Idaho Department of Environmental Quality

Reuse Permit

I-005-06

Lamb Weston, Inc., American Falls Facility (hereafter "Permittee") is hereby authorized to construct, install, and operate a reuse facility in accordance with:
1) this permit;
2) IDAPA 58.01.17, "*Recycled Water Rules*;"
3) an approved Plan of Operation; and
4) all other applicable federal, state, and local laws, statutes and rules.

This permit is effective from the date of signature and expires on August 30, 2031

Katy Bergholm
Regional Administrator
Idaho Department of Environmental Quality
Pocatello Regional Office

8/30/2024
Date

Department of Environmental Quality
Pocatello Regional Office
444 Hospital Way, Building #300
208-236-6160
Pocatello, ID. 83201

Accessibility Services: The Idaho Department of Environmental Quality will provide reasonable language access services and/or disability services for documents at no charge. To request an accommodation under Title VI of the Civil Rights Act of 1964 or Americans with Disabilities Act, contact DEQ's nondiscrimination coordinator at (208) 373-0271 or accessibility@deq.idaho.gov. Para obtener información en español, visite https://www.deq.idaho.gov/about-us/accessibility/

Contents

1. Common Acronyms, Abbreviations and Definitions 4
2. Facility Information 6
3. Compliance Schedule for Required Activities 7
4. Permit Limits and Conditions 10
4.1. Pond System and Silt Pond Management Unit Descriptions 10
4.2. Irrigated Management Unit Descriptions 11
4.3. Hydraulic Loading Limits 13
4.4. Constituent Loading Limits 14
4.5. Hydraulic Management Unit Buffer Zones 15
4.6. Other Permit Limits and Conditions 17
5. Monitoring Requirements 18
5.1. Recycled Water and Supplemental Water Monitoring, Sampling, and Analyses 18
5.1.1. Constituent Monitoring 18
5.1.2. Management Unit Flow Monitoring 21
5.2. Groundwater Monitoring 23
5.2.1. Groundwater Monitoring Point Descriptions 23
5.2.2. Groundwater Monitoring, Sampling, and Analyses 25
5.3. Soil Monitoring 26
5.3.1. Soil Monitoring Unit Descriptions 26
5.3.2. Soil Monitoring, Sampling and Analyses 28
5.4. Crop Monitoring 29
5.4.1. Crop Harvest Monitoring 29
5.4.2. Plant Tissue Monitoring 30
5.5. Lagoon Information 31
6. Reporting Requirements 32
6.1. Annual Report Requirements 32
6.1.1. Due Date 32
6.1.2. Required Contents 32
6.1.3. Submittals 33
6.2. Emergency and Noncompliance Reporting 35
7. Permit for Use of Industrial Recycled Water 35
8. Standard Permit Conditions 36
9. General Permit Conditions 37
9.1. Operations 37
9.1.1. Backflow Prevention 37
9.1.2. Restricted to Premises 38
9.1.3. Solids Management 38
9.1.4. Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801) 40
9.1.5. Plan of Operation (IDAPA 58.01.17.300.05) 40
9.1.6. Seepage Testing Requirements (IDAPA 58.01.16.493.02.c) 40
9.1.7. Ground Water Quality Rule (IDAPA 58.01.11) 40
9.2. Administrative 40
9.2.1. Permit Modification (IDAPA 58.01.17.700) 40

9.2.2. Permit Transferable (IDAPA 58.01.17.800) 41
9.2.3. Permit Revocation (IDAPA 58.01.17.920) 41
9.2.4. Severability 41
10. Other Applicable Laws 42
10.1. Owner Responsibilities for Well Use and Maintenance 42
10.1.1. Well Use 42
10.1.2. Well Maintenance 42
10.1.3. Wells Posing a Threat to Human Health and Safety, or Causing Contamination of the Groundwater Resource 42
11. Site Maps 43

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 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
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
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 must act as the responsible official and will bind the permittee as described in this definition. Designation of the authorized representative must 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 for This Permit
Type and Class of recycled water	Industrial – Potato processing water Municipal – Class D Recycled Water
Method of treatment	Industrial- recycled water for crop irrigation via land application. Municipal – Septic tank, single cell storage lagoon, and land application Disinfection to Class D recycled water standards following the lagoon.
Method of reuse	Recycled water is used for crop irrigation via slow rate land application.
Municipal collection and treatment system classification	Wastewater collection system classification: Class I Wastewater treatment system classification: Class I
Facility Mailing address **Phone** **E-mail**	2975 Lamb Weston Road, American Falls, ID 83211 208-226-1440 Nicholas.Waters@lambweston.com Kirk.Adkins@lambweston.com
Facility Responsible Official and Authorized Representative	Responsible Official: • Plant Manager Authorized Representative: • Environmental Manager
Ground Water	20-25 feet (perched ground water in land application area) 30 to 80 feet to shallow groundwater ≈150 feet to regional aquifer General groundwater flow direction is southeast below the reuse sites and generally to the south below the pond area Site is not located in a Nitrate Priority Area Public water supply well at the facility: uses - commercial, industrial
Surface Water	Land treatment sites: • Canals Approximately 265.2 Acre Pond System • Snake River, approximately ½ mile south-southeast from the pond system Processing facility: • Springfield Aberdeen Canal, 250 feet from the silt ponds Beneficial uses: • Canals: Irrigation • Snake River: Domestic and irrigation water supply, cold water biota, salmonid spawning, primary and secondary recreation.

3. Compliance Schedule for Required Activities

Compliance activity (CA) number and Completion due date	Compliance activity description
CA-005-01 Six (6) months following permit issuance	**Plan of Operation:** The Permittee must submit for review and approval a Plan of Operation (PO) that reflects current operations and incorporates the requirements of this permit. The Plan of Operation must comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and must address applicable items in the Plan of Operation Checklist in the DEQ Guidance. The PO must include updates to the following site management plans, or the Permittee may submit the site management plans and/or updates individually: 1. Buffer Zone Management Plan 2. Cropping Plan 3. Emergency Operating Plan 4. Grazing Management Plan (If grazing is proposed) 5. Irrigation Management and Scheduling Plan 6. Nuisance Odor Management Plan 7. Runoff Management Plan 8. Well Location Acceptability Analysis (for any new wells) 9. Waste Solids Management Plan The PO must be updated as needed to reflect current operations. The Permittee must notify DEQ of material changes to the PO and copies must be kept on site and made available to DEQ upon request.
CA-005-02 Six (6) months following permit issuance	**Runoff Management Plan:** The Permittee must prepare and submit to DEQ for review and approval a Runoff Management Plan with control structures and other BMP's (e.g. collection basins, berms, etc.) designed to contain runoff from any site or fields used for recycled water application to property not permitted for recycled water land application except in the event of a 25 year, 24-hour storm event or greater, using Western Regional Climate Center (WRCC) Precipitation Frequency Map, found at http://www.wrcc.dri.edu/pcpnfreq , 'Isopluvials of 25-YR, 24 HR Precipitation in tenths of an inch.' For the Lamb Weston, Inc., Land Application sites, the 25-year, 24-hour event map is approximately 2.6 inches. The Runoff Management Plan must also address any run-on to any management unit.

Compliance activity (CA) number and Completion due date	Compliance activity description
CA-005-03 Six (6) months following permit issuance	**Quality Assurance Project Plan (QAPP)**: The permittee must 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 must be provided to DEQ. The QAPP must be designed to assist in planning for the collection, analysis, and reporting of all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following: 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 must amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee must notify DEQ of material changes to the QAPP and copies must be kept on site and made available to DEQ upon request. The Permittee must follow the QAPP when collecting, analyzing, and reporting monitoring data submitted to DEQ.
CA-005-04 1) Within twelve (12) months following permit issuance 2) Within twelve (12) months following completion of part 1	**Monitoring Well Analysis:** Relative to new monitoring wells, and those monitoring wells incapable of providing the required number of groundwater samples, the Permittee must: 1. Submit a work plan to DEQ for review and approval that includes methods to ensure that all wells yield samples throughout the year. 2. Submit a report for DEQ review and approval documenting that any new management units are sufficiently represented by monitoring wells prior to those sites being used for recycled water application. Well sampling work plans may exclude wells representing the 16-pond system that have gone dry due to the ponds no longer being filled. Within twelve (12) months following DEQ approval of the work plan, the Permittee must implement well rehabilitation and/or installation as approved by the DEQ for the plan listed above.

<table>
<tr><th>Compliance activity (CA) number and Completion due date</th><th>Compliance activity description</th></tr>
<tr><td>CA-005-05
As Specified</td><td>Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons:
<table>
<tr><td>Lagoon:</td><td>Common Name</td><td>Seepage Test Due Date:</td></tr>
<tr><td>LG-005-22</td><td>Municipal treatment and storage lagoon</td><td>2031</td></tr>
<tr><td>LG-005-20</td><td>Surge Basin</td><td>Prior to being put into service</td></tr>
</table>
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 rates can be found in IDAPA 58.01.16.493.03. Requirements for lagoons leaking above the allowable amount are outlined in IDAPA 58.01.16.493.04.</td></tr>
<tr><td>CA-005-06
Within Four (4) years following permit issuance</td><td>Groundwater Impact Assessment Report: The permittee must submit a Ground Water Impact Assessment Report that provides sufficient groundwater quality data to characterize the impacts of reuse activities on groundwater.

1. The assessment must evaluate the potential impacts to groundwater from reuse activities. This assessment will specifically focus on impacts related to Total Dissolved Solids, Total Phosphorus as P, and Nitrate-Nitrogen as N.
2. If the assessment shows significant degradation, the report submittal should identify specific measures to be taken to address the findings as required by IDAPA 58.01.11.400.02.
3. This assessment report must be submitted to DEQ for review within four (4) years after permit issuance. This assessment report will also include a time schedule for corrective actions.</td></tr>
<tr><td>CA-005-07
12 months prior to permit expiration</td><td>Pre-Application Conference: If the permittee intends to continue operating the wastewater reuse facility beyond the expiration date of this permit, the permittee must contact DEQ and schedule a pre-application conference to discuss the compliance status of the facility and the content required for the wastewater reuse permit application package.</td></tr>
<tr><td>CA-005-08
One hundred eighty (180) days prior to permit expiration</td><td>Renewal Permit Application: The permittee must submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application conference identified in CA-005-07.</td></tr>
</table>

4. Permit Limits and Conditions

4.1. Pond System and Silt Pond Management Unit Descriptions

Serial Number	Description	Monitoring Point	Acres [a]
MU-005-01	Lagoon 1	YES	18.5
MU-005-02	Lagoon 2	YES	19.0
MU-005-03	Lagoon 3		17.5
MU-005-04	Lagoon 4		25.0
MU-005-05	Lagoon 5		17.0
MU-005-06	Lagoon 6		23.5
MU-005-07	Lagoon 7	YES	17.9
MU-005-08	Lagoon 8		14.9
MU-005-09	Lagoon 9		16.5
MU-005-10	Lagoon 10		7.2
MU-005-11	Lagoon 11		19.0
MU-005-12	Lagoon 12		11.5
MU-005-13	Lagoon 13		13.6
MU-005-14	Lagoon 14		11.0
MU-005-15	Lagoon 15	YES	9.5
MU-005-16	Lagoon 16	YES	12.6
MU-005-17	Silt Pond 1	YES – When in use	1.9
MU-005-18	Silt Pond 2	YES – When in use	6.3
MU-005-19	Silt Pond 3	YES – When in use	2.8
		Total Pond Acreage	265.2

a. Acreage values are approximate since individual pond depths vary over time.

4.2. Irrigated Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency	Maximum Acres Allowed [a]
Existing North Farm			
MU-005-20	Center Pivot - 1	Center Pivot (Ei = 0.80)	57.3
MU-005-21	Center Pivot - 2	Center Pivot (Ei = 0.80)	54.0
MU-005-22	Center Pivot - 3	Center Pivot (Ei = 0.80)	61.1
MU-005-23	Center Pivots - 4a, 4b, 4c, N Mini, SW Mini, and Solid Sets	Center Pivot (Ei = 0.80) Wheel Line (Ei = 0.70) Solid Sets (Ei = 0.70)	44.8
MU-005-24	CP-16, CP-17, CP-18, CP-19	Center Pivot (Ei = 0.80)	149.8
MU-005-25	Center Pivot - 5 Municipal Management Unit	Center Pivot (Ei = 0.80)	5.9
MU-005-26	Waste Solids Management Unit	N/A	(70.9) [b]
Existing South Farm			
MU-005-30	South Farm Tiede Center Pivot - 1	Center Pivot (Ei = 0.80)	50.4
MU-005-31	South Farm Tiede Center Pivot - 2	Center Pivot (Ei = 0.80)	87.9
MU-005-32	South Farm Tiede Center Pivot - 3	Center Pivot (Ei = 0.80)	102.4
MU-005-33	South Farm Tiede Center Pivot - 4	Center Pivot (Ei = 0.80)	121.3
MU-005-34	Previous Overflow Management Unit	Center Pivot (Ei = 0.80)	6.9
MU-005-35	Center Pivot - 9	Center Pivot (Ei = 0.80)	16.1
MU-005-36	Center Pivot - 8	Center Pivot (Ei = 0.80)	29.3
MU-005-37	Center Pivot - 7	Center Pivot (Ei = 0.80)	53.1
MU-005-38	Center Pivot - 6	Center Pivot (Ei = 0.80)	55.1
MU-005-39	Center Pivot - 12	Center Pivot (Ei = 0.80)	19.5
MU-005-40	Center Pivot - 13	Center Pivot (Ei = 0.80)	37.0
MU-005-41	Center Pivot - 10	Center Pivot (Ei = 0.80)	11.0
MU-005-42	Center Pivot - 11	Center Pivot (Ei = 0.80)	18.4
MU-005-43	Borah Sub Idaho Power CP - 14	Center Pivot (Ei = 0.80)	75.2
MU-005-44	Borah Sub Idaho Power CP - 15	Center Pivot (Ei = 0.80)	25.3
		Subtotal Existing Management Units	1,082.0
Northern Expansion Fields			
MU-005-50	Toevs Center Pivot - 1	Center Pivot (Ei = 0.80)	59.9
MU-005-51	Toevs Center Pivot - 2	Center Pivot (Ei = 0.80)	59.9
MU-005-52	Toevs Center Pivot - 3	Center Pivot (Ei = 0.80)	155.8
MU-005-53	CP - 20	Center Pivot (Ei = 0.80)	135.6
		Subtotal Northern Expansion Management Units	411.1

Southern Expansion Fields			
MU-005-60	Kress Center Pivot - 1	Center Pivot (Ei = 0.80)	229.3
MU-005-61	Kress Center Pivot - 2	Center Pivot (Ei = 0.80)	180.4
MU-005-62	Kress Center Pivot - 3	Center Pivot (Ei = 0.80)	53.2
MU-005-63	Kress Center Pivot - 4	Center Pivot (Ei = 0.80)	84.6
MU-005-64	Kress Center Pivot - 5	Center Pivot (Ei = 0.80)	17.7
MU-005-65	Kress Center Pivot - 6	Center Pivot (Ei = 0.80)	121.1
MU-005-66	Kress Center Pivot - 7	Center Pivot (Ei = 0.80)	141.7
MU-005-67	Kress Center Pivot - 8	Center Pivot (Ei = 0.80)	18.3
MU-005-68	Kress Center Pivot - 9	Center Pivot (Ei = 0.80)	18.3
MU-005-69	Kress Center Pivot - 10	Center Pivot (Ei = 0.80)	120.2
		Subtotal Southern Expansion Management Units	984.9
		Total Permitted Management Unit Acreage	2,478

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 for recycled water application, then loading rates must be presented and compliance must be determined based on the actual acreage utilized during each season or year.

Once the Buffer Zone Management Plan is approved, total irrigable acres may be less for some management units, because recycled water may not be able to be irrigated on the entire permitted acreage. Those management units may be able to receive fresh water irrigation on more acres than can be permitted for recycled water irrigation.

b. Acreage values listed in parentheses denote acres not permitted to receive recycled water application.

4.3. Hydraulic Loading Limits

Serial Number	Growing season hydraulic loading	Non-growing season maximum hydraulic loading inches [a]
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	Substantially at the crop irrigation water requirement (IWR) as specified in the Plan of Operation No recycled water application on MU-005-26	

Mgt. Unit	Acres	AWC	HLR	MG
MU-005-20	57.3	6.6	7.6	11.8
MU-005-21	54.0	6	7	10.3
MU-005-22	61.1	5.9	6.9	11.4
MU-005-23	44.8	7.2	8.2	10.0
MU-005-24	149.8	7.1	8.1	32.9
MU-005-25	5.9	6.7	7.7	1.2
Subtotal	372.9			77.7
MU-005-30	50.4	8.3	9.3	12.7
MU-005-31	87.9	11.8	12.8	30.6
MU-005-32	102.4	11.7	12.7	35.3
MU-005-33	121.3	11.9	12.9	42.5
MU-005-34	6.9	7.3	8.3	1.6
MU-005-35	16.1	9.1	10.1	4.4
MU-005-36	29.3	10	11	8.7
MU-005-37	53.1	7.6	8.6	12.4
MU-005-38	55.1	5.9	6.9	10.3
MU-005-39	19.5	8.9	9.9	5.3
MU-005-40	37.0	6.8	7.8	7.8
MU-005-41	11.0	5.9	6.9	2.1
MU-005-42	18.4	8.3	9.3	4.7
MU-005-43	75.2	11	12	24.5
MU-005-44	25.3	11.9	12.9	8.9
Subtotal	709.1			211.7
MU-005-50	59.9	10	11	17.9
MU-005-51	59.9	8.3	9.3	15.1
MU-005-52	155.8	7.1	8.1	34.3
MU-005-53	135.6	7.7	8.7	32.0
Subtotal	411.1			99.3
MU-005-60	229.3	8.3	9.3	57.9
MU-005-61	180.4	7.5	8.5	41.6
MU-005-62	53.2	7.1	8.1	11.7
MU-005-63	84.6	7	8	18.4
MU-005-64	17.7	6.9	7.9	3.8
MU-005-65	121.1	6.4	7.4	24.3
MU-005-66	141.7	5.1	6.1	23.5
MU-005-67	18.3	3.4	4.4	2.2
MU-005-68	18.3	2.8	3.8	1.9
MU-005-69	120.2	3.2	4.2	13.7
Subtotal	984.9			199.0
Total	2478.0			587.8

AWC - inches of water calculated in the permit application
HLR adds the NGS evaporation of 0.88 inches to AWC
MG is millions of gallons allowed per MU

a. Record daily, as necessary, any abnormal conditions that may result from non-growing season application including: constituent overloading, ponding, excessive ice buildup, emergency discharges, or runoff from the permitted sites.

4.4. Constituent Loading Limits

Serial Number	Constituent loading limits (from all sources)			
	Nitrogen (lb per acre)[a]	**Phosphorus (lb per acre)**	**Salt (Non-volatile dissolved solids, NVDS) (lb per acre)**	**COD (lb per acre)**
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	150% of crop uptake	N/A	N/A	50 pounds per acre, maximum average daily limit, growing season and non-growing season reported separately

a. Typical crop uptake is the median constituent crop uptake from the 3 most recent years the crop has been grown. For crops having less than 3 years of on-site crop uptake data, other crop yield data or nutrient content values may only be used if approved in writing by DEQ in advance of use. If written approval is not provided by DEQ, compliance with the 150% nitrogen loading limit must be determined by comparing the current year nitrogen loading to the current year nitrogen uptake.

N/A indicates not applicable as a limited constituent at this time.

4.5. Hydraulic Management Unit Buffer Zones

Serial Number	Buffer Distances (in feet) from Hydraulic Management Units For Industrial Recycled Water Application [a]					
	Public Water Supplies	Private Water Supplies	Inhabited Dwellings	Permanent and Intermittent Surface Water	Irrigation Ditches and Canals	Areas Accessible to the Public
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	1,000	500	300	100	50	50

a Buffer zone distances apply unless a DEQ approved Buffer Zone Plan indicates that reduced buffer zones are acceptable due to DEQ approved mitigation measures. Approved buffer zone setbacks may reduce the total acreage able to receive recycled water on some management units.

Serial Number	Buffer Distances (in feet) from Hydraulic Management Units For Municipal Class D Recycled Water Application					
	Public Water Supplies	**Private Water Supplies**	**Inhabited Dwellings**	**Permanent and Intermittent Surface Water**	**Irrigation Ditches and Canals**	**Areas Accessible to the Public**
MU-005-25	1,000	500	500	100	50	300

a Buffer zone distances apply unless a DEQ approved Buffer Zone Plan indicates that reduced buffer zones are acceptable due to DEQ approved mitigation measures.

4.6. Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing Season	April 1 through October 31 (214 days)
Non-growing Season	November 1 through March 31 (151 days)
Reporting Year for Annual Loading Rates	November 1 through October 31
Operator certification and endorsement	The municipal wastewater treatment facility and reuse system must 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.
Disinfection limits for the municipal recycled water land application on MU-005-25	Class D: The median number of total coliform organisms does not exceed 230 total coliform organisms/100 mL, as determined from the bacteriological results of the last 3 days for which analyses have been completed. No sample must exceed 2,300 total coliform organisms/100 mL in any confirmed sample.
Non-Growing Season Maximum Wastewater Hydraulic Loading	Individual management unit loading limits are listed in Section 4.2.
Crop or vegetation restrictions	For crops grown on the municipal management unit only: Food crops must undergo commercial pathogen-destroying processing before being consumed by humans For all other management units, refer to the plan of operation or cropping plan for allowable crops
Grazing	Grazing is allowed only under the provisions of a Grazing Management Plan approved by the Department
Fencing	Fencing required where applicable
Construction Plans & Specifications	Pursuant to Idaho Code §39-118, IDAPA 58.01.16, and IDAPA 58.01.17, detailed plans and specifications must be submitted to DEQ for review and approval prior to construction, modification, or expansion of any wastewater treatment, storage, conveyance structures, or reuse facility. Inspection requirements must be satisfied and within 30 days of completion of construction and the Permittee must 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.
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 permit, including administrative extensions, plus 2 years.

5. Monitoring Requirements

5.1. Recycled Water and Supplemental Water Monitoring, Sampling, and Analyses

5.1.1. Constituent Monitoring

Monitoring point serial number and location	Sample description	Sample Type/Frequency	Constituents (units in mg/L unless otherwise specified)
WW-005-10 Composite sampler following the clarifier and prior to entering the pipeline for water sent to any MU or to the pond system WW-005-01 Sampling point for recycled water coming from LG-005-01, prior to mixing and prior to application on any management unit WW-005-16 Sampling point for recycled water coming from LG-005-16, prior to mixing and prior to application on any management unit	Recycled water applied to: MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	WW quality, 24 hour composite sample, or grab sample, during periods of use. Compiled monthly	- total Kjeldahl nitrogen, as N - ammonium-nitrogen, as N - nitrate-nitrogen, as N - total phosphorus, as P - COD - electrical conductivity - pH (standard units) - sulfate - total dissolved solids - volatile dissolved solids - non-volatile dissolved solids

Monitoring point serial number and location	Sample description	Sample Type/Frequency	Constituents (units in mg/L unless otherwise specified)
WW-005-25 Sampling point for water from the municipal treatment lagoon LG-005-22, or from LG-005-20 (surge basin) prior to mixing, following treatment and disinfection prior to land application on MU-005-25	Class D Municipal Recycled water applied to: MU-005-25	Grab Sample, During periods of use	- Total Kjeldahl nitrogen, as N - Nitrate-nitrogen, as N - Nitrite-nitrogen, as N - Total phosphorus, as P - Non-volatile dissolved solids - Chloride - Total coliform organisms/100 mL
Supplemental Irrigation Water (SIW)			
SW-005-01 Irrigation Well	Groundwater used for irrigation prior to mixing	Grab Sample, April and October 2025, and 2028. (Or the first SIW application) Subsequent grab samples should be taken as needed when the initial sample results no longer accurately represent the supplemental irrigation water being applied.	- total Kjeldahl nitrogen, as N - ammonium-nitrogen, as N - nitrate-nitrogen, as N - total phosphorus, as P - total dissolved solids
SW-005-02 Fire Well	Groundwater used for irrigation prior to mixing (If used)		
SW-005-03	Canal water used for irrigation prior to mixing		
SW-005-04	Groundwater used for irrigation prior to mixing		
SW-005-05	Canal water used for irrigation prior to mixing		
SW-005-06	Canal water used for irrigation prior to mixing		
SW-005-07	Canal water used for irrigation prior to mixing		
SW-005-08	Privately owned Groundwater used for irrigation prior to mixing		
SW-005-09	Privately owned Groundwater used for irrigation prior to mixing		
Each individual supplemental irrigation water source listed above must be sampled and reported separately for each management unit receiving that source, including separate volume measurements.			

Monitoring point serial number and location	Sample description	Sample Type/Frequency	Constituents (units in mg/L unless otherwise specified)
Pond System Monitoring			
WW-005-10 Composite sampler following the clarifier and prior to entering the pipeline for water sent to the pond system, MU-005-10	Sample the clarifier effluent and the following ponds separately: MU-005-10 (clarifier effluent sample) MU-005-01 MU-005-02 MU-005-07 MU-005-15 MU-005-16	WW quality, 24 hour composite sample, or grab sample, during periods of use	- total Kjeldahl nitrogen, as N - ammonium-nitrogen, as N - nitrate-nitrogen, as N - total phosphorus, as P - total dissolved solids - Non-volatile dissolved solids Report the total pounds of each constituent sent to the ponds each month Report the total pounds of each constituent sent to the ponds each reporting year
Silt Pond Monitoring			
WW-005-17 Composite sampler or grab sample of silt water sent to the silt ponds	MU-005-17 or (LG-005-17) MU-005-18 or (LG-005-18) MU-005-19 or (LG-005-19)	WW quality, 24 hour composite sample, or grab sample	- total Kjeldahl nitrogen, as N - ammonium-nitrogen, as N - nitrate-nitrogen, as N - total phosphorus, as P - TDS - Non-volatile dissolved solids Total pounds per month and Total pounds per year

a. Industrial recycled water may be applied to MU-005-25 if all applied municipal and industrial recycled water volume and constituent loading is accounted for separately, but municipal recycled water may only be applied to MU-005-25 and is not to be comingled with any recycled water application on any other management unit or the pond system.

5.1.2. Management Unit Flow Monitoring

Monitoring point serial number and location	Sample description	Sample type and Frequency	Measured Parameter (Units and significant figures)
MU-005-10 MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	Effluent volume prior to application to: MU-005-10 MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	- Daily totalized flow meter readings from the process water flow meter, measuring flow volumes to the pond system. - Daily totalized flow meter readings for each MU that has a flow meter, when irrigating - Monthly, seasonal, and annual compilation of data	- Volume (gal/day) - Volume (MG/month) - Depth reported as inches per acre per month when applied to each MU

Monitoring point serial number and location	**Sample description**	**Sample type and Frequency**	**Measured Parameter** (Units and significant figures)
Supplemental Irrigation Water			
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69 Flow meter at each pivot, or at SIW sources: SW-005-01 SW-005-02 SW-005-03 SW-005-04 SW-005-05 SW-005-06 SW-005-07 SW-005-08 SW-005-09	Volume of water from irrigation wells or canal sources to: MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	- Daily totalized flow meter readings, Daily pump run times, or hour meter readings and volume conversions - Monthly, seasonal, and annual compilation of data	- Volume (gal/day) - Volume (MG/month) - Depth reported as inches per acre per month

5.2. Groundwater Monitoring

5.2.1. Groundwater Monitoring Point Descriptions

Monitoring point serial number	Common Designation	Monitoring Well Location Description
GW-005-01	MW-1S	Shallow, upgradient from ponds
GW-005-04	MW-4	Shallow, southeast of pond 6
GW-005-06	MW-6	Shallow, south of pond 16
GW-005-07	MW-1	Deep, southwest of MU-005-22
GW-005-09	MW-7D	Deep, southeast of pond 16
GW-005-10	MW-8	Shallow, Northwest corner of reuse fields
GW-005-11	MW-9	Shallow, east side of land application site
GW-005-12	MW-10	Shallow, south side of land app site
GW-005-17	MW-12	Shallow, south of ponds 1 & 4
GW-005-18	MW-13	Deep, east of substation
GW-005-19	MW-4R	Shallow, southeast of pond 6
GW-005-20	MW-5R	Shallow, southeast of pond 8
GW-005-21	MW-14	Shallow, southeast of pond 16
GW-005-22	MW-15	Shallow, between ponds and WLAP fields
GW-005-23	MW-16	Shallow, south of MW-1 0 across RR tracks
GW-005-24	MW-17	Shallow, North of ponds near RR tracks
GW-005-25	MW-18	Shallow, west side of pond system
GW-005-26	MW-19	Shallow, West of pond system
GW-005-30	MW-20D	Deep, South of pond system
GW-005-31	MW-210	Deep, South of pond system
GW-005-32	MW-22D	Deep, South of pond system
GW-005-33	MW-17D	Deep, North of pond system
GW-005-34	MW-4R2	Directly between pond system and the river
GW-005-35	MW-4DR	Directly between pond system and the river
GW-005-36	MW-23	Downgradient from MU-005-25, upgradient to MU-005-38
GW-005-37	MW-24	Downgradient from the silt ponds
GW-005-38	MW-25	Shallow, Upgradient from MU-005-50
GW-005-39	MW-26	Shallow, Downgradient MU-005-51, upgradient MU-005-52
GW-005-40	MW-27	Shallow, Upgradient MU-53
GW-005-41	MW-28	Shallow, Upgradient MU-005-23, downgradient MU-005-52, 53
GW-005-42	MW-29	Shallow, Cross gradient MU-005-24
GW-005-43	MW-30	Deep, Upgradient MU-005-63, MU-005-64
GW-005-44	MW-31	Deep, Upgradient MU-005-60, 61, 65-69

GW-005-45	MW-32	Deep, Cross gradient MU-005-60
GW-005-46	MW-33	Deep, Downgradient MU-005-60, 61, 65
GW-005-47	MW-34	Deep, Downgradient MU-005-60, 66, 67, 69

5.2.2. Groundwater Monitoring, Sampling, and Analyses

Monitoring point serial number	Sampling Point Description	Sample type and Frequency	Constituents (units in mg/L unless otherwise specified)
GW-005-01 GW-005-04 GW-005-06 GW-005-07 GW-005-09 GW-005-10 GW-005-11 GW-005-12 GW-005-17 GW-005-18 GW-005-19 GW-005-20 GW-005-21 GW-005-22 GW-005-23 GW-005-24 GW-005-25 GW-005-26 GW-005-30 GW-005-31 GW-005-32 GW-005-33 GW-005-34 GW-005-35 GW-005-36 GW-005-37 GW-005-38 GW-005-39 GW-005-40 GW-005-41 GW-005-42 GW-005-43 GW-005-44 GW-005-45 GW-005-46 GW-005-47		Unfiltered Grab sample, Three times annually[a] April, July, and October. Collect samples as close to the middle of the month as practicable.	- Water table elevation (1/100 of a foot) - Water table depth (1/100 of a foot) - COD - Total phosphorus, as P - Nitrate-nitrogen, as N - sulfate - chloride - pH (standard units) - electrical conductivity (µmhos/cm) - temperature - total and dissolved iron[b] - total and dissolved manganese[b] - TDS[b] - VDS[b]

Recommend sampling: Domestic wells within ¼ mile of all active treatment acreage[c]	Monitoring point numbers established internally	Grab sample Report Domestic well samplinng results to DEQ annually in the annual report for any domestic wells sampled	- chloride - nitrate nitrogen - total phosphorus - total dissolved solids - sulfate - total and dissolved iron[2] - total and dissolved manganese[2]

a. To allow the Permittee flexibility in obtaining samples when water is most likely to be present, the timing of groundwater sampling is not specified. Sampling should be scheduled and conducted so as to assess seasonal variability in static water levels, but should temporally independent and evenly distributed over time to the extent practicable.
b. Analytical results are required for dissolved iron and/or manganese only if the results for total iron and/or manganese exceed standards in IDAPA 58.01.11.200.b. Laboratory measured values are required for TDS unless specific approval to use a calculated value (conversion from EC) is obtained.
c. Annual domestic well sampling is recommended but is not required and is applicable only where permission is obtained from the owner.

5.3. Soil Monitoring

5.3.1. Soil Monitoring Unit Descriptions

Monitoring point serial number	Description	Associated Management Unit
SU-005-20	Center Pivot - 1	MU-005-20
SU-005-21	Center Pivot - 2	MU-005-21
SU-005-22	Center Pivot - 3	MU-005-22
SU-005-23	Center Pivots – 4a, 4b, 4c, N Mini, SW Mini, and Solid Sets	MU-005-23
SU-005-24	CP-16, CP-17, CP-18, CP-19	MU-005-24
SU-005-25	Center Pivot - 5 Municipal Management Unit	MU-005-25
SU-005-26	Waste Solids Management unit	MU-005-26
SU-005-30	South Farm Tiede Center Pivot - 1	MU-005-30
SU-005-31	South Farm Tiede Center Pivot - 2	MU-005-31
SU-005-32	South Farm Tiede Center Pivot - 3	MU-005-32
SU-005-33	South Farm Tiede Center Pivot - 4	MU-005-33
SU-005-34	Previous Overflow Management Unit	MU-005-34
SU-005-35	Center Pivot - 9	MU-005-35
SU-005-36	Center Pivot - 8	MU-005-36
SU-005-37	Center Pivot - 7	MU-005-37
SU-005-38	Center Pivot - 6	MU-005-38

SU-005-39	Center Pivot - 12	MU-005-39
SU-005-40	Center Pivot - 13	MU-005-40
SU-005-41	Center Pivot - 10	MU-005-41
SU-005-42	Center Pivot - 11	MU-005-42
SU-005-43	Borah Sub Idaho Power CP - 14	MU-005-43
SU-005-44	Borah Sub Idaho Power CP - 15	MU-005-44
SU-005-50	Toevs Center Pivot - 1	MU-005-50
SU-005-51	Toevs Center Pivot - 2	MU-005-51
SU-005-52	Toevs Center Pivot - 3	MU-005-52
SU-005-53	CP - 20	MU-005-53
SU-005-60	Kress Center Pivot - 1	MU-005-60
SU-005-61	Kress Center Pivot - 2	MU-005-61
SU-005-62	Kress Center Pivot - 3	MU-005-62
SU-005-63	Kress Center Pivot - 4	MU-005-63
SU-005-64	Kress Center Pivot - 5	MU-005-64
SU-005-65	Kress Center Pivot - 6	MU-005-65
SU-005-66	Kress Center Pivot - 7	MU-005-66
SU-005-67	Kress Center Pivot - 8	MU-005-67
SU-005-68	Kress Center Pivot - 9	MU-005-68
SU-005-69	Kress Center Pivot - 10	MU-005-69

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-005-20 SU-005-21 SU-005-22 SU-005-23 SU-005-24 SU-005-25	Composite samples	Annually in March	- pH (standard units) - Plant available phosphorus (Olsen Method) - Nitrate - nitrogen - Ammonium - nitrogen - Electrical conductivity (µmhos/cm in saturated paste extract)
SU-005-30 SU-005-31 SU-005-32 SU-005-33 SU-005-34 SU-005-35 SU-005-36 SU-005-37 SU-005-38 SU-005-39 SU-005-40 SU-005-41 SU-005-42 SU-005-43 SU-005-44 SU-005-50 SU-005-51 SU-005-52 SU-005-53 SU-005-60 SU-005-61 SU-005-62 SU-005-63 SU-005-64 SU-005-65 SU-005-66 SU-005-67 SU-005-68 SU-005-69		First year of permit only	- Chloride - Percent organic matter (%OM) - Sodium adsorption ratio (unitless) - DTPA–iron - DTPA-Manganese

a. The minimum number of sample locations specified in the PO or QAPP, for each SU must be sampled. At each location, samples must be obtained from three depths: 0–12 inches; 12–24 inches; and 24–36 inches or refusal. The samples obtained from each depth must 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 Hydraulic Monitoring Units	Sample type	Sample Frequency	Parameters [a]
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	Harvested portion, each crop, From the management unit. Reported separately by acreage if different crops are grown	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 (%) - Dry yield (lb)

a. Documentation of reported yields must be provided for each harvest from each MU.

5.4.2. Plant Tissue Monitoring

Associated Hydraulic Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	Harvested portion, each crop Reported separately by acreage if different crops are grown	Each harvest	- Total combustible nitrogen (TCN); - Phosphorus as P (ppm) - Ash (%)

a. Report dry-basis results for all parameters except lab moisture content.

5.5. Lagoon Information

Serial number	Description	Estimated Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-005-01	Pond 1	18.5	12.70	Native Material
LG-005-02	Pond 2	19.0	20.30	Native Material
LG-005-03	Pond 3	17.5	31.30	Native Material
LG-005-04	Pond 4	25.0	61.20	Native Material
LG-005-05	Pond 5	17.0	20.10	Native Material
LG-005-06	Pond 6	23.5	26.10	Native Material
LG-005-07	Pond 7	17.9	31.20	Native Material
LG-005-08	Pond 8	14.9	26.50	Native Material
LG-005-09	Pond 9	16.5	42.60	Native Material
LG-005-10	Pond 10	7.2	13.10	Native Material
LG-005-11	Pond 11	19.0	33.50	Native Material
LG-005-12	Pond 12	11.5	62.20	Native Material
LG-005-13	Pond 13	13.6	27.10	Native Material
LG-005-14	Pond 14	11.0	27.70	Native Material
LG-005-15	Pond 15	9.5	18.60	Native Material
LG-005-16	Pond 16	12.6	20.00	Native Material
LG-005-17	Silt Pond 1	1.9	N/A	Native Material
LG-005-18	Silt Pond 2	6.3	N/A	Native Material
LG-005-19	Silt Pond 3	2.8	N/A	Native Material
LG-005-20	Surge Basin	0.5	N/A	HDPE
LG-005-21	Previous Non-Contact Cooling Water Site No Longer Irrigated	14.2	N/A	Native Material
LG-005-22	Municipal Treatment Lagoon	1.0	1.8	Clay

6. Reporting Requirements

6.1. Annual Report Requirements

The Permittee must 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 February 28 of each year, which must cover the previous reporting year.

6.1.2. Required Contents

The Annual Report must include the following:

1. Detailed results of the required monitoring as described in section 5 of this permit. The report must 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 must 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 must 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 must 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-005-10 MU-005-17 MU-005-18 MU-005-19	Mass of Nitrogen, Phosphorus, TDS, and TDIS, measured from the composite sampler following the clarifier prior to MU-005-10 Total pounds of each constituent sent to the pond system, and to the silt ponds.	Total pounds per month and Total pounds per year
MU-005-20 MU-005-21 MU-005-22 MU-005-23 MU-005-24 MU-005-25 MU-005-26 MU-005-30 MU-005-31 MU-005-32 MU-005-33 MU-005-34 MU-005-35 MU-005-36 MU-005-37 MU-005-38 MU-005-39 MU-005-40 MU-005-41 MU-005-42 MU-005-43 MU-005-44 MU-005-50 MU-005-51 MU-005-52 MU-005-53 MU-005-60 MU-005-61 MU-005-62 MU-005-63 MU-005-64 MU-005-65 MU-005-66 MU-005-67 MU-005-68 MU-005-69	Recycled water loading rate	Million gallons per month, and Inches per month
	Irrigation water loading rate	Million gallons per month, and Inches per month
	Irrigation water requirement (IWR) for each crop grown	Inches per month, and Total inches applied during the GS
	Recycled water nitrogen, phosphorus, and total dissolved solids loading rates	Pounds per acre per year on a monthly basis
	Supplemental Irrigation water nitrogen, phosphorus, and TDS loading rates	Pounds per acre per year on a monthly basis
	Fertilizer nitrogen and phosphorus application rates, reported separately as elemental N and P	Pounds per acre per year on a monthly basis
	Waste solids, nitrogen and phosphorus application rates	Pounds per acre per year on a monthly basis
	Non-contact cooling water applied on MU-005-27	Million gallons per month, and Inches per month
	Crop harvest and yield Report each harvest and the annual totals for each MU.	Crop types harvested Total harvested area (acres) Total 'wet' yield (lb/yr, lb/acre per year) Total 'dry' yield (lb/yr, lb/acre per year)
	Crop nitrogen, phosphorus, and ash removal rates (dry-basis) Report each harvest and the annual totals for each MU.	Pounds-N per acre per year Pounds-P per acre per year Pounds Ash per acre per year

6.1.3. Submittals

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

- Permit applications must be signed by the responsible official as described below:
  a. For a corporation by a responsible corporate officer.
  b. For a partnership or sole proprietorship by a general partner or the proprietor, respectively.
  c. For a municipality, state, federal, Indian tribe, or other public agency by either the principal executive officer, 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 must 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:
  a. The authorization is made in writing by the responsible official.

  b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual having overall responsibility for environmental matters for the company.
  c. The written authorization is submitted to DEQ:

Submit 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
Pocatello Regional Office
444 Hospital Way #300
Pocatello, ID 83201

The annual report, or any other data or monitoring information submitted to DEQ, must 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 must 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 must 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 must report noncompliance incidents to DEQ's regional office at 208-236-6160, or 1-800-655-6160.

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 must 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 must 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, must 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 must meet the requirements of IDAPA 58.01.08.543. Assemblies must be adequately maintained and must 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 must 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 must 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 must be implemented to prevent any unauthorized discharge. Backflow prevention assemblies or devices used to protect surface water must be adequately operated and maintained.

Records of all testable backflow assembly test results, repairs, and replacements must be kept at the reuse facility along with other operational records, and must 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, must 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 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 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 which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended.

Solid waste does not include inert wastes, manures and crop residues ultimately returned to the soils at agronomic rates, and any agricultural solid waste which is managed and regulated pursuant to rules adopted by the Idaho Department of Agriculture.

DEQ reserves the right to use existing authorities to regulate agricultural waste that impacts human health or the environment.

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

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

Inert wastes are defined as non-combustible, nonhazardous, and non-putrescible solids wastes that are likely to retain their physical and chemical structure and have a deminimis 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
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 must comply with the requirements of "Ground Water Quality Rule" (IDAPA 58.01.11).

9.2. Administrative

Requirements for administration of the permit are defined as follows.

9.2.1. Permit Modification (IDAPA 58.01.17.700)

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

10.1.3. Wells Posing a Threat to Human Health and Safety, or Causing Contamination of the 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 in accordance with the applicable rules. See IDAPA 37.03.09.036.06 and consult IDWR for more information.

11. Site Maps

Figure 1. Vicinity Map.

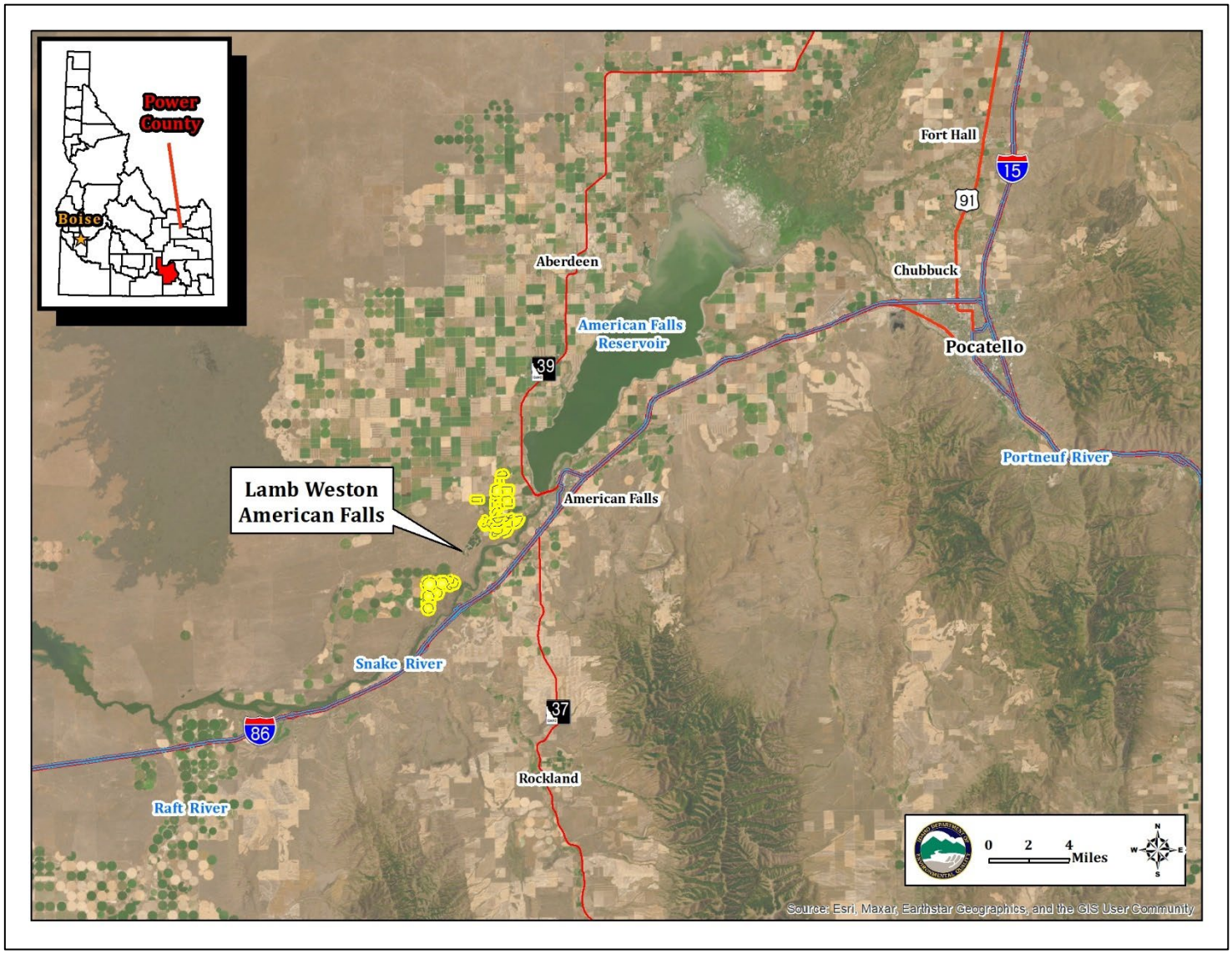

Figure 2. Management Unit Areas, Northern Management Units, Northern Expansion, Ponds, Southern Management Units, and Southern Expansion.

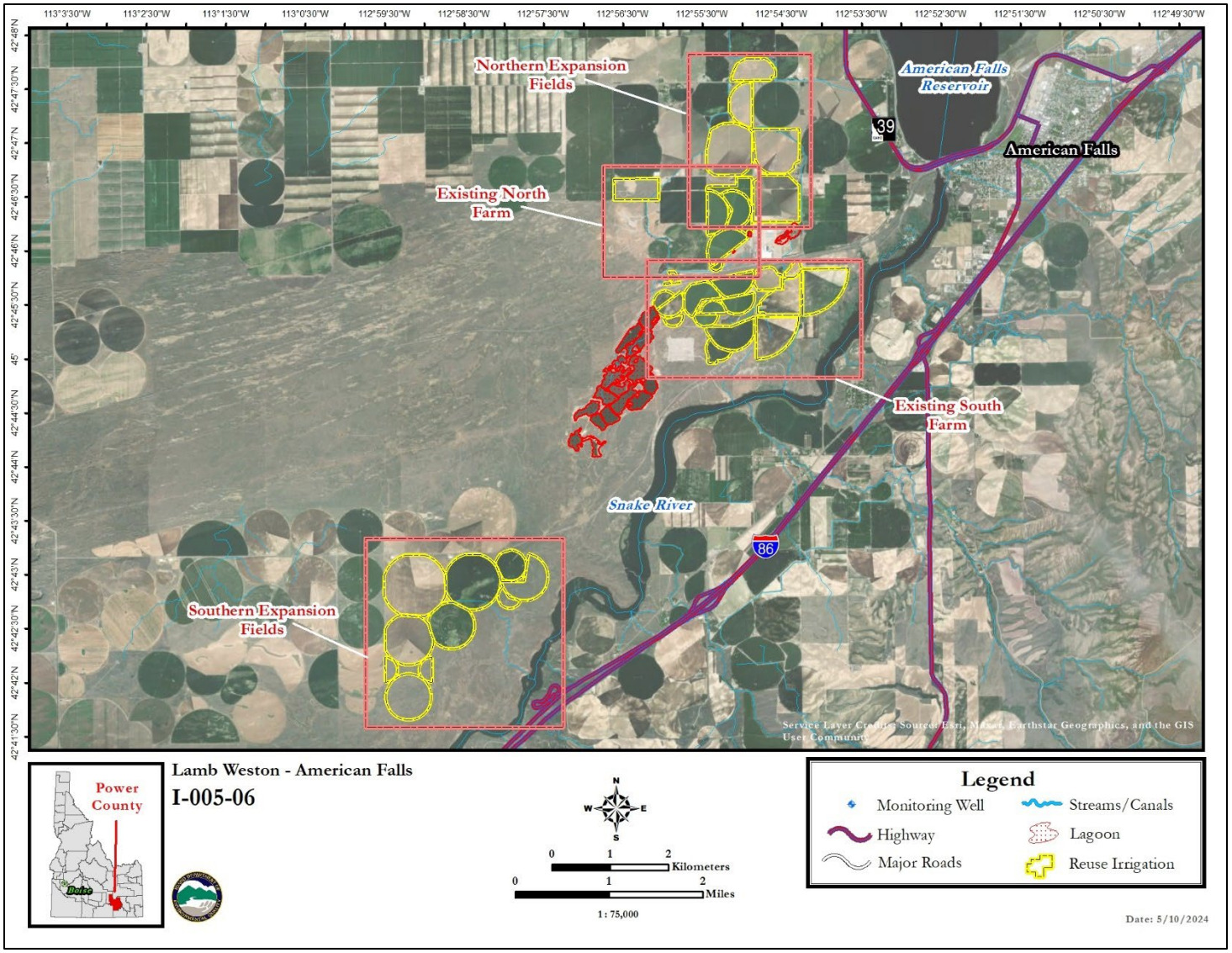

Figure 3. Existing Northern Management Units, Monitoring Wells and Municipal Lagoons.

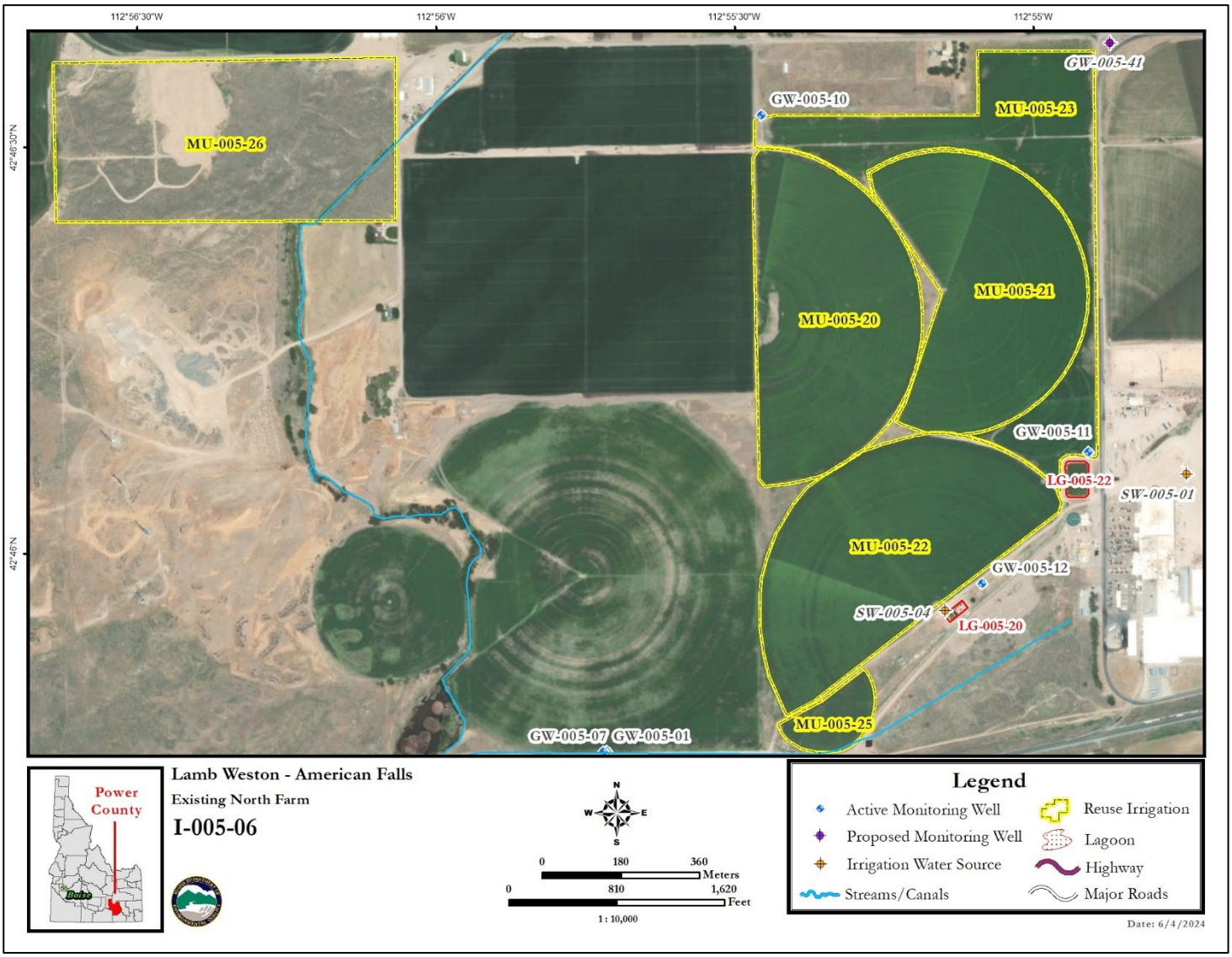

Figure 4. Northern Expansion Management Units and Monitoring Wells.

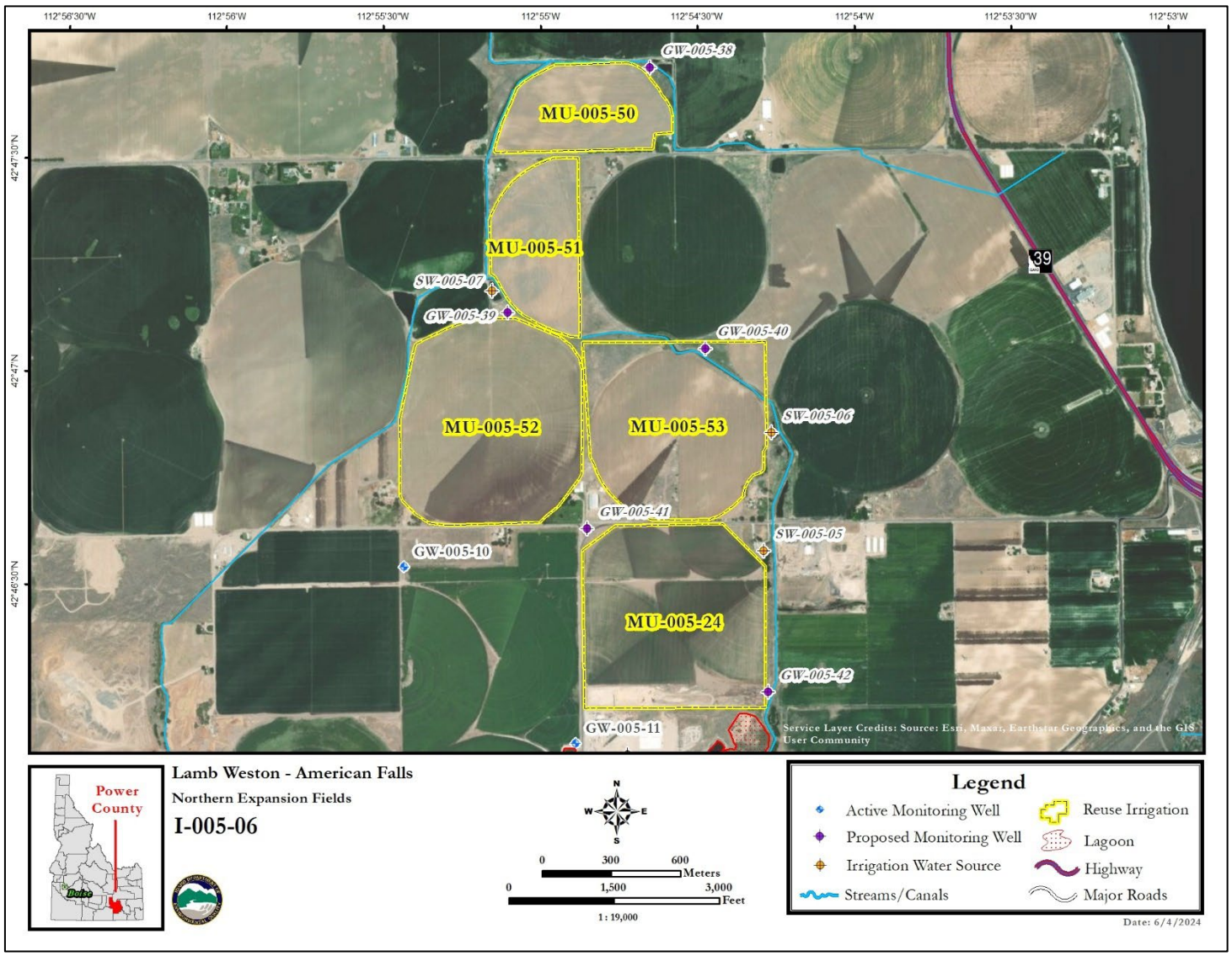

Figure 5. Pond Area, Southern Management Units, Silt Ponds, and Monitoring Wells.

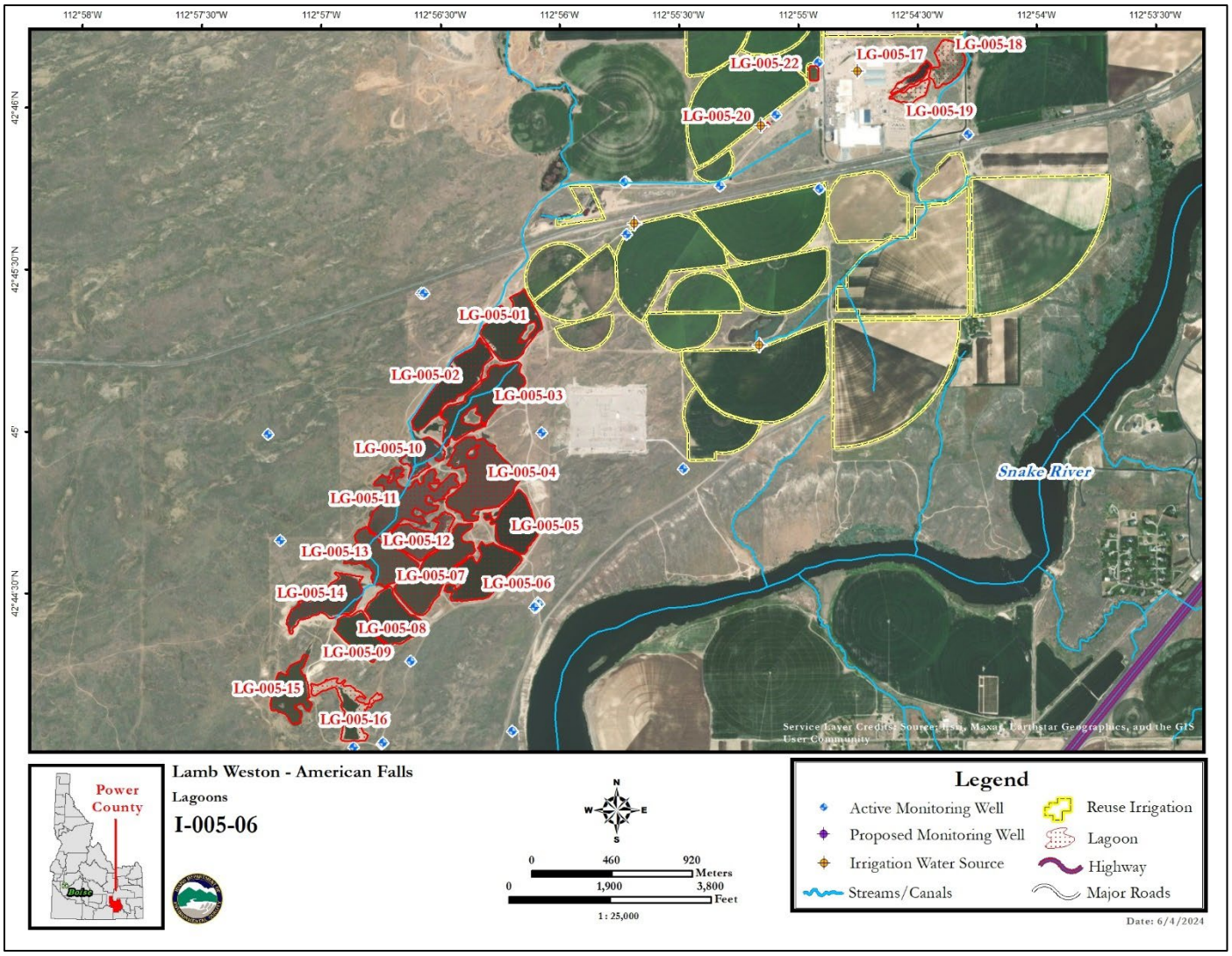

Figure 6. Existing Southern Management Units and Monitoring Wells.

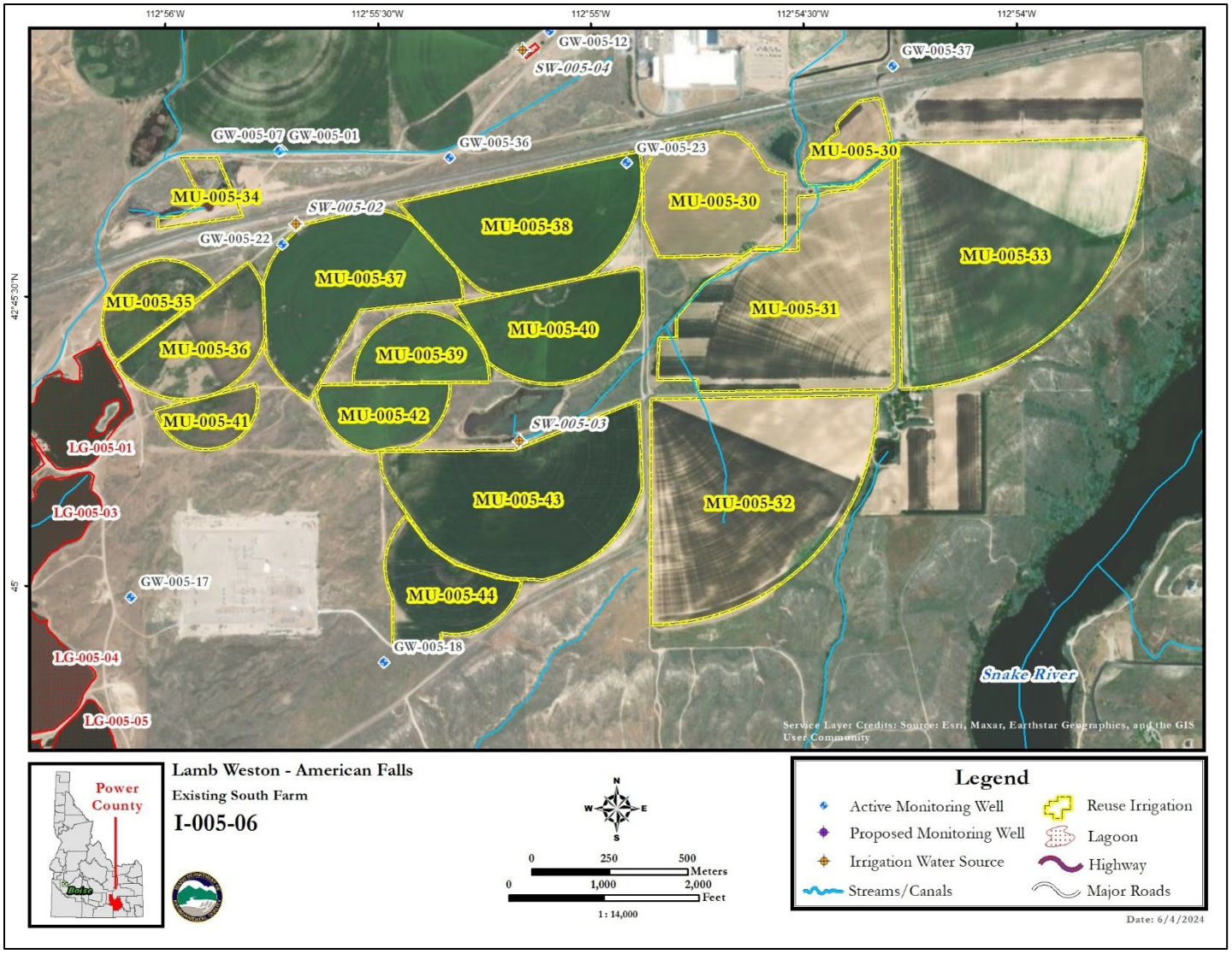

Figure 7. Southern Expansion Management Units and Monitoring Wells.

