Idaho Department of Environmental Quality
Reuse Permit
I-272-01

Intrinsic Organics LLC (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 December 29, 2023, and expires on December 29, 2028.



Signature

12/29/2023

Date

Aaron Scheff

Regional Administrator
Boise Regional Office
Idaho Department of Environmental Quality

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

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1. Common Acronyms/Abbreviations and Definitions

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
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
HPDE FML	high density polyethylene flexible membrane liner
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
NPDES	National Pollutant Discharge Elimination System
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(es) or Type(s) of recycled water	Industrial Wastewater – Jerusalem Artichoke processing
Method of treatment and reuse	Facultative storage lagoons Slow rate land application
Collection and treatment system classification	Land Application/Reuse
Facility location	1410 Organics Way Weiser, Idaho 83672
Facility mailing address	1410 Organics Way Weiser, Idaho 83672
Facility responsible official and authorized representative	Responsible Official: Chief Executive Officer (208) 417-4532 info@intrinsicorganics.com Authorized Representative: Plant Manager 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	Depth to seasonal high groundwater: 6.1 to 13.3 feet
Surface water	Snake river 0.5 miles. Beneficial uses: cold water biota, primary contact recreation (IDAPA 58.01.02). 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-272-01 July 31, 2024	**Plan of Operation (PO)**: The permittee shall submit to DEQ for review and approval a 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 Plan of Operations Checklist available. The PO shall include the following site management plans, or the permittee may submit the site management plans individually: 1. Buffer zone plan (specifically address distances to all neighboring residences and update following approval of WLAA from CA-272-05) 2. Cropping plan 3. Emergency operating plan 4. Irrigation management and scheduling plan 5. Nuisance and odor management plan (see CA-272-04) 6. Runoff management plan 7. Waste solids management plan 8. Tailwater 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-272-02 March 4, 2024	**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 reuse 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-272-03 November 1, 2024	**Seepage Testing**: Seepage test LG-272-01 and LG-272-02 by November 1, 2024. Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests at least 45 days before the planned seepage test. The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test. Seepage tests shall be completed according to the procedures approved by DEQ. The seepage test report shall be sealed by the person in responsible charge and submitted within 90 days after completion of the seepage test. Allowable seepage rate for lagoons constructed after 2012 is 0.125 inches.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-272-04 March 4, 2024	**Nuisance and Odor Management Plan (NOMP):** The permittee shall submit to DEQ for review and approval a NOMP that reflects current operations and incorporates the new management units and requirements of this permit. The NOMP shall incorporate a monitoring plan to identify and prevent nuisance conditions and odors. The monitoring plan shall include an inventory of nuisance condition and odor sources that will be inspected and an inspection frequency for each source. The NOMP shall identify operational activities or parameters that will be maintained to prevent nuisance conditions and odors (such as dissolved oxygen levels, application restrictions, treatment, or solids removal). For all sources, the NOMP will identify what actions to take when an odor or nuisance condition is identified, or if stated in other plans, references to the plans. The NOMP shall include consideration of odors and nuisance conditions generated by the condensate pond, and shall consider including a response plan for when internal plant processes generate odors. The NOMP shall include the response plan for when odor or nuisance complaints are received, the procedure for logging these events and response for resolution. The NOMP shall include a communication mechanism that alerts the public of when confirmed odors are expected to be resolved. Upon approval, the permittee shall implement the NOMP. The permittee shall update the NOMP to reflect changes to operations, or when changes are necessary to effectively control nuisances and odors. The permittee shall submit changes to the NOMP to DEQ for review and approval prior to implementation.
CA-272-05 December 31, 2024	**Well Location Acceptability Analysis (WLAA):** The permittee shall submit to DEQ for review and approval a WLAA of all public and private drinking water supply wells located within a quarter (1/4) mile of each management unit. For any drinking water supply well location determined not acceptable, appropriate buffer zones or DEQ-approved mitigation measures shall be implemented.
CA-272-06 April 1, 2025	**Condensate Water Management Assessment:** The permittee shall submit to DEQ for review and approval a report assessing management of condensate water with respect to the requirements of the Ground Water Quality Rule (GWQR). Utilize the condensate water quality and quantity data collected under Section 5.1 to conduct the assessment. Evaluate management practices that would be more protective of groundwater quality, include recommendations for management changes or upgrades that should occur to comply with the GWQR, and an implementation schedule for those changes or upgrades. Upon approval of the report, these changes or upgrades shall be completed in accordance with the implementation schedule.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-272-07 July 31, 2025	**Groundwater Monitoring Plan:** The permittee shall submit to DEQ for review and approval within eighteen months of permit issuance a plan that includes the following: 1) plans and specifications for a groundwater monitoring well network that will provide sufficient groundwater quality data to characterize the impacts of reuse activities, and 2) an implementation schedule for installation of the groundwater monitoring well network. The groundwater monitoring plan shall be prepared by a qualified registered professional in the state of Idaho. The monitoring well network must contain a minimum of one upgradient well and two downgradient wells. The permittee shall implement the plan in accordance with the implementation schedule upon DEQ approval. The permittee shall provide the following information to DEQ within 60 days of constructing any monitoring well: ● Monitoring well location coordinates. ● A monitoring well network map. ● Well construction details for each well. ● Depth to groundwater and groundwater elevation in each well. ● Initial ground water quality monitoring results from each well.
CA-272-08 December 29, 2027	**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-272-09 June 29, 2028	**Permit Renewal Application:** The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-272-08 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-272-01	Field A	Furrow flood system (E_i = 0.65)	5.5
MU-272-02[b]	Field B	Furrow flood system (E_i = 0.65)	3.2
		Total acreage	8.7

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.
b. MU-272-02 cannot be utilized for recycled water application until the WLAA required in CA-272-05 is completed and appropriate buffers determined.

4.2 Hydraulic Loading Limits

Serial Number	Growing Season Hydraulic Loading	Nongrowing Season Maximum Hydraulic Loading (inches)
MU-272-01 MU-272-02	Substantially at the IWR[a]	Not allowed

a. 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)	COD Growing Season (lb/(acre·day))[a]	COD Nongrowing Season (lb/(acre·day))[a]
MU-272-01	150% of typical crop uptake[b,c]	N/A	50	N/A
MU-272-02	150% of typical crop uptake[b,c]	N/A	50	N/A

a. COD limit is expressed in pounds per acre per day (lb/(acre·day)) based on a seasonal average.
b. 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.
c. Crop uptake for nitrogen-fixing crops, defined here as legumes including alfalfa, shall be calculated by assuming 15% of crop nitrogen content is fixed from the atmosphere. Other values for the proportion of crop nitrogen content fixed from the atmosphere may be used if DEQ provides written approval before beginning of the 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	Irrigation Ditches and Canals	Areas Accessible to the Public
MU-272-01	1,000	See CA-272-04	See CA-272-01	100	50	0
MU-272-02	1,000	See CA-272-04	See CA-272-01	100	50	0

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	November 1 through October 31
Crop or vegetation allowed	Alfalfa, orchard grass, or as defined in DEQ approved cropping plan
Grazing	A DEQ-approved grazing management plan is required prior to any grazing activities
Posting	Not Required
Fencing	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, ground water 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.
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-272-01 Recycled water from CIP pond LG-272-01	Recycled water to MU-272-01 and MU-272-02	Grab/monthly (during periods of use)	Total nitrogen, as N Total phosphorus, as P Non-volatile dissolved solids COD pH electrical conductivity Chloride
WW-272-02 Recycled water from Silt pond LG-272-02	Recycled water to MU-272-01 and MU-272-02	Grab/monthly (during periods of use)	Total nitrogen, as N Total phosphorus, as P Non-volatile dissolved solids COD pH electrical conductivity Chloride
WW-272-01 Recycled water from CIP pond LG-272-01	Recycled water to MU-272-01 and MU-272-02	Grab sample (May of the first and fourth permit year)	Sodium Adsorption Ratio
WW-272-02 Recycled water from Silt pond LG-272-02	Recycled water to MU-272-01 and MU-272-02	Grab sample (May of the first and fourth permit year)	Sodium Adsorption Ratio
SW-272-01 Irrigation well no. 1	Supplemental irrigation water	Grab sample (May of the first permit year)	Total nitrogen, as N Total phosphorus, as P Non-volatile dissolved solids
CW-272-01 Condensate water	Condensate water	Grab sample (monthly in 2024)[a]	Total nitrogen, as N Total phosphorus, as P Non-volatile dissolved solids COD pH electrical conductivity

a. See also CA-272-06

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
MU-272-01 and MU-272-02	Recycled water flow from LG-272-01	Daily meter reading Monthly compilation of data	Volume (MG/month) Application depth (inches/month)
MU-272-01 and MU-272-02	Recycled water flow from LG-272-02	Daily meter reading Monthly compilation of data	Volume (MG/month) Application depth (inches/month)
MU-272-01 and MU-272-02	Supplemental irrigation water	Daily meter reading Monthly compilation of data	Volume (MG/month) Application depth (inches/month)
FM-272-01	Condensate water	Weekly condensate water volume discharge measurement or calculation	Volume (MG/month)

5.2 Groundwater Monitoring

5.2.1 Groundwater Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
TBD by CA-272-07	TBD by CA-272-07	TBD by CA-272-07	TBD by CA-272-07

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)
TBD by CA-272-07	Monitoring wells	Unfiltered grab sample/twice annually (unless otherwise specified): April and October	Water table elevation (feet) Water table depth (feet) Specific conductance/electrical conductivity (µmhos/cm) Temperature (ºC) pH (Standard Units) Nitrate-nitrogen, as N Total dissolved solids Chloride Total phosphorus
TBD by CA-272-07	Monitoring wells	Unfiltered grab sample/April of first year of groundwater monitoring	Fe-dissolved Fe-total Mn-dissolved Mn-total

5.3 Soil Monitoring

5.3.1 Soil Monitoring Unit Descriptions

Monitoring Point Serial Number	Description	Associated Management Unit
SU-272-01	Field A and Field B	MU-272-01 and MU-272-02

5.3.2 Soil Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sample Type	Sample Frequency	Constituents (Units in mg/kg Soil Unless Otherwise Specified)
SU-272-01	Composite samples[a]	Annually, March	Electrical conductivity (µmhos/cm in saturated paste extract) Nitrate, as N Ammonium, as N Exchangeable sodium percentage or Sodium adsorption ratio Plant available phosphorus pH (standard units)
		March of first permit year	% organic matter DTPA-Fe DTPA-Mn Cation exchange capacity

a. The number of sample locations PO or QAPP for each SU shall be specified in the PO or QAPP. 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).

5.4 Crop Monitoring

5.4.1 Crop Harvest Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-272-01 and MU-272-02	Harvested portion, each crop	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.
b. The field moisture shall be monitored at the time the harvested crop is weighed.

5.4.2 Plant Tissue Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-272-01 and MU-272-02	Harvested portion, each crop[c]	Each harvest	Lab moisture content (%)[b] Total nitrogen (%) Phosphorus as P (ppm) Ash (%)

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.
c. Sample can be combined for one sample to represent both management units.

5.5 Lagoon Information

Serial number	Description	Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-272-01	Recycled water, CIP pond	0.738	1.187	HDPE FML
LG-272-02	Recycled water, silt pond	0.476	0.565	HDPE FML

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 **January 31** 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-272-01 MU-272-02	Recycled water loading rate	MG/month Inches/month
	Supplemental irrigation water loading rate	MG/month Inches/month
	Condensate water loading rate	MG/month Inches/month
	IWR for each crop grown	Inches/month Inches/growing season
	COD loading rate: growing season seasonal average	lb/(acre·day)
	Recycled water nitrogen, phosphorus, and non-volatile dissolved solids loading rates	lb/(acre·year)
	Supplemental irrigation water nitrogen, phosphorus, and non-volatile dissolved solids loading rates	lb/(acre·yr)
	Condensate water nitrogen, phosphorus, and non-volatile dissolved solids loading rates	lb/(acre·yr)
	Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P	lb/(acre·yr)
	Waste solids nitrogen and phosphorus application rates	lb/(acre·yr)
	Crop harvest and yield, report for each harvest and the annual totals for each MU	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, phosphorus, and ash removal rates (dry-basis) Report each harvest and the annual totals for each MU	lb N/(acre·yr) lb P/(acre·yr) lb Ash/(acre·yr)
Other Reporting Requirements: • Calculate constituent loading limits for next reporting year according to the requirements of section 4.3.		

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, ID 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 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 58.01.17.500.04 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. Permit for Use of Industrial Recycled Water

The following are permit requirements for industrial recycled water and are included as terms of this permit as required by a subsection of the "Recycled Water Rules," (IDAPA 58.01.17.608). Director refers to DEQ Director or designee unless otherwise specified.

608. PERMIT FOR INDUSTRIAL REUSE FACILITIES.

01. Requirements. Industrial wastewater or recycled water may only be used according to a permit issued pursuant to these rules. Permit conditions and limitations are developed by the Department on a case-by-case basis and take into account specific characteristics of the wastewater to be recycled and treatment needed to ensure recycled water use complies with IDAPA 58.01.11, "Ground Water Quality Rule," and IDAPA 58.01.02, "Water Quality Standards." The permit application, processing, and issuance procedures set forth in these rules apply to industrial reuse permits. (4-6-23)

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 -CONDITIONS.
Permit conditions will protect human health and the environment from the potential hazard of an existing or proposed wastewater treatment system. The permittee must comply with all conditions of the permit. The following conditions apply to and are included in all permits. (4-6-23)

01. Facility Operation. At all times, the permittee must properly maintain and operate all structures, systems, and equipment installed or used by the permittee for treatment, control, and monitoring to achieve compliance with the permit or these rules. (4-6-23)

02. Provide Information. If requested by the Department, the permittee must provide the Department, within a reasonable time, information including copies of records, to help the Department determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these rules. (4-6-23)

03. Entry and Access. The permittee must allow the Department, consistent with Title 39, Chapter 1, Idaho Code, to: (4-6-23)

a. Enter the permitted facility and all associated property; (4-6-23)

b. Inspect any records kept under the conditions of the permit; (4-6-23)

c. Inspect and photograph any permitted facility, equipment, practice, records, or operation; and (4-6-23)

d. Sample or monitor any substance or any parameter at the facility to ensure permit compliance. (4-6-23)

04. Reporting. The permittee must report to the Department as specified in this section. (4-6-23)

a. A written report submitted at least thirty (30) days before: (4-6-23)

i. Any planned physical or operational alteration to the permitted facility that results or would result in a significant change in information submitted during the application process. If a major permit modification is needed, the alteration cannot be made before the Department issues approval. (4-6-23)

ii. Any anticipated change that would result in noncompliance with any permit condition or these rules. (4-6-23)

b. Orally within twenty-four (24) hours from the time the permittee became aware of any noncompliance that may endanger human health and the environment at telephone numbers provided in the permit. (4-6-23)

c. A written report as soon as possible, but within five (5) days of the date the permittee knows, or should reasonably know, of any noncompliance unless extended by the Department, providing: (4-6-23)

i. Description of the noncompliance and its cause; (4-6-23)

ii. Period of noncompliance including, to the extent possible, times and dates, if the noncompliance has not been corrected, and the anticipated length of time it is expected to continue; and (4-6-23)

iii. Steps taken or planned, including timelines, to reduce or eliminate the continuance or reoccurrence of the noncompliance. (4-6-23)

d. In writing as soon as the permittee knows, or should reasonably know, of material facts not submitted or corrections to information submitted in a permit application, report, or notice provided to the Department. (4-6-23)

e. No person may knowingly make any false statement, representation, or certification in any form, notice, or report required under any permit, or any applicable rule or order in force pursuant thereto. (4-6-23)

05. Minimize Impacts. The permittee must take all necessary actions to eliminate and correct any adverse impact on human health and the environment resulting from permit noncompliance. (4-6-23)

06. Applied Waters Restricted to Premises. Wastewater or recycled water applied to the land surface must be restricted to the premises of the reuse site. (4-6-23)

07. Hazard or Nuisance Prohibited. Wastewater or recycled water must not create a public health hazard or a nuisance condition. (4-6-23)

08. Renewal. If the permittee intends to continue operating the permitted facility after the existing permit expires, the permittee must apply for a permit renewal according to these rules. (4-6-23)

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.

Domestic water and 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 or 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 require an IPDES or NPDES permit (IDAPA 58.01.16.600.02).

9.1.3 Solids Management

Biosolids are 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 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.

9.1.4 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 must 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 must notify the Department before a temporary cessation of reuse 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 do not require Department notification under this section. Notification compliance under this section includes a proposed temporary cessation plan to ensure the cessation of operations will not pose a threat to human health and the environment. (4-6-23)

02. Closure. A closure plan is required when a facility is closed voluntarily and when a permit is revoked. A permittee implements any applicable conditions specified in the permit for facility closure. Unless otherwise directed by the terms of the permit or by the Department, the permittee submits a closure plan to the Department for approval at least ninety (90) days before ceasing operations. The closure plan ensures 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. A permittee must complete all closure plan activities. (4-6-23)

9.1.5 Plan of Operation (IDAPA 58.01.17.300.05)

The PO must comply with the following:

05. Reuse Facility Plan of Operation. A plan of operation must contain, as applicable, operation and management responsibility, permits and standards, general plant description, operation and control of unit operations, reuse area site maps, wastewater and recycled water 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, and an emergency operating plan. Permittees are required to submit a plan of operation for review and approval. Amendments are also subject to review and approval. (4-6-23)

9.1.6 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. (3-31-22)

9.1.7 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. Causes. A permit modification may be initiated by a permittee through a modification request or by the Department if one (1) or more of the following causes exist. (4-6-23)

a. Material and substantial alterations or additions to the permitted facility or activity occurred after permit issuance which justify applying permit conditions that are different or absent in the existing permit. (4-6-23)

b. Standards or regulations on which the permit was based amended by promulgation or by judicial decision after the permit was issued. (4-6-23)

c. The Department determines good cause exists for modifying a compliance schedule or terms and conditions of a permit. (4-6-23)

d. Level of discharge of any pollutant that is not limited in the permit exceeds the level that may cause an adverse impact to surface or ground waters. (4-6-23)

e. Correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions. (4-6-23)

f. When a treatment technology proposed, installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit. (4-6-23)

9.2.2 Permit Transferable (IDAPA 58.01.17.800)

01. General. A permit may be transferred only upon Department approval. No transfer is required for a corporate name change if the permittee, via secretary of state filings, can verify a change in name alone occurred. An attempted transfer is not effective until approved in writing by the Department. (4-6-23)

9.2.3 Permit Revocation (IDAPA 58.01.17.920)

01. Conditions. The Department may revoke a permit or coverage under a reuse general permit if the permittee violates any permit condition or these rules, or the Department becomes aware of any omission or misrepresentation of condition or information relied upon when issuing the permit. (4-6-23)

02. Notice. Except in emergencies, the Department will issue a written notice of intent to revoke to the permittee before final revocation. Revocation becomes final within thirty-five (35) days of the permittee receiving notice unless, within that time, the permittee requests an administrative hearing in writing. The hearing is conducted according to IDAPA 58.01.23, Contested Case Rules and Rules for Protection and Disclosure of Records. (4-6-23)

03. Emergency Action. If the Department finds the human health, safety, or welfare requires emergency action, the Department will incorporate findings to support the action and issue a written notice of emergency revocation to the permittee. Emergency revocation is effective upon receipt by the permittee. If requested by the permittee in writing, the Department will provide the permittee a revocation hearing. Hearings are conducted according to IDAPA 58.01.23, Contested Case Rules and Rules for Protection and Disclosure of Records. (4-6-23)

04. Revocation and Closure. A permittee must perform the closure requirements in a permit and these rules and complete all closure plan activities regardless of the permit revocation. (4-6-23)

9.2.4 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

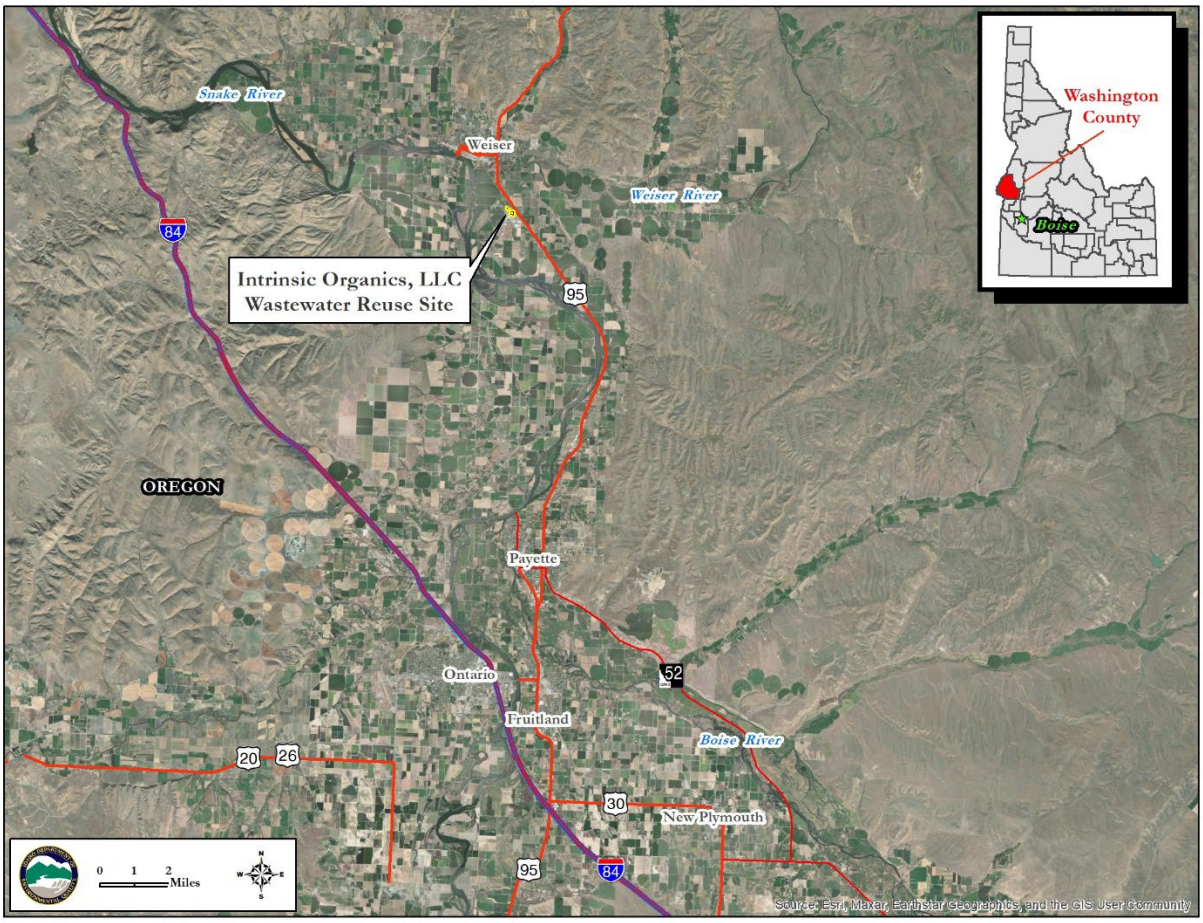
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant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

