Idaho Department of Environmental Quality
Reuse Permit
M-211-04

Avimor Water Reclamation Company (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 (5 years later).

DRAFT

Signature

Date

Aaron Scheff
Regional Administrator
Boise Regional Office
Idaho Department of Environmental Quality

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1. Common Acronyms/Abbreviations and Definitions

amsl	above mean sea level
bgs	below ground surface
CA	compliance activity
COD	chemical oxygen demand
crop uptake	those constituents assimilated by the crop from the soil, and those from applied fertilizer, biosolids and other soil amendments, recycled water, irrigation water, and other sources. Crop uptake excludes those constituents assimilated from the atmosphere, such as gaseous nitrogen fixed by legumes. Crop uptake plus atmospheric assimilated constituents equals crop content.
cwt	a unit of weight measurement equal to 100 pounds
DEQ	Idaho Department of Environmental Quality
DEQ Guidance	*Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater*, latest revision
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 groundwater 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
MBR	membrane bioreactor
MG	million gallons

MGD	million gallons per day
mg/kg	milligram per kilogram
mg/L	milligram per liter
mL	milliliter
MU	management unit, prefix for management unit reporting environmental serial number
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
yr	year

2. Facility Information

Information Type	Information Specific to This Permit
Class of recycled water	Municipal Class B Recycled Water
Method of treatment	Primary screening; conventional activated sludge with biological nutrient removal, chemical phosphorus reduction, and membrane solids separation (MBR); and chlorination. Aerated sludge tank for storage and treatment of sludge.
Method of reuse	Slow rate land application during the growing season only. Recycled water is permitted to be beneficially used to irrigate common areas during periods of non-use and agricultural crops. Rapid infiltration during the growing season and nongrowing season.
Collection and treatment system classification	Class I collection system Class IV treatment system
Facility location	17819 N. Streams Edge Way Boise, Idaho 83714 (208) 939-0343 Lat/Long (Treatment Plant Building) 43.764407°N 116.264466°W
Facility mailing address	620 SW Fifth Avenue, Suite 1100 Portland, Oregon 97204
Facility responsible official and authorized representative	Responsible Official: Thomas Puttman, Manager Avimor Water Reclamation Company 620 SW Fifth Avenue, Suite 1100 Portland, Oregon 97204 Phone: (503) 224-3454 Email: thomas.puttman@puttman.com Authorized Representative: Development Manager; address and phone same as above (Position currently held by Joe Payne) 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.
Groundwater	Spring Valley Creek Aquifer: groundwater is generally found from 6 to 90 feet bgs depending on location, and flow is generally to the south and west

Surface water	Spring Valley Creek flows southward past the development. Beneficial uses: Presumed use protections for cold water aquatic life and secondary contact recreation apply (IDAPA 58.01.02.101.01.a). Also agricultural water supply, industrial water supply, wildlife habitats, and aesthetics (IDAPA 58.01.02.100.03, 04, and 05).

3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-211-01 Six (6) months after permit issuance	**Plan of Operation (PO)**: The permittee shall submit to DEQ for review and approval an updated 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 most current PO Checklist available. The PO shall include the following site management plans, or the permittee may submit the site management plans individually: 1. Updated Operation & Maintenance (O&M) Manual 2. Crop Management Plan for Agricultural Management Units (prior to application of recycled water on these areas) 3. Buffer Zone Plan 4. Irrigation Management and Scheduling Plan 5. Emergency Operating Plan 6. Nuisance and Odor Management Plan 7. Runoff Management Plan The PO shall be updated 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.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-211-02 Six (6) months after permit issuance	**Quality Assurance Project Plan (QAPP)**: 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. The permittee must follow the QAPP when collecting, analyzing, and reporting monitoring data submitted to DEQ. The QAPP shall be designed to assist in planning for collecting, analyzing, and reporting all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following: 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 2. Maps indicating the location of each monitoring and sampling point 3. Qualification and training of personnel 4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee 5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report 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. 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 material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request.
CA-211- 03 As specified	**Agricultural Management Unit Reuse Plans and Specifications:** The permittee shall submit reuse plans and specifications for the Agricultural Management Units (MU-21101 through MU-21113) for DEQ review and approval prior to construction and application of any recycled water. The plans for the reuse facilities shall clearly delineate the locations of all potable water lines, existing and proposed wells, existing or proposed residences, and surface waters, sufficient to assess/establish compliance with the buffer zone and fencing requirements of this permit.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-211-04 Six (6) months prior to construction of slow rate land application facilities for any of the Agricultural Areas (MU-21101 through MU-21113)	**Groundwater Monitoring Plan for the Agricultural Areas**: Prior to construction of slow rate land application facilities for any of the Agricultural Area (MU-21101 through MU-21113), the permittee shall submit a Groundwater Monitoring Plan. The Groundwater Monitoring Plan shall be prepared by a qualified, registered professional in the State of Idaho, and shall address how groundwater will be monitored to assure compliance with IDAPA 58.01.11, *Ground Water Quality Rule*, for these MUs. The plan must include at least an assessment of groundwater monitoring needs; plans for a monitoring well network; and construction plans and specifications for the existing wells, and any proposed wells, including top-of-casing elevations for the monitoring wells. The plan must be implemented prior to construction of any of these land application facilities to collect baseline data. This must include obtaining any necessary permits from the Department of Water Resources (IDWR).
CA-211-05 As Specified in Compliance Activity Description	**Rapid Infiltration Basin Phosphorus Attenuation Study:** The permittee shall prepare and submit a study modeling the attenuation of phosphorus in the soils at the rapid infiltration basins (MU-21114) prior to requesting DEQ to modify the recycled water phosphorus concentration limit specified in Section 4.5 of this permit. The study shall include modeling of the fate and transport of phosphorus based on site-specific soil and groundwater parameters using methods approved by DEQ. The results of the study shall recommend a revised phosphorus limit based on such modeling, and shall be reviewed and accepted by DEQ in writing prior to any change in the phosphorus limit.
CA-211-06 Eighteen (18) months before permit expiration	**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-211-07 Twelve (12) months before permit expiration	**Permit Renewal Application:** The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-211-06 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-21101	Agricultural Area 1	Irrigation System Type and Irrigation Efficiency shall be specified in the Irrigation Management and Scheduling Plan in the PO approved by DEQ (See CA-211-01)	23.4
MU-21102	Agricultural Area 2		27.9
MU-21103	Agricultural Area 3		28.9
MU-21104	Agricultural Area 4		6.8
MU-21105	Agricultural Area 5		10.2
MU-21106	Agricultural Area 6		6.5
MU-21107	Agricultural Area 7		2.9
MU-21108	Agricultural Area 8		1.6
MU-21109	Agricultural Area 9		1.9
MU-21110	Agricultural Area 10		3.3
MU-21111	Agricultural Area 11		7.1
MU-21112	Agricultural Area 12		16.2
MU-21113	Agricultural Area 13		11.4
MU-21114	Rapid Infiltration Basins	Not Applicable	0.68
MU-21115	Landscape Irrigation Areas	Irrigation System Type and Irrigation Efficiency shall be specified in the Irrigation Management and Scheduling Plan in the PO approved by DEQ (See CA-211-01)	22.5
Total irrigation acreage (excludes RI Basin area)			170.6

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 Maximum Hydraulic Loading[a]
MU-21101 MU-21102 MU-21103 MU-21104 MU-21105 MU-21106 MU-21107 MU-21108 MU-21109 MU-21110 MU-21111 MU-21112 MU-21113 MU-21115	Substantially at the IWR[b]	Not allowed
MU-21114	0.30 MGD Maximum Daily	

a. Record daily, as necessary, abnormal conditions as a result of nongrowing season application 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 Crop Management Plan in the PO approved by DEQ.

4.3 Constituent Loading Limits

Serial Number	Constituent Loading from All Sources
	Nitrogen (lb/acre)
MU-21101 MU-21108 MU-21102 MU-21109 MU-21103 MU-21110 MU-21104 MU-21111 MU-21105 MU-21112 MU-21106 MU-21113 MU-21107	150% of typical crop uptake[a]
MU-21115	220 + 110 x (fraction of times clippings are removed from the site)

a. Typical crop uptake is the median constituent crop uptake from the three most recent years the crop has been grown. For crops having fewer than three years of on-site crop uptake data, other crop yield data or nutrient content values may only be used if DEQ provides written approval before growing season.

4.4 Management Unit Buffer Zones

Serial Number	Buffer Distances (feet) from Management Units				
	Public Water Supplies	**Private Water Supplies**	**Inhabited Dwellings**	**Permanent and Intermittent Surface Water[a]**	**Areas Accessible to the Public**
MU-21101 MU-21102 MU-21103 MU-21104 MU-21105 MU-21106 MU-21107 MU-21108 MU-21109 MU-21110 MU-21111 MU-21112 MU-21113 MU-21114	Site Specific (requires DEQ plan and specification review and approval prior to construction of irrigation system)	500	100	10 (mitigation measures to prevent runoff to surface waters shall be employed)	0
MU-21115	Site Specific (requires DEQ plan and specification review and approval prior to construction)	500	As specified in the Buffer Zone Plan included in CA-211-01[b]	10 (mitigation measures to prevent runoff to surface waters shall be employed)	0

a. No Class B recycled water may enter surface waters unless an IPDES discharge permit authorizing the discharge is in place. A buffer zone may be necessary for a Class B system utilizing sprinkler application near surface waters.

b. The Buffer Zone Plan shall be updated as needed to reflect current site characteristics at each irrigated area within MU-21115.

4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season	April 1 through October 31 (214 days)
Nongrowing season	November 1 through March 31 (151 days)
Reporting year for annual loading rates	January 1 through December 31
Operator certification and endorsement	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.
Turbidity limits of the filtered wastewater effluent, prior to disinfection	• Daily arithmetic mean of all measurements of turbidity shall not exceed 2 NTU • Turbidity shall not exceed 5 NTU at any time
Disinfection limits in recycled water	Class B: The median number of total coliform organisms shall not exceed 2.2 total coliform organisms/100 mL, as determined from the bacteriological results of the last seven days for which analyses have been completed. No sample shall exceed 23 total coliform organisms/100 mL in any confirmed sample. A chlorine disinfection process that provides a total chlorine at the point of compliance of not less than one (1) mg/l after a minimum contact time of thirty (30) minutes at peak flow.
5-day Biochemical Oxygen Demand (BOD_5) limit in recycled water when discharging to MU-21114 (Rapid Infiltration Basins)	BOD_5 shall not exceed 5.0 mg/L, as determined from monthly 24-hour composite samples.
Total nitrogen limit in recycled water when discharging to MU-21114 (Rapid Infiltration Basins)	Total nitrogen shall not exceed 8.0 mg/L, as determined from monthly 24-hour composite samples.
Total phosphorus limit in recycled water when discharging to MU-21114 (Rapid Infiltration Basins)	Total phosphorus shall not exceed 0.35 mg/L, as determined from monthly 24-hour composite samples. *Phosphorus limit may be modified by completing CA-211-04.*
Nuisance and odor management	The wastewater treatment and reuse facilities shall not create a public health hazard or nuisance conditions, including odors. The permittee shall be required to prepare a Nuisance and Odor Management Plan and incorporate it into the PO.
Crop or vegetation allowed	Refer to the Crop Management Plan in the PO approved by DEQ (see CA-211-01)
Irrigation of MU-21115	Irrigation shall occur only during periods of non-use by the public. These irrigation periods shall be described in the Irrigation Management and Scheduling Plan in the PO.

Category	Permit Limits and Conditions
Grazing	Prior to grazing, the permittee shall submit a Grazing Management Plan and receive written approval from DEQ. The Grazing Management Plan shall be included in the PO. Grazing is not allowed on MU-2114 or MU-21115.
Posting	Signs shall read “Caution: Recycled Water—Do Not Drink,” or equivalent signage both in English and Spanish. Signs to be posted every 500 feet and at each corner of the outer perimeter of the irrigated site. Signs are required where MU border areas are accessible to the public.
Fencing	MU-21101, MU-21102, MU-21103, MU-21104, MU-21105, MU-21106, MU-21107, MU-21108, MU-21109, MU-21110, MU-21111, MU-21112, MU-21113 (Agricultural Areas): Three wire fencing shall be required around the perimeter of each management unit prior to the application of recycled water if the management unit is near any residence. The fencing requirement will be determined during review of plans and specifications by DEQ (see CA-211-03). MU-21114: Three wire fencing is required around the perimeter of the rapid infiltration basins site. MU-21115: No fencing required.
Construction plans	Pursuant to Idaho Code §39-118, IDAPA 58.01.16, and IDAPA 58.01.17, detailed plans and specifications shall be submitted to DEQ for review and approval before construction, modification, or expansion of any wastewater treatment, storage, conveyance structures, groundwater monitoring wells, or reuse facility. Inspection requirements shall be satisfied, and 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, recycled water, and supplemental irrigation water flows applied to each management unit shall be calibrated or verified in accordance with the device manufacturer’s specifications and with the permittee’s QAPP and/or PO.
Backflow prevention and testing requirements	Backflow prevention is required to protect surface water and groundwater from an unauthorized discharge of recycled water or wastewater. Refer to Section 9.1.1 of this permit.
Records retention requirements	Keep records generated to meet the requirements of this permit for the duration of the permit, including administrative extensions, plus two years.

5. Monitoring Requirements

5.1 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-21102 Equalization Basin effluent	Influent wastewater	24-hr Composite/Monthly	BOD_5
WW-21103 MBR Permeate Pumps discharge prior to disinfection	MBR effluent prior to disinfection	Continuously reading turbidimeter	Turbidity
WW-21104 Reuse Pump Station Discharge	Recycled Water	24-hr Composite/Monthly	Total phosphorus, as P
WW-21104 Reuse Pump Station Discharge	Recycled Water	24-hr Composite/Monthly	- BOD_5 - Total Kjeldahl nitrogen, as N - Nitrate+Nitrite-nitrogen, as N - Ammonia-nitrogen, as N
WW-21104 Reuse Pump Station Discharge	Recycled Water	Daily grab sample	- Total coliform (total coliform organisms/100mL) - Total chlorine residual - pH (standard units)
WW-21105 Town Lake Pressurized Irrigation Pump Station discharge piping	Supplemental irrigation water	Annually during July	- Total Kjeldahl nitrogen, as N - Nitrate-nitrogen, as N - Total phosphorus, as P

5.1.2 Management Unit and Other Flow Monitoring

Management Unit or Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Parameters, each MU or FM
FM-21101 Raw Influent Pump Station flow meter	Influent wastewater flow	Continuously reading flowmeter (Daily composition of data)	Volume (MGD, MG/month, MG/yr)
FM-21104 Reuse Pump Station flowmeter	Recycled water flow	Continuously reading flowmeter (Daily composition of data)	Volume (MGD, MG/month, MG/yr)
FM-21105 Town Lake Pressurized Irrigation Pump Station pump run time meter or flow meter	Supplemental irrigation water flow from Town Lake (potable water system) and Spring Valley Creek Water	Pump run times or continuously reading flowmeter, when irrigating MU-21115 (Daily composition of data, when irrigating MU-21115)	Volume (MGD, MG/month, MG/yr)
FM-21106 Potable water system pipe discharge into Town Lake flowmeter	Supplemental irrigation water from potable water system	Continuously reading flowmeter, when irrigating MU-21115 (Daily composition of data, when irrigating MU-21115)	Volume (MGD, MG/month, MG/yr)

5.2 Groundwater Monitoring

5.2.1 Groundwater Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-21101	MW-1	Monitoring well	Downgradient
GW-21102	MW-6r	Monitoring well	Downgradient
GW-21103	RAMW-7	Monitoring well	Downgradient of MU-21114
GW-21104	RAMW-8a	Monitoring well	Upgradient of MU-21114
GW-21105	RAMW-9	Monitoring well	Crossgradient of MU-21114
GW-21106	RAMW-10	Monitoring well	Downgradient of MU-21114
GW-21107	RAMW-11	Monitoring well	Downgradient of MU-21114

5.2.2 Groundwater Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sampling Point Description	Sample Type and Frequency	Constituents (mg/L unless otherwise specified)
GW-21101 GW-21102 GW-21103 GW-21104 GW-21105 GW-21106 GW-21107	Monitoring wells	Unfiltered grab sample/twice annually: April and October	- Water table elevation (feet amsl) - Water table depth (feet) - pH (Standard Units) - Specific conductance/electrical conductivity (µmhos/cm) - Temperature (ºC) - Nitrate-nitrogen, as N - Total phosphorus, as P - Total dissolved solids (TDS)

5.3 Surface Water Monitoring

5.3.1 Surface Water Monitoring Unit Descriptions

Monitoring Point Serial Number	Common Designation	Location	Approximate Latitude/Longitude
SW-21101	WQ-1	Spring Valley Creek below Highway 55, downstream of Avimor Planned Community	N43º 45’ 50” / W116º 15’ 56”
SW-21102	WQ-2	Spring Valley Creek upstream of Avimor Planned Community Phase 1, below weir upstream of McLeod Way	N43º 46’ 38” / W116º 15’ 41”
SW-21103	WQ-3	Ephemeral drainage along Burnt Car Draw, downstream of Broken Horn Draw east of intersection of Avimor Drive and McQuarrie Way	N43º 46’ 24” / W116º 15’ 36”
SW-21104	WQ-4	Intermittent spring west of MU-21114 (rapid infiltration basins)	N43º 46’ 05” / W116º 15’ 32”

5.3.2 Surface Water Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sample Type	Sample Frequency	Constituents (mg/L unless otherwise specified)
SW-21101 SW-21102 SW-21103 SW-21104	Grab Sample	Twice annually: April & October	- Total Kjeldahl nitrogen, as N - Nitrate+nitrite-nitrogen, as N - Ammonia-nitrogen, as N - Total phosphorus, as P - Dissolved orthophosphorus - Chloride - pH (Standard Units) - Temperature (ºC) - Dissolved oxygen

5.4 Soil Monitoring

5.4.1 Soil Monitoring Unit Descriptions

Monitoring Point Serial Number[a]	Description	Associated Management Unit
SU-21101	Agricultural Area 1	MU-21101
SU-21102	Agricultural Area 2	MU-21102
SU-21103	Agricultural Area 3	MU-21103
SU-21104	Agricultural Area 4	MU-21104
SU-21105	Agricultural Area 5	MU-21105
SU-21106	Agricultural Area 6	MU-21106
SU-21107	Agricultural Area 7	MU-21107
SU-21108	Agricultural Area 8	MU-21108
SU-21109	Agricultural Area 9	MU-21109
SU-21110	Agricultural Area 10	MU-21110
SU-21111	Agricultural Area 11	MU-21111
SU-21112	Agricultural Area 12	MU-21112
SU-21113	Agricultural Area 13	MU-21113
SU-21115	Irrigation Areas	MU-21115

a. SU-21101 through SU-21113 shall be monitored when recycled water is applied to the associated MUs.

5.4.2 Soil Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sample Type	Sample Frequency	Constituents (Units in mg/kg Soil Unless Otherwise Specified)
SU-21101 SU-21102 SU-21103 SU-21104 SU-21105 SU-21106 SU-21107 SU-21108 SU-21109 SU-21110 SU-21111 SU-21112 SU-21113 SU-21115	Composite samples[a]	Once annually, March	- Electrical conductivity (µmhos/cm in saturated paste extract) - Nitrate, as N - Ammonium, as N - Plant available phosphorus - pH (standard units)
		Prior to commencement of irrigation for MUs, March	- DTPA extractable iron - DTPA manganese - Sodium Adsorption Ratio or Exchangeable Sodium Percentage - % organic matter - Cation exchange capacity

a. The number of sample locations specified in the PO or QAPP for each SU shall be sampled when recycled water is applied to the associated MUs. At each location, samples shall be obtained from three depths: 0-12 inches; 12-24 inches; and 24-36 inches or refusal. The samples obtained from each depth shall be composited by depth to yield three composite samples for each soil monitoring unit (one composite sample for each depth).

5.5 Crop Monitoring

5.5.1 Crop Harvest Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-21101 MU-21102 MU-21103 MU-21104 MU-21105 MU-21106 MU-21107 MU-21108 MU-21109 MU-21110 MU-21111 MU-21112 MU-21113	Harvested portion, each crop, each MU	Each harvest	- Crop type - Harvest date - Sample collection date - Harvested acreage (acres) - As-harvested ('wet') yield in customary harvested units (tons, bushels, cwt, etc.) - As-harvested (field) moisture content (%)[b] - Dry yield (lb)

a. Documentation of reported yields shall be provided for each harvest from each MU.
b. The field moisture shall be monitored at the time the harvested crop is weighed.

5.5.2 Plant Tissue Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-21101 MU-21102 MU-21103 MU-21104 MU-21105 MU-21106 MU-21107 MU-21108 MU-21109 MU-21110 MU-21111 MU-21112 MU-21113	Harvested portion, each crop, each MU	Each harvest	- Lab moisture content (%)[b] - Total nitrogen (%) - Phosphorus as P (ppm)

a. Report dry-basis results for all parameters except laboratory moisture content.
b. The plant tissue sample shall be taken from the harvested portion of each crop at the time the crop is harvested or just prior to harvesting.

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 1 of each year, which shall cover the previous reporting year.

6.1.2 Required Contents

The annual report shall include the following:

1. Detailed results of the required monitoring as described in section 5 of this permit. The report shall present all monitoring data in summary tables to expedite review. 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.
2. A brief interpretive discussion of the results of all required monitoring data as specified by section 5. The discussion shall address data quality objectives, validation, and verification; explain what the data say about permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.
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. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.
6. 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.
7. Laboratory analytical reports that show results, analytical methods, and practical quantitation limits 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.
8. The calculations and results for the parameters in the following table:

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-21101 MU-21102 MU-21103 MU-21104 MU-21105 MU-21106 MU-21107 MU-21108 MU-21109 MU-21110 MU-21111 MU-21112 MU-21113 MU-21115	Recycled water loading rate	MG/month MG/yr Inches/month Inches/growing season
	Supplemental irrigation water loading rate	MG/month MG/yr Inches/month Inches/growing season
	IWR for each crop grown	Inches/month Inches/growing season
	Recycled water nitrogen and phosphorus loading rates	lb/month lb/yr lb/(acre·month) lb/(acre·yr)
	Supplemental irrigation water nitrogen and phosphorus loading rates	lb/month lb/yr lb/(acre·month) lb/(acre·yr)
	Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P	lb/month lb/yr lb/(acre·month) lb/(acre·yr)
	Crop harvest and yield Report for each harvest and the annual totals for each MU (excluding MU-21115)	Crop types harvested Total harvested area (acres) Total wet yield (lb/yr, lb/(acre·yr)) Total dry yield (lb/yr, lb/(acre·yr))
	Crop nitrogen and phosphorus removal rates (dry-basis) Report each harvest and the annual totals for each MU (excluding MU-21115)	lb N/yr lb P/yr lb N/(acre·yr) lb P/(acre·yr)
MU-21114	Recycled water loading rate	MG/month MG/yr MGD
	Recycled water nitrogen and phosphorus loading rates	lb/month lb/yr lb/(acre·month) lb/(acre·yr)

6.1.3 Submittals

All applications, annual reports, or other 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 N Orchard St
Boise, Idaho 83706

The annual report, or any other data or monitoring information submitted to DEQ, 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 current Quality Assurance Project Plan 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 above certification statement and be signed, dated, and certified by the permittee's Responsible Official or duly Authorized Representative.

6.2 Emergency and Noncompliance Reporting

The permittee shall report noncompliance incidents to DEQ's regional office at (208) 373-0550 or toll free (888) 800-3480.

The permittee may also be required to report unauthorized discharges to surface waters to DEQ's Idaho Pollutant Discharge Elimination System (IPDES) program. The DEQ IPDES hotline is (833) IPDES24 or (833) 473-3724.

In case of public health emergencies, the permittee should 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.

The permittee shall report 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 to DEQ's 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.

The permittee shall provide a written follow-up to the DEQ regional office within five days from the time the permittee became aware of the permit non-compliance or unauthorized discharge.

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: (4-1-88)

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 groundwater resource. Backflow prevention assemblies or devices used to protect the groundwater shall be adequately operated and maintained.

Discharge of recycled water to surface water is regulated by the DEQ or EPA. An IPDES 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 require an IPDES or NPDES permit (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 DEQ or 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 Groundwater 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 groundwater 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

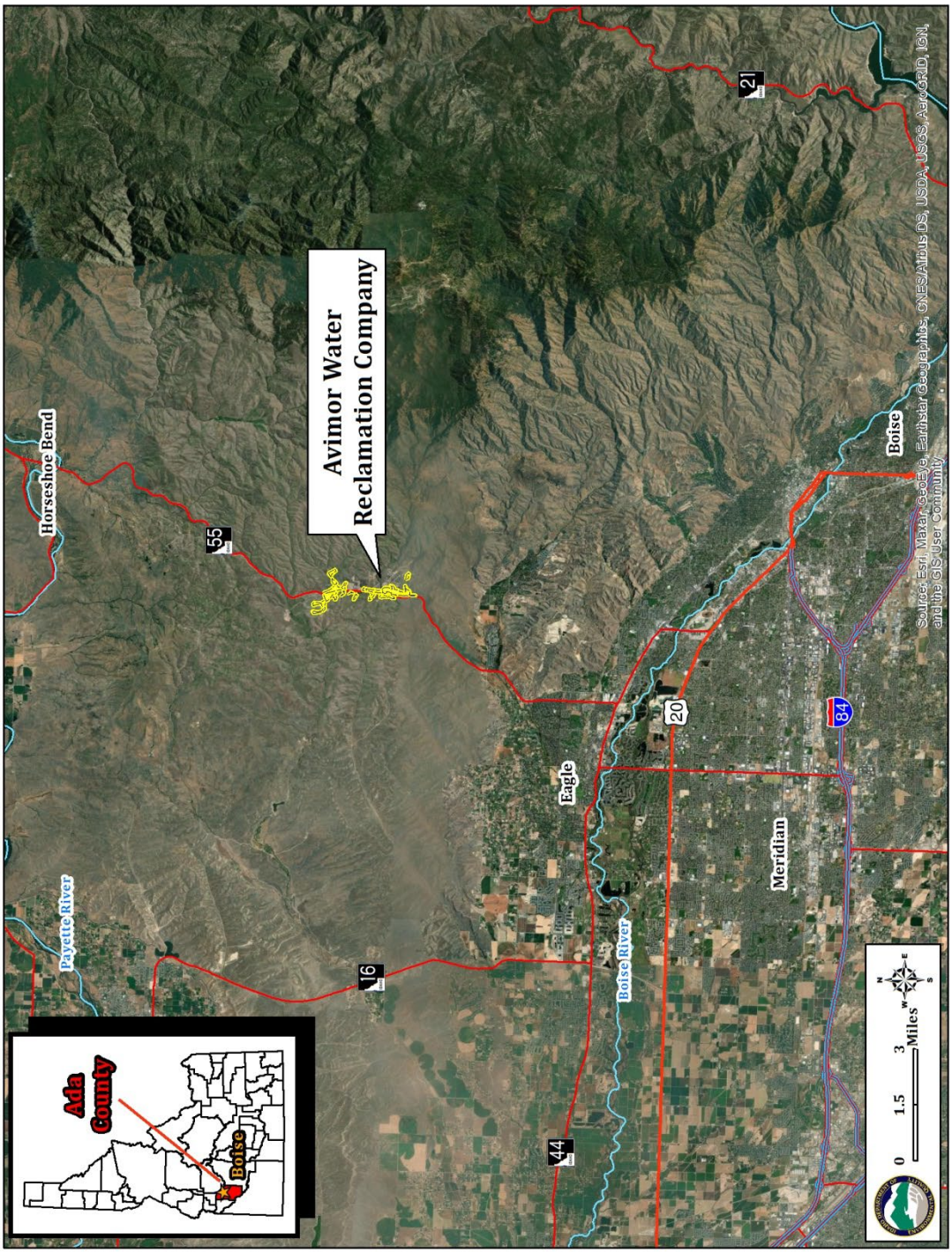
The well owner must maintain the well to prevent waste or contamination of groundwater through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant 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 Groundwater Resource

The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the groundwater 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 Map

