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

**I-091-03**

**(formerly LA-000091-02)**

**Sorrento Lactalis, Inc.** (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 **June 19, 2018.**



Signature



Date

Pete Wagner  
Regional Administrator  
Boise Regional Office  
Idaho Department of Environmental Quality

Idaho Department of Environmental Quality  
Boise Regional Office  
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# 1. Commonly Used Acronyms/Abbreviations and Definitions

<b>bgs</b>	below ground surface
<b>bmp</b>	best management practice
<b>COD</b>	chemical oxygen demand
<b>cwt</b>	a unit of weight measurement equal to 100 pounds
<b>DEQ</b>	Idaho Department of Environmental Quality
<b>DEQ Guidance</b>	DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision
<b>Director</b>	Director of the Idaho Department of Environmental Quality or the Director's Designee unless otherwise specified
<b>EPA</b>	Environmental Protection Agency
<b>E<sub>i</sub></b>	irrigation efficiency
<b>FM</b>	flow measurement or monitoring description identifier
<b>GW</b>	prefix for ground water reporting serial number
<b>GWQR</b>	Ground Water Quality Rule
<b>IDAPA</b>	Idaho Administrative Procedures Act
<b>IDWR</b>	Idaho Department of Water Resources
<b>IWR</b>	irrigation water requirement - any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season (GS). The equation used to calculate the IWR is:  $IWR = P_{def} / E_i$
<b>LG</b>	prefix for lagoon reporting serial number
<b>MG</b>	million gallons
<b>mg/kg</b>	milligram per kilogram
<b>mg/L</b>	milligram per liter
<b>MU</b>	management unit
<b>NPDES</b>	National Pollutant Discharge Elimination System
<b>NVDS</b>	non-volatile (fixed) dissolved solids

<b>P<sub>def</sub></b>	precipitation deficit - is synonymous with the net irrigation water requirement of the crop and for the purposes of this permit can be found at the following website <a href="http://data.kimberly.uidaho.edu/ETIdaho/">http://data.kimberly.uidaho.edu/ETIdaho/</a>
<b>PO</b>	plan of operation
<b>QAPP</b>	quality assurance project plan
<b>SU</b>	prefix for soil monitoring unit reporting serial number
<b>TDIS</b>	total dissolved inorganic solids
<b>TDS</b>	total dissolved solids
<b>VDS</b>	volatile dissolved solids
<b>WW</b>	prefix for wastewater reporting serial number

## 2. Facility Information

Information type	Information specific for this permit
Type(s) of recycled water	Industrial
Facility location	4912 Franklin Rd., Nampa, ID 83687 T3N, R1W, S8
Facility mailing address and phone and fax	P.O. Box 1280 Nampa, ID 83651 Canyon County (t) 208-467-4424, (f) 208-467-9987
Facility responsible official	Alban Damour, Nampa Plant Manager (208) 463-6683 Alban.Damour@lactalis.us
Facility contact information	John Prigge, 208-463-6610, <a href="mailto:john.prigge@lactalis.us">john.prigge@lactalis.us</a>
Ground Water	Depth to Ground Water: Shallow Aquifer: 5-15 ft bgs, northwesterly flow direction Intermediate Aquifer: 40-80 ft bgs Regional Aquifer: 200 ft bgs  Nearest Public Water Supply Well: Sorrento Lactalis ID3140124, west of reuse site
Surface Water	Rachel Drain runs along the western boundary of the application site. Perkins Drain runs along the northern and eastern boundaries of the site.  The beneficial use of the drains is agriculture.

### 3. Compliance Schedule for Required Activities

Compliance activity number and Completion due date	Compliance activity description
CA-091-01 12 months after permit issuance	<b>Wastewater Facilities Planning Study:</b> Updates shall be made as necessary to the Wastewater Facilities Planning Study submitted on September 9, 2011 to reflect any changes in plans for the Wastewater Treatment Plant expansion. The facility shall provide a schedule for which completion of the phases of treatment plant expansion shall be implemented, so that the facility can accommodate flows from current and future production expansions. The plan shall include an analysis of the removal or reduction of Total Dissolved Solids (TDS). The planning study shall be submitted to DEQ for review and approval within twelve (12) months of permit issuance.
CA-091-02 12 months after permit issuance	<b>TDIS (Total Dissolved Inorganic Solids) Management Plan:</b> Permittee shall characterize all known sources of TDIS, analyze process and treatment alternatives to isolate and reduce the TDIS being generated or land applied, and determine the current and anticipated loading rates and the anticipated effect that the loading rates will have on ground water (i.e. what the TDS concentration will be at the site boundary). Permittee shall also determine the effect that these loading rates will have on the soil and its ability to sustain agricultural production. Determine the application loading rate above which the current level of ground water TDIS concentrations and soil salinity is predicted to increase. Include practices and TDIS reductions that will be implemented in order to improve downgradient ground water quality and site soil quality, and the timeline upon which these practices will be implemented. The management plan shall be submitted to DEQ for review and approval within twelve (12) months of permit issuance.
CA-091-03 (continued on next page) Six (6) months after permit issuance	<b>Plan of Operations:</b> Permittee shall submit to DEQ for review and approval a Plan of Operations. The Plan of Operations shall comply with requirements stated in IDAPA 58.01.17.300.05 and shall address the items in the latest revision of the Plan of Operation Checklist as well as the following items: <ul style="list-style-type: none"><li>• A Site Management Plan shall include a discussion of necessary ditch maintenance, a discussion of how recycled water or a combination of recycled water and irrigation water is prevented from entry to surface waters or drains adjacent to or downstream from the reuse site, and prevention of recycled water or a combination of recycled water and irrigation water from leaving the reuse site via surface waters or drains in a manner not permitted by the permittee's NPDES permit.</li><li>• A Waste Solids Management Plan shall completely describe solids management at all times, and must be regularly updated to reflect modifications or changes in management processes. DEQ must be provided with the proposed modifications and updates to the plan prior to implementation, and such proposals must be approved by DEQ prior to implementation. This plan shall include discussion of the treatment, generation, and transportation of the solids, the recipient's</li></ul>

<b>Compliance activity number and Completion due date</b>	<b>Compliance activity description</b>
	<p>responsibilities, and safety considerations such as spill response and any sampling and analysis that will be conducted. The plan shall include a contract with the recipient outlining what will be done with the solids.</p> <ul style="list-style-type: none"> <li>• Wellhead Protection of on-site monitoring wells, including maintenance and BMPs to prevent surface water intrusion to ground water.</li> <li>• The Sampling and Analysis Plan shall include procedures for taking representative samples of the land applied wastewater.</li> <li>• A cropping plan for uptake of currently and previously applied nutrients.</li> <li>• A Contingency Plan shall be included for diversions of water to the recycled water reuse site that is untreated or partially treated, or water that would cause a violation of the NPDES permit. The Contingency Plan shall discuss the following:                         <ul style="list-style-type: none"> <li>○ typical or likely causes of upsets in the wastewater treatment plant (WWTP) that lead to portions of or all of the effluent to be discharged to the recycled water reuse site,</li> <li>○ upsets that occur upstream of the WWTP that cause problems in treatment, the characteristics of the aberrant influent, a discussion of the problems this causes in the WWTP, and procedure when this happens,</li> <li>○ management and procedures for when common or potential WWTP emergencies and problems arise,</li> <li>○ avoidance procedures of common causes of upsets,</li> <li>○ the characteristics of common or potential discharges to the site and the resultant loadings, and</li> <li>○ a discussion of management for even application of effluent during or following a diversion.</li> </ul> </li> </ul> <p>If diversions result in a non-compliance with any Reuse Permit condition, report to DEQ according to Section 6 of the Reuse Permit, and if the diversion is the result of, results in, or is to avoid non-compliance with the NPDES permit, report to EPA in accordance with the NPDES permit. Include in the report a discussion of the quantity of water diverted as related to the non-compliance, analytical results, reason for the diversion, and corrective action taken.</p> <p>The Plan of Operations shall be updated as necessary to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request.</p>

<b>Compliance activity number and Completion due date</b>	<b>Compliance activity description</b>
<p>CA-091-04                      Six (6) months after permit issuance - Ground Water Study Plan due</p> <p>Eighteen (18) months after Ground Water Study Plan approval – Ground Water Study, Monitoring Well Network Analysis, Well Location Acceptability Analysis and Surface Water Analysis due</p>	<p><b>Ground Water Study, Monitoring Well Network Analysis, Well Location Acceptability Analysis, Surface Water Analysis:</b> The permittee shall submit to DEQ for review and approval a Ground Water Study Plan. The Plan be prepared by a qualified engineer or geologist registered in the state of Idaho and shall propose data collection and analysis to be used to determine if the Ground Water Monitoring Well Network is adequately capturing the influences of effluent application on the ground water at this site, to complete a Well Location Acceptability Analysis to determine if Wells 24 and 25 (also referred to as the Baune Wells) are being influenced by activities at the site, and to determine the extent to which a ground water – surface water interconnection exists. The Ground Water Study, Monitoring Well Network Analysis and Well Location Acceptability Analysis would be due 18 months after approval of the Plan.</p> <p>It is expected that the Ground Water Study Plan will recommend a common ion analysis* to be evaluated on a trilinear diagram, a stable isotope analysis with hydrogen and oxygen as tracers, or other robust analysis to be reviewed by DEQ. Analysis of ground water, surface water (drains and irrigation water), and wastewater should be included. A Quality Assurance Project Plan shall be prepared to document the planning, implementation and assessment procedures for the project. It is expected that the study will include a minimum of quarterly sample events for a duration of one year in order to capture seasonality.</p> <p>At a minimum, the following items shall be addressed as part of the Ground Water Monitoring Well Network Analysis:</p> <ul style="list-style-type: none"> <li>• The condition of the monitoring well casing and screens should be assessed.</li> <li>• Determine if the surface seals are intact and adequate.</li> <li>• Determine if the current monitoring wells are capturing the ground water flow from the land application site, if any wells are influenced by outside sources, if any wells should be removed or replaced, and if additional wells are needed.</li> <li>• Determine if the wells are capturing the effects of the onsite lagoon, and whether the risk of ground water effects by lagoon seepage indicates that the lagoon should be leak tested.</li> </ul> <p>The Well Location Acceptability Analysis shall include a discussion of the well construction and screening depth of Wells 24 and 25. If it is determined that the wells are being influenced by activities at this site, the facility shall submit for DEQ review and approval a remediation plan, and propose a schedule for completion of remediation.</p> <p>A ground water - surface water interconnection shall also be investigated. This assessment shall occur over the course of a year to determine seasonal effects.</p> <p>*Common ion analysis would measure the concentrations of Ca<sup>2+</sup>, Mg<sup>2+</sup>, Na<sup>+</sup>, K<sup>+</sup>, HCO<sub>3</sub><sup>-</sup>, CO<sub>3</sub><sup>2-</sup>, SO<sub>4</sub><sup>2-</sup>, and Cl<sup>-</sup> in meq/L.</p>

<b>Compliance activity number and Completion due date</b>	<b>Compliance activity description</b>
CA-091-05 Six (6) months after permit issuance	<p><b>Quality Assurance Project Plan (QAPP):</b> The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ.</p> <p>The QAPP shall be designed to assist in planning for the collection, analysis, and reporting of all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following:</p> <ol style="list-style-type: none"><li>1. Details on the number of measurements, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection, and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements.</li><li>2. Maps indicating the location of each monitoring and sampling point.</li><li>3. Qualification and training of personnel.</li><li>4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee.</li><li>5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report.</li></ol> <p>The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the DEQ Guidance.</p> <p>The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request.</p>

## 4. Permit Limits and Conditions

### 4.1. Hydraulic Management Unit Descriptions

Serial Number	Description	Irrigation System Type/Irrigation Efficiency (E <sub>i</sub> )	Maximum Acres <sup>a</sup> Allowed
MU-009102	West Field	Furrow Irrigation/ E <sub>i</sub> = 0.60	32.1
MU-009103	East Field	Furrow Irrigation/ E <sub>i</sub> = 0.60	101
Total acreage			133.1

a. Maximum acres represent the total permitted acreage of the MU as provided by the permittee. If the permittee uses less acreage in any season or year, then loading rates shall be presented and compliance shall be determined based on the actual acreage utilized during each season or year.

### 4.2. Hydraulic Loading Limits

Serial Number	Growing season hydraulic loading	Non-growing season maximum hydraulic loading <sup>a</sup>
MU-009102	Substantially at the irrigation water requirement (IWR) <sup>b</sup>	7.36 Inches
MU-009103	Substantially at the irrigation water requirement (IWR) <sup>b</sup>	7.36 Inches

a. Record daily, as necessary, abnormal conditions as a result of nongrowing season application including ponding, ice, or runoff from the permitted site.

b. For compliance purposes, the source of P<sub>def</sub> data used to calculate the IWR shall be specified in the PO.

### 4.3. Constituent Loading Limits

Serial Number	Constituent loading (from all sources)			
	Nitrogen	Phosphorus	Salt (Non-volatile dissolved solids, NVDS)	COD: growing season / non-growing season (lb/ac-day) <sup>a</sup>
MU-009102	150% of typical crop uptake <sup>b</sup>	100% of typical crop uptake <sup>b</sup>	No limit unless deemed necessary following completion of the compliance activities in Section 3.	50 / 50
MU-009103				

a. COD limits are expressed in pounds per acre per day (lb/acre-day) based on a seasonal average.

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

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

Serial Number	Buffer distances (in feet) from Hydraulic Management Units					
	Public water supplies	Private water supplies	Inhabited dwellings	Permanent and intermittent surface water	Irrigation ditches and canals	Areas Accessible to the Public
MU-009102	1,000	500	25	N/A	N/A	0
MU-009103	1,000	500	25	N/A	N/A	0

#### 4.5. Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing Season	April 1 through October 31 (214 days)
Non-growing Season	November 1 through March 31 (151 days)
Reporting Year for Annual Loading Rates	November 1 through October 31
Backflow Prevention Testing	Annual testing of backflow prevention devices on all wastewater/supplemental irrigation water interconnection is required. Documentation of this testing shall be submitted as specified in Section 6.1.1. Refer to Section 9.1.1 of this permit.
Flow Measurement Calibration	Flow measurement devices used to directly or indirectly measure all wastewater and supplemental irrigation water flows applied to each hydraulic management unit shall be calibrated annually. Provide documentation of this calibration in the annual report required by Section 6.1.
Records retention requirements	Keep records generated to meet the requirements of this permit for the duration of the permit, including administrative extensions, plus two years.
Construction plans	Pursuant to Idaho Code §39-118, IDAPA 58.01.16, and IDAPA 58.01.17, detailed plans and specifications shall be submitted to DEQ for review and approval prior to construction, modification, or expansion of any wastewater treatment, storage, conveyance structures, or reuse facility. Inspection requirements shall be satisfied and within 30 days of completion of construction and the permittee shall submit as-built plans or a letter from an Idaho Professional Engineer certifying the facilities or structures were constructed in substantial accordance with the approved plans and specifications.
Grazing	Prior to grazing, the permittee shall submit a grazing management plan and receive written approval from DEQ.
Posting	Signs shall read “Caution: Recycled Water – Do Not Drink”, or equivalent signage both in English and Spanish. Signs are to be posted at each access point and each corner of the outer perimeter of the irrigated site.

## 5. Monitoring Requirements

### 5.1. Recycled Water and Irrigation Water Monitoring, Sampling, and Analyses

#### 5.1.1. Microbial and Constituent Monitoring

Monitoring point serial number and location	Sample description	Sample type/Frequency	Constituents (units in mg/L unless otherwise specified)
WW-009101 Final Effluent to LG-009101 or directly to irrigation. <sup>a,b</sup>	Recycled water to LG-009101, MU-009102, or MU-009103	Grab/Weekly (during periods of use)	- total Kjeldahl nitrogen - nitrite + nitrate-nitrogen - ammonia-nitrogen - total phosphorus - Total Dissolved Solids - Volatile Dissolved Solids - COD - sodium - chloride - potassium - pH
WW-009102 Untreated or Partially Treated wastewater discharged to LG-009101 or directly to irrigation. <sup>a,b</sup>	Wastewater to LG-009101, MU-009102, or MU-009103	Grab/Daily when discharging	- total Kjeldahl nitrogen - nitrite + nitrate-nitrogen - ammonia-nitrogen - total phosphorus - Total Dissolved Solids - Volatile Dissolved Solids - COD - sodium - chloride - potassium - pH

Monitoring point serial number and location	Sample description	Sample type/Frequency	Constituents (units in mg/L unless otherwise specified)
WW-009103 Wastewater Treatment Plant Effluent to outfall	NPDES Discharge	24-hr Composite / Twice Annually (April and October)	Total Dissolved Inorganic Solids (TDIS) individual analysis and summation of the following: - calcium - magnesium - potassium - sodium - chloride - sulfate - 0.6 times alkalinity (alkalinity expressed as calcium carbonate) - nitrate* - silica* - fluoride* * include in the sum if present at >5 mg/L each.
			- SAR
IW-009101 Irrigation Water	Irrigation water not mixed with recycled water	Grab/ Monthly during the Growing Season	- total Kjeldahl nitrogen - nitrite + nitrate-nitrogen - total phosphorus - Total Dissolved Solids - Volatile Dissolved Solids

a. "Final Effluent" is fully treated effluent that has been treated through the entire WWTP (clarification, SBR treatment, chemical clarification, filtration, disinfection). Final Effluent may be off-specification with regard to the NPDES permit. "Untreated Effluent" or "Partially Treated Effluent" is water that has not been treated by the entire WWTP.

b. Record the following: (1) dates and cause of the discharge of untreated or partially treated water, and water that is diverted because it does not meet NPDES discharge requirements (2) the actions taken to correct the situation, and (3) conduct an annual analysis of diversions to determine if preventative measures must be implemented to prevent recurrent untreated and partially treated water discharge situations from continuing in the future.

**5.1.2. Flow Monitoring**

Monitoring point serial number and location	Sample description	Sample type/Frequency	Measured Parameter
FM-009101 Propeller type flow meter of effluent to LG-009101	Recycled Water Flow to LG-009101, MU-009102 or MU-009103	- Daily meter reading; - Monthly compilation of data;	- flow (MG/month)

<b>Monitoring point serial number and location</b>	<b>Sample description</b>	<b>Sample type/Frequency</b>	<b>Measured Parameter</b>
FM-009102 Propeller type flow meter of effluent from LG-009101	Flow from LG-009101 to MU-009102 and MU-009103	- Daily meter reading; - Monthly compilation of data;	- flow (MG/month)
FM-009103 Allotment of Irrigation Water at the diversion	Irrigation Water volume from diversion to MU-009102 and MU-009103 or directly to LG-009101	- Daily reading - Monthly compilation of data	- flow (MG/month)

## 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</b>
GW-009101	MW 1	Monitoring well	Down gradient. West of MU-009102 and north of old wastewater treatment ponds.
GW-009102	MW 2	Monitoring well	Down gradient, on-site. Located within MU-009102
GW-009103	MW 3	Monitoring well	Up gradient. South of MU-009103.
GW-009104	MW 4	Monitoring well	Mid gradient. Central MU-009103.
GW-009105	MW 5	Monitoring well	Up gradient. Southeast of site.
GW-009106	MW 6	Monitoring well	Up gradient. South of MU-009103.
GW-009107	MW 7	Monitoring well	Down gradient. North of MU-009102.
GW-009108	MW 8	Monitoring well	Down gradient. Northwest corner of property, near Rachel Drain.
GW-009109	MW 9	Monitoring well	Down gradient. Northwest corner of property, near Star Road.

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

Monitoring point serial number	Sampling point description	Sample type/ Frequency	Constituents (units in mg/L unless otherwise specified)
GW-009101 GW-009102 GW-009103 GW-009104 GW-009105 GW-009106 GW-009107 GW-009108 GW-009109	Monitoring wells	Grab sample/ Twice annually: April, October	<ul style="list-style-type: none"> <li>- water table elevation (ft)</li> <li>- water table depth (ft)</li> <li>- nitrate-nitrogen</li> <li>- total phosphorus</li> <li>- TDS</li> <li>- chloride</li> <li>- total and dissolved iron</li> <li>- total and dissolved manganese</li> <li>- chemical oxygen demand (COD)</li> <li>- pH (SU)</li> <li>- specific conductance/electrical conductivity (umhos/cm)</li> <li>- temperature (°C)</li> <li>- dissolved oxygen</li> </ul>

### 5.3. Soil Monitoring

#### 5.3.1. Soil Monitoring Unit Descriptions

Monitoring point serial number	Description	Associated MU
SU-009102	Field 2	MU-009102
SU-009103	Field 3	MU-009103

#### 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-009102 SU-009103	Composite samples <sup>a</sup>	March and October	<ul style="list-style-type: none"> <li>- electrical conductivity (umhos/cm in saturated paste extract)</li> <li>- nitrate-nitrogen</li> <li>- ammonium nitrogen</li> <li>- plant available phosphorus</li> <li>- Sodium Adsorption Ratio (SAR)</li> <li>- pH</li> </ul>

Monitoring point serial number	Sample type	Sample frequency	Constituents (units in mg/kg soil unless otherwise specified)
SU-009102 SU-009103	Composite samples <sup>a</sup>	March of 2014 and March of 2017	<ul style="list-style-type: none"> <li>- DTPA Fe</li> <li>- DTPA Mn</li> <li>- sodium</li> <li>- potassium</li> <li>- calcium</li> <li>- magnesium</li> <li>- sulfur</li> <li>- cation exchange capacity</li> <li>- lime percent</li> </ul>

a. The number of sample locations specified in the PO or QAPP for 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.

## 5.4. Plant Tissue Monitoring

### 5.4.1. Crop Harvest Monitoring

Associated Hydraulic Management Units	Sample Type	Sample Frequency	Parameters <sup>a</sup>
MU-009102 MU-009103	Harvested portion, each crop, each MU	Each harvest	<ul style="list-style-type: none"> <li>- Crop type</li> <li>- Harvest date</li> <li>- Sample collection date</li> <li>- Harvested acreage (acres)</li> <li>- As-harvested ('wet') yield in customary harvested units (tons, bushels, cwt, etc.).</li> <li>- As-harvested (field) moisture content (%)</li> <li>- Dry yield (lb)</li> </ul>

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

### 5.4.2. Plant Tissue Monitoring

Associated Hydraulic Monitoring Units	Sample type	Sample frequency	Parameters <sup>a</sup>
MU-009102 MU-009103	Harvested portion, each crop, each MU	Each harvest	- moisture content (%) - ash (%) - total Kjeldahl nitrogen (%) - Nitrate nitrogen as N (ppm) - phosphorus as P (ppm)

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

### 5.5. Lagoon Information

Serial number	Description
LG-009101	Wastewater and Irrigation Water Equalization Lagoon

## **6. Reporting Requirements**

### **6.1. Annual Report Requirements**

The permittee shall submit to DEQ an annual report prepared by a competent environmental professional covering the previous reporting year.

#### **6.1.1. Due Date**

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

#### **6.1.2. Required Contents**

The Annual Report shall include the following:

1. A brief interpretive discussion of all required monitoring data. The report shall address data quality objectives, validation, and verification; permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in Section 4.5.
2. 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. The report shall present all monitoring data in organized data summary tables to expedite review.
3. Status of all work described in Section 3 of this permit.
4. Results of all backflow testing, repairs and replacements required by Section 9.1.1 of this permit.
5. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.
6. A summary of all noncompliance events that occurred during the reporting year. Examples of noncompliance events that must be discussed include, but are not limited to: complaints, missed monitoring events, incorrect monitoring dates or frequencies, dry monitoring wells, uncontained spills causing runoff, construction without DEQ engineering plan approval, construction without engineering inspection, and reporting incorrect acreage.
7. Submittal of the calculations and observations for hydraulic management units specified in the table below.
8. All laboratory analytical reports, chain of custody forms, and crop yield documentation.
9. The parameters in the following table:

Monitoring point serial number	Parameter (calculate for each MU)	Units
MU-009102 MU-009103	Recycled water loading rate (report each recycled water or wastewater source separately)	- Million gallons/month - Inches/month
	Irrigation water loading rate	- Million gallons/month - Inches/month
	COD loading rate: Growing season seasonal average	- Pounds/acre-day
	COD loading rate: Non-growing season seasonal average	- Pounds/acre-day
	Recycled water nitrogen, phosphorus and NVDS loading rates (using data from WW-009101 and WW-009102)	- Pounds/acre-year
	Irrigation water nitrogen, phosphorus and NVDS loading rates (using data from IW-009101)	- Pounds/acre-year
	Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P	- Pounds/acre-year
	Waste solids nitrogen and phosphorus application rates	- Pounds/acre-year
	Crop harvest and yield Report each harvest and the annual totals for each MU.	- Crop Types Harvested - Total harvested area (acres) - Total 'wet' yield (lb/yr, lb/acre-yr) - Total 'dry' yield (lb/yr, lb/acre-yr)
	Crop constituent removal: nitrogen (as N), phosphorus (as P), and ash Report each harvest and the annual totals for each MU.	- Pounds-N/acre-year - Pounds-P/acre-year - Pounds Ash/acre-year
<p><b>Other Reporting Requirements:</b></p> <ul style="list-style-type: none"> <li>- Visual observation of field conditions: areas of ponding, ice, unusual conditions, etc. Record daily as necessary when land applying.</li> <li>- Keep records at the facility and have records available for DEQ inspection.</li> <li>- Records/documentation for verifying calibration for all flow meters used in the monitoring requirements of this permit.</li> <li>- Conduct an annual analysis of diversions to determine if preventative measures must be implemented to prevent recurrent untreated and partially treated water discharge situations from continuing in the future (Section 5.1.1).</li> </ul>		

### 6.1.3. Submittal

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

1. Permit applications shall be signed as follows:
  - a. For a corporation: by a responsible corporate officer;
  - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
  - c. For a municipality, state, federal, Indian tribe, or other public agency: by either the principal executive officer or ranking elected official.
2. Annual reports and other information requested by DEQ shall be signed by the responsible official or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by the responsible official;
  - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual having overall responsibility for environmental matters for the company; and
  - c. The written authorization is submitted to DEQ.

Submit the annual report to the following DEQ regional office at this address:

The annual report shall be submitted to the following DEQ Regional Office at this address:

Engineering Manager  
Department of Environmental Quality  
Boise Regional Office  
1445 N. Orchard  
Boise, ID 83706  
208-373-0550 / 208-373-0287

The annual report shall include the following certification statement and be signed, dated, and certified by the permittee's Responsible Official or Authorized Representative:

*"I certify under penalty of law that this report and all attachments were prepared under my direction or supervision and the data and information presented in this report was collected, evaluated, and prepared in conformance with the Quality Assurance Project Plan required by the permit. I also certify that the information provided in this submission is, to the best of my knowledge, true, accurate, and complete, and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA 58.01.17.920.01 or other enforcement action as provided for under Idaho law."*

## 6.2. Emergency and Non-compliance Reporting

Report noncompliance incidents to the DEQ Regional Office at (208) 373-0550 or 1-888-800-3480.

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

See Section 8, “Standard Permit Conditions,” and IDAPA 58.01.17.500.06 for reporting requirements for facilities.

All instances of unpermitted discharges of wastewater to Surface Waters of the State shall also be reported to the Environmental Protection Agency by telephone within 24 hours from the time the permittee becomes aware of the discharge and in writing within five days at this address:

NPDES/Stormwater Coordinator  
USEPA Idaho Operations Office  
950 W Bannock, Ste. 900  
Boise, ID 83702  
208-378-5746 / 208-378-5744

## 7. Permits for Use of Industrial Recycled Water

The following are permit requirements for industrial recycled water and are included as terms of this permit as required by the “Recycled Water Rules,” (IDAPA 58.01.17.616).

### 616. PERMIT FOR USE OF INDUSTRIAL RECYCLED WATER.

Industrial recycled water shall only be used in accordance with a permit issued pursuant to these rules. Permit conditions and limitations shall be developed by the Department on a case-by-case basis taking into account the specific characteristics of the wastewater to be recycled, the treatment necessary to ensure the use of such recycled water is in compliance with IDAPA 58.01.11, “Ground Water Quality Rule” and IDAPA 58.01.02, “Water Quality Standards.” Unless otherwise indicated in this section, the permit application, processing and issuance procedures provided in this rule shall apply to industrial reuse permits. (4-7-11)

## 8. Standard Permit Conditions

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

### 500. STANDARD 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)

## **9. 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.

### **9.1. Operations**

#### **9.1.1. Backflow Prevention**

Reuse facilities with existing or planned cross-connections or interconnections between the recycled water system and any water supply (potable or non-potable) or surface water, shall have backflow prevention assemblies, devices, or methods as required by applicable rule or regulation and approved by DEQ.

For public water systems, backflow assemblies shall meet the requirements of IDAPA 58.01.08.543. Assemblies shall be adequately maintained and shall be tested annually by a certified backflow assembly tester, and repaired or replaced as necessary to maintain operational status.

For domestic water supply wells, backflow prevention devices shall meet the requirements of IDAPA 07.02.04 and shall be adequately operated and maintained.

Irrigation water supply wells shall meet the requirements of IDAPA 37.03.09.36 for preventing any waste or contamination of the ground water resource. Backflow prevention assemblies or devices used to protect the ground water shall be adequately operated and maintained.

Discharge of recycled water to surface water is authorized by the EPA NPDES program. An NPDES permit is required for any discharge to surface water and backflow prevention shall be implemented to prevent any unauthorized discharge. Backflow prevention assemblies or devices used to protect surface water shall be adequately operated and maintained.

Records of all testable backflow assembly test results, repairs, and replacements shall be kept at the reuse facility along with other operational records, and shall be discussed in the Annual Report and made available for inspection by DEQ. Other approved means of backflow prevention, such as siphons and air-gap structures that cannot be tested, shall be maintained in operable order.

#### **9.1.2. Restricted to Premises**

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).

### **9.1.3. 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)

### **9.1.4. Solids Management**

**Biosolids** are the nutrient-rich organic materials resulting from the treatment of sewage sludge. When treated and processed, sewage sludge becomes biosolids which can be safely recycled and applied as fertilizer to sustainably improve and maintain productive soils and stimulate plant growth.

Biosolids generated from sewage sludge are regulated by EPA under 40 CFR Part 503 and require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650. Contact DEQ prior to application of biosolids at any permitted reuse facility.

**Sludge** is the semi-liquid mass produced and removed by wastewater treatment processes. This does not include grit, garbage, and large solids.

Sludge is generated by wastewater treatment processes at municipal and industrial facilities.

**Solid Waste** is any garbage or refuse, sludge from a waste water treatment plant, water supply treatment plant, or air pollution control facility and other discarded material including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and from community activities, but does not include solid or dissolved materials in domestic sewage, or solid or dissolved material in irrigation return flows or industrial discharges which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended.

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

existing authorities to regulate agricultural waste that impacts human health or the environment.

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

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

Inert wastes are defined as non-combustible, nonhazardous, and non-putrescible solids wastes that are likely to retain their physical and chemical structure and have a deminimis potential to generate leachate under expected conditions of disposal, which includes resistance to biological attack.

Waste solids require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650.

#### **9.1.5. 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)

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

The PO 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)

### **9.1.7. Seepage Testing Requirements (IDAPA 58.01.16.493.02.c)**

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

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

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

## **9.2. Administrative**

Requirements for administration of the permit are defined as follows.

### **9.2.1. 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. (4-7-11)

**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)

### **9.2.2. 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)

### **9.2.3. 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)

#### **9.2.4. 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)

#### **9.2.5. 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.

## **10. 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.

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

#### **10.1.1. Well Use**

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

### **10.1.2. Well Maintenance**

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

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

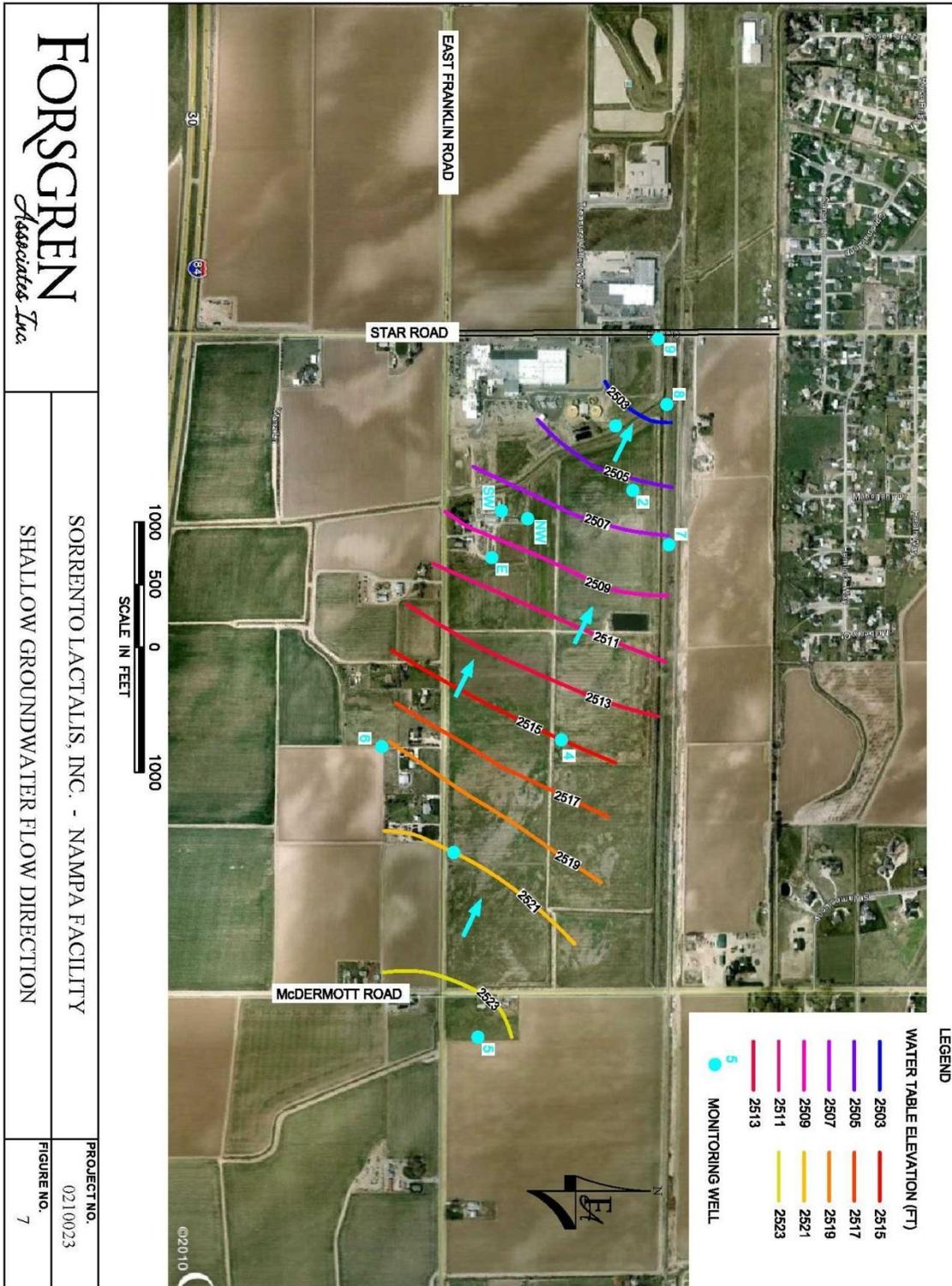
The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the Director of the IDWR in accordance with the applicable rules.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

## **11. Site Maps**

### 11.1. Facility Maps



PU210023 - Sorrento WW Permitting\CADD\Submittal Drawings\Perm&T Permit Sorrento GW Flow.dwg, 1/29/2010 9:17:59 AM, rb



### 11.2. General Area Map

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