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**IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**REUSE PERMIT**

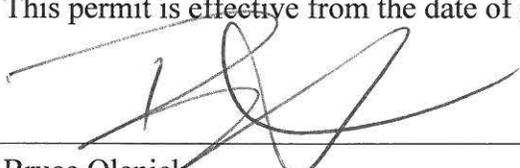
**I-104-03**

**(Previous Permit Numbers LA-000104-02 and LA-000035-02)**

**J.R. Simplot Company, Don Plant** (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 JANUARY 15, 2018

  
\_\_\_\_\_  
Bruce Olenick  
Regional Administrator  
Idaho Department of Environmental Quality  
Pocatello Regional Office

1-16-2013  
\_\_\_\_\_  
Date

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

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## 1. Abbreviations and Definitions

<b>CA</b>	compliance activity
<b>Department</b>	Department of Environmental Quality
<b>DEQ</b>	Idaho Department of Environmental Quality
<b>Director</b>	Director of the Idaho Department of Environmental Quality or the Director's Designee unless otherwise specified
<b><math>E_i</math></b>	irrigation efficiency
<b>ENU</b>	Elementary Neutralization Unit
<b>GW</b>	ground water (represents both monitoring well reporting and domestic well reporting)
<b>HMU</b>	hydraulic management unit
<b>IDAPA</b>	Idaho Administrative Procedures Act.
<b>IW</b>	new prefix for irrigation water constituent monitoring point serial number
<b>IWR</b>	irrigation water requirement
<b>LG</b>	prefix for lagoon serial numbers
<b>MG</b>	million gallons
<b>MU</b>	prefix for management unit serial number
<b>PO</b>	plan of operation
<b>QAPP</b>	quality assurance project plan
<b>SU</b>	prefix for soil monitoring unit serial number
<b>WW</b>	prefix for wastewater monitoring point serial number

## 2. Facility Information

Information type	Information specific for this permit
Type of recycled water	Industrial
Facility location address	1150 W. Highway 30 Pocatello, ID 83201
Facility mailing address	P.O. Box 912 Pocatello, Idaho 83204
Phone	208-234-5369 environmental phone number
Facility contact information	John Bob, Plant Manager <a href="mailto:john.bob@simplot.com">john.bob@simplot.com</a> Jonathan Witt, Environmental Engineer <a href="mailto:jonathan.witt@simplot.com">jonathan.witt@simplot.com</a>

## 3. Compliance Schedule for Required Activities

Compliance activity (CA) number and Completion due date	Compliance activity description
CA-104-01  Twelve (12) months following permit issuance	<p><b>Plan of Operation (O&amp;M Manual):</b> The permittee shall prepare and submit to the Department for review and approval an updated Plan of Operation (Operation and Maintenance Manual or O&amp;M Manual) for the current treatment and recycled water system, incorporating the requirements of this permit. 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 applicable information in the latest revision of the Plan of Operation Checklist as well as applicable site management plans and system troubleshooting procedures. The Permittee shall also submit the following 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 and engineering controls to prevent process water runoff from leaving the site.</li> <li>2) Quality Assurance Project Plan (QAPP) 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> <li>3) Agriculture Management Plan for demonstrating that nitrogen is being managed to minimize losses below the root zone. The plan will cover topics such as recommended fertilizer rates, cropping strategies and crop rotation with the goal of maximizing the nutrient uptake from the irrigated recycled water by the crop.</li> <li>4) Recycled Water Irrigation Site Instrumentation Plan that discusses the use and calibration of all instruments used for monitoring.</li> <li>5) A Monitoring Well Statistics Plan demonstrating that the QAPP is adequate to detect and quantify impacts to ground water as a result of the land application of wastewater.</li> <li>6) A Buffer Zone Plan which describes how the buffer zone setback distances specified in Section 4.4 of this permit will be achieved.</li> <li>7) Grazing Management Plan - include an updated copy of the grazing management plan in the updated plan of operation</li> </ol>

## 4. Permit Limits and Conditions

### 4.1. Hydraulic Management Unit Descriptions

Management Unit Serial Number	Description or Common Name	Type of recycled water allowed	Former Serial Number	Irrigation System Type and Irrigation Efficiency ( $E_i$ )	Acres
MU-10401	Swanson Ranch	Industrial	MU-010401	Pivot / Handline ( $E_i = 0.75$ )	112.4
MU-10402	Bannock Paving/Carlson (BAPCO)	Industrial	MU-010402	Handlines ( $E_i = 0.70$ )	73.1
MU-10403	Spanbauer Ranch	Industrial	MU-010403	Pivot / Handline ( $E_i = 0.75$ )	119.3
MU-10404	North Hale	Industrial	MU-003501	Pivot ( $E_i = 0.80$ )	129.8
MU-10405	Johnson Farms #1	Industrial	MU-003505	Pivot ( $E_i = 0.80$ )	151.7
MU-10406	Johnson Farms #2	Industrial	MU-003506	Pivot ( $E_i = 0.80$ )	135.0
MU-10407	Central Hale #1	Industrial	MU-003508 <sup>1</sup>	Handlines ( $E_i = 0.70$ )	120.8
MU-10408	Central Hale #2	Industrial	MU-003507 <sup>1</sup>	Handlines ( $E_i = 0.70$ )	72.6
MU-10409	South Hale	Industrial	MU-003509	Pivot ( $E_i = 0.80$ )	143.1
MU-10410	Rupp/Jensen	Industrial	MU-003510	Pivot / Handline ( $E_i = 0.75$ )	480.6
MU-10411	Central Hale Little	Industrial	MU-003507 <sup>1</sup>	Handlines ( $E_i = 0.70$ )	5.8
Total Irrigated Acres					1544.2

<sup>1</sup> LA-000035, the previous City of Pocatello permit, had Central Hale #2 listed as a lower number (3507) than Central Hale #1 (3508), the serial numbers are now listed in order. An additional management unit has been added to separate out 5.8 acres of the Central Hale #2 as its own unit.

## 4.2. Hydraulic Loading Limits, Vegetation, and Grazing

Serial Number	Former Serial Number	Growing season hydraulic loading	Non-growing season maximum hydraulic loading	Grazing
MU-10401	MU-010401	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Not allowed
MU-10402	MU-010402	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Not allowed
MU-10403	MU-010403	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Not allowed
MU-10404	MU-003501	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10405	MU-003505	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10406	MU-003506	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10407	MU-003508	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10408	MU-003507	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10409	MU-003509	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10410	MU-003510	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan
MU-10411	MU-003507	Substantially at the crop irrigation water requirement (IWR)	Not allowed	Allowed only under the conditions of an approved Grazing Management Plan

### 4.3. Constituent Loading Limits

Serial Number	Constituent loading (from all sources)				
	Nitrogen Annual loading limit <sup>a</sup> (lb/acre)	Phosphorus Annual loading limit (lb/acre)	NVDS (Non-volatile dissolved solids) Annual loading limit (lb/acre)	COD Growing Season loading limit (lb/ac-day)	TDS Annual loading limit (lb/acre)
MU-10401	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10402	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10403	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10404	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10405	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10406	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10407	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10408	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10409	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10410	150% of crop uptake	N/A	N/A	N/A	5,000
MU-10411	150% of crop uptake	N/A	N/A	N/A	5,000

a. The nitrogen loading limit is 150% of typical crop uptake. 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, regional crop yield data and typical nutrient content values, or other values approved by DEQ, may be used.

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

#### 4.4. Hydraulic Management Unit Buffer Zones, Fencing, and Posting

Serial Number	Buffer Distances (in feet) from Hydraulic Management Units to:						
	Public water supplies	Private water supplies	Dwellings	Public access areas	Natural surface waters	Man-made surface waters	Fencing and Signage
MU-10401	1,000	500	300	50	100	50	None required
MU-10402	1,000	500	300	50	100	50	None required
MU-10403	1,000	500	300	50	100	50	None required
MU-10404	1,000	500	300	50	100	50	None required
MU-10405	1,000	500	300	50	100	50	None required
MU-10406	1,000	500	300	50	100	50	None required
MU-10407	1,000	500	300	50	100	50	None required
MU-10408	1,000	500	300	50	100	50	None required
MU-10409	1,000	500	300	50	100	50	None required
MU-10410	1,000	500	300	50	100	50	None required
MU-10411	1,000	500	300	50	100	50	None required

- Buffer zones may be reduced by employing spray mitigation measures in a Buffer Zone Plan approved by DEQ including methods approved in writing for:
  - Establishment of an effective physical barrier,
  - Utilization of non-spray irrigation (drag tubes or equivalent),
  - Managing irrigation systems in a manner that would prevent any spray drift towards the feature of interest, or
  - Run-off and/or over-spray controls.
  
- The buffer zones may be reduced only if the proposal is supported with engineering control measures to limit over-spray onto indicated features of interest.

#### 4.5. Other Permit Limits and Conditions

<b>Category</b>	<b>Permit Limits and Conditions</b>
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 Licensure Required	None
Grazing	Grazing is allowed only under the provisions of a Grazing Management Plan approved by the Department. See compliance activity CA-104-01
User Agreements	The Permittee shall enter into and maintain written contracts (User Agreements) with property owners for each HMU not owned by the J.R. Simplot Company. At a minimum, user agreements shall guarantee use of the owner's property for the treatment of industrial wastewater as permitted herein. The Permittee shall update user agreements as necessary and, in cooperation with contracted growers, prepare crop plans for each crop and each HMU at least annually.
Type of Wastewater	<p>This permit authorizes the land application of non-hazardous industrial process wastewater consisting of collected storm water, non-contact cooling water, steam condensate blow down water, de-mineralizer regeneration water, reverse osmosis (RO) regeneration water, ore transport water, and ENU effluent.</p> <p>Other potentially hazardous sources of industrial wastewater including, but not limited to gypsum stack water or gypsum stack decant water are prohibited from land application under this permit without express written consent of the Department.</p> <p>Additional process water sources including but not limited to extraction well water or minor non-hazardous process water streams that do not significantly change wastewater constituents may be proposed for inclusion in the wastewater stream leaving the plant. Any proposed streams must have approval from DEQ to be used for land application, and may require permit modification.</p>

## 5. Monitoring Requirements

### 5.1. Recycled Water and Irrigation 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-10401  Surge Pond	Recycled water to: MU-10401 MU-10402 MU-10403  And to the 300 MG Impoundment Pond	WW quality, weekly composite sample, when irrigating, reported for each month in the annual report	<ul style="list-style-type: none"> <li>- ammonia-nitrogen</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- electrical conductivity</li> <li>- pH (standard units)</li> <li>- total dissolved solids</li> <li>- sulfate</li> </ul>
		WW quality, 24 hour composite sample, Sample once annually	<ul style="list-style-type: none"> <li>- aluminum</li> <li>- arsenic</li> <li>- boron</li> <li>- beryllium</li> <li>- cadmium</li> <li>- chromium</li> <li>- copper</li> <li>- cyanide</li> <li>- iron</li> <li>- fluoride</li> <li>- lithium</li> <li>- manganese</li> <li>- molybdenum</li> <li>- nickel</li> <li>- lead</li> <li>- selenium</li> <li>- thallium</li> <li>- zinc</li> <li>- Gross Alpha</li> <li>- Gross Beta</li> </ul>
WW-10402  Station 7	Effluent sampled as it leaves the facility, prior to entering the equalization pond.	Used for pH adjustment	Report any samples taken in the annual report

<b>Monitoring point serial number and location</b>	<b>Sample description</b>	<b>Sample type/Frequency</b>	<b>Constituents (units in mg/L unless otherwise specified)</b>
WW-10403  (Formerly WW-003503)  300 MG Impoundment Outflow	Recycled water to: MU-10404 MU-10405 MU-10406 MU-10407 MU-10408 MU-10409 MU-10410 MU-10411	WW quality, weekly composite sample, when irrigating, reported for each month in the annual report	<ul style="list-style-type: none"> <li>- ammonia-nitrogen</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- electrical conductivity</li> <li>- pH (standard units)</li> <li>- total dissolved solids</li> <li>- sulfate</li> </ul>
		WW quality, 24 hour composite sample, Sample once annually	<ul style="list-style-type: none"> <li>- aluminum</li> <li>- arsenic</li> <li>- boron</li> <li>- beryllium</li> <li>- cadmium</li> <li>- chromium</li> <li>- copper</li> <li>- cyanide</li> <li>- iron</li> <li>- fluoride</li> <li>- lithium</li> <li>- manganese</li> <li>- molybdenum</li> <li>- nickel</li> <li>- lead</li> <li>- selenium</li> <li>- thallium</li> <li>- zinc</li> <li>- Gross Alpha</li> <li>- Gross Beta</li> </ul>
WW-10404  New monitoring point  Swanson effluent outflow monitoring point	Recycled water to: MU-10401 MU-10402	WW quality, 24 hour composite sample, When irrigating, Reported for each month in the annual report	<ul style="list-style-type: none"> <li>- ammonia-nitrogen</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- electrical conductivity</li> <li>- pH (standard units)</li> <li>- total dissolved solids</li> <li>- sulfate</li> </ul>
<b>Supplemental Irrigation Water</b>			
IW-10401  (Formerly SW-010401)	Portneuf River water used for irrigation of the Swanson and BapCo/Carlson units <sup>2</sup>	Grab Sample, Taken annually near the beginning of the growing season	<ul style="list-style-type: none"> <li>- ammonia-nitrogen</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- total dissolved solids</li> </ul>
IW-10402  (Formerly SW-010402)	Havenor Canal to Swanson pump for irrigation	Grab Sample, Taken annually near the beginning of the growing season	<ul style="list-style-type: none"> <li>- ammonia-nitrogen</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- total dissolved solids</li> </ul>

<sup>2</sup> The Permittee may provide sample results for SIW quality from the Portneuf River obtained from the City of Pocatello's Portneuf River TMDL monitoring program.

<b>Monitoring point serial number and location</b>	<b>Sample description</b>	<b>Sample type/Frequency</b>	<b>Constituents (units in mg/L unless otherwise specified)</b>
IW-10403 (Formerly SW-003502)	Johnson Irrigation Well	Grab Sample, Taken annually near the beginning of the growing season	- ammonia-nitrogen - nitrate-nitrogen - total phosphorus - total dissolved solids
IW-10404 New monitoring point	Well #8 at the Surge Pond	Grab Sample, Taken annually near the beginning of the growing season	- ammonia-nitrogen - nitrate-nitrogen - total phosphorus - total dissolved solids
IW-10405 (Formerly SW-010403)	Church Lateral Canal	Grab Sample, Taken annually near the beginning of the growing season	- ammonia-nitrogen - nitrate-nitrogen - total phosphorus - total dissolved solids

### 5.1.2. Flow Monitoring

<b>Monitoring point serial number and description</b>	<b>Sample description</b>	<b>Sample type and Frequency include in annual report</b>	<b>Measured Parameter</b>
MU-10401 Swanson Ranch	Effluent volume to MU-10401	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10402 Bannock Paving / Carlson (BAPCO)	Effluent volume to MU-10402	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10403 Spanbauer Ranch	Effluent volume to MU-10403	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10404 Johnson Farms #1	Effluent volume to MU-10404	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10405 Johnson Farms #2	Effluent volume to MU-10405	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10406 North Hale	Effluent volume to MU-10406	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10407 Central Hale #1	Effluent volume to MU-10407	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10408 Central Hale #2	Effluent volume to MU-10408	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10409 South Hale	Effluent volume to MU-10409	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)

<b>Monitoring point serial number and description</b>	<b>Sample description</b>	<b>Sample type and Frequency include in annual report</b>	<b>Measured Parameter</b>
MU-10410 Rupp/Jensen	Effluent volume to MU-10410	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
MU-10411 Central Hale Little	Effluent volume to MU-10411	Record daily meter reading when irrigating	Daily effluent volume (MG per month, and depth reported as inches per acre)
<b>Irrigation Water Flow Monitoring</b>			
MU-10401 Swanson Ranch	Irrigation water volume to MU-10401	Record daily meter reading when irrigating	- Supplemental Irrigation Water Daily volume (MG per month, and depth reported as inches per acre)
MU-10402 Bannock Paving / Carlson (BAPCO)	Irrigation water volume to MU-10402	Record daily meter reading when irrigating	- Supplemental Irrigation Water Daily volume (MG per month, and depth reported as inches per acre)
MU-10403 Spanbauer Ranch	Irrigation water volume to MU-10403	Record daily meter reading when irrigating	- Supplemental Irrigation Water Daily volume (MG per month, and depth reported as inches per acre)
MU-10404 Well #8	Irrigation water volume to LG-10405 Surge Pond	Record daily meter reading or volume when well is operating	- Supplemental Irrigation Water Daily volume (MG per month reported annually)

## 5.2. Ground Water Monitoring

### 5.2.1. Ground Water Monitoring Point Descriptions

<b>Monitoring point serial number</b>	<b>Common designation</b>	<b>Well type</b>	<b>Gradient location Up / Down</b>	<b>Compliance well? Yes / No</b>
GW-10403	MW-513	Monitoring well	Up	No
GW-10408	MW-509A	Monitoring well	Down	Yes
GW-10409	MW-511A	Monitoring well	Down	Yes
GW-10410	MW-600	Monitoring well	Up	No
GW-10411	MW-610	Monitoring well	Down	Yes
GW-10412	MW-620	Monitoring well	Down	Yes
GW-10413	MW-630	Monitoring well	Up	No
GW-10414	MW-640	Monitoring well	Down	Yes
GW-10415	MW-650	Monitoring well	Down	Yes

**5.2.2. Ground Water Monitoring, Sampling, and Analyses**

Monitoring point serial number	Facility reference number	Sample type/ Frequency	Constituents (units in mg/L unless otherwise specified)
GW-10403 GW-10408 GW-10409 GW-10410 GW-10411 GW-10412 GW-10413 GW-10414 GW-10415	MW-513 MW-509A MW-511A MW-600 MW-610 MW-620 MW-630 MW-640 MW-650	Grab sample of ground water, Three times annually <sup>3</sup>	<ul style="list-style-type: none"> <li>- water table elevation (hundredths of a foot)</li> <li>- water table depth (hundredths of a foot)</li> <li>- aluminum</li> <li>- arsenic</li> <li>- beryllium</li> <li>- boron</li> <li>- cadmium</li> <li>- chromium</li> <li>- copper</li> <li>- cyanide</li> <li>- iron</li> <li>- fluoride</li> <li>- lead</li> <li>- lithium</li> <li>- molybdenum</li> <li>- nickel</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- selenium</li> <li>- sulfate</li> <li>- thallium</li> <li>- zinc</li> <li>- pH (standard units)</li> <li>- electrical conductivity (µmhos/cm)</li> <li>- temperature</li> <li>- gross alpha</li> <li>- gross beta</li> <li>- total and dissolved iron<sup>4</sup></li> <li>- total and dissolved manganese<sup>4</sup></li> <li>- TDS<sup>4</sup></li> </ul>
Domestic wells have not been assigned serial numbers	Domestic wells within ¼ mile of all active treatment acreage <sup>5</sup> (monitored contingent upon owner's permission)	Grab sample/ annually	<ul style="list-style-type: none"> <li>- chloride</li> <li>- nitrate nitrogen</li> <li>- total phosphorus</li> <li>- total dissolved solids</li> <li>- sulfate</li> <li>- total and dissolved iron<sup>4</sup></li> <li>- total and dissolved manganese<sup>4</sup></li> </ul>

<sup>3</sup> The timing of ground water sampling is not specified to allow the Permittee additional flexibility in obtaining samples when water is more likely to be present. Sampling should be scheduled and conducted so as to assess seasonal variability in static water levels, but should be evenly distributed over time to the extent practicable.

<sup>4</sup> 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.

<sup>5</sup> Annual domestic well sampling is strongly 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	Former serial number	Description	Associated MU
SU-10401	SU-010401	Swanson Ranch	MU-10401
SU-10402	SU-010402	Bannock Paving/Carlson (BAPCO)	MU-10402
SU-10403	SU-010403	Spanbauer Ranch	MU-10403
SU-10404	SU-003501	Johnson Farms #1	MU-10404
SU-10405	SU-003505	Johnson Farms #2	MU-10405
SU-10406	SU-003506	North Hale	MU-10406
SU-10407	SU-003508	Central Hale #1	MU-10407
SU-10408	SU-003507	Central Hale #2	MU-10408
SU-10409	SU-003509	South Hale	MU-10409
SU-10410	SU-003510	Rupp/Jensen	MU-10410
SU-10411	SU-003507	Central Hale Little	MU-10411

#### 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-10401 SU-10402 SU-10403 SU-10404 SU-10405 SU-10406 SU-10407 SU-10408 SU-10409 SU-10410 SU-10411	Composite samples	Twice yearly pre- and post - growing season	- electrical conductivity ( $\mu$ mhos/cm in saturated paste extract) - nitrate-nitrogen - ammonium nitrogen - plant available phosphorus - pH (standard units) - potassium - percent organic matter
		Annually post-growing season	- Sodium absorption ratio

Monitoring point serial number	Sample type	Sample frequency	Constituents (units in mg/kg soil unless otherwise specified)
<p>Five (5) locations in each soil monitoring unit (SU) shall be sampled. At each location, samples shall be obtained from three depths: 0 – 12 inches; 12 – 24 inches; and 24 – 36 inches or refusal. The five (5) subsamples obtained from each depth shall be composited by depth to yield three composite samples for each soil monitoring unit; one composite sample for each depth. Sample locations must be spatially representative of the unit; must consider site-specific characteristics such as topography and drainage; and must exclude unusual areas such as erosion channels, dead furrows and fence lines.</p>			

#### 5.4. Plant Tissue Monitoring

Associated Hydraulic Monitoring Units	Sample type	Sample frequency	Reporting parameters
MU-10401 MU-10402 MU-10403 MU-10404 MU-10405 MU-10406 MU-10407 MU-10408 MU-10409 MU-10410 MU-10411	Crop Yield (crop tissue mass removal)	Each harvest	sample collection date harvest date crop type Yield in customary harvested units: ton/ac, and total yield by management unit, reported on a dry basis
MU-10401 MU-10402 MU-10403 MU-10404 MU-10405 MU-10406 MU-10407 MU-10408 MU-10409 MU-10410 MU-10411	Crop tissue analysis (composited sample of harvested portion, each crop per harvest) <i>or</i> crop nutrient concentration values from standard tables <sup>6</sup>	Each harvest	sample collection date crop type harvested portion percent moisture content percent ash  and nitrogen (nitrate, protein) total phosphorus reported by management unit in pounds per acre per year, reported on a dry basis

<sup>6</sup> The Permittee may choose to use values from standard tables for crop nutrient concentration values, so long as the published moisture content can be used from the table.

## 5.5. Lagoon Information

Serial Number	Description	Former Serial Number	Volume (Million Gallons)	Active?
LG-10401	West Holding Pond	LG-010401	1.15	Yes
LG-10402	East Holding Pond	LG-010402	1.15	Yes
LG-10403	Solids Settling Pond	LG-010403	0.2	Yes
LG-10404	Equalization Pond	LG-010404	2.69	Yes
LG-10405	Surge Pond	LG-010405	12	Yes
LG-10406	300 MG Impoundment	LG-010406	300	Yes

## 6. Reporting Requirements

### 6.1. Annual Report Requirements

The Permittee shall submit to DEQ an annual report prepared by a competent environmental professional covering the previous reporting year. The report shall be in the format as prescribed by DEQ.

#### 6.1.1. Due Date

The annual report is due no later than March 31 of each year, which shall cover the previous reporting year.

#### 6.1.2. Required Contents

The Annual Report shall include the following:

- 6.1.2.1. an interpretive discussion of all required monitoring data. The report shall address data quality objectives and facility environmental impacts. The reporting year for this permit is specified in Section 4.5.

- 6.1.2.2. the results of the required monitoring as described in Section 5 of this permit. 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.
- 6.1.2.3. written status of all work described in Section 3 of this permit.
- 6.1.2.4. written summary of all noncompliance events that occurred during the reporting year.
- 6.1.2.5. submittal of the calculations for HMUs specified in the table below:

Monitoring point serial number	Parameter (calculate for each MU annually)	Units
MU-10401 MU-10402 MU-10403 MU-10404	Calculate crop nitrogen, phosphorus, and ash removal	lb/acre & total lbs per HMU
MU-10405 MU-10406 MU-10407	Report nutrient removal (nitrogen and phosphorus) for three prior reporting years	lb/acre-year
MU-10408 MU-10409 MU-10410 MU-10411	Calculate typical (median) nutrient removal (nitrogen and phosphorus)	lb/acre-year
	Calculate GS wastewater loading rate	Million gallons & inches per acre
	Calculate nitrogen loading from WW application	lb/acre-year
	Calculate total phosphorus loading from WW application	lb/acre-year
	Report nitrogen and phosphorus fertilizer application rates	Type and lb/acre-year
	Calculate sum of wastewater N + fertilizer N	WW-N + fertilizer N in lb/acre-year

**6.1.3. Submittal**

One hard copy and one electronic copy of the annual report shall be submitted to the following DEQ Regional Office at this address:

**Engineering Manager  
 Department of Environmental Quality  
 Pocatello Regional Office  
 444 Hospital Way, #300  
 Pocatello, ID 83201  
 Phone: 208-236-6160  
 Fax: 208-236-6168**

## 6.2. Emergency and Non-compliance Reporting

Report noncompliance incidents to the DEQ Regional Office. See Section 6.1.3 for the Regional Office phone number.

In case of emergencies, call the Emergency 24 Hour Number: 1-800-632-8000 as well as the DEQ Regional Office.

See also Section 7, Standard Permit Conditions and IDAPA 58.01.17.500.06 for reporting requirements for facilities.

## 7. Standard Permit Conditions

The following Standard Permit Conditions are included as terms of this permit as required by the Recycled Water Rules, IDAPA 58.01.17.500.

### 500. STANDARD PERMIT CONDITIONS.

*The following conditions shall apply to and be included in all permits. (4-1-88)*

**01. Compliance Required.** *The permittee shall comply with all conditions of the permit. (4-1-88)*

**02. Renewal Responsibilities.** *If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit in accordance with these rules. (4-1-88)*

**03. Operation of Facilities.** *The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with the permit or these rules. (4-1-88)*

**04. Provide Information.** *The permittee shall furnish to the Director within a reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these rules. (4-1-88)*

**05. Entry and Access.** *The permittee shall allow the Director, consistent with Title 39, Chapter 1, Idaho Code, to: (4-1-88)*

**a.** *Enter the permitted facility. (4-1-88)*

**b.** *Inspect any records that must be kept under the conditions of the permit. (4-1-88)*

**c.** *Inspect any facility, equipment, practice, or operation permitted or required by the permit. (4-1-88)*

**d.** *Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility. (4-1-88)*

**06. Reporting.** *The permittee shall report to the Director under the circumstances and in the manner specified in this section: (4-1-88)*

**a.** *In writing at least thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process. When the alteration or addition results in a need for a major modification, such alteration or addition shall not be made prior to Department approval issued in accordance with these rules. (4-7-11)*

*b. In writing thirty (30) days before any anticipated change which would result in noncompliance with any permit condition or these rules. (4-1-88)*

*c. Orally within twenty-four (24) hours from the time the permittee became aware of any noncompliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director. (4-1-88)*

*d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any noncompliance unless extended by the Department. This report shall contain: (4-1-88)*

*i. A description of the noncompliance and its cause; (4-1-88)*

*ii. The period of noncompliance including to the extent possible, times and dates and, if the noncompliance has not been corrected, the anticipated length of time it is expected to continue; and (4-7-11)*

*iii. Steps taken or planned, including timelines, to reduce or eliminate the continuance or reoccurrence of the noncompliance. (4-7-11)*

*e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report. (4-1-88)*

*07. Minimize Impacts. The permittee shall take all necessary actions to eliminate and correct any adverse impact on the public health or the environment resulting from permit noncompliance. (4-1-88)*

*08. Compliance with "Ground Water Quality Rule." Permits issued pursuant to these rules shall require compliance with IDAPA 58.01.11, "Ground Water Quality Rule." (4-7-11)*

## **8. General Permit Conditions**

The following General Permit Conditions are identical to 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.

### **8.1. Operations**

#### **8.1.1. Backflow Prevention**

Reuse facilities with existing or planned cross-connections or interconnections between the recycled water system and any water supply (potable or non-potable), shall have backflow prevention assemblies as required by applicable rule or regulation and approved by DEQ. Such assemblies shall be adequately maintained, and shall be tested annually by a certified backflow assembly tester, and repaired or replaced as necessary to maintain operational status. Records of backflow assembly test results, repairs, and replacements shall be kept at the reuse facility along with other operational records, and shall be discussed in the Annual Report and made available for inspection by DEQ. Other approved means of backflow prevention, such as siphons and air-gap structures that cannot be tested, shall be maintained in operable order.

Backflow prevention may be required on a case-by-case basis, as determined by DEQ, to isolate different classes of recycled water.

### **8.1.2. Restricted to Premises**

Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the U.S. Environmental Protection Agency (IDAPA 58.01.16.600.02).

### **8.1.3. Health Hazards, Nuisances and Odors Prohibited**

Health hazards, nuisances, and odors are prohibited as follows:

- Wastewater must not create a public health hazard or nuisance condition. (IDAPA 58.01.16.600.03)
- No person shall allow, suffer, cause or permit the emission of odorous gases, liquids or solids into the atmosphere in such quantities as to cause air pollution, (IDAPA 58.01.01.776.01)
- Air Pollution. The presence in the outdoor atmosphere of any air pollutant or combination thereof in such quantity of such nature and duration and under such conditions as would be injurious to human health or welfare, to animal or plant life, or to property, or to interfere unreasonably with the enjoyment of life or property. (IDAPA 58.01.01.006.06)

### **8.1.4. Solids Management**

Solids must be managed as follows:

- Solid waste regulated under *IDAPA 58.01.06 - Solid Waste Management Rules and Standards* shall be managed to comply with such rules and, where applicable, this permit.
- Sludge usage regulated under *IDAPA 58.01.16.650 – Wastewater Rules* shall be managed to comply with such rules and, where applicable, this permit.

Note: Biosolids use is regulated by federal law, and may be regulated by local ordinances.

### **8.1.5. Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801)**

Temporary cessation of operations and closure must be addressed as follows:

**01. Temporary Cessation.** *A permittee shall implement any applicable conditions specified in the permit for temporary cessation of operations. When the permit does not specify applicable temporary cessation conditions, the permittee shall notify the Director prior to a temporary cessation of operations at the facility greater than sixty (60) days in duration and any cessation not for regular maintenance or repair. Cessation of operations necessary for regular maintenance or repair of a duration of sixty (60) days or less are not required to notify the Department under this section. All notifications required under this section shall include a proposed temporary cessation plan that will ensure the cessation of operations will not pose a threat to human health or the environment.*

(4-7-11)

**02. Closure.** *A closure plan shall be required when a facility is closed voluntarily and when a permit is revoked or expires. A permittee shall implement any applicable conditions specified in the permit for closure of the facility. Unless otherwise directed by the terms of the permit or by the Director, the permittee shall submit a closure plan to the Director for approval at least ninety (90) days prior to ceasing operations. The closure plan shall ensure that the closed facility will not pose a threat to human health and the environment. Closure plan approval may be conditioned upon a permittee's agreement to complete such site investigations, monitoring, and any necessary remediation activities that may be required.* (4-7-11)

### **8.1.6. Plan of Operation (IDAPA 58.01.17.300.05)**

The Plan of Operation must comply with the following:

**05. Reuse Facility Operation and Maintenance Manual or Plan of Operations.** *A facility's operation and maintenance manual must contain all system components relating to the reuse facility in order to comply with IDAPA 58.01.16 "Wastewater Rules," Section 425. Manuals and manual amendments are subject to the review and approval provision therein. In addition to the content required by IDAPA 58.01.16.425, manuals for reuse facilities shall include, if applicable: operation and management responsibility, permits and standards, general plant description, operation and control of unit operations, land application site maps, wastewater characterization, cropping plan, hydraulic loading rate, constituent loading rates, compliance activities, seepage rate testing, site management plans, monitoring, site operations and maintenance, solids handling and processing, laboratory testing, general maintenance, records and reports, store room and inventory, personnel, an emergency operating plan, and any other information required by the Department.* (4-7-11)

### **8.1.7. 10-Year Lagoon Seepage Testing (IDAPA 58.01.16.493.02)**

Seepage testing must meet the following requirements:

**c. Subsequent Tests.** *All lagoons covered under these rules must be seepage tested by an Idaho licensed professional engineer, an Idaho licensed professional geologist, or by individuals under their supervision every ten (10) years after the initial testing.* (5-8-09)

**e. Procedures for Performing a Seepage Test.** *The procedure for performing a seepage test or alternative analysis must be approved by the Department, and the test results must be submitted to the Department. If an existing lagoon has passed a seepage test before April 15, 2012 and submitted the results to the Department, the owner of that lagoon has ten (10) years from the date of the testing to comply with this requirement.* (5-8-09)

### **8.1.8. Ground Water Quality (IDAPA 58.01.11)**

The Permittee shall comply with the requirements of IDAPA 58.01.11 – Ground Water Quality Rule.

## **8.2. Administrative**

Requirements for administration of the permit are defined as follows.

### **8.2.1. Permit Modification (IDAPA 58.01.17.700)**

**01. Modification of Permits.** *A permit modification may be initiated by the receipt of a request for modification from the permittee, or may be initiated by the Department if one (1) of more of the following causes for modification exist:* (4-7-11)

**a. Alterations.** *There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit.* (4-7-11)

*b. New standards or regulations. The standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued.*

*c. Compliance schedules. The Department determines good cause exists for modification of a compliance schedule or terms and conditions of a permit. (4-7-11)*

*d. Non-limited pollutants. When the level of discharge of any pollutant which is not limited in the permit exceeds the level which may cause an adverse impact to surface or ground waters. (4-7-11)*

*e. To correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions. (4-7-11)*

*f. When a treatment technology proposed, installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit. (4-7-11)*

**02. Minor Modifications.** *Minor modifications are those which if granted would not result in any increased hazard to the environment or to the public health. If a permit modification satisfies the criteria for "minor modifications," the permit may be modified without issuance of a draft permit or public review. Minor modifications are normally limited to: (4-7-11)*

*a. The correction of typographical errors or formatting changes; (4-7-11)*

*b. Transfer of ownership or operational control, or responsible official; (4-7-11)*

*c. A change in monitoring or reporting frequency requirements, or revision of a laboratory method; (4-7-11)*

*d. Change compliance due date in a schedule of compliance, provided the new date does not exceed six (6) months; (4-7-11)*

*e. Change or add a sampling location; (4-7-11)*

*f. Change to a higher level of treatment without a change in end uses; (4-7-11)*

*g. Change in terminology; (4-7-11)*

*h. Removal of an allowed use; (4-7-11)*

*i. Correct minor technical errors, such as citations of law, and citations of construction specifications; (4-7-11)*

*j. Change in a contingency plan resulting in equal or more efficient responsiveness; or (4-7-11)*

*k. Removal of acreage from irrigation without an increase in loadings. (4-7-11)*

**03. Major Modifications.** *All modifications not considered minor shall be considered major modifications. The procedure for making major modifications shall be the same as that used for a new permit under these rules. Some examples of the major modifications are: (4-7-11)*

*a. Changes in the treatment system; (4-7-11)*

*b. Adding an allowed use; (4-7-11)*

*c. Changes to a lower (less treated) class of water; (4-7-11)*

*d. Addition of acreage used for irrigation; or (4-7-11)*

*e. Changes to less stringent discharge limitations. (4-7-11)*

## 8.2.2. Permit Transfer (IDAPA 58.01.17.800)

**01. General.** A permit may be transferred only upon approval of the Department. No transfer is required for a corporate name change as long as the secretary of state can verify that a change in name alone has occurred. An attempted transfer is not effective for any purpose until approved in writing by the Department.

(4-7-11)

**02. Request for Transfer.** Either the permit holder (permittee) or the person to whom the permit is proposed to be transfer (transferee) shall submit to the department a request for transfer at least thirty (30) days before the proposed transfer date. The request for transfer shall include:

(4-7-11)

**a.** Legal name and address of the permittee; (4-7-11)

**b.** Legal name and address of the transferee; (4-7-11)

**c.** Location and the common name of the facility; (4-7-11)

**d.** Date of proposed transfer; (4-7-11)

**e.** Sufficient documentation for the Department to determine that the transferee will meet the requirements listed in IDAPA 58.01.16 "Wastewater Rules," Section 409, relating to technical, financial and managerial capacity; (4-7-11)

**f.** A signed declaration by the transferee that the transferee has reviewed the permit and understands the terms of the permit; (4-7-11)

**g.** A sworn statement that the request is made with the full knowledge and consent of the permittee if the transferee is submitting the request; (4-7-11)

**h.** Identification of any judicial decree, compliance agreement, enforcement order, or other outstanding obligating instrument, the terms of which have not been met, along with legal instruments sufficient to address liabilities under such decree, agreement, order, or other obligating instrument; and (4-7-11)

**i.** Any other information the director may reasonably require. (4-7-11)

**03. Effective Date of Transfer.** Responsibility for compliance with the terms and conditions of the permit and liability for any violation associated therewith is assumed by the transferee, effective on the date indicated in the approved transfer. (4-7-11)

**04. Compliance with Permit Conditions Pending Transfer Approval.** Prior to a transfer approval, the permittee shall continue to be responsible for compliance with the terms and conditions of the permit and be liable for any violation associated therewith, regardless of whether ownership or operational control of the permitted facility has been transferred. (4-7-11)

**05. Transferee Liability Prior to Transfer Approval.** If a proposed transferee causes or allows operation of the facility under his ownership or control before approval of the permit transfer, such transferee shall be considered to be operating without a permit or authorization required by these rules and may be cited for additional violations as applicable. (4-7-11)

**06. Compliance Record of Transferee.** The director may consider the prior compliance record of the transferee, if any, in the decision to approve or disapprove a transfer. (4-7-11)

### **8.2.3. Permit Revocation (IDAPA 58.01.17.920)**

**01. Conditions for Revocation.** *The Director may revoke a permit if the permittee violates any permit condition or these rules, or the Director becomes aware of any omission or misrepresentation of condition or information relied upon when issuing the permit. (4-7-11)*

**02. Notice of Revocation.** *Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee requests an administrative hearing in writing. The hearing shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure Before the Board of Environmental Quality.” (5-3-03)*

**03. Emergency Action.** *If the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Director shall provide the permittee a revocation hearing and prior notice thereof. Such hearings shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure Before the Board of Environmental Quality.” (3-15-02)*

**04. Revocation and Closure.** *A permittee shall perform the closure requirements in a permit, the closure requirements of these rules, and complete all closure plan activities notwithstanding the revocation of the permit. (4-7-11)*

### **8.2.4. Violations (IDAPA 58.01.17.930)**

*Any person violating any provision of these rules or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor. (4-1-88)*

### **8.2.5. Severability**

The provisions of this permit are severable, and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

## **9. Other Applicable Laws**

The Department may refer enforcement of the following provisions to the state agency authorized to enforce that rule. The Permittee shall comply with all applicable provisions identified in this section, as well as all other applicable federal, state, and local laws, statutes and rules.

### **9.1. Owners Responsibilities for Well Use and Maintenance**

#### **9.1.1. Well Use**

The well owner must not operate any well in a manner that causes waste or contamination of the ground water resource. Failure to operate, maintain, knowingly allow the construction of any well in a manner that violates these rules, or failure to repair or properly decommission (abandon) any well as herein required will subject the well owner to civil penalties as provided by statute. See IDAPA 37.03.09.036.01 and consult the Idaho Department of Water Resources (IDWR) for more information.

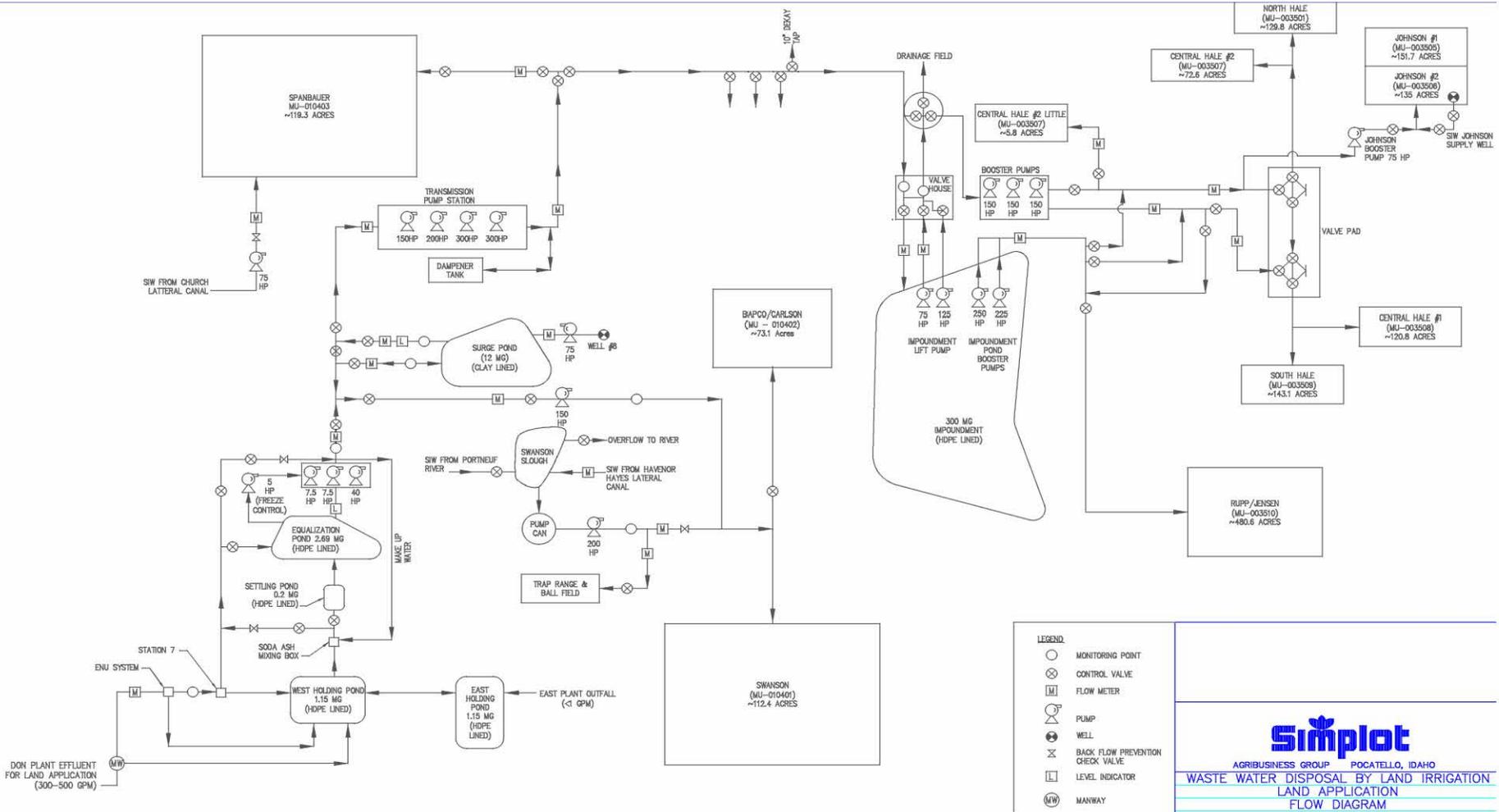
### **9.1.2. Well Maintenance**

The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a non-compliant well must have the well repaired by a licensed well driller under a permit issued by the Director of the IDWR in accordance with the applicable rules. See IDAPA 37.03.09.036.02 and consult the IDWR for more information.

### **9.1.3. Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource**

The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the Director of the IDWR in accordance with the applicable rules. See IDAPA 37.03.09.036.06 and consult the IDWR for more information.

## **10. Site Maps**



**LEGEND**

- MONITORING POINT
- ⊗ CONTROL VALVE
- Ⓜ FLOW METER
- ⊙ PUMP
- ⊕ WELL
- ⊗ BACK FLOW PREVENTION CHECK VALVE
- Ⓛ LEVEL INDICATOR
- Ⓜ MANWAY

**Simplot**  
AGRI-BUSINESS GROUP POCATELLO, IDAHO

**WASTE WATER DISPOSAL BY LAND IRRIGATION  
LAND APPLICATION  
FLOW DIAGRAM**

NO.	DESCRIPTION	NO.	REVISED BY	DATE	NO.	REVISED BY	DATE	DESCRIPTION	DRAWN BY: B. SALMERS	7/9/2007
REF-001	LAND APPLICATION #10	7/9	J. BRIMMETT	7/9/07				ISSUED FOR CHECK	DESIGNED BY:	
		8/15	K. RAY	8-15-11				UPDATE	CHECKED BY:	
									APPROV. BY:	

GAD DWG # 9160128F

**JRS-8160-F-128**

SCALE: NOTEC

REVISION:

