

Idaho Department of Environmental Quality Reuse Permit M-228-02

(Previous Permit No. M-228-01)

Midas Gold Idaho, Inc. (hereafter “permittee”) is hereby authorized to construct, install, and operate a reuse facility in accordance with (1) this permit; (2) IDAPA 58.01.17 “Recycled Water Rules”; (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 August 26, 2025.



Signature

August 26, 2020

Date

Aaron Scheff

Regional Administrator
Boise Regional Office
Idaho Department of Environmental Quality

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

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1. Common Acronyms/Abbreviations and Definitions

BOD ₅	5-day biochemical oxygen demand
CA	compliance activity
COD	chemical oxygen demand
cwt	a unit of weight measurement equal to 100 pounds
DEQ	Idaho Department of Environmental Quality
director	DEQ director or designee unless otherwise specified
E _i	irrigation efficiency
EPA	United States Environmental Protection Agency
FM	prefix for flow measurement/monitoring location, device, or method reporting serial number
GW	prefix for ground water reporting serial number
IDAPA	Numbering designation for all administrative rules in Idaho promulgated according to the Idaho Administrative Procedure Act
IDWR	Idaho Department of Water Resources
IPDES	Idaho Pollutant Discharge Elimination System
IWR	irrigation water requirement — any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season.
lb	pound
LG	prefix for lagoon reporting serial number
material change	a change in a document required by this permit that would impact DEQ's ability to ensure compliance and protect human health and the environment
µmhos/cm	micromhos per centimeter
MG	million gallons
mg/kg	milligram per kilogram
mg/L	milligram per liter
mL	milliliter
MU	management unit, prefix for management unit reporting environmental serial number
modal contact time	The amount of time elapsed between the time that a tracer, such as salt or dye, is injected into the influent at the entrance to a chamber and the time that the highest concentration of the tracer is observed in the effluent from the chamber.

NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric turbidity unit
N	nitrogen
ppm	parts per million
P	phosphorus
PO	plan of operation
QAPP	quality assurance project plan
responsible official	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 provides 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.
SU	prefix for soil monitoring unit reporting serial number
SW	prefix for supplemental irrigation water reporting serial number
WW	prefix for wastewater reporting serial number
WWTP	wastewater treatment plant
yr	year

2. Facility Information

Information Type	Information Specific to This Permit
Type and class of recycled water	Municipal, Class A
Method of treatment and reuse	Screening, activated sludge treatment, membrane filtration (membrane bioreactor [MBR] WWTP), chlorine disinfection. Slow rate land application and non-irrigation uses per Section 4.5.
Collection and treatment system classification	Wastewater collection system classification: Class I Wastewater treatment system classification: Class II
Facility location	Stibnite, Idaho. On the Stibnite Road (FS 412), approximately 15 miles east of Yellow Pine. SW1/4 of SW1/4 and NW1/4 of SW1/4 of Section 11, T18N, R9E
Facility mailing address	405 S 8 th Street #201 Boise, ID 83702
Facility responsible official and authorized representative	Responsible Official: Alan Haslam Vice President of Permitting Telephone: (208) 901-3053 E-mail: ahaslam@midasgoldinc.com Authorized Representative: Kyle Fend Field Operations Manager Telephone: (208) 901-3047 E-mail: fend@midasgoldinc.com Notify DEQ within 30 days if a change in personnel occurs for any of the facility contacts. DEQ will issue a minor permit modification to confirm the change.
Ground water	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. General GW flow direction: Parallel to the direction of Meadow Creek in the valley floor, toward Meadow Creek on the valley sides
Surface water	East Fork of the South Fork Salmon River (EFSFSR) (between Sugar Creek and Meadow Creek). Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply. Sugar Creek (including West End Creek). Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply. West End Creek. Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply. Unnamed Creek. Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply.

	<p>Midnight Creek. Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply.</p> <p>Fiddle Creek. Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply.</p> <p>Garnet Creek. Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply.</p> <p>EFSFSR (Above Meadow Creek). Beneficial uses: cold water biota, salmonid spawning, primary contact recreation, drinking water supply.</p>
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3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-228-01 As specified	Plan of Operation (PO): The permittee shall update the PO as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request.
CA-228-02 As specified	Quality Assurance Project Plan (QAPP): The QAPP shall be amended whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request.
CA-228-03 Prior to discharge of Class A Recycled Water for Reuse	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.
CA-228-04 30 days prior to initial startup and operation of wastewater treatment and reuse facilities.	The permittee shall submit a completed Public Wastewater System Operator Licensure Record form to DEQ. The form can be found at http://www.deq.idaho.gov/water-quality/wastewater/pwws-classification-licensure/system-classifications/ . If a party other than the permittee operates and maintains the wastewater treatment facilities and/or the reuse site, a copy of the signed contract(s) or agreement(s) shall be submitted to DEQ and the permittee shall verify the third party will operate and maintain the wastewater treatment facilities and/or the reuse site to meet the conditions of the permit.
CA-228-05 30 days prior to initial startup and operation of wastewater treatment and reuse facilities.	The permittee shall submit record drawings for the construction of the modifications to the recycled water storage tank for the wastewater treatment facilities, sealed by an Idaho Professional Engineer; or, if the actual construction does not have significant deviations from the originally approved plans, a written statement from the same Idaho Professional Engineer, certifying that the modifications were constructed in substantial accordance with the approved plans.
CA-228-06 18 months prior to the expiration date of the permit	Pre-application Conference: If the permittee intends to continue operating the reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application conference to discuss the compliance status of the facility and the content required for the reuse permit application package.
CA-228-07 12 months prior to the expiration date of the permit	Renewal Permit Application: The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-228-06 and identified at the pre-application conference.

4. Permit Limits and Conditions

4.1 Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency (E _i)	Maximum Acres ^a Allowed
MU-228-01	Project Area	Class A	4,514

- a. Maximum acres represent the total permitted acreage of the MU as provided by the permittee. If the permittee uses less acreage in any season or year, then loading rates shall be presented and compliance shall be determined based on the actual acreage used during each season or year.

4.2 Hydraulic Loading Limits

Serial Number	Growing Season Hydraulic Loading	Nongrowing Season Hydraulic Loading
MU-228-01 (Reclamation sites) ^a	Substantially at the irrigation water requirement (IWR) ^b	Not allowed
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

- a. Record abnormal conditions daily, as necessary, including ponding, excessive ice buildup, or runoff from the permitted site.
 b. For compliance purposes, the method for calculating the IWR shall be specified in the PO.

4.3 Constituent Loading Limits

Serial Number	Constituent Loading from All Sources		
	Nitrogen (lb/acre)	Non-volatile dissolved solids (lb/acre)	Phosphorus (lb/acre)
MU-228-01	None	None	None

4.4 Management Unit Buffer Zones – *Not Required*

4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season	May 1 through September 30 (153 days)
Non-Growing Season	October 1 to April 30 (212 days)

Category	Permit Limits and Conditions
Application Season	<ul style="list-style-type: none"> • Hydroseeding and Irrigation only allowed during growing season. • Other uses allowed year-round.
Reporting Year for Annual Reporting Requirement	January 1 through December 31
Allowable Uses of Recycled Water	<ul style="list-style-type: none"> • Hydroseeding and Irrigation of reclamation sites on lands owned by permittee, or that the permittee has the right to use. Hydroseeding and irrigation is also permitted on reclamation sites on U.S. Forest Service controlled lands after the permittee has received written authorization from the U.S. Forest Service, as required under Recycled Water Use on U.S. Forest Service Controlled Lands in this table, below. • Dust suppression on roads and construction areas within MU-228-01. Recycled water is not allowed to be applied on snow, snow covered roads, or frozen ground • Toilet flushing, when only trained maintenance personnel have access to the plumbing for repair. • Subsurface discharge in the existing drainfield.
Recycled Water Use on U.S. Forest Service Controlled Lands	If the permittee were to propose utilizing recycled water on U.S. Forest Service lands, then 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 certified and licensed in the State of Idaho wastewater operator training program at the operator class level specified in IDAPA 58.01.16.203 and properly trained to operate and maintain the system. This shall include at least one individual that has a wastewater treatment land application license.
Turbidity Limits of the Filtered Wastewater Effluent, prior to disinfection	<ul style="list-style-type: none"> • Daily arithmetic mean of all measurements of turbidity shall not exceed 0.2 NTU. • Turbidity shall not exceed 0.5 NTU at any time • When the arithmetic mean of the continuous turbidity measurements is above the instantaneous limit of 0.5 NTU for more than five (5) minutes, the treated wastewater effluent shall be automatically diverted to the Influent Pumping Station until the arithmetic mean of the continuous turbidity measurements is below the instantaneous limit.

Category	Permit Limits and Conditions
Total Coliform Limits in Recycled Water	<ul style="list-style-type: none"> 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 five (5) days for which analyses have been completed. No sample shall exceed 23 total coliform organisms/100 mL in any confirmed sample.
Disinfection Requirements	<p>A chlorine disinfection process that provides a disinfection concentration contact time (CT) of four hundred and fifty (450) milligram-minutes per liter (mg-min/L) measured at the end of the contact tank, based on the total chlorine residual and a modal contact time of not less than ninety (90) minutes based on peak day flow.</p> <p>If the total chlorine residual drops below the instantaneous value required to provide a minimum CT of 450 mg-min/L for more than five (5) minutes, the treated wastewater effluent shall be automatically diverted to the Influent Pumping Station until the total chlorine residual is above the required value.</p>
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 ₅) Limit	BOD ₅ shall not exceed 10 mg/L based on the monthly arithmetic mean as determined from weekly composite samples.
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 the approved Runoff Management Plan.
Ground Water Protection	The activities authorized by this permit shall be conducted in accordance with IDAPA 58.01.11, "Ground Water Quality Rule."
Utility User Agreement	<p>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 shall be required to sign a Utility User Agreement 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> <p>Executed Utility User Agreements shall be retained by the permittee until Class A recycled water is no longer available to the user.</p>
Posting/Labeling	<ul style="list-style-type: none"> 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.

Category	Permit Limits and Conditions
	<ul style="list-style-type: none"> • 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. • All new buried pipe, including service lines, valves, and other appurtenances, shall be colored purple, Pantone 512, 522, or equivalent. • 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. • 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. • 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.
Fencing	Fencing is not required
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 record drawings, 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.

Category	Permit Limits and Conditions
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 Wastewater, Recycled Water, and Supplemental Irrigation Water Sampling and Analyses

5.1.1 Constituent Monitoring

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (mg/L unless otherwise specified)
WW-228-01	WWTP influent	Weekly Composite ^a , reported as a monthly arithmetic mean of weekly composite samples.	<ul style="list-style-type: none"> - BOD₅ - Total nitrogen - Total phosphorus - Total suspended solids (TSS) - Total dissolved solids (TDS) - Volatile dissolved solids (VDS)
WW-228-02 Discharge from membrane filtration prior to disinfection	WWTP effluent prior to disinfection	Continuously recording Turbidimeter	<ul style="list-style-type: none"> - Turbidity (NTU)
WW-228-03 WWTP discharge downstream of the Storage Tank	Recycled water to MU-228-01	Weekly Composite ^a , reported as a monthly arithmetic mean of weekly composite samples.	<ul style="list-style-type: none"> - BOD₅ - Total nitrogen - Total phosphorus - Total suspended solids (TSS) - Total dissolved solids (TDS) - Volatile dissolved solids (VDS)
		Grab / one sample daily, seven (7) days per week, when discharging.	<ul style="list-style-type: none"> - pH (standard units)
		Grab / one sample weekly, when discharging.	<ul style="list-style-type: none"> - Total coliform (total coliform organisms/100 mL)
		Continuously	<ul style="list-style-type: none"> - Total chlorine residual

a. Weekly composite as described in the QAPP

5.1.2 Management Unit and Other Flow Monitoring

Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Parameters
FM-228-01 Flowmeter at the WWTP Influent Pumping Station	Flow into WWTP	Daily meter reading / monthly compilation of data	<ul style="list-style-type: none"> - Volume (MGD) - Volume (MG/month) - Volume (MG/year)

Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Parameters
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	Daily meter reading / monthly compilation of data	<ul style="list-style-type: none"> - Volume (MGD) - Volume (MG/month) - Volume (MG/year)
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	Daily meter reading / monthly compilation of data	<ul style="list-style-type: none"> - Volume (MGD) - Volume (MG/month) - Volume (MG/year)
FM-228-04 Hour meter on the septic system final dosing pumps	Flow into the drainfield	Daily pump run times / monthly compilation of data	<ul style="list-style-type: none"> - Runtime Hours (hrs/month) - Volume (MG/month) - Volume (MG/year)

5.2 Ground Water Monitoring – *Not Required*

5.3 Soil Monitoring – *Not Required*

5.4 Crop Monitoring – *Not Required*

5.5 Lagoon Information – *Not Applicable*

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:

1. A brief interpretive discussion of all required monitoring data. The discussion shall address data quality objectives, validation, and verification; permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.
2. Results of the required monitoring as described in section 5 of this permit. If the permittee monitors any parameter for compliance purposes 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. The report shall present all monitoring data in organized data summary tables to expedite review.
3. Status of all work described in section 3 of this permit.
4. Results of all backflow testing, repairs, and replacements required by section 9.1.1 of this permit.
5. Results of the annual calibration or flow verification of the flow measurement devices used to measure wastewater and supplemental irrigation water flows.
6. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.
7. A summary of all noncompliance events that occurred during the reporting year. Examples of noncompliance events that must be discussed include, but are not limited to: exceedance of permit limits, complaints, missed monitoring events, incorrect monitoring dates or frequencies, dry monitoring wells, uncontained spills causing runoff, construction without DEQ engineering plan approval, construction without engineering inspection, and reporting incorrect acreage.
8. Laboratory analytical reports for monitoring specified in section 5 of the permit. Chain of custody forms, supporting information for laboratory analytical reports, and quality assurance documentation shall be available for review upon request by DEQ.
9. Submittal of the calculations and observations for MUs specified in the table below:

Management Unit Serial Number	Parameter	Units
MU-228-01	Recycled water loading rate for irrigation of each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	Recycled water loading rate for hydroseeding of each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	SW loading rate for irrigation of each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	SW loading rate for hydroseeding of each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	Total hydraulic loading rate for irrigation of each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	Total hydraulic loading rate for hydroseeding of each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	Irrigation water requirement (IWR) for each reclamation site.	<ul style="list-style-type: none"> - Inches/acre-month - Inches/acre-growing season - MG/acre-month - MG/month - MG/acre-growing season - MG/growing season
	Recycled water flow volume for dust suppression.	<ul style="list-style-type: none"> - MG/month - MG/year
	Recycled water flow volume for man-camp usage (toilets).	<ul style="list-style-type: none"> - MG/month - MG/year

Management Unit Serial Number	Parameter	Units
	Flow volume for WW discharged to the septic system.	- MG/month - MG/year
	Turbidity of Recycled Water prior to disinfection.	- NTU - daily arithmetic mean - NTU - daily maximum recorded value
	Disinfection modal contact time. Calculated continuously using the WWTP influent instantaneous flow (measured at FM-228-01) and the effective volume (25% of the total volume) of the chlorine contact tank plus the bottom 3 foot-6 inch height of the storage tank.	- Minutes – daily arithmetic mean - Minutes – daily minimum recorded value
	Disinfection concentration contact time (CT). Calculated continuously by multiplying the disinfection modal contact time by the instantaneous total chlorine residual.	- mg-min/L – daily arithmetic mean - mg-min/L – daily minimum recorded value
<p>Other Reporting Requirements:</p> <ol style="list-style-type: none"> Identify all disturbed sites being reclaimed and associated acreages with maps delineating site locations. Description of all vegetation types for each reclamation site. Visual observation of field conditions: areas of ponding, ice, and unusual conditions and record daily as necessary when land applying. Keep records available at the facility and have records available for DEQ inspection. 		

6.1.3 Submittals

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

- Permit applications shall be signed by the responsible official as described below:
 - For a corporation by a responsible corporate officer
 - For a partnership or sole proprietorship by a general partner or the proprietor, respectively
 - For a municipality, state, federal, Indian tribe, or other public agency by either the principal executive officer, ranking elected official, or a person of decision-making authority who can legally bind the permittee with respect to the permit.
- Annual reports and other information required by this permit 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 all of the following are true:
 - The authorization is made in writing by the responsible official.
 - 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.
 - The written authorization is submitted to DEQ.

Submit all applications, annual reports, and other information required by this permit to the following DEQ regional office at this address:

Engineering Manager
Idaho Department of Environmental Quality
Boise Regional Office
1445 North 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 duly 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-228-02, 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."

Permit applications shall include the following certification statement and be signed, dated, and certified by the permittee's Responsible Official:

"I certify that the information provided in this submittal 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, non-issuance of the permit, or other enforcement action as provided for under Idaho law."

Other information submitted to DEQ as required by the permit shall include the certification statement immediately above and be signed, dated, and certified by the permittee's Responsible Official or duly Authorized Representative.

6.2 Emergency and Noncompliance Reporting

Report noncompliance incidents to the DEQ Boise Regional Office at (208) 373-0550 / 1-888-800-3480.

In case of public health emergencies, call the 24-hour Idaho Emergency Medical Services Communications Center number at (800) 632-8000.

Section 8 of this permit and IDAPA 58.01.17.500.06 provide the reporting requirements for facilities.

All instances of permit non-compliance that may endanger public health or the environment and unauthorized discharges to surface waters of the State of Idaho shall be reported to DEQ Boise Regional Office by telephone (phone numbers provided in this section) within 24 hours from the time the permittee becomes aware of these events at the phone numbers provided in this section.

A written follow-up shall be provided to the DEQ Boise Regional Office within five days from the time the permittee became aware of the permit non-compliance or unauthorized discharge.

Reporting of unauthorized discharges to surface waters of the United States to the DEQ Idaho Pollutant Discharge Elimination System (IPDES) program may also be required. Contact

information for IPDES is provided below:

IPDES Compliance, Inspection, and Enforcement Lead
1410 N. Hilton Street
Boise, ID 83706
833-IPDES24 or 833-473-3724

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 based on 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 regulated by the EPA National Pollutant Discharge Elimination System (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 defined as 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 that 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 before to applying 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 may be generated by wastewater treatment processes at municipal and industrial facilities. A DEQ-approved sludge disposal plan, as outlined in IDAPA 58.01.16.650, may be required.

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 that 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 that 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 the “Solid Waste Management Rules” (IDAPA 58.01.06). Wastes otherwise regulated by DEQ (i.e., this permit) are not regulated under IDAPA 58.01.06.

Waste solids include sludge and wastes otherwise regulated by DEQ according 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 solid 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 Seepage Testing Requirements (IDAPA 58.01.16.493.02.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)

9.1.8 Ground Water Quality Rule (IDAPA 58.01.11)

The permittee shall comply with the requirements of the “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) or 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)

9.2.2 Permit Transferable (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)

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. Compliance with this permit does not relieve the permittee from applicable requirements in other 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

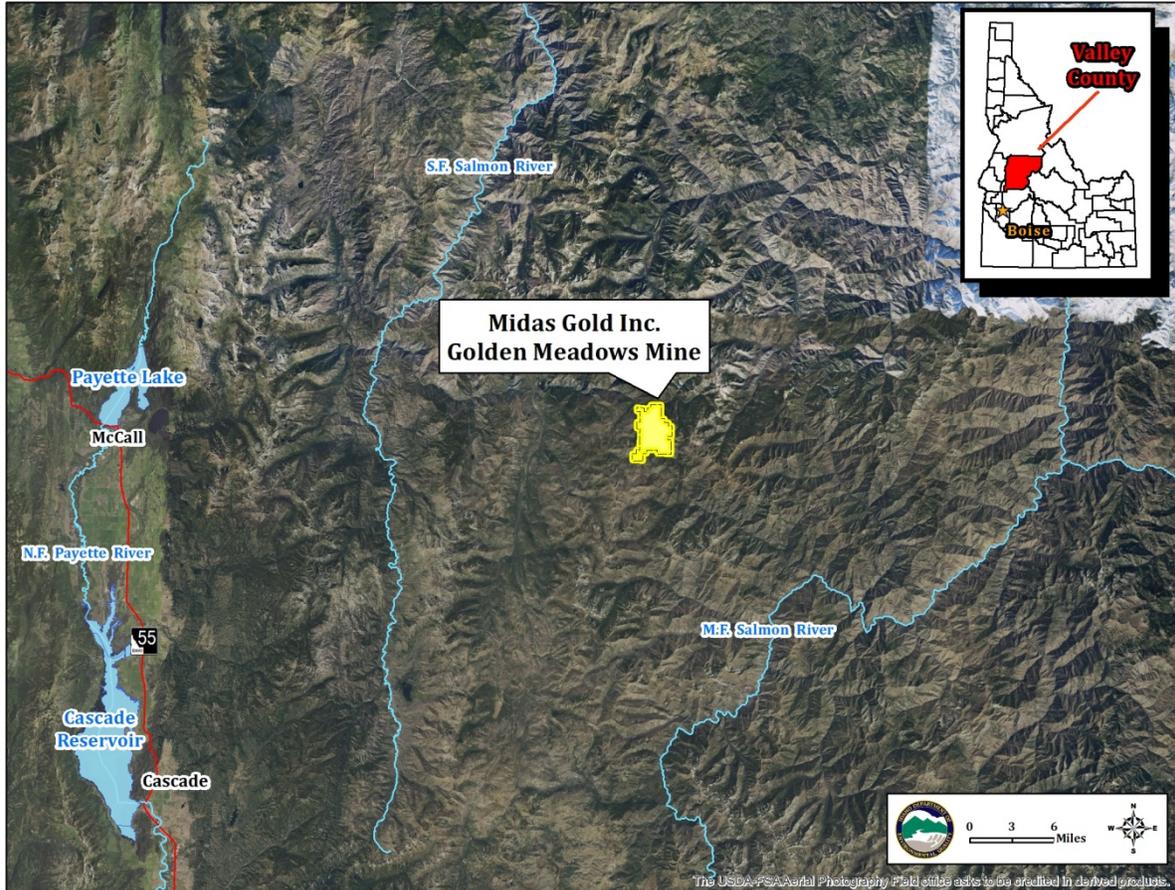
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant well must have the well repaired by a licensed well driller under a permit issued by the IDWR director according to 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 according to the applicable rules. See IDAPA 37.03.09.036.06 and consult IDWR for more information.

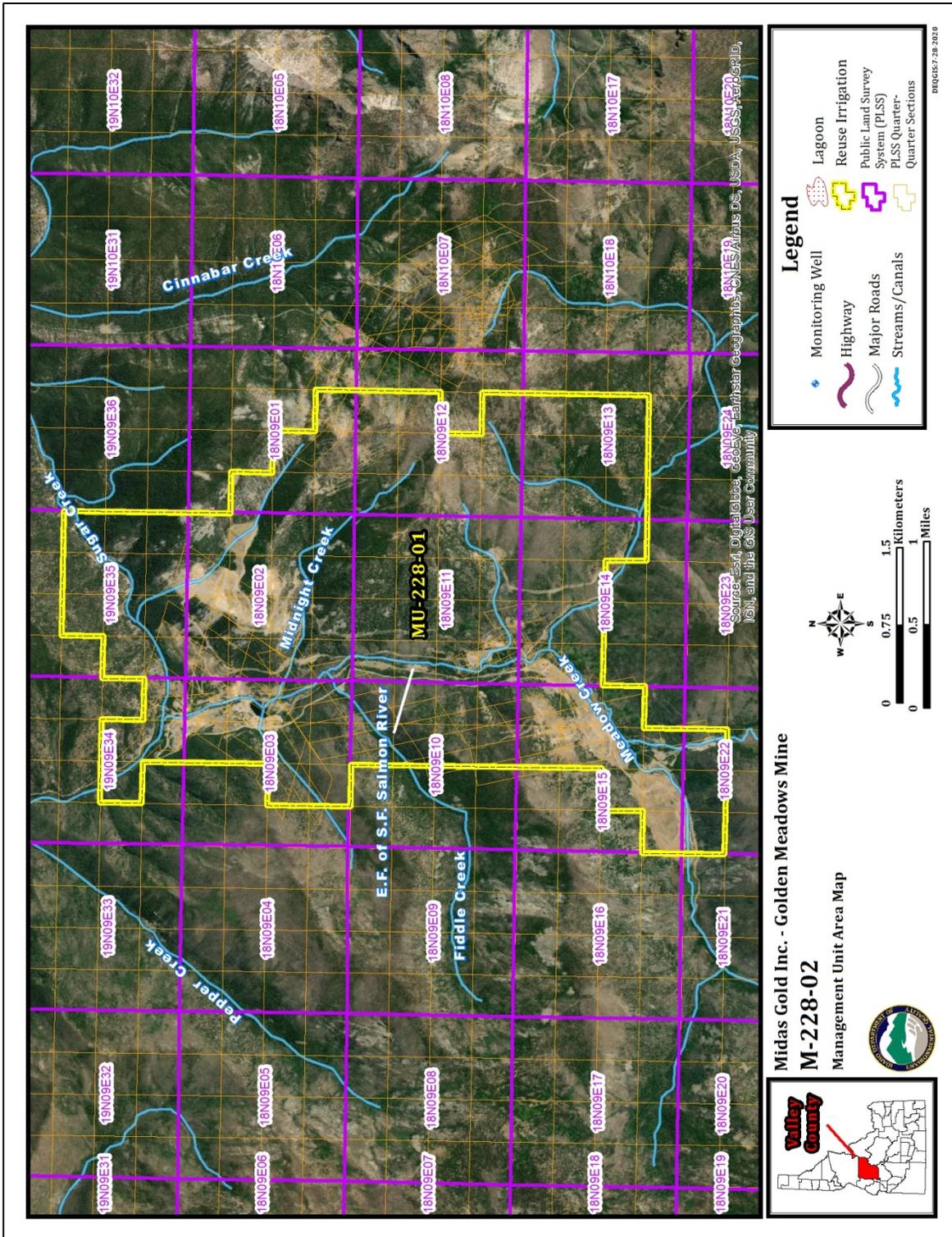
11. Site Maps

11.1 Regional Map

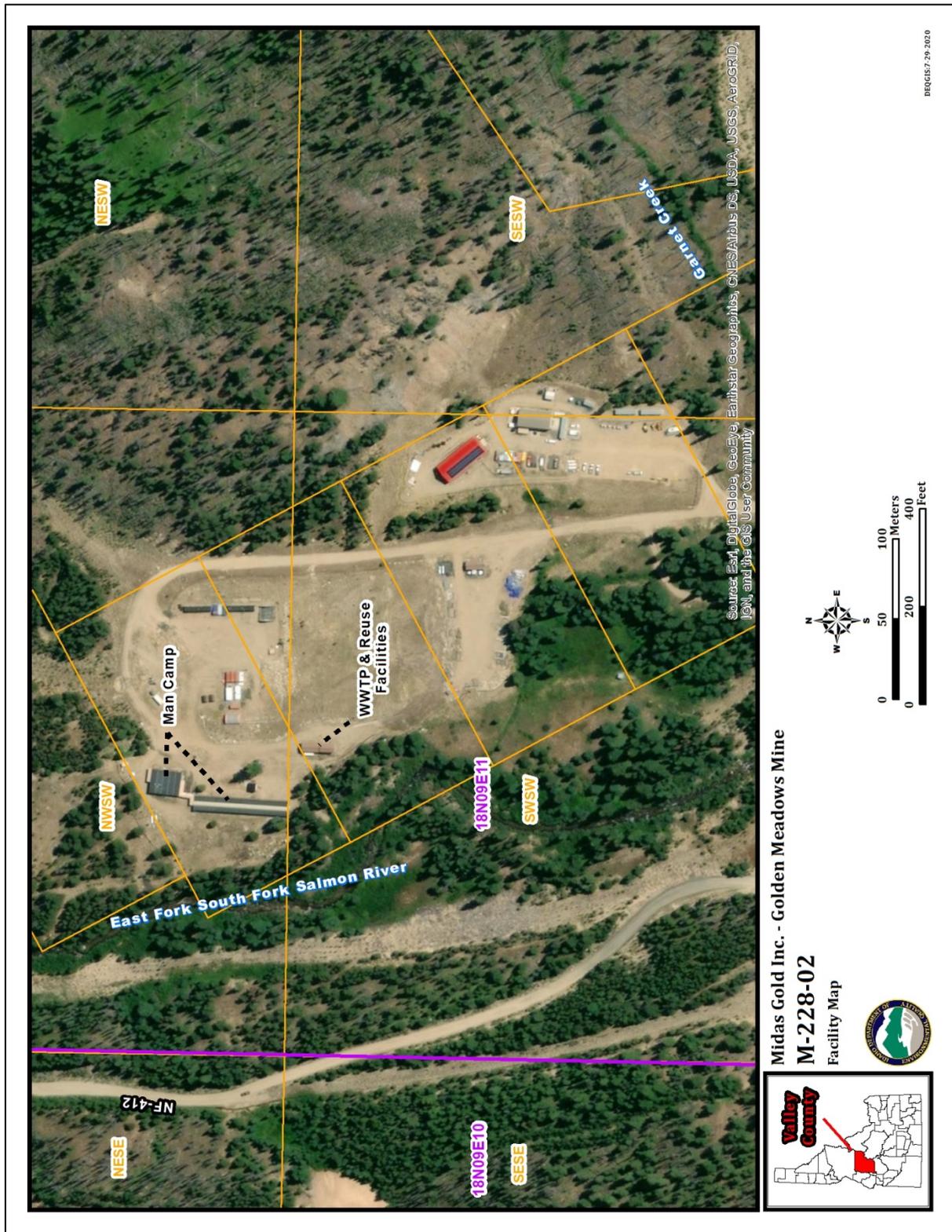


11.2 Facility Maps

11.2.1 Management Unit MU-228-01 Area Map



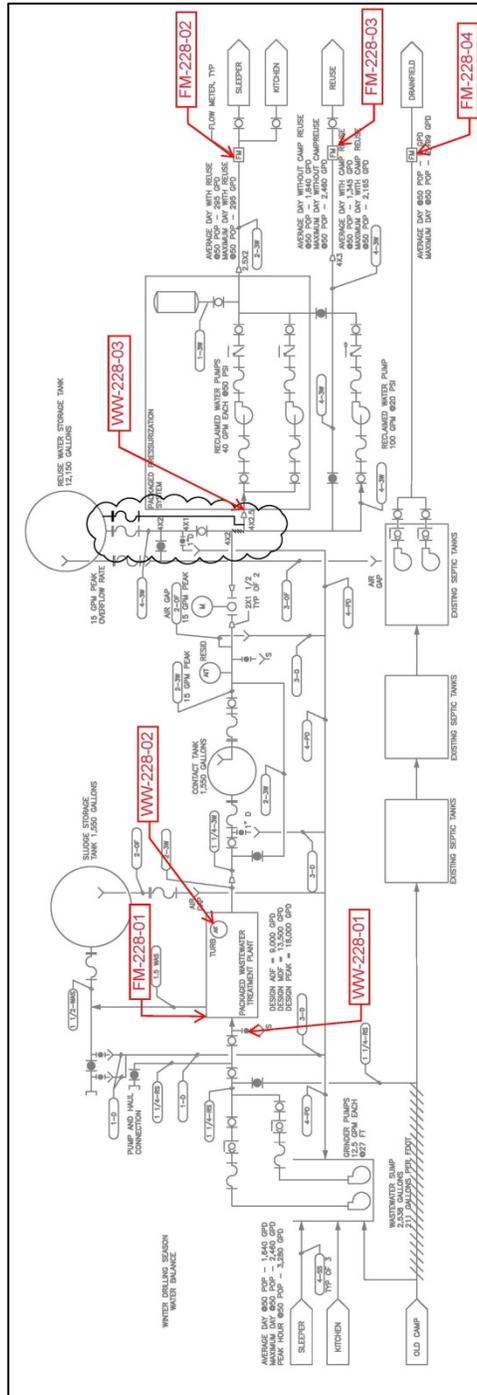
11.2.2 Facility Map



11.3 Other Maps and Figures

11.3.1 WWTP and Reuse Facilities Process Flow Diagram (PFD)

PFD includes constituent and flow monitoring serial numbers and locations.



11.3.2 WWTP Process & Instrumentation Diagram (P&ID) of Inlet, Screening, & Anoxic Tank

