

A. Permit Certificate

**INDUSTRIAL
WASTEWATER REUSE PERMIT
LA-000008-04**

J.R. Simplot Company – Caldwell Facility

**J.R. Simplot Company, LOCATED AT 17379 Simplot Boulevard,
Caldwell, ID 83605, IS HEREBY AUTHORIZED TO CONSTRUCT,
INSTALL, AND OPERATE A WASTEWATER REUSE SYSTEM IN
ACCORDANCE WITH THE RECYCLED WATER RULES (IDAPA
58.01.17), THE 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 August 1, 2016.**



Pete Wagner
Boise Regional Office Administrator
Idaho Department of Environmental Quality

8/1/2011
Date

**DEPARTMENT OF ENVIRONMENTAL QUALITY
1445 North Orchard
Boise, Idaho 83706-2239
(208) 373-0550**

POSTING ON SITE RECOMMENDED

B. Permit Contents, Appendices, and Reference Documents

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References

1. Waste Solids Management Plan, Buffer Zone Plan, and Odor Control Plan as last updated or revised per CA-008-01.
2. Sampling and Analysis Plan per CA-008-02.

The Sections, References and Appendices are elements of Wastewater Reuse Permit LA-000008-04 and are enforceable as such. This permit does not relieve J.R. Simplot Company, 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

Ac-in	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).
BMP or BMPs	Best Management Practice(s)
COD	Chemical Oxygen Demand
DEQ or the Department	Idaho Department of Environmental Quality
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
ET	Evapotranspiration – Loss of water from the soil and vegetation by evaporation and by plant uptake (transpiration)
GS	Growing Season – Typically April 01 through October 31 (214 days), unless otherwise specified
GW	Ground Water
GWQR	IDAPA 58.01.11 “Ground Water Quality Rule”
Guidance	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater
HLRgs	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 HLRgs limit is specified in Section F. Permit Limits and Conditions.
HLRngs	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 HLRngs limit is specified in Section F. Permit Limits and Conditions.
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IWR	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.
IDAPA	Idaho Administrative Procedures Act.
LG	Lagoon
lb/ac-day	Pounds (of constituent) per acre per day
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per Reporting Year)
NGS	Non-Growing Season – Typically November 01 through March 31 (151 days), unless otherwise specified
NTU	Nephelometric Turbidity Unit. A measure of turbidity based on a comparison of the intensity of light scattered by the sample under defined conditions with the intensity of the light scattered by a standard reference suspension under the same conditions.
NVDS	Non-Volatile Dissolved Solids (= Total Dissolved Solids less Volatile Dissolved Solids)
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation
QAPP	Quality Assurance Program Plan
SAR	Sodium Absorption Ratio

C. Abbreviations, Definitions

SI	Supplemental Irrigation
Soil AWC	Soil Available Water Holding Capacity – the water storage capability of the soil down to a depth at which plant roots can utilize the stored moisture (typically 60 inches or root limiting layer)
SMU	Soil Monitoring Unit (Serial Number designation is SU)
SW	Surface Water
TDS	Total Dissolved Solids also referred to as Total Filterable Residue
TDIS	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 shall be included if present in significant quantities (i.e. > 5 mg/L each).
TMDL	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>
Total Nitrogen	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.
Typical Crop Uptake	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.
USGS	United States Geological Survey
Reporting Year	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31.
WW	Wastewater

D. Facility Information

Legal Name of Permittee	J.R. Simplot Company
Type of Wastewater	Industrial
Method of Treatment	Silt water – Delta Stak™ clarifier, slow rate land application Process Water – Dissolved air flotation, primary clarifier, anaerobic digester, slow rate land application
Type of Facility	Private
Facility Location	Approximately 2 miles west of Caldwell on Simplot Boulevard (U.S. 19)
Legal Location	Township 4N, Range 3W, part of Sections 7, 17-20, and 29-31 Township 4N, Range 4W, part of Sections 12-14, 23, and 24
County	Canyon
USGS Quad	Caldwell
Depth to Ground Water	5 to 10 feet
Beneficial Uses of Ground Water	Agricultural, industrial, domestic and aquaculture water supply
Nearest Surface Water(s)	Boise River (200 feet northwest) Onsite canals and ditches: Roedel Ditch, Riverside Canal, and South Drain
Beneficial Uses of Surface Water	Agricultural irrigation, Cold water biota, Primary contact recreation
Facility Contact Mailing Address Telephone / Fax Email	Mr. Lance Carter, Environmental Manager J.R. Simplot Company P.O. Box 1059 Caldwell, ID 83606 (208) 454-4360 / (208) 452-2650 Lance.Carter@simplot.com
Facility Consultant Mailing Address Telephone / Fax Email	Dr. Michael Murray, Vice President HDR Engineering, Inc. 412 E. Parkcenter Blvd, Suite 100 Boise, ID 83706 (208) 387-7000 / (208) 387-7100 mike.murray@hdrinc.com

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.

Compliance Activity Number Completion Date	Compliance Activity Description
<p style="text-align: center;">CA-008-01</p> <p style="text-align: center;">Site Management Plans</p> <p style="text-align: center;">As specified</p>	<p>The facility shall update the Waste Solids Management Plan, Buffer Zone Plan, Odor Control Plan, and the Plan of Operations as appropriate. The updated plans shall be submitted to DEQ for review and approval within twelve (12) months of permit issuance.</p> <p>A Crop Management Plan for the coming year shall be submitted by March 31 of each year for DEQ review and comment. The plan shall include the crops to be grown on each HMU, and shall include a Nitrogen Management Plan for maintaining compliance with the total nitrogen limits in Section F of this permit. The plan shall address crop needs and anticipated yields, and shall take into consideration soil nitrogen concentrations. Include a discussion of what improvements have been implemented during the previous year to improve the farming practices and management of the land application site, and management improvements planned for the coming year. Include a discussion of the effectiveness of previous year's plan.</p> <p>The Crop Management Plan, Nitrogen Management Plan and Plan of Operations are required to be submitted for DEQ review and approval. Once approved, they shall be implemented by the permittee, but shall not be enforceable as part of the permit.</p>
<p style="text-align: center;">CA-008-02</p> <p style="text-align: center;">Sampling and Analysis Plan</p> <p style="text-align: center;">Twelve (12) Months after permit issuance</p>	<p>The facility shall update the Sampling and Analysis Plan to include a 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.</p>
<p style="text-align: center;">CA-008-03</p> <p style="text-align: center;">Phosphorus Reduction and Mitigation Plan</p> <p style="text-align: center;">As specified</p>	<p>Within three (3) months of permit issuance, the permittee shall submit for DEQ review and approval a Work Plan to monitor and assess the onsite drains and quantify their phosphorus load contribution to the Boise River. The plan shall include a sampling plan and a schedule for implementation of the proposed activities.</p> <p>Within six (6) months of completion of the monitoring phase, the permittee shall submit for DEQ review and approval a Phosphorus Reduction and Mitigation Plan describing all site activities undertaken to meet their fifty percent (50%) reduction goal, interpreting the results of the drain monitoring, and determining the need for and proposing additional mitigation efforts, if warranted. The plan shall include a schedule of implementation for the selected mitigation plan(s) and the project shall be completed in accordance with the approved schedule.</p>
<p style="text-align: center;">CA-008-04</p> <p style="text-align: center;">Corner Utilization Plan</p> <p style="text-align: center;">Six (6) Months prior to reuse irrigation on corners</p>	<p>The permittee shall submit for DEQ review and approval a plan for usage of corner areas for application of reuse water. The plan shall include description of the irrigation system(s) to be installed, typical water application rates, deficiencies, a schedule for installation, runoff control, and any other information necessary for site management. Corners shall not be irrigated until the plan is approved.</p>

E. Compliance Schedule for Required Activities

Compliance Activity Number Completion Date	Compliance Activity Description
<p style="text-align: center;">CA-008-05</p> <p style="text-align: center;">Land and Livestock Fields Management Plan</p> <p>Six (6) Months prior to reuse irrigation on Land and Livestock fields</p>	<p>The permittee shall evaluate the suitability of the Land and Livestock fields (also known as the former feedlot) for application of reuse water and submit a plan for DEQ review and approval prior to conversion of any portion of the acreage. A separate plan is required for each area converted. The plan shall include a description of the irrigation type to be installed as well as soil characterization showing that permitted application rates will not detrimentally affect surrounding land and water uses. Upon approval of the plan, the approved area will be added to the permitted site and given unique serial numbers.</p>
<p style="text-align: center;">CA-008-06</p> <p style="text-align: center;">Linear Irrigation System Conversion</p> <p>Prior to conversion to linear irrigation system</p>	<p>Prior to conversion of any existing field or HMU to linear irrigation system(s), the permittee shall submit for DEQ review and approval a Preliminary Engineering Report (PER) prior to submission of plans and specifications. The PER shall include discussion of the following: the existing system; design criteria for each HMU to be converted, including sizing calculations; process piping; required buffer zones; and operation and maintenance provisions, including troubleshooting and inspection frequency. No construction shall take place prior to DEQ approval of the plans and specifications.</p>

F. Permit Limits and Conditions

Category	Permit Limits and Conditions																																																												
Type of Wastewater	Industrial potato processing wastewater – Silt wastewater from initial rinse of potatoes, Process wastewater from processing of potato products																																																												
Application Site Area	2512.6 acres (including corners and former feedlot areas, see CA-008-04 and CA-008-05)																																																												
Growing Season	April 1 through October 31 (214 days)																																																												
Non-growing Season	November 1 through March 31 (151 days)																																																												
Reporting Year	November 1 through October 31																																																												
HLR _{GS} , each HMU	Growing Season (GS) Hydraulic Loading Rate shall be substantially equal to the Irrigation Water Requirement (IWR) throughout the growing season in accordance with the crop grown. Precipitation deficit (P _{def}) values can be found at the ET _{Idaho} website (http://www.kimberly.uidaho.edu/ETIdaho/) using station #101380 (Caldwell).																																																												
HLR _{NGS} , each HMU (*Not including former feedlot acreage)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">HMU</th> <th style="text-align: center;">Current Acres</th> <th style="text-align: center;">Maximum Acres (including corners)</th> <th style="text-align: center;">In/acre</th> </tr> </thead> <tbody> <tr><td>MU-000809</td><td style="text-align: center;">143.8</td><td style="text-align: center;">157.7</td><td style="text-align: center;">5.44</td></tr> <tr><td>MU-000810</td><td style="text-align: center;">134.5</td><td style="text-align: center;">144.9</td><td style="text-align: center;">6.24</td></tr> <tr><td>MU-000811</td><td style="text-align: center;">113.4</td><td style="text-align: center;">133.3</td><td style="text-align: center;">6.04</td></tr> <tr><td>MU-000815</td><td style="text-align: center;">174.6</td><td style="text-align: center;">190.5</td><td style="text-align: center;">7.14</td></tr> <tr><td>MU-000816</td><td style="text-align: center;">148.4</td><td style="text-align: center;">165.9</td><td style="text-align: center;">5.24</td></tr> <tr><td>MU-000817</td><td style="text-align: center;">193.0</td><td style="text-align: center;">214.7</td><td style="text-align: center;">5.64</td></tr> <tr><td>MU-000819</td><td style="text-align: center;">151.7</td><td style="text-align: center;">176.1</td><td style="text-align: center;">8.04</td></tr> <tr><td>MU-000820</td><td style="text-align: center;">134.1</td><td style="text-align: center;">149.1</td><td style="text-align: center;">8.04</td></tr> <tr><td>MU-000821</td><td style="text-align: center;">140.8</td><td style="text-align: center;">168.5</td><td style="text-align: center;">7.04</td></tr> <tr><td>MU-000822</td><td style="text-align: center;">125.7</td><td style="text-align: center;">145.0</td><td style="text-align: center;">8.04</td></tr> <tr><td>MU-000823</td><td style="text-align: center;">77.4</td><td style="text-align: center;">88.5</td><td style="text-align: center;">7.94</td></tr> <tr><td>MU-000824</td><td style="text-align: center;">131.4</td><td style="text-align: center;">131.4</td><td style="text-align: center;">7.44</td></tr> <tr><td>MU-000825</td><td style="text-align: center;">238.0</td><td style="text-align: center;">278.3</td><td style="text-align: center;">5.64</td></tr> <tr> <td>Total</td> <td style="text-align: center;">1906.8</td> <td style="text-align: center;">2143.9*</td> <td></td> </tr> </tbody> </table>	HMU	Current Acres	Maximum Acres (including corners)	In/acre	MU-000809	143.8	157.7	5.44	MU-000810	134.5	144.9	6.24	MU-000811	113.4	133.3	6.04	MU-000815	174.6	190.5	7.14	MU-000816	148.4	165.9	5.24	MU-000817	193.0	214.7	5.64	MU-000819	151.7	176.1	8.04	MU-000820	134.1	149.1	8.04	MU-000821	140.8	168.5	7.04	MU-000822	125.7	145.0	8.04	MU-000823	77.4	88.5	7.94	MU-000824	131.4	131.4	7.44	MU-000825	238.0	278.3	5.64	Total	1906.8	2143.9*	
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Ground Water Quality	Wastewater land application activities conducted by the permit shall not cause a violation of the <i>Ground Water Quality Rule</i> , IDAPA 58.01.11 (GWQR). For areas where ground water degradation has occurred due to reuse activities, subsections 400.03 and 400.05 of the GWQR shall apply.																																																												
Nitrogen Loading Rate, lbs/acre, each HMU (from all sources)	150% of Typical Crop Uptake (refer to definition in Section C of permit)																																																												
Phosphorus Loading Rate, lbs/acre, each HMU (from all sources)	No limit will be imposed unless the reuse site has not met targeted phosphorus load reductions in the TMDL, as described in Compliance Activity CA-008-03.																																																												

F. Permit Limits and Conditions

Category	Permit Limits and Conditions
COD Loading Limit, Seasonal Average each HMU (GS / NGS, lbs/ac-day)	50 / 50
Buffer Zones	<p>All buffer zones must comply with local zoning ordinances. Other minimum buffer zones are as follows:</p> <ul style="list-style-type: none"> • 300 ft from reuse site to inhabited dwellings • 50 ft from reuse site to areas of public access • 100 ft from reuse site to permanent and intermittent surface water • 50 feet from reuse site to irrigation ditches and canals <p>Or as approved in the Buffer Zone Plan required in Compliance Activity CA-008-01.</p>
Fencing and Posting	No fencing required. Signs reading “Irrigated with Reclaimed Wastewater – Do Not Drink” or equivalent at each gate.
Allowable Crops	Crops grown for direct human consumption (those that are not processed prior to consumption) are not allowed. Crops should be managed in accordance with the Crop Management Plan, as specified in CA-008-01.
Construction Plans	Prior to construction or modification of all wastewater facilities associated with the land application 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 approval.
Runoff Control	Runoff controls for the site shall be designed to retain the equivalent of a 25-year, 24-hour or greater storm event using Western Regional Climate Center (WRCC) Precipitation Frequency Map, Figure 28 “Isopluvials of 25-YR, 24-HR Precipitation.” For this site, the 25-year, 24-hour event is 1.8 inches.
Supplemental Irrigation Water Supply Protection	Wastewater and supplemental irrigation water interconnections shall be equipped with DEQ-approved backflow prevention devices for the protection of supplemental irrigation water sources.
Grazing Management	Grazing is not allowed without an approved Grazing Management Plan.
Odor Management	The wastewater treatment plant, reuse sites, and other operations associated with the facility shall not create a public health hazard or nuisance conditions, including odors, in accordance with the approved Odor Control Plan, as updated by CA-008-01.

G. Monitoring Requirements

The Permittee is allowed to apply wastewater 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 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 QAPP, which shall be part of the Sampling and Analysis Plan, as required by Compliance Activity CA-008-02.
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. Wastewater monitoring is required at the frequency shown in the table below if wastewater is applied anytime during the time period shown.
5. Ground Water Monitoring Procedure: Ground water monitoring wells shall be purged a minimum of three casing volumes and/or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. The static water level shall be measured prior to pumping or sampling for ground water.
6. A minimum of twenty (20) soil sample locations shall be selected for each soil monitoring unit. 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 from each unit.
7. Wastewater Monitoring Procedure: Wastewater shall be sampled at the representative discharge points of the irrigation system. Wastewater composite samples shall consist of a minimum of one aliquot every six (6) hours over a 24-hour period. No aliquot shall be collected during times when wastewater is not being applied.
8. Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.
9. 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	WW-000801, WW-000806	Flow of wastewater to land application site	Volume (MG and ac-in/acre) to each HMU, record daily, compile monthly
Daily, when in use	Flow meter(s)	Flow of supplemental irrigation water to land application site	Volume (gallons/acre and acre-inches/acre) to each HMU, record daily, compile monthly
Monthly, when irrigating	WW-000801, WW-000806	Composite samples of each wastewater (See Note 7 above)	Nitrate + Nitrite-Nitrogen, TKN, Total phosphorus, COD, NVDS
Semi-Annually (Twice per year in April and October)	WW-000801, WW-000806	Composite samples of each wastewater (See Note 7 above)	TDIS (see Section C)
Monthly, when in use	SI-000801, SI-000802	Grab sample of supplemental irrigation water	Nitrate + Nitrite-Nitrogen, TKN, Total phosphorus, COD, TDS
Semi-Annually (Twice per year in April and October)	Monitoring wells listed in Appendix 1	See Note 5 above	Depth to ground water, Ground water elevation, Nitrate-N, Total phosphorus, TDS, pH, Conductivity, Temperature, Dissolved Iron, Dissolved Manganese
Semi-Annually (Twice per year in February and October)	All SMUs	Soil samples as described in Note 6 above	Electrical conductivity, Nitrate-N, Ammonium-N, Plant-available phosphorus (use Olsen Method if soil pH \geq 6.5, use Bray Method if soil pH < 6.5)
February and October (first and last years of permit only)	All SMUs	Soil samples as described in Note 6 above	Percent organic matter, SAR, pH
Annually (each harvest)	All HMUs	Plant tissue sampling	Total nitrogen, Total phosphorus, Ash, Moisture content

G. Monitoring Requirements

Frequency	Monitoring Point	Description/Type of Monitoring	Parameters
Annually (in Annual Report)	All HMUs	Loading calculations	Total nitrogen (lbs/acre) Phosphorus (lbs/acre) TDIS (lbs/acre) COD (lbs/acre-day, by season) Wastewater applied (MG and acre-inches/acre, by season) Supplemental irrigation water applied (MG and acre-inches/acre, GS only)
		Crop Information	Crop type Acres planted Number of cuttings Crop yield (tons/acre) Irrigation volume (compare to IWR)
		Crop Nutrient Uptake calculations from plant tissue analysis	Nitrogen and Phosphorus uptake in pounds/acre
		Fertilizer Nutrient Loading	Nitrogen and Phosphorus application from applied fertilizer in pounds/acre
	Onsite Drains	(See CA-008-03)	Phosphorus (mg/L and lbs/day)
	All flow measurement locations	Flow measurement calibration of all flows to land application	Document the flow measurement calibration check of all flow meters and pumps used directly or indirectly to measure all wastewater flows applied to each HMU
	All WW/SI interconnections	Test backflow prevention device(s) using certified tester	Document the testing of all backflow prevention devices for supplemental irrigation water sources directly connected to the wastewater distribution system(s). Report the testing date(s) and results of the test (pass or fail). If any test failed, report date(s) of repair or replacement of faulty device.

H. Standard Reporting Requirements

1. The Permittee shall submit an Annual Wastewater Reuse 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, wastewater 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:

Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
208-373-0550
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 Wastewater Reuse Permit Regulations, 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 wastewater treatment system. This Plan of Operations should be updated as necessary to reflect current operations.
2. 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.
3. Wastewater 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 wastewater as evenly as practicable to the treatment area;
 - b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
 - c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.
4. The permittee shall:
 - a. Manage the wastewater reuse 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 wastewater reuse 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 *Recycled Water Rules* and include the most recent seepage test results for all wastewater treatment and storage lagoons per latest DEQ procedures.
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 58.01.17.700.01 and 02 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 Wastewater Reuse Permit Regulations, 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.

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Appendix 1
Environmental Monitoring Serial Numbers

Hydraulic Management Units

Serial Number	Description	Maximum Acres (including corners)
MU-000809	Fields 10, B3, B5, B7 and B10	157.7
MU-000810	Fields 12, 13, and 15	144.9
MU-000811	Fields 11, 14, 16, and 18	133.3
MU-000815	Fields 41, 42, 43A, 43B, 47A and 47B	190.5
MU-000816	Fields 5, 6, 8, 9, 49, and 50	165.9
MU-000817	Fields 22, 24, 25, 27A, 27B, 28, 29, and 30	214.7
MU-000819	Fields 62, 63, 64, 67, and 68	176.1
MU-000820	Fields 61, 65, 70A, and 70B	149.1
MU-000821	Fields 53A, 53B, 59, 60, and 66	168.5
MU-000822	Fields 55A, 55B, 57, and 58	145.0
MU-000823	Fields 71, 72E, and 73	88.5
MU-000824	Field 74	131.4
MU-000825	Fields B12, B13, C1, 79, 80, 81, and 82	278.3

Note: Former Land and Livestock fields (368.7 acres) may be brought online in smaller parcels, depending on CA-008-05.

Wastewater Sampling Points

Serial Number	Description / Location
WW-000801	Process wastewater / LG-000803 outlet
WW-000806	Silt wastewater / LG-000802 outlet

Supplemental Irrigation Water Sampling Points

Serial Number	Description
SI-000801	Dixie Drain
SI-000802	Pioneer Irrigation District

Ground Water Monitoring Points

Serial Number	Description / Location	Gradient
GW-000801	MW-1 / NW corner of MU-000809	Down
GW-000802	MW-2 / W edge of MU-000809	Down

Appendix 1
Environmental Monitoring Serial Numbers

Serial Number	Description / Location	Gradient
GW-000803	MW-3 / between Fields C1 and B13 in MU-000825	Mid
GW-000804	MW-4 / between MU-000816 and MU-000825	Mid
GW-000805	MW-5 / between MU-000816 and MU-000809	Mid
GW-000806	MW-6 / between MU-000809 and MU-000811	Down
GW-000809	MW-9 / SW edge of MU-000815	Mid
GW-000811	MW-11 / E edge of field 22 in MU-000817	Mid
GW-000812	MW-12 / E edge of MU-000817	Up
GW-000813	MW-13 / between MU-000819 and MU-000817	Mid
GW-000814	MW-14 / E edge of MU-000810 near Boise River	Up
GW-000815	MW-15 / N edge of MU-000810 near Eureka Canal	Mid
GW-000816	MW-16 / between MU-000816 and MU-000811	Mid
GW-000817	MW-17 / NW corner of MU-000810 near Eureka Canal	Down
GW-000818	MW-18 / NW corner of MU-000811	Down
GW-000819	MW-19 / N edge of MU-000815	Mid
GW-000820	MW-20 / E of Process Water Storage Pond near Boise River	Mid
GW-000823	MW-23 / between fields 14 and 16 in MU-000811	Mid
GW-000824	MW-24 / N edge of MU-000819	Mid
GW-000827	MW-27 / E edge of MU-000821	Up
GW-000830	MW-30 / Off-site on Red Top Road ~2000 ft NW of MW-1	Down
GW-000831	MW-31 / Off-site ~4000 ft W of MW-17 & ~2700 ft N of MW-1	Down
GW-000832	MW-32 / between fields 79 and C1 in MU-000825	Mid
GW-000833	MW-21 / E edge of Field 13 in MU-000810	Mid
GW-000838	S1 / SW corner of HMU-000820	Up
GW-000839	S2 / between HMU-000820 and HMU-000823	Mid
GW-000840	S3 / between fields 74 and 75 on N edge of HMU-000824	Mid
GW-000841	S4 / W edge of HMU-000824	Down
GW-000842	S5 / E of LG-000802 at Plant	Mid
GW-000845	MW-35 / N of field 64 between Plant and HMU-000819	Mid
GW-000846	MW-36 / S edge of HMU-000821	Up
GW-000847	MW-37 / E edge of HMU-000822	Up
GW-000848	MW-38 / NW corner of Field 79 in HMU-000825	Down

Appendix 1
Environmental Monitoring Serial Numbers

Serial Number	Description / Location	Gradient
GW-000849	MW-39 / W edge of HMU-000825	Down
GW-000850	MW-40 / S edge of HMU-000825	Up

Soil Monitoring Units

Serial Number	Description	Associated HMU
SU-000809	Fields 10, B3, B5, B7 and B10	MU-000809
SU-000810	Fields 12, 13, and 15	MU-000810
SU-000811	Fields 11, 14, 16, and 18	MU-000811
SU-000815	Fields 41, 42, 43A, 43B, 47A and 47B	MU-000815
SU-000816	Fields 5, 6, 8, 9, 49, and 50	MU-000816
SU-000817	Fields 22, 24, 25, 27A, 27B, 28, 29, and 30	MU-000817
SU-000819	Fields 62, 63, 64, 67, and 68	MU-000819
SU-000820	Fields 61, 65, 70A, and 70B	MU-000820
SU-000821	Fields 53A, 53B, 59, 60, and 66	MU-000821
SU-000822	Fields 55A, 55B, 57, and 58	MU-000822
SU-000823	Fields 71, 72E, and 73	MU-000823
SU-000824	Field 74	MU-000824
SU-000825	Fields B12, B13, C1, 79, 80, 81, and 82	MU-000825

Note: Soil monitoring serial numbers for Former Land and Livestock fields will be assigned based on results of CA-008-05.

Lagoons

Serial Number	Description
LG-000802	Silt wastewater storage lagoon
LA-000803	Process wastewater storage lagoon

Appendix 2 Site Maps

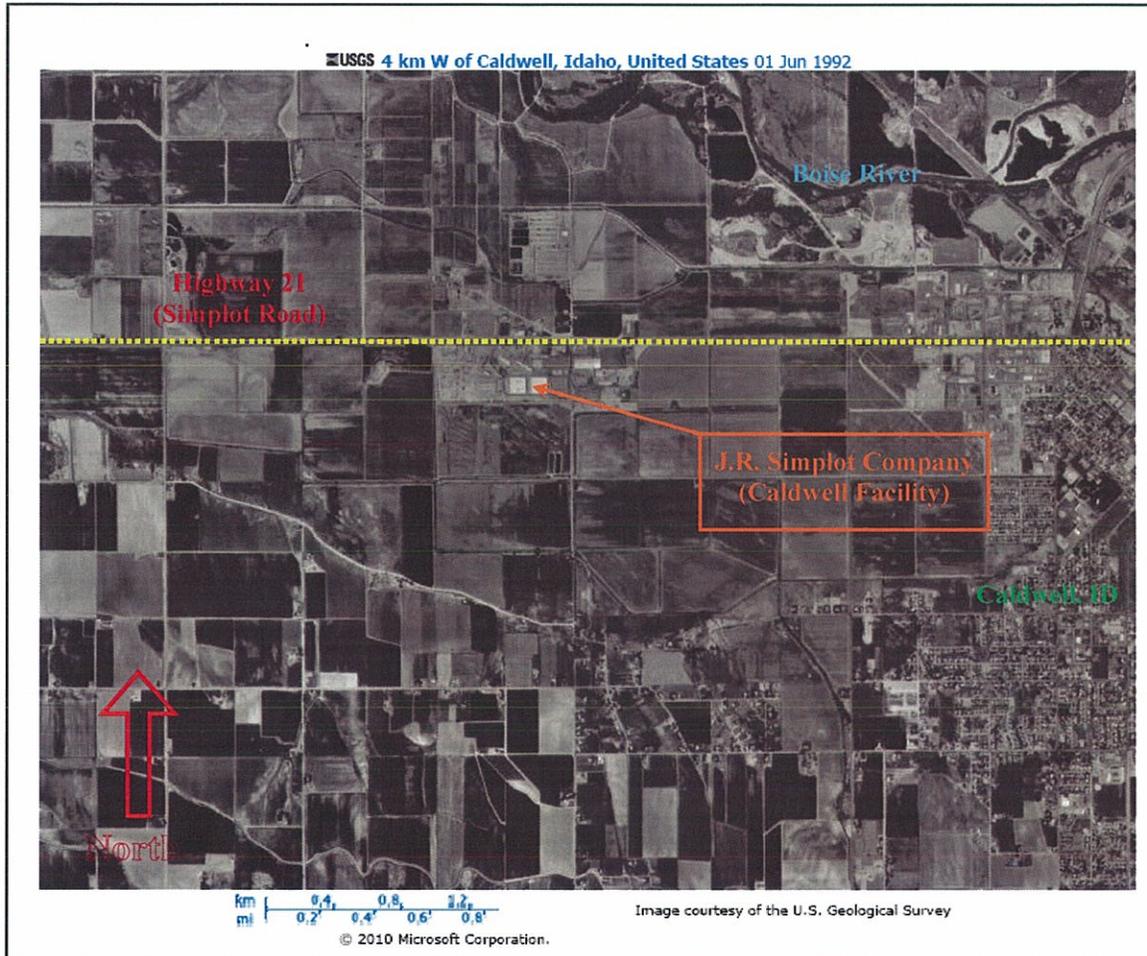


Figure 1: Site Vicinity Map

Appendix 2 Site Maps

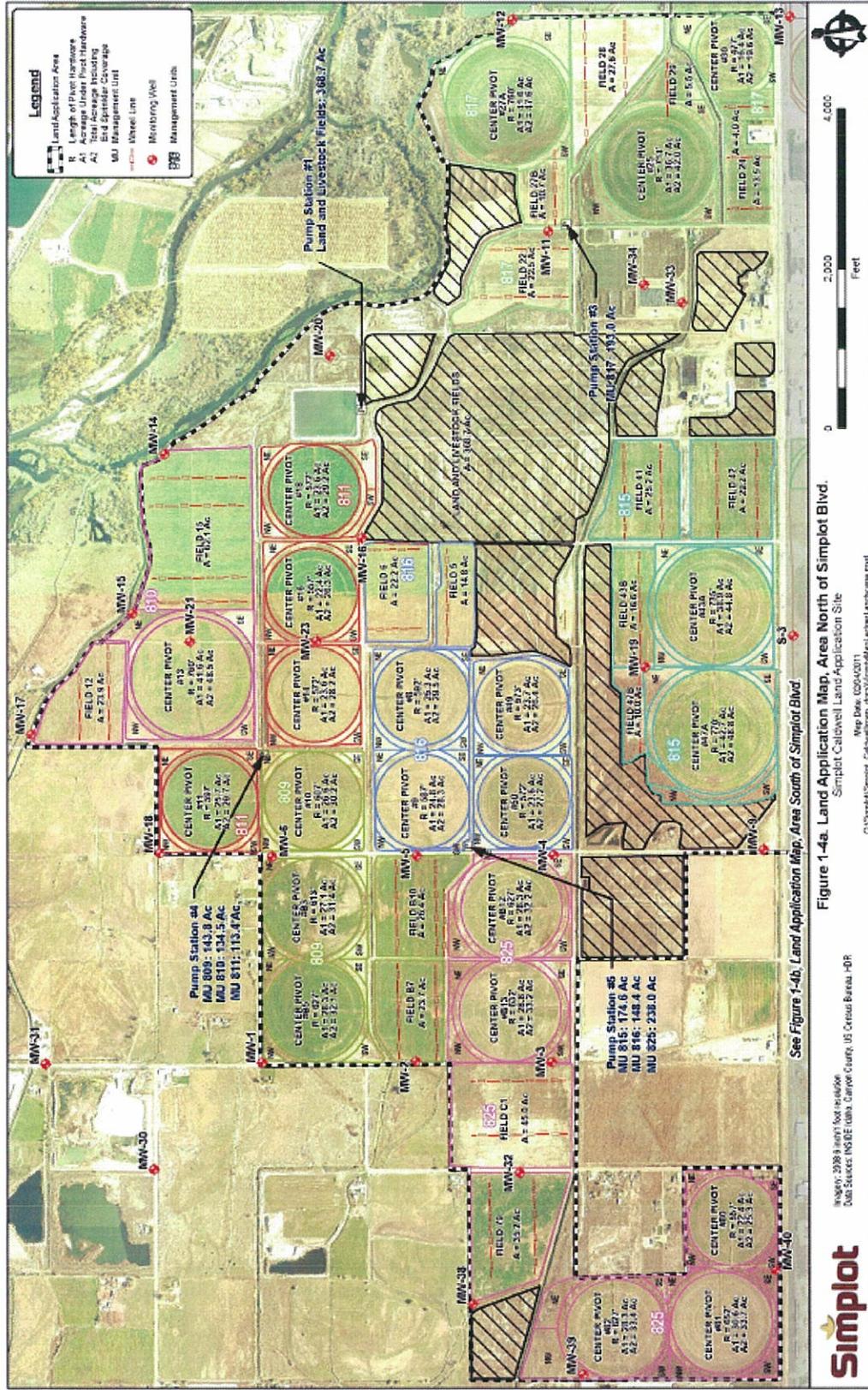


Figure 2a: Site Layout (Figure 1-4a, North of Simplot Road)

