pumping station for non-compliant effluent and disposal time to the septic system.</li> <li>ii. The occurrence of the conditions of monthly recycled water production exceeding monthly recycled water demands</li> </ol> </li> </ol> </li> <li>2. Wastewater solids management plan: The permittee shall submit a waste solids management plan to DEQ for review and approval 6 months or more prior to application or disposal. The plan shall describe how waste solids generated at the facility will be handled, applied and/or disposed of to meet the requirements of section 8.1.4 of this permit.</li> <li>3. Odor control/management plan</li> <li>4. Runoff control/management plan</li> </ol> <p>The PO shall be updated as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO within 30 days of the change(s).</p>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-228-03 six (6) months after permit issuance	<p><b>Quality Assurance Project Plan (QAPP):</b> The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ.</p> <p>The QAPP shall be designed to assist in planning for the collection, analysis, and reporting of all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following:</p> <ol style="list-style-type: none"> <li>1. Details on the number of measurements, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection, and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements.</li> <li>2. Maps indicating the location of each monitoring, and sampling point.</li> <li>3. Qualification and training of personnel.</li> <li>4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee.</li> <li>5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report.</li> </ol> <p>The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the DEQ Guidance.</p> <p>The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of QAPP modifications and the content of the modifications within 30 days of the change(s).</p>
CA-228-04 Prior to discharge of Class A Recycled Water for Reuse	<p>The permittee shall submit to DEQ a completed wastewater system classification worksheet. The classification worksheet can be found at <a href="http://www.deq.idaho.gov/media/762664-ww-treatment-plant-classification-worksheet.pdf">http://www.deq.idaho.gov/media/762664-ww-treatment-plant-classification-worksheet.pdf</a></p>
CA-228-05 Prior to discharge of Class A Recycled Water for Reuse	<p>The permittee shall develop a Utility User Agreement, which shall be submitted to DEQ for review and approval. The Utility User Agreement shall be signed by each employee of all contractors and any other personnel not directly employed by the permittee who utilize Class A recycled water for dust suppression and/or reclamation that states the user understands the origin of the recycled water and the concept of irrigation water requirement and runoff management for applying the Class A recycled water.</p>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-228-06 12 to 18 months prior to the expiration date of the permit	If the permittee intends to continue operating the wastewater reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application workshop to discuss the compliance status of the facility and the content required for the wastewater reuse permit application package.
CA-228-07 180 days prior to the expiration date of the permit	The permittee shall submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application workshop identified in CA-228-06.

## 4. Permit Limits and Conditions

### 4.1 Management Unit Descriptions

Management Unit Serial Number	Description	Type of Recycled Water Allowed	Acres
MU-228-01	Project Area	Class A	4,514

### 4.2 Hydraulic Loading Limits, Vegetation

Management Unit Serial Number	Growing Season Hydraulic Loading	Non-growing Season Maximum Hydraulic Loading	Allowed Vegetation
MU-228-01 (Reclamation sites)	Substantially at the irrigation water requirement (IWR) <sup>a</sup>	Not allowed	See PO
MU-228-01 (Subsurface discharge to the existing drainfield)	Less than or equal to 2,499 gpd	Less than or equal to 2,499 gpd	Not Applicable

- a. Irrigation Water Requirement—Any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop (or reclamation vegetation), and calculated monthly during the growing season (GS). The equation used to calculate the IWR is:

$$IWR = P_{def} / E_i \text{ where,}$$

$P_{def}$  is the precipitation deficit and is synonymous with the net irrigation water requirement of the crop.

The  $P_{def}$  is found at <http://data.kimberly.uidaho.edu/ETIdaho/>

$E_i$  is the irrigation system efficiency.

### 4.3 Constituent Loading Limits

Management Unit Serial Number	Constituent Loading (from all sources)		
	Nitrogen (lb/acre)	Phosphorus (lb/acre)	COD, growing season <sup>a</sup> (lb/acre-day)
MU-228-01	None	None	None

a. Limit expressed in pounds per acre per day (lb/acre-day) on a seasonal average.

#### 4.4 Management Unit Buffer Zones, Fencing, Posting, and Labeling

Category	Permit Limits and Conditions
Buffer Zones	No buffer zones are required
Fencing	Fencing is not required
Posting/Labeling	<ul style="list-style-type: none"> <li>• At any area of use of Class A recycled water, the public and personnel shall be notified that the water is recycled water and is not safe for drinking or human contact. Warning signs shall be posted that shall state "Caution: Recycled Water - Do Not Drink", or equivalent signage in both English and Spanish.</li> <li>• All exposed and above ground piping, risers, fittings, pumps, valves, etc., shall be painted purple, Pantone 512, 522, or equivalent. All piping shall be identified using an accepted means of labeling reading "Caution: Recycled Water - Do Not Drink", or equivalent signage in both English and Spanish. In a fenced pumping station area, signs shall be posted on the fence on all sides.</li> <li>• All new buried pipe, including service lines, valves, and other appurtenances, shall be colored purple, Pantone 512, 522, or equivalent.</li> <li>• All valves shall have locking valve covers that are non-interchangeable with potable water valve covers, and shall have an inscription cast on the top surface stating "Recycled Water," or equivalent.</li> <li>• If identification tape is installed along with the purple pipe, it shall be prepared with white or black printing on a purple color field, having the words, "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English. The overall width of the tape shall be at least three (3) inches. Identification tape shall be installed eighteen (18) inches above the transmission pipe longitudinally, shall be centered over the pipe, and shall run continuously along the length of the pipe.</li> <li>• Warning labels reading "Caution: Recycled Water - Do Not Drink", or equivalent signage in both English and Spanish, shall be installed on designated facilities such as, but not limited to, control panels and wash-down or blow-off hydrants on water trucks, hose bibs, and temporary construction services.</li> </ul>

#### 4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Reporting Year for Annual Reporting Requirement	January 1 through December 31
Growing Season	May 1 to September 30.

Category	Permit Limits and Conditions
Non-Growing Season	October 1 to April 30.
Application Season	Irrigation only allowed during growing season. Other uses allowed year-round.
Allowable Uses of Recycled Water	<ul style="list-style-type: none"> <li>• Hydroseeding and Irrigation of reclamation sites on lands owned or controlled by permittee.</li> <li>• Dust suppression on roads and construction areas within the facility's boundaries.</li> <li>• Toilet flushing, where only trained maintenance personnel have access to the plumbing for repair.</li> <li>• Subsurface discharge in the existing drainfield.</li> </ul>
Recycled Water Use on U.S. Forest Service Controlled Lands	The permittee shall obtain written authorization from the U.S. Forest Service to apply recycled water to reclamation sites for hydroseeding and irrigation and to forest service roads for dust suppression on Forest Service controlled lands. This written authorization shall be submitted to DEQ prior to any application of recycled water to these sites.
Grazing	Grazing is not allowed.
Wastewater Operator Licensure Requirements	The wastewater treatment facility and reuse system shall be operated by personnel that hold valid wastewater operator licenses issued by the Idaho Bureau of Occupational Licenses at the proper operator classification level as required in IDAPA 58.01.16.203, and are properly trained to operate and maintain the system.
Turbidity Limits of the Filtered Wastewater Effluent, prior to disinfection	<ul style="list-style-type: none"> <li>• Daily arithmetic mean of all measurements of turbidity shall not exceed 0.2 NTU.</li> <li>• Turbidity shall not exceed 0.5 NTU at any time.</li> <li>• When the arithmetic mean of the continuous turbidity measurements is above the instantaneous limit for more than five minutes, filtered wastewater shall be automatically diverted to the Influent Pumping Station until such time as the arithmetic mean of the continuous turbidity measurements is below the instantaneous limit.</li> </ul>
Total Coliform Limits in Recycled Water	<ul style="list-style-type: none"> <li>• The median number of total coliform organisms must not exceed 2.2 total coliform organisms/100 mL, as determined from the bacteriological results of the last 7 days for which analyses have been completed.</li> <li>• No sample shall exceed 23 total coliform organisms/100 mL in any confirmed sample, as determined from the bacteriological results of the last 7 days for which analyses have been completed.</li> </ul>
Disinfection Requirements	A chlorine disinfection process that provides a concentration-contact time (CT) of four hundred and fifty (450) milligram-minutes per liter (mg-min/L) measured at the end of the contact time, based on total chlorine residual and a modal contact time of not less than ninety (90) minutes based on peak day dry weather flow.

Category	Permit Limits and Conditions
Total Nitrogen Limit	Total nitrogen at the point of disinfection compliance shall not exceed 30 mg/l based on the monthly arithmetic mean as determined from weekly composite samples
5-day biochemical oxygen demand (BOD <sub>5</sub> ) Limit	BOD <sub>5</sub> shall not exceed 10 mg/L based on the monthly arithmetic mean as determined from weekly composite sampling
pH	pH shall be between 6.0 and 9.0, based on grab samples collected daily.
Standby Power	Standby power with sufficient capacity capable of operating the treatment and distribution works shall be provided and maintained at all times.
Runoff Control	The permittee shall manage the reuse sites in accordance with an approved Runoff Management Plan, required by Compliance Activity No. CA-228-02.
Ground Water Protection	The activities authorized by this permit shall be conducted in accordance with IDAPA 58.01.11, "Ground Water Quality Rule."
Construction plans and specifications	Pursuant to Idaho Code §39-118 and IDAPA 58.01.16.400, detailed plans and specifications shall be submitted to DEQ for review and approval prior to construction, modification, or expansion of any wastewater treatment, storage, or conveyance structures. Within 30 days of completion of construction, the permittee shall submit as-built plans or a letter from an Idaho Professional Engineer certifying the facilities or structures were constructed in substantial accordance with the approved plans and specifications.
Flow measurement calibration/verification	Flow measurement devices used to directly or indirectly measure wastewater and supplemental irrigation water flows applied to each MU shall be calibrated or verified annually. Calibration/verification of flow measurement devices shall be done in accordance with the device manufacturer's specifications and with the permittee's QAPP.
Backflow prevention and testing requirements	Backflow prevention is required to protect potable water systems, surface water, and ground water from unauthorized discharge of recycled water. Refer to section 9.1.1 of this permit.
Records retention requirements	Retain all records generated to meet the requirements of this permit for the duration of the permit, including administrative extensions, plus 2 years.

## 5 Monitoring Requirements

### 5.1 Recycled Water and Irrigation Water Monitoring, Sampling, and Analyses

#### 5.1.1 Microbial and Constituent Monitoring

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
WW-228-01	WWTP influent	Composite/Weekly	<ul style="list-style-type: none"> <li>BOD<sub>5</sub> (mg/L)</li> <li>Total Nitrogen (Total Kjeldahl Nitrogen [TKN] + nitrate-nitrogen + nitrite-nitrogen) (mg/L)</li> <li>Total phosphorus (mg/L)</li> <li>Total suspended solids (TSS) (mg/L)</li> <li>Total dissolved solids (TDS) (mg/L)</li> <li>Volatile dissolved solids (VDS) (mg/L)</li> </ul>
WW-228-02 Discharge from membrane filtration prior to disinfection	Turbidity of Recycled Water prior to disinfection	Continuously recording Turbidimeter/ Daily	<ul style="list-style-type: none"> <li>Daily arithmetic mean (NTUs)</li> <li>Maximum Recorded Value (NTUs)</li> </ul>
WW-228-03 WWTP Discharge after disinfection contact tank (prior to connection to overflow pipe with automatic valve)	Recycled water to MU-228-01	Composite/ Weekly	<ul style="list-style-type: none"> <li>BOD<sub>5</sub> (mg/L)</li> <li>Total Nitrogen (TKN + nitrate-nitrogen + nitrite-nitrogen) (mg/L)</li> <li>Total phosphorus (mg/L)</li> <li>TSS (mg/L)</li> <li>TDS (mg/L)</li> <li>VDS (mg/L)</li> </ul>
		Grab/ One sample daily, seven (7) days per week	<ul style="list-style-type: none"> <li>Total coliform (total coliform organisms/100 mL)</li> <li>pH</li> </ul>
		Continuously	<ul style="list-style-type: none"> <li>Chlorine residual (mg/L)</li> <li>Disinfection concentration-contact time (CT) (mg-min/L)</li> </ul>

### 5.1.2 Flow Monitoring

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Measured Parameter
FM-228-01 Flowmeter at the WWTP Influent Pumping Station	Flow into WWTP	<ul style="list-style-type: none"> <li>• Daily meter reading</li> <li>• Monthly compilation of data</li> </ul>	Flow (MG/month)
FM-228-02 Flowmeter at the reuse water package pumping station	Flow from the Class A recycled water storage tank to the man camp for toilet flushing	<ul style="list-style-type: none"> <li>• Daily meter reading</li> <li>• Monthly compilation of data</li> </ul>	Flow (MG/month)
FM-228-03 Flowmeter at the reclaimed water pump	Flow from the Class A recycled water storage tank for dust suppression, and hydroseeding/irrigation of reclamation sites	<ul style="list-style-type: none"> <li>• Daily meter reading</li> <li>• Monthly compilation of data</li> </ul>	Flow (MG/month)
FM-228-04 Hour meter on the septic system final dosing pumps	Flow into the drainfield	<ul style="list-style-type: none"> <li>• Daily pump run times</li> <li>• Monthly compilation of data</li> </ul>	<ul style="list-style-type: none"> <li>• Runtime Hours (hrs/month)</li> <li>• Flow (MG/month)</li> </ul>

## 6 Reporting Requirements

### 6.1 Annual Report Requirements

The permittee shall submit to DEQ an annual report prepared by a competent environmental professional covering the previous reporting year.

#### 6.1.1 Due Date

The annual report is due no later than March 31 of each year, which shall cover the previous reporting year.

#### 6.1.2 Required Contents

The annual report shall include the following:

- Documentation to verify compliance with IDAPA 58.01.16.203, "Public Wastewater System Operator Licensure Requirements."
- An interpretive discussion of all required monitoring data. The report shall address data quality objectives and facility environmental impacts. The reporting year for this permit is specified in section 4.6.

- The results of the required monitoring as described in section 5 of this permit. If the permittee monitors any parameter more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.
- Written status of all work described in section 3 of this permit.
- Written summary of all noncompliance events that occurred during the reporting year.
- Submittal of the calculations and observations for MUs for each specified parameter in the following table:

Management Unit Serial Number	Parameter	Units
MU-228-01	Recycled water loading rate for irrigation of each reclamation site.	MG/month Inches/month Inches/year
	Recycled water loading rate for hydroseeding of each reclamation site.	MG/month Inches/month Inches/year
	SW loading rate for irrigation of each reclamation site.	MG/month Inches/month Inches/year
	SW loading rate for hydroseeding of each reclamation site.	MG/month Inches/month Inches/year
	Total hydraulic loading rate for irrigation of each reclamation site.	MG/month Inches/month Inches/year
	Total hydraulic loading rate for hydroseeding of each reclamation site.	MG/month Inches/month Inches/year
	Irrigation water requirement (IWR) for each reclamation site.	Inches/month Inches/year
	Identify all disturbed sites being reclaimed and associated acreages with maps delineating site locations	
	Description of all vegetation types for each reclamation site.	
	Recycled water flow volume for dust suppression	MG/month
	Recycled water flow volume for man-camp usage (toilets)	MG/month
	Flow volume for WW discharged to the septic system	MG/month
<b>Other Reporting Requirements:</b>		
<ul style="list-style-type: none"> <li>a. Visual observation of field conditions: areas of ponding, ice, and unusual conditions and record daily as necessary when land applying.</li> <li>b. Keep records available at the facility and have records available for DEQ inspection.</li> <li>c. Records/documentation for verifying calibration for all flowmeters used in the monitoring requirements of this permit.</li> <li>d. Records/documentation for verifying testing of backflow prevention assemblies required by section 8.1.1 of this permit.</li> </ul>		

**6.1.3 Submittal**

All applications, annual reports, or information submitted to DEQ as required by this permit shall be signed and certified as follows:

1. Permit applications shall be signed by the Responsible Official as follows:
  - a. For a corporation: by a responsible corporate officer.
  - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.
  - c. For a municipality, state, federal, Indian tribe, or other public agency: by either the principal executive officer or ranking elected official.
2. Annual reports and other information requested by DEQ shall be signed by the Responsible Official or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by the responsible official.
  - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual having overall responsibility for environmental matters for the company.
  - c. The written authorization is submitted to DEQ.

Submit the annual report to the DEQ regional office at the following address:

Engineering Manager  
Boise Regional Office  
Idaho Department of Environmental Quality  
1445 N. Orchard  
Boise, ID 83706

The annual report shall include the following certification statement and be signed, dated, and certified by the permittee's Responsible Official or Authorized Representative:

*"I certify that the information provided in this submittal was prepared in conformance with the Quality Assurance Project Plan required by permit M-228-01, and is, to the best of my knowledge, true, accurate and complete and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA 58.01.17.920.01 or other enforcement action as provided for under Idaho law."*

## **6.2 Emergency and Noncompliance Reporting**

Report noncompliance incidents to DEQ's regional office at (208) 373-0550 / 1-888-800-3480.

In case of emergencies, call the Idaho State Communication Center (StateComm) at 1-800-632-8000 and DEQ's regional office.

See Section 8, "Standard Permit Conditions," and IDAPA 58.01.17.500.06 for other reporting requirements.

All instances of unpermitted discharges of wastewater to surface waters of the United States shall also be reported to the United States Environmental Protection Agency (EPA) by telephone within 24 hours from the time the permittee becomes aware of the discharge and in writing within 5 days at the following address:

NPDES/Stormwater Coordinator, USEPA Idaho Operations Office  
950 W. Bannock, Suite 900  
Boise, ID 83702  
(208) 378-5746 or (208) 378-5744 and EPA Hot Line: (206) 553-1846

## 7 Reserved

## 8 Standard Permit Conditions

The following standard permit conditions are included as terms of this permit as required by the "Recycled Water Rules," (IDAPA 58.01.17.500).

### 500. STANDARD PERMIT CONDITIONS.

The following conditions shall apply to and be included in all permits. (4-1-88)

01. **Compliance Required.** The permittee shall comply with all conditions of the permit. (4-1-88)
02. **Renewal Responsibilities.** If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit in accordance with these rules. (4-1-88)
03. **Operation of Facilities.** The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with the permit or these rules. (4-1-88)
04. **Provide Information.** The permittee shall furnish to the Director within a reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these rules. (4-1-88)
05. **Entry and Access.** The permittee shall allow the Director, consistent with Title 39, Chapter 1, Idaho Code, to:
  - a. Enter the permitted facility. (4-1-88)
  - b. Inspect any records that must be kept under the conditions of the permit. (4-1-88)
  - c. Inspect any facility, equipment, practice, or operation permitted or required by the permit. (4-1-88)
  - d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility. (4-1-88)
06. **Reporting.** The permittee shall report to the Director under the circumstances and in the manner specified in this section: (4-1-88)
  - a. In writing at least thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process. When the alteration or addition results in a need for a major modification, such alteration or addition shall not be made prior to Department approval issued in accordance with these rules. (4-7-11)
  - b. In writing thirty (30) days before any anticipated change which would result in noncompliance with any permit condition or these rules. (4-1-88)

c. Orally within twenty-four (24) hours from the time the permittee became aware of any noncompliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director. (4-1-88)

d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any noncompliance unless extended by the Department. This report shall contain: (4-1-88)

i. A description of the noncompliance and its cause; (4-1-88)

ii. The period of noncompliance including to the extent possible, times and dates and, if the noncompliance has not been corrected, the anticipated length of time it is expected to continue; and (4-7-11)

iii. Steps taken or planned, including timelines, to reduce or eliminate the continuance or reoccurrence of the noncompliance. (4-7-11)

e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report. (4-1-88)

**07. Minimize Impacts.** The permittee shall take all necessary actions to eliminate and correct any adverse impact on the public health or the environment resulting from permit noncompliance. (4-1-88)

**08. Compliance with "Ground Water Quality Rule."** Permits issued pursuant to these rules shall require compliance with IDAPA 58.01.11, "Ground Water Quality Rule." (4-7-11)

## **9 General Permit Conditions**

The following general permit conditions are identical to the cited rules at the time of issuance and are enforceable as part of this permit. Note that the rules cited in this section, and elsewhere in this permit, are supplemented by the rules themselves. Rules applicable to your facility are enforceable whether or not they appear in this permit.

### **9.1 Operations**

#### **9.1.1 Backflow Prevention**

Reuse facilities with existing or planned cross-connections or interconnections between the recycled water system and any water supply (potable or nonpotable) or surface water, shall have backflow prevention assemblies, devices, or methods as required by applicable rule or as specified in this permit and approved by DEQ.

For public water systems, backflow assemblies shall meet the requirements of IDAPA 58.01.08.543. Assemblies shall be adequately maintained and shall be tested annually by a certified backflow assembly tester, and repaired or replaced as necessary to maintain operational status.

For domestic water supply wells, backflow prevention devices shall meet the requirements of IDAPA 07.02.04 and shall be adequately operated and maintained.

Irrigation water supply wells shall meet the requirements of IDAPA 37.03.09.36 for preventing any waste or contamination of the ground water resource. Backflow prevention assemblies or devices used to protect the ground water shall be adequately operated and maintained.

Discharge of recycled water to surface water is authorized by the EPA NPDES program. An NPDES permit is required for any discharge to surface water and backflow prevention shall be implemented to prevent any unauthorized discharge. Backflow prevention assemblies or devices used to protect surface water shall be adequately operated and maintained.

Records of all testable backflow assembly test results, repairs, and replacements shall be kept at the reuse facility along with other operational records, and shall be discussed in the Annual Report and made available for inspection by DEQ. Other approved means of backflow prevention, such as siphons and air-gap structures that cannot be tested, shall be maintained in operable order.

#### **9.1.2 Restricted to Premises**

Wastewaters or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the EPA (IDAPA 58.01.16.600.02).

### 9.1.3 Health Hazards, Nuisances, and Odors Prohibited

Health hazards, nuisances, and odors are prohibited as follows:

- Wastewater must not create a public health hazard or nuisance condition (IDAPA 58.01.16.600.03).
- No person shall allow, suffer, cause or permit the emission of odorous gases, liquids, or solids into the atmosphere in such quantities as to cause air pollution (IDAPA 58.01.01.776.01).
- Air Pollution. The presence in the outdoor atmosphere of any air pollutant or combination thereof in such quantity of such nature and duration and under such conditions as would be injurious to human health or welfare, to animal or plant life, or to property, or to interfere unreasonably with the enjoyment of life or property (IDAPA 58.01.01.006.06).

### 9.1.4 Solids Management

**Biosolids** are the nutrient-rich organic materials resulting from the treatment of sewage sludge. When treated and processed, sewage sludge becomes biosolids which can be safely recycled and applied as fertilizer to sustainably improve and maintain productive soils and stimulate plant growth.

Biosolids generated from sewage sludge are regulated by EPA under 40 CFR Part 503 and require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650. Contact DEQ prior to application of biosolids at any permitted reuse facility.

**Sludge** is the semi-liquid mass produced and removed by wastewater treatment processes. This does not include grit, garbage, and large solids.

Sludge is generated by wastewater treatment processes at municipal and industrial facilities.

**Solid Waste** is any garbage or refuse, sludge from a waste water treatment plant, water supply treatment plant, or air pollution control facility and other discarded material including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and from community activities, but does not include solid or dissolved materials in domestic sewage, or solid or dissolved material in irrigation return flows or industrial discharges which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended.

Solid waste does not include inert wastes, manures and crop residues ultimately returned to the soils at agronomic rates, and any agricultural solid waste which is managed and regulated pursuant to rules adopted by the Idaho Department of Agriculture. DEQ reserves the right to use existing authorities to regulate agricultural waste that impacts human health or the environment.

Solid waste is regulated under "Solid Waste Management Rules", IDAPA 58.01.06. Wastes otherwise regulated by DEQ (i.e. this permit) are not regulated under 58.01.06.

**Waste Solids** include sludge and wastes otherwise regulated by DEQ in accordance with IDAPA 58.01.06.001.03.a.xii. Waste solids may include vegetative waste, silt and mud containing organic matter, and other non-inert solid wastes.

Inert wastes are defined as non-combustible, nonhazardous, and non-putrescible solids wastes that are likely to retain their physical and chemical structure and have a de minimis potential to generate leachate under expected conditions of disposal, which includes resistance to biological attack.

Waste solids require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650.

### **9.1.5 Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801)**

Temporary cessation of operations and closure must be addressed as follows:

**01. Temporary Cessation.** A permittee shall implement any applicable conditions specified in the permit for temporary cessation of operations. When the permit does not specify applicable temporary cessation conditions, the permittee shall notify the Director prior to a temporary cessation of operations at the facility greater than sixty (60) days in duration and any cessation not for regular maintenance or repair. Cessation of operations necessary for regular maintenance or repair of a duration of sixty (60) days or less are not required to notify the Department under this section. All notifications required under this section shall include a proposed temporary cessation plan that will ensure the cessation of operations will not pose a threat to human health or the environment. (4-7-11)

**02. Closure.** A closure plan shall be required when a facility is closed voluntarily and when a permit is revoked or expires. A permittee shall implement any applicable conditions specified in the permit for closure of the facility. Unless otherwise directed by the terms of the permit or by the Director, the permittee shall submit a closure plan to the Director for approval at least ninety (90) days prior to ceasing operations. The closure plan shall ensure that the closed facility will not pose a threat to human health and the environment. Closure plan approval may be conditioned upon a permittee's agreement to complete such site investigations, monitoring, and any necessary remediation activities that may be required. (4-7-11)

### **9.1.6 Plan of Operation (IDAPA 58.01.17.300.05)**

The PO must comply with the following:

**05. Reuse Facility Operation and Maintenance Manual or Plan of Operations.** A facility's operation and maintenance manual must contain all system components relating to the reuse facility in order to comply with IDAPA 58.01.16 "Wastewater Rules," Section 425. Manuals and manual amendments are subject to the review and approval provision therein. In addition to the content required by IDAPA 58.01.16.425, manuals for reuse facilities shall include, if applicable: operation and management responsibility, permits and standards, general plant description, operation and control of unit operations, land application site maps, wastewater characterization, cropping plan, hydraulic loading rate, constituent loading rates, compliance activities, seepage rate testing, site management plans, monitoring, site operations and maintenance, solids handling and processing, laboratory testing, general maintenance, records and reports, store room and inventory, personnel, an emergency operating plan, and any other information required by the Department. (4-7-11)

### **9.1.7 Ten-Year Lagoon Seepage Testing (IDAPA 58.01.16.493.02)**

Seepage testing must meet the following requirements:

c. **Subsequent Tests.** All lagoons covered under these rules must be seepage tested by an Idaho licensed professional engineer, an Idaho licensed professional geologist, or by individuals under their supervision every ten (10) years after the initial testing. (5-8-09)

e. **Procedures for Performing a Seepage Test.** The procedure for performing a seepage test or alternative analysis must be approved by the Department, and the test results must be submitted to the Department. If an existing lagoon has passed a seepage test before April 15, 2012 and submitted the results to the Department, the owner of that lagoon has ten (10) years from the date of the testing to comply with this requirement. (5-8-09)

### 9.1.8 Ground Water Quality (IDAPA 58.01.11)

The permittee shall comply with the requirements of "Ground Water Quality Rule" (IDAPA 58.01.11).

## 9.2 Administrative

Requirements for administration of the permit are defined as follows.

### 9.2.1 Permit Modification (IDAPA 58.01.17.700)

**01. Modification of Permits.** A permit modification may be initiated by the receipt of a request for modification from the permittee, or may be initiated by the Department if one (1) of more of the following causes for modification exist: (4-7-11)

**a. Alterations.** There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit. (4-7-11)

**b. New standards or regulations.** The standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued. (4-7-11)

**c. Compliance schedules.** The Department determines good cause exists for modification of a compliance schedule or terms and conditions of a permit. (4-7-11)

**d. Non-limited pollutants.** When the level of discharge of any pollutant which is not limited in the permit exceeds the level which may cause an adverse impact to surface or ground waters. (4-7-11)

**e. To correct technical mistakes,** such as errors in calculation, or mistaken interpretations of law made in determining permit conditions. (4-7-11)

**f. When a treatment technology proposed,** installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit. (4-7-11)

**02. Minor Modifications.** Minor modifications are those which if granted would not result in any increased hazard to the environment or to the public health. If a permit modification satisfies the criteria for "minor modifications," the permit may be modified without issuance of a draft permit or public review. Minor modifications are normally limited to: (4-7-11)

**a. The correction of typographical errors or formatting changes;** (4-7-11)

**b. Transfer of ownership or operational control, or responsible official;** (4-7-11)

**c. A change in monitoring or reporting frequency requirements, or revision of a laboratory method;** (4-7-11)

**d. Change compliance due date in a schedule of compliance, provided the new date does not exceed six (6) months;** (4-7-11)

**e. Change or add a sampling location;** (4-7-11)

**f. Change to a higher level of treatment without a change in end uses;** (4-7-11)

- g. Change in terminology; (4-7-11)
- h. Removal of an allowed use; (4-7-11)
- i. Correct minor technical errors, such as citations of law, and citations of construction specifications; (4-7-11)
- j. Change in a contingency plan resulting in equal or more efficient responsiveness; or (4-7-11)
- k. Removal of acreage from irrigation without an increase in loadings. (4-7-11)

**03. Major Modifications.** All modifications not considered minor shall be considered major modifications. The procedure for making major modifications shall be the same as that used for a new permit under these rules. Some examples of the major modifications are: (4-7-11)

- a. Changes in the treatment system; (4-7-11)
- b. Adding an allowed use; (4-7-11)
- c. Changes to a lower (less treated) class of water; (4-7-11)
- d. Addition of acreage used for irrigation; or (4-7-11)
- e. Changes to less stringent discharge limitations. (4-7-11)

### 9.2.2 Permit Transfer (IDAPA 58.01.17.800)

**01. General.** A permit may be transferred only upon approval of the Department. No transfer is required for a corporate name change as long as the secretary of state can verify that a change in name alone has occurred. An attempted transfer is not effective for any purpose until approved in writing by the Department. (4-7-11)

**02. Request for Transfer.** Either the permit holder (permittee) or the person to whom the permit is proposed to be transfer (transferee) shall submit to the department a request for transfer at least thirty (30) days before the proposed transfer date. The request for transfer shall include: (4-7-11)

- a. Legal name and address of the permittee; (4-7-11)
- b. Legal name and address of the transferee; (4-7-11)
- c. Location and the common name of the facility; (4-7-11)
- d. Date of proposed transfer; (4-7-11)
- e. Sufficient documentation for the Department to determine that the transferee will meet the requirements listed in IDAPA 58.01.16 "Wastewater Rules," Section 409, relating to technical, financial and managerial capacity; (4-7-11)
- f. A signed declaration by the transferee that the transferee has reviewed the permit and understands the terms of the permit; (4-7-11)
- g. A sworn statement that the request is made with the full knowledge and consent of the permittee if the transferee is submitting the request; (4-7-11)
- h. Identification of any judicial decree, compliance agreement, enforcement order, or other outstanding obligating instrument, the terms of which have not been met, along with legal instruments sufficient to

address liabilities under such decree, agreement, order, or other obligating instrument; and (4-7-11)

i. Any other information the director may reasonably require. (4-7-11)

**03. Effective Date of Transfer.** Responsibility for compliance with the terms and conditions of the permit and liability for any violation associated therewith is assumed by the transferee, effective on the date indicated in the approved transfer. (4-7-11)

**04. Compliance with Permit Conditions Pending Transfer Approval.** Prior to a transfer approval, the permittee shall continue to be responsible for compliance with the terms and conditions of the permit and be liable for any violation associated therewith, regardless of whether ownership or operational control of the permitted facility has been transferred. (4-7-11)

**05. Transferee Liability Prior to Transfer Approval.** If a proposed transferee causes or allows operation of the facility under his ownership or control before approval of the permit transfer, such transferee shall be considered to be operating without a permit or authorization required by these rules and may be cited for additional violations as applicable. (4-7-11)

**06. Compliance Record of Transferee.** The Director may consider the prior compliance record of the transferee, if any, in the decision to approve or disapprove a transfer. (4-7-11)

### 9.2.3 Permit Revocation (IDAPA 58.01.17.920)

**01. Conditions for Revocation.** The Director may revoke a permit if the permittee violates any permit condition or these rules, or the Director becomes aware of any omission or misrepresentation of condition or information relied upon when issuing the permit. (4-7-11)

**02. Notice of Revocation.** Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee requests an administrative hearing in writing. The hearing shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure Before the Board of Environmental Quality.” (5-3-03)

**03. Emergency Action.** If the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Director shall provide the permittee a revocation hearing and prior notice thereof. Such hearings shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure Before the Board of Environmental Quality.” (3-15-02)

**04. Revocation and Closure.** A permittee shall perform the closure requirements in a permit, the closure requirements of these rules, and complete all closure plan activities notwithstanding the revocation of the permit. (4-7-11)

#### **9.2.4 Violations (IDAPA 58.01.17.930)**

Any person violating any provision of these rules or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor. (4-1-88)

#### **9.2.5 Severability**

The provisions of this permit are severable, and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

### **10 Other Applicable Laws**

DEQ may refer enforcement of the following provisions to the state agency authorized to enforce that rule. The permittee shall comply with all applicable provisions identified in this section, as well as all other applicable federal, state, and local laws, statutes, and rules.

#### **10.1 Owner Responsibilities for Well Use and Maintenance**

##### **10.1.1 Well Use**

The well owner must not operate any well in a manner that causes waste or contamination of the ground water resource. Failure to operate, maintain, knowingly allow the construction of any well in a manner that violates these rules, or failure to repair or properly decommission (abandon) any well as herein required will subject the well owner to civil penalties as provided by statute. See IDAPA 37.03.09.036.01 and consult the Idaho Department of Water Resources (IDWR) for more information.

##### **10.1.2 Well Maintenance**

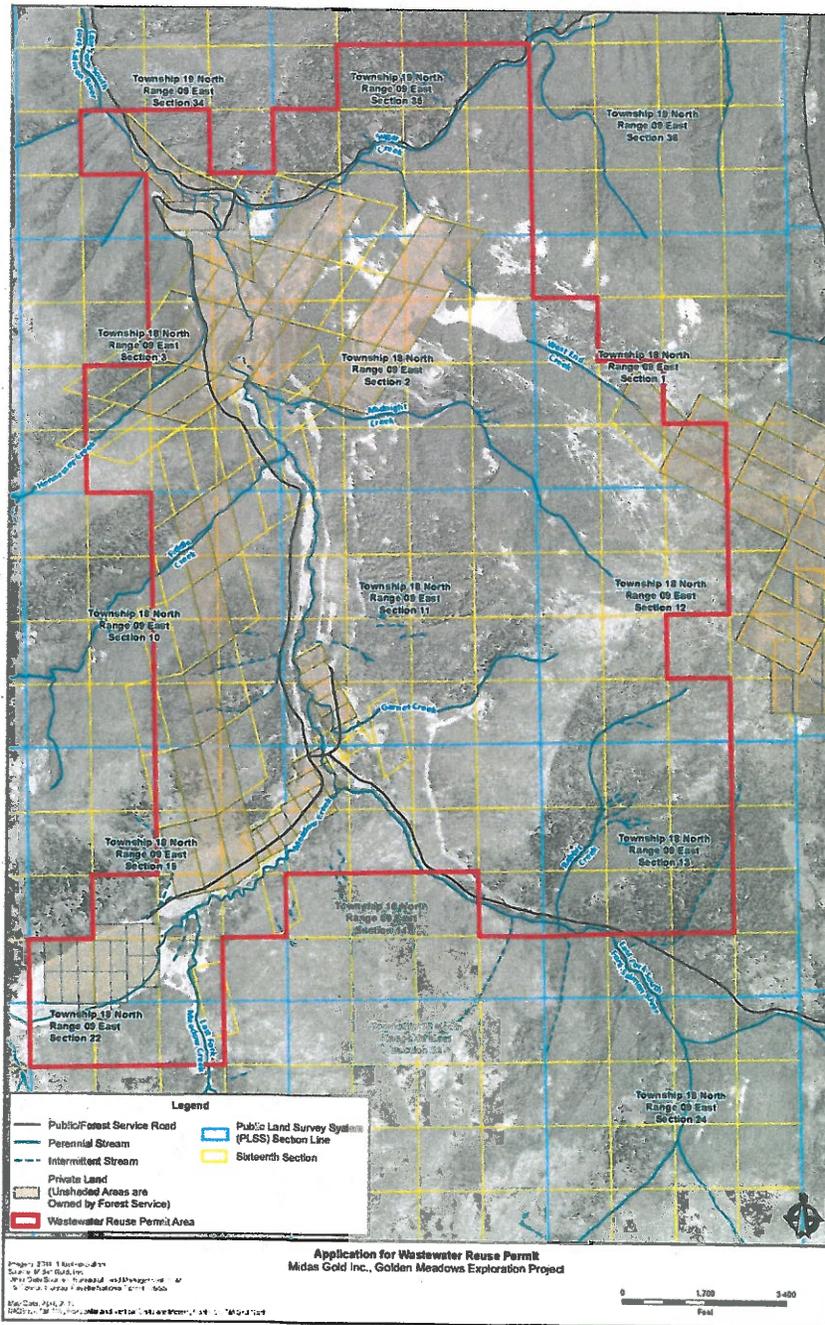
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant well must have the well repaired by a licensed well driller under a permit issued by the IDWR director in accordance with the applicable rules. See IDAPA 37.03.09.036.02 and consult IDWR for more information.

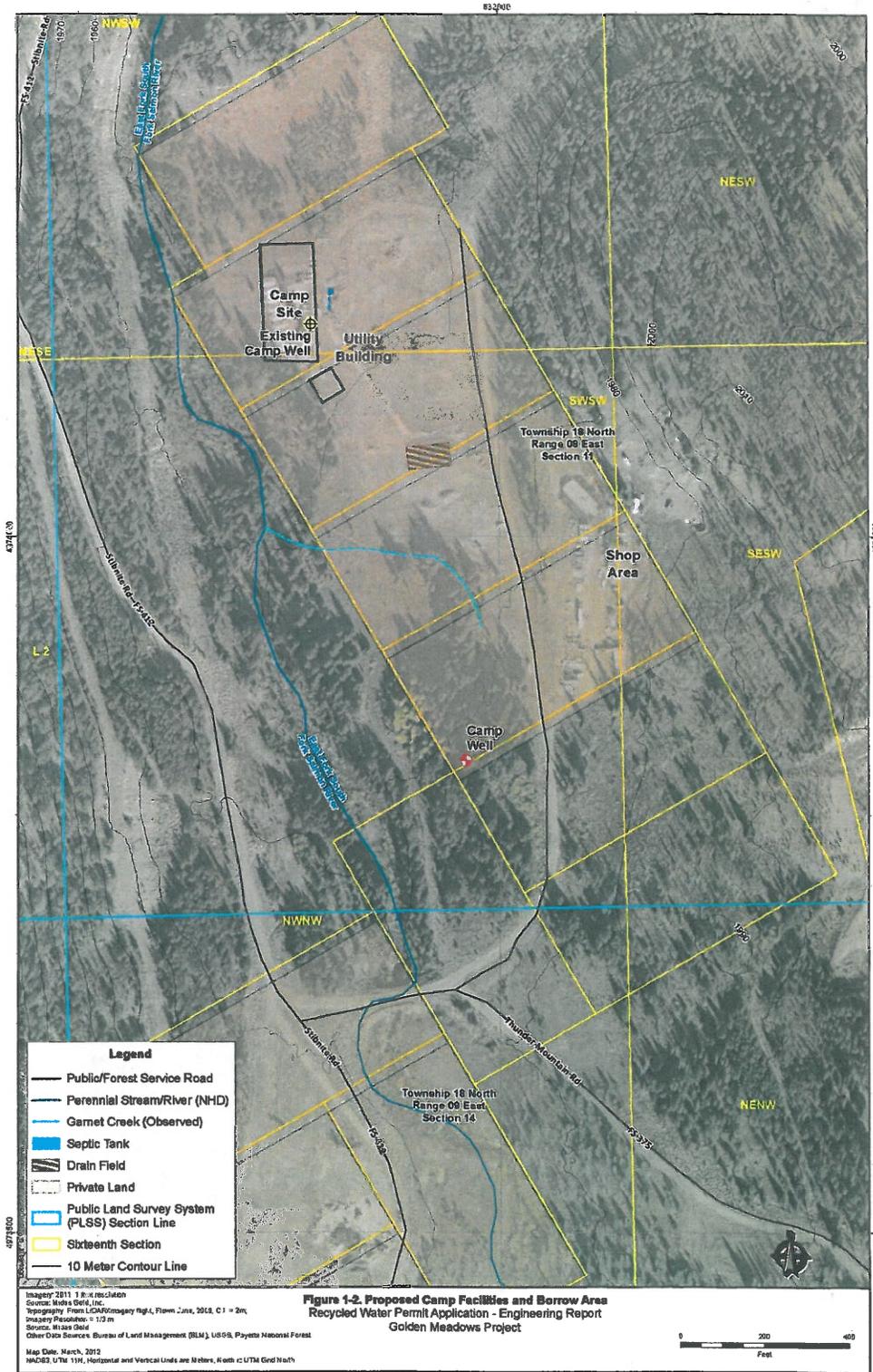
##### **10.1.3 Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource**

The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the IDWR director in accordance with the applicable rules. See IDAPA 37.03.09.036.06 and consult the IDWR for more information.

# 11 Site Maps

## 11.1 Facility Maps





Golden Meadows Camp Area

### 11.2 General Area Maps

