

A. Permit Certificate

**DRAFT MUNICIPAL  
WASTEWATER REUSE PERMIT  
LA-000048-04**

**The City of Richfield (P.O. Box 97, Richfield, ID 83349)** LOCATED IN **Lincoln County (Township 4S, Range 19E, Section 26)** IS HEREBY AUTHORIZED TO CONSTRUCT, INSTALL, AND OPERATE A WASTEWATER REUSE SYSTEM IN ACCORDANCE WITH THE RECYCLED WATER RULES (IDAPA 58.01.17), WASTEWATER RULES (IDAPA 58.01.16), THE GROUND WATER QUALITY RULE (IDAPA 58.01.11), AND ACCOMPANYING PERMIT, APPENDICES, AND REFERENCE DOCUMENTS. THIS PERMIT IS EFFECTIVE FROM THE DATE OF SIGNATURE AND EXPIRES ON **(60 months from issue date)**.

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Bill Allred, Regional Administrator  
Twin Falls Regional Office  
Idaho Department of Environmental Quality

Date:

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
1363 Fillmore  
Twin Falls, ID 83301  
(208) 736-2190  
(208) 736-2194 fax**

## B. Permit Contents, Appendices, and Reference Documents

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### References

1. Plan of Operation (Operation and Maintenance Manual)
2. Runoff Management Plan

The Sections, Appendices, and Reference Documents listed on this page are all elements of Wastewater Reuse Permit LA-000048-04 and are enforceable as such. This permit does not relieve the City of Richfield, hereafter referred to as the permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

## C. Abbreviations, Definitions

<b>Ac-in</b>	Acre-inch. The volume of water or wastewater to cover 1 acre of land to a depth of 1 inch. Equal to 27,154 gallons (often estimated as 27,200 gallons).
<b>BMP or BMPs</b>	Best Management Practice(s)
<b>CFU</b>	Colony Forming Units
<b>COD</b>	Chemical Oxygen Demand
<b>DEQ or the Department</b>	Idaho Department of Environmental Quality
<b>Director</b>	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
<b>ET</b>	Evapotranspiration – Loss of water from the soil and vegetation by evaporation and by plant uptake (transpiration)
<b>ft</b>	Foot or feet
<b>GS</b>	Growing Season (April 1 – September 30)
<b>GW</b>	Ground Water
<b>GWQR</b>	IDAPA 58.01.11 “Ground Water Quality Rule”
<b>Guidance</b>	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater
<b>HLR<sub>gs</sub></b>	Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to land application hydraulic management units during the growing season. The HLR <sub>gs</sub> limit is specified in Section F. Permit Limits and Conditions.
<b>HLR<sub>ngs</sub></b>	Non-Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to each hydraulic management unit during the non-growing season. If applicable, the HLR <sub>ngs</sub> limit is specified in Section F. Permit Limits and Conditions.
<b>HMU</b>	Hydraulic Management Unit (Serial Number designation is MU)
<b>IWR</b>	Irrigation Water Requirement – Any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop: $IWR = P_{def} / E_i$ Where: $P_{def}$ = Precipitation deficit (crop specific) $E_i$ = irrigation system efficiency.
<b>IDAPA</b>	Idaho Administrative Procedures Act.
<b>LG</b>	Lagoon
<b>lb/ac-day</b>	Pounds (of constituent) per acre per day
<b>MG</b>	Million Gallons (1 MG = 36.827 acre-inches)
<b>MGA</b>	Million Gallons Annually (per Reporting Year)
<b>NGS</b>	Non-Growing Season (November 1-March 31)

### C. Abbreviations, Definitions

<b>NVDS</b>	Non-Volatile Dissolved Solids (Total Dissolved Solids less Volatile Dissolved Solids)
<b>O&amp;M Manual</b>	Operation and Maintenance Manual, also referred to as the Plan of Operation
<b>QAPP</b>	Quality Assurance Program Plan
<b>RI</b>	Rapid Infiltration
<b>SAR</b>	Sodium Adsorption Ratio
<b>SI</b>	Supplemental Irrigation
<b>Soil AWC</b>	Soil Available Water Holding Capacity - the plant-available water storage capability of a soil to a depth at which plant roots can utilize the stored moisture (typically 60 inches or root limiting layer)
<b>SMU</b>	Soil Monitoring Unit (Serial Number designation is SU)
<b>SR</b>	Slow Rate
<b>SW</b>	Surface Water
<b>TDS</b>	Total Dissolved Solids also referred to as Total Filterable Residue
<b>TDIS</b>	Total Dissolved Inorganic Solids – The summation of chemical concentration results in mg/L for the following common ions: calcium, magnesium, potassium, sodium, chloride, sulfate, and 0.6 times alkalinity (alkalinity expressed as calcium carbonate). Nitrate, Silica and fluoride should be included if present in significant quantities (i.e. > 5 mg/L each).
<b>TMDL</b>	Total Maximum Daily Load – The sum of the individual waste-load allocations (WLAs) for point sources, Load Allocations (LAs) for non-point sources, and natural background. Such load shall be established at a level necessary to implement the applicable water quality standards with seasonal variations and a margin of safety that takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality. IDAPA 58.01.02 <i>Water Quality Standards and Wastewater Treatment Requirements</i>
<b>Total Nitrogen</b>	Total Nitrogen is defined as the sum of all forms of nitrogen present in a sample. Total Nitrogen is determined by adding the values of the Total Kjeldahl Nitrogen (TKN), Nitrate-N and Nitrite-N laboratory results.
<b>Typical Crop Uptake</b>	Typical Crop Uptake is defined as the median constituent crop uptake from the three (3) most recent years the crop has been grown. Typical Crop Uptake is determined for each hydraulic management unit. For new crops having less than three years of on-site crop uptake data, regional crop yield data and typical nutrient content values, or other values approved by DEQ may be used.
<b>USGS</b>	United States Geological Survey
<b>Reporting Year</b>	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31.
<b>WW</b>	Wastewater, also known as Recycled Water

## D. Facility Information

<b>Legal Name of Permittee</b>	City of Richfield
<b>Type of Wastewater</b>	Municipal (Class D)
<b>Method of Treatment</b>	Aerated lagoon, polishing lagoon, chlorine disinfection, slow rate land application
<b>Facility Location</b>	Two lagoons and reuse site approximately ¼ mile SW of Richfield
<b>Legal Location</b>	Township 4N, Range 19E, Section 26
<b>County</b>	Lincoln
<b>USGS Quad</b>	Richfield, Idaho
<b>Depth to Ground Water</b>	Limited shallow aquifer, varies seasonally 150 feet to intermediate aquifer 300 to 340 feet to regional aquifer
<b>Beneficial Uses of Ground Water</b>	Drinking Water, Irrigation Water for Agriculture, Industrial
<b>Nearest Surface Water</b>	The Little Wood River runs along the southern border of the land application field
<b>Beneficial Uses of Surface Water</b>	Agricultural Irrigation, Cold Water Biota, Salmonid Spawning, Secondary Contact Recreation (IDAPA 58.01.02.150.06)
<b>Responsible Official</b>	Mr. Charles Buttane, Mayor
<b>Mailing Address</b>	City of Richfield P.O. Box 97 Richfield, Idaho 83349
<b>Phone / Fax</b>	(208) 487-2754 / (208) 487-2754
<b>Facility Contact</b>	Mr. Jack Riley, Facility Operator
<b>Mailing Address</b>	City of Richfield P.O. Box 97 Richfield, Idaho 83349
<b>Phone / Fax</b>	(208) 487-2754 / (208) 487-2754
<b>Facility Consultant</b>	J-U-B Engineers, Inc.
<b>Mailing Address</b>	115 Northstar Avenue Twin Falls, Idaho 83301
<b>Phone / Fax</b>	(208) 733-2414 / (208) 733-9455

## E. Compliance Schedule for Required Activities

The *Activities* in the following table shall be completed on or before the *Completion Date* unless modified by the Department in writing.

<b>Compliance Activity Number Completion Date</b>	<b>Compliance Activity Description</b>
<b>CA-048-01</b> <b>Within six (6) months of permit issuance</b>	<p>An addendum to the Plan of Operation (Operation and Maintenance Manual or O&amp;M Manual) for the wastewater reuse facilities on the new acreage, incorporating the requirements of this permit, shall be submitted to DEQ for review and approval unless it can be demonstrated to DEQ that the current Plan of Operation is adequate. The Plan of Operation shall be designed for use as an operator guide for actual day-to-day operations to meet permit requirements and shall include daily sampling and monitoring requirements to assess the adequacy of wastewater treatment facility operation. The Plan of Operation shall contain at a minimum all of the information in the latest revision of the Plan of Operation Checklist. The Plan of Operation shall specifically include the following site management plans:</p> <ol style="list-style-type: none"> <li>1) Runoff Management Plan for control and mitigation of site runoff. This plan shall include administrative procedures and practices to avoid producing runoff from the site; and</li> <li>2) Quality Assurance Plan (QAP) for monitoring required in this permit. The plan shall cover field activities; laboratory analytical methods and other activities; data verification and validation; data storage, retrieval and assessment; and monitoring program evaluation and improvement.</li> </ol>
<b>CA-048-02</b> <b>Eight (8) Months after Permit Issuance to submit the Seepage Testing Plan</b> <b>Complete seepage testing of all required structures by August 24, 2014</b>	<p>Submit a seepage testing plan that defines the approach, testing procedures, and schedule to conduct seepage testing in accordance with methods approved by DEQ on all wastewater storage structures.</p> <p>Upon approval of the plan, conduct the seepage testing of the structures in the approved plan and submit test results to DEQ. The seepage performance standard is 0.25 inches per day for existing structures. If a properly tested lagoon leaks more than 0.25 inches per day, the permittee in accordance with a schedule negotiated with and approved by DEQ, is required to : 1) repair the leak and retest for compliance, 2) re-line the lagoon and retest for compliance, 3) drain the lagoon in an approved manner and stop using the lagoon, or 4) determine the impact of the leaking lagoon on the environment based on ground water sampling and modeling. The procedure for performing the ground water sampling and monitoring must be approved by DEQ. If the determined impacts does not comply with IDAPA 58.01.11 (“Ground Water Quality Rule”) and IDAPA 58.01.02 (“Water Quality Standards”) the permittee must follow one of the steps set out in 1), 2), or 3) above.</p>
<b>CA-048-03</b> <b>Six (6) Months prior to land application of waste solids</b>	<p>A Waste Solids Management Plan (WSMP) shall be submitted to DEQ for review and approval. The WSMP shall include relevant site and material information as described by the latest revision of the DEQ Guidance for Land Application of Municipal Biosolids. The WSMP shall be approved prior to application of any waste solids to the site.</p>

E. Compliance Schedule for Required Activities

<b>Compliance Activity Number Completion Date</b>	<b>Compliance Activity Description</b>
<b>CA-048-04</b> <b>One hundred eighty (180) days prior to permit expiration</b>	Submit an application package to DEQ for permit renewal.

## F. Permit Limits and Conditions

Category	Permit Limits and Conditions																																								
Type of Wastewater	Municipal (Class D)																																								
Application Site Area	8.45 acres																																								
Application Season	GS only: April 1 through September 30 (214 days)																																								
Reporting Year	November 1 through October 31																																								
GS HLR (includes reuse water and supplemental irrigation water, if used)	<p>HLR shall be substantially equal to the IWR throughout the growing season. No reuse water is to be applied to the fields during the NGS.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Alfalfa – less frequent cuttings</th> </tr> <tr> <th></th> <th style="text-align: center;">Inches*</th> <th style="text-align: center;">MG (Field 1)</th> <th style="text-align: center;">MG (Field 2)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">April</td> <td style="text-align: center;">2.13</td> <td style="text-align: center;">0.202</td> <td style="text-align: center;">0.286</td> </tr> <tr> <td style="text-align: center;">May</td> <td style="text-align: center;">8.43</td> <td style="text-align: center;">0.801</td> <td style="text-align: center;">1.133</td> </tr> <tr> <td style="text-align: center;">June</td> <td style="text-align: center;">10.83</td> <td style="text-align: center;">1.029</td> <td style="text-align: center;">1.456</td> </tr> <tr> <td style="text-align: center;">July</td> <td style="text-align: center;">11.12</td> <td style="text-align: center;">1.056</td> <td style="text-align: center;">1.494</td> </tr> <tr> <td style="text-align: center;">August</td> <td style="text-align: center;">9.33</td> <td style="text-align: center;">1.887</td> <td style="text-align: center;">1.254</td> </tr> <tr> <td style="text-align: center;">September</td> <td style="text-align: center;">8.05</td> <td style="text-align: center;">0.765</td> <td style="text-align: center;">1.082</td> </tr> <tr> <td style="text-align: center;">October</td> <td style="text-align: center;">3.64</td> <td style="text-align: center;">0.346</td> <td style="text-align: center;">0.490</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">53.53</td> <td style="text-align: center;">5.087</td> <td style="text-align: center;">7.195</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">*Based on ET data from <a href="http://www.kimberly.uidaho.edu/ETIdaho/stinfo.php?station=107673">http://www.kimberly.uidaho.edu/ETIdaho/stinfo.php?station=107673</a>, assuming 65% efficiency for furrow irrigation.</p>	Alfalfa – less frequent cuttings					Inches*	MG (Field 1)	MG (Field 2)	April	2.13	0.202	0.286	May	8.43	0.801	1.133	June	10.83	1.029	1.456	July	11.12	1.056	1.494	August	9.33	1.887	1.254	September	8.05	0.765	1.082	October	3.64	0.346	0.490	Total	53.53	5.087	7.195
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Livestock Grazing	No grazing allowed without an approved Grazing Management Plan																																								
Ground Water Quality	Reuse water activities conducted under this permit shall not cause a violation of the GWQR (IDAPA 58.01.11)																																								
Maximum Nitrogen Loading Rate, pounds/acre-year, each HMU (includes applied fertilizers, if used)	150% of Typical Crop Uptake (see definition in Section C)																																								
Maximum Phosphorus Loading Rate, pounds/acre-year, each HMU (includes applied fertilizers, if used)	150% of Typical Crop Uptake (see definition in Section C)																																								
Maximum COD Loading Rate, pounds/acre-day, seasonal average	50 lbs/acre-day																																								

## F. Permit Limits and Conditions

Category	Permit Limits and Conditions
Buffer Zones	<p>All buffer zones must comply with local zoning ordinances, at minimum. Other minimum buffer zones are as follows:</p> <ul style="list-style-type: none"> <li>• 300 ft from SR fields to inhabited dwellings</li> <li>• 50 ft from all reuse sites to areas accessible by the public</li> <li>• 35 ft from all reuse sites to permanent and intermittent surface water</li> <li>• 35 feet from all reuse sites to irrigation ditches and canals</li> <li>• 500 feet from all reuse sites to private water supply wells<sup>1</sup></li> <li>• 1000 feet from all reuse sites to public water supply wells<sup>1</sup></li> <li>• Berms and other BMPs shall be used to protect the well head of on-site wells.</li> </ul> <p>1) These buffer zone distances shall be maintained unless a Department-approved well location acceptability analysis indicates an alternative buffer zone is acceptable</p>
Disinfection Requirement	<p>The median number of total coliform organisms shall not exceed 230 colony forming units (CFU) per 100 milliliters (CFU/100 mL), as determined from the results of the last three (3) days for which the analyses have been completed. In addition the number of total coliform organisms shall not exceed 2300 CFU /100 mL in any confirmed sample.</p>
Fencing and Posting	<p>Signs shall be posted and maintained every 500 ft and at each corner of the outer perimeter of the buffer zones of the reuse sites which read ‘Warning: Recycled Water – Do Not Enter’, or equivalent in both English and Spanish. Woven pasture fence or equivalent is required.</p>
Runoff Control	<p>Runoff shall be managed in accordance with the most recent Runoff Management Plan approved by DEQ.</p>
Supplemental Irrigation Water Protection	<p>For systems with recycled water and fresh irrigation water interconnections, DEQ-approved backflow prevention devices are required.</p>
Allowable Crops	<p>Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed.</p>
Construction Plans	<p>Prior to construction or modification of all recycled water facilities associated with the reuse system or expansion, detailed plans and specifications shall be submitted for review and approval by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans for DEQ review and acceptance.</p>
Odor Management	<p>The reuse facilities and other operations associated with the facility shall not create a public health hazard or nuisance conditions including odors.</p>

## G. Monitoring Requirements

The Permittee is allowed to apply reuse water and treat it on a land application site as prescribed in the table below and in accordance with all other applicable permit conditions and schedules.

- 1) Appropriate analytical methods, as given in the *Idaho Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater*, or as approved by the Idaho Department of Environmental Quality (hereinafter referred to as DEQ), shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the facility's Quality Assurance Project Plan (QAPP), which shall be part of the Operation and Maintenance Manual.
- 2) The permittee shall monitor and measure parameters as stated in the Facility Monitoring Table in this section.
- 3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
- 4) Unless otherwise agreed to in writing by DEQ, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the Facility Monitoring Table on the following pages. Monitoring is required at the frequency shown in the table below if reuse water is applied anytime during the time period shown.
- 5) Crop tissue sampling shall be performed for each cutting or harvest of the selected crop. The harvested portion of the crop shall be composited to yield one (1) sample for each cutting or harvest.
- 6) Five (5) soil sample locations shall be selected for each SMU. Three (3) soil samples shall be collected at each sample location, one at 0-12 inches, one at 12-24 inches, and one at 24-36 inches or refusal. The soil samples collected at each depth shall be composited to yield three (3) samples for analysis for each SMU.
- 7) Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.
- 8) Monitoring locations are defined in Appendix 1, "Environmental Monitoring Serial Numbers".

## G. Monitoring Requirements

### Facility Monitoring Table

Frequency	Monitoring Point	Description/Type of Monitoring	Parameters
Daily, when irrigating	FM-004801	Flow of recycled water to each HMU	Volume (MG and inches/acre) to each HMU, record daily, compile monthly
Daily, when irrigating	FM-004802	Flow of supplemental irrigation water to each HMU	Volume (MG and inches/acre) to each HMU, record daily, compile monthly
Prior to first use	SW-004801	Grab sample, supplemental irrigation	Total Nitrogen (mg/L) Total Phosphorus (mg/L) COD (mg/L) TSS (mg/L)
Monthly, when irrigating	WW-004801	Grab sample, recycled water	TKN (mg/L) Nitrite + Nitrate-Nitrogen (mg/L) Total Nitrogen (mg/L) Total Phosphorus (mg/L) COD (mg/L) Chloride (mg/L) pH (standard units) TSS (mg/L) Total coliform (CFU/100 mL)
Each cutting or harvest	Each harvest	Composite crop tissue sample, see note 5	Nitrate-N TKN Total phosphorus Ash
Prior to first application of recycled water	SU-004802	Composite soil samples, see note 6	Electrical conductivity (umhos/cm), Organic matter (%) SAR Nitrate-N (mg/kg) Ammonia-N (mg/kg) Potassium (mg/kg) pH (standard units) Plant-available phosphorus <sup>1</sup> (mg/Kg)
Annually (April and November)	All SMUs	Composite soil samples, see note 6	Electrical conductivity (umhos/cm), Organic matter (%) SAR Nitrate-N (mg/kg) Ammonia-N (mg/kg) Potassium (mg/kg) pH (standard units) Plant-available phosphorus <sup>1</sup> (mg/Kg)

<sup>1</sup> For P analysis: use Olsen Method for soils with pH 6.5 or greater; use Bray Method if soil pH is less than 6.5.

## G. Monitoring Requirements

Frequency	Monitoring Point	Description/Type of Monitoring	Parameters
Annually	Annual Report	Loading Calculations	Total nitrogen (lbs/acre) Phosphorus (lbs/acre) COD (lbs/acre-day) TSS (lbs/acre) Reuse water applied (MG and in/acre) SI water applied (MG and in/acre) Fertilizer applied (type, lbs/acre)
Annually	Annual Report	Crop information (each field)	Crop type Number of cuttings Crop yield (tons/acre)
Annually	Annual Report	Crop Nutrient Uptake calculations from plant tissue analysis	Nitrogen uptake (lbs/acre) Phosphorus uptake (lbs/acre)
Annually	Annual Report	Chain of Custody forms (Bacteria holding time)	Sample collection time Laboratory receipt time
Annually	All supplemental irrigation directly connected to the reuse water distribution system	Backflow testing	Document the testing of all backflow prevention devices for all supplemental irrigation directly connected to the reuse water distribution system(s). Report the testing date(s) and result of the test (pass or fail). If any test failed, report the date of repair or replacement of backflow prevention device, and if the repaired/replaced device is operating correctly.
Annually	All flow measurement locations	Flow measurement calibration for all flows	Document the flow measurement calibration of all flow meters and pumps used directly or indirectly to measure all reuse water and supplemental irrigation water to each HMU.

## H. Standard Reporting Requirements

- 1.) The Permittee shall submit an Annual Reuse Water Treatment Site Performance Report (“Annual Report”) prepared by a competent environmental professional no later than January 31 of each year, which shall cover the previous reporting year. The Annual Report shall include an interpretive discussion of monitoring data (ground water, soils, hydraulic loading, reuse water etc.) with particular respect to environmental impacts by the facility.
- 2.) The annual report shall contain the results of the required monitoring as described in *Section G. Monitoring Requirements*. If the permittee monitors any parameter more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.
- 3.) The annual report shall be submitted to the Engineering Manager in the following Regional DEQ Office:  
  
Twin Falls Regional Office  
1363 Fillmore St.  
Twin Falls, ID 83301  
208-736-2190
- 4.) Notice of completion of any work described in *Section E. Compliance Schedule for Required Activities* shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.
- 5.) All laboratory reports containing the sample results for monitoring required by *Section G. Monitoring Requirements* of this permit shall be submitted with the Annual Report.

## I. Standard Permit Conditions: Procedures and Reporting

1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit or the Recycled Water Rules, in conformance with a DEQ-approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the reuse water treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.
2. Reuse water(s) or recharge waters applied to the land surface must be restricted to the premises of the application site. Reuse water discharges to surface water that require a permit under the Clean Water Act must be authorized by the U.S. Environmental Protection Agency.
3. Reuse water must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.16.600.03. In order to prevent public health hazards and nuisance conditions the permittee shall:
  - a. Apply reuse water as evenly as practicable to the treatment area;
  - b. Prevent organic solids (contained in the reuse water) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
  - c. Prevent reuse water from ponding in the fields to the point where the ponded reuse water putrefies or supports vectors or insects.
4. The permittee shall:
  - a. Manage the reuse water treatment site as an agronomic operation where vegetative cover is grown and harvested or grazed to utilize the nutrients and minerals in the wastewater, and,
  - b. Not hydraulically overload any particular areas of the reuse water treatment site.
5. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.
6. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Reuse Rules.
7. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:
  - a. Enter the permitted facility,
  - b. Inspect any records that must be kept under the conditions of the permit.
  - c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
  - d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.
8. The permittee shall report to the Director under the circumstances and in the manner specified in this section:
  - a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
  - b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
  - c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Regional Office: see Permit Certificate Page  
Emergency 24 Hour Number: 1-800-632-8000

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## I. Standard Permit Conditions: Procedures and Reporting

- d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:
    - i. A description of the non-compliance and its cause;
    - ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
    - iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.
  - e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.
9. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.
  10. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. If problems are present, coordinate with the Idaho Department of Agriculture or the local County authority regarding their requirements for noxious weed control. Also address these control operations in an update to the Operations and Maintenance Manual.

## J. Standard Permit Conditions: Modifications, Violation, and Revocation

1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.
2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17 with respect to any conditions stated in this permit upon review and approval of the DEQ.
3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in Section I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.
4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.
5. Any person violating any provision of the Reuse Rules, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.
6. The Director may revoke a permit if the permittee violates any permit condition or the Wastewater Reuse Permit Regulations.
7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.
8. If, pursuant to Idaho Code § 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23.
9. 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. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted reuse facility from service, including any treatment, storage, or other facilities or equipment associated with the reuse site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

Appendix 1  
Environmental Monitoring Serial Numbers

**Hydraulic Management Units**

Serial Number	Description	Acres
MU-004801	Field 1	3.50
MU-004802	Field 2	4.95

**Reuse Water Sampling Points**

Serial Number	Description / Location
WW-004801	Effluent to reuse system

**Supplemental Irrigation Sampling Points**

Serial Number	Description / Location
SW-004801	Irrigation canal diversion

**Lagoons**

Serial Number	Description	Volume
LG-004801	Lagoon #1 (aerated treatment)	1.0 MG
LG-004802	Lagoon #2 (facultative polishing)	0.9 MG

**Soil Monitoring Units**

Serial Number	Description	Associated HMU
SU-004801	Field 1	MU-004801
SU-004802	Field 2	MU-004802

**Flow Meters**

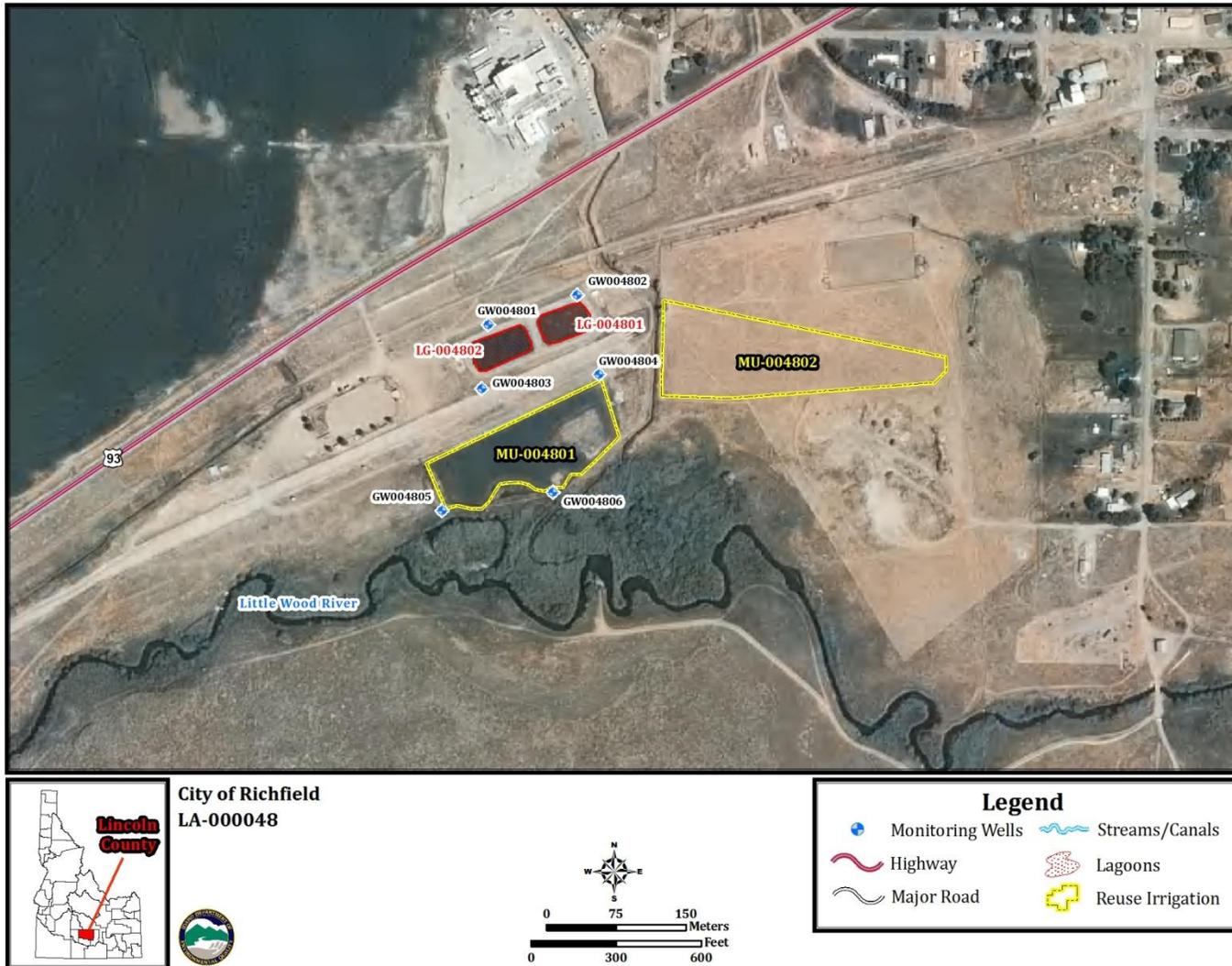
Serial Number	Description
FM-004801	Reuse water flow meter
FM-004802	Supplemental irrigation water flow meter

Appendix 2  
Site Maps



Figure 1. City of Richfield/WWTP Vicinity Map

## Appendix 2 Site Maps



**Figure 2. City of Richfield Site Map**