

A. Permit Certificate
INDUSTRIAL
WASTEWATER REUSE PERMIT
LA-000049-03

The Amalgamated Sugar Company LLC, LOCATED AT 2320 East Orchard Drive, Twin Falls, ID 83303 IN Twin Falls County Township 10S, Range 17E, Section 23, 25, 26 & 35 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 GROUNDWATER 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 October 5, 2016.



Bill Allred
Regional Administrator

10-05-2011
Date

DEPARTMENT OF ENVIRONMENTAL QUALITY
Twin Falls Regional Office
1363 Fillmore Street .
Twin Falls, Idaho 83301
208-736-2190

POSTING ON SITE RECOMMENDED

B. Permit Contents, Appendices, and Reference Documents

	Page
A. Permit Certificate	1
B. Permit Contents, Appendices and Reference Documents	2
C. Abbreviations, Definitions	3
D. Facility Information	5
E. Compliance Schedule for Required Activities	6
F. Permit Limits and Conditions	9
G. Monitoring Requirements	11
H. Standard Reporting Requirements	15
I. Standard Permit Conditions: Procedures and Reporting	16
J. Standard Permit Conditions: Modifications, Violation, and Revocation	18

Appendices

1. Environmental Monitoring Serial Numbers
2. Site Map

References:

1. Plan of Operation (Operation and Maintenance Manual) . See CA-049-01

The Sections, Appendices, and Reference Documents listed on this page are all elements of Wastewater Reuse Permit LA-000049-03 and are enforceable as such. This permit does not relieve The Amalgamated Sugar Company LLC, 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.
BMP or BMPs	Best Management Practices
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 – April 1 through October 31 for this permit
GW	Ground Water
GWQR	IDAPA 58.01.11 “Groundwater Quality Rule”
Guidance	Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater. Idaho Department of Environmental Quality, 2007.
H L R _{gs}	Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to reuse hydraulic management units during the growing season. The H L R _{gs} limit is specified in Section F. Permit Limits and Conditions.
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IWR	<p>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:</p> $IWR = P_{def} / E_i$ <p>P_{def} is the precipitation deficit and is synonymous with the net irrigation water requirement of the crop. E_i is the irrigation system efficiency.</p>
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)
NGS	Non-Growing Season – November 1 through March 31 for this permit
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
Reuse	The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, aquifer recharge, use in surface water features, toilet flushing in commercial buildings, dust control, and other uses.
SAR	Sodium Absorption Ratio
Soil AWC	Soil Available Water Holding Capacity - the water storage capability of a soil to a depth at which plant roots will utilize (typically 60 inches or root limiting layer)
SMU	Soil Monitoring Unit (Serial Number designation is SU)
SW	Surface Water
TDS	Total Dissolved Solids or 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).

LA-000049-03	The Amalgamated Sugar Company LLC, Twin Falls Facility	Expiration Date October 5, 2016	Page 3
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C. Abbreviations, Definitions

TMDL	Total Maximum Daily Load – The sum of the individual waste-load allocations (WLA's) for point sources, Load Allocations (LA's) 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. I DAPA 58.01.02 <i>Water Quality Standards and Wastewater Treatment Requirements</i>
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
WW	Wastewater

D. Facility Information

Legal Name of Permittee	The Amalgamated Sugar Company LLC
Type of Wastewater	Sugar Beet Processing Wastewater
Method of Treatment	Primary Screening and Clarification, Aeration basin, Aerated lagoon, Slow Rate Land Treatment
Type of Facility	Beet Sugar Manufacturing
Facility Location	2320 East Orchard Drive, Twin Falls, ID 83303
Legal Location	Township 10 S, Range 1 7E, Section 23, 25, 26 & 35
County	Twin Falls
USGS Quad	Twin Falls, Idaho
Soils on Site	Portneuf silt loam, Minveno silt loam, Minidoka silt loam
Depth to Ground Water	5 - 45 feet
Beneficial Uses of Ground Water	Domestic, Agriculture, Industrial, Aquaculture
Nearest Surface Water	Rock Creek (100 feet), Perrine Coulee (200 feet)
Existing Beneficial Uses of Surface Water	Rock Creek: Cold Water Communities, Salmonid Spawning, Secondary Contact Recreation Perrine Coulee: Agricultural Water Supply
Responsible Official	Gary Pool, Plant Manager
Mailing Address	P.O. Box 127 Twin Falls, ID 83303
Phone	(208) 733-4104
Alternate Official	Dean C. DeLorey
Alternate Mailing Address	1951 South Saturn Way, Suite 100 Boise, ID 83709
Alternate Phone	(208) 383-6500

E. Compliance Schedule for Required Activities

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

Compliance Activity Number Completion Date	Compliance Activity Description
<p style="text-align: center;">Updated Plan of Operation CA-049-01</p> <p>Due twelve (12) months after permit issuance</p>	<p>An updated Plan of Operation (Operation and Maintenance Manual or O&M Manual) for the wastewater reuse facilities, incorporating the requirements of this permit, shall be submitted to DEQ for review and approval. The O&M manual shall be designed for use as an operator guide for actual day-to-day operations to meet permit requirements and shall include daily sampling and monitoring requirements to ensure proper operation of the wastewater treatment and reuse facilities. The O&M manual shall address all of the information in the latest revision of the Plan of Operation Checklist, found in Section 1.9.3, page 1-72, of DEQ's guidance document. The guidance is available online at:</p> <p style="text-align: center;">http://www.deq.idaho.gov/media/516329-guidance_reuse_0907.pdf</p> <p>The Plan of Operation shall be updated as necessary to reflect current operations.</p>
<p style="text-align: center;">Q APP CA-049-02</p> <p>Due six (6) months after permit issuance</p>	<p>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. Upon approval, the plan will become a part of the facilities Plan of Operation (CA-049-01).</p>
<p style="text-align: center;">Isotope Analysis CA-049-03</p> <p>Due eighteen (18) months after permit issuance</p>	<p>The permittee shall submit to DEQ, the results of an analysis for stable oxygen and hydrogen isotopes for the 7-acre lagoon wastewater, 3-acre lagoon wastewater, sanitary lagoon wastewater, condensate pond wastewater, supplemental irrigation water, and all groundwater and surface water monitoring points listed in Appendix 1, Environmental Monitoring Serial Numbers. The facility may include additional sampling points. Samples shall be collected one time in January, April, July and October. Upon DEQ approval, sampling may be discontinued at any location following the first or any subsequent sampling event if the sampling results and interpretation provide satisfactory justification. Samples shall be collected at times and locations that are representative of typical conditions. The submittal shall include an interpretation of the results with a particular focus on the source of elevated constituent concentrations in the facilities groundwater monitoring wells. The exact wastewater and surface water sampling locations shall be accurately described in detail with the submittal. The sampling protocols and quality control procedures for all samples shall follow those established by the analytical laboratory conducting the stable isotope analysis and shall be described with the submittal. Groundwater sampling procedures shall follow those specified in number six (6), Section G, Monitoring Requirements of this permit.</p>

E. Compliance Schedule for Required Activities

Compliance Activity Number Completion Date	Compliance Activity Description
<p style="text-align: center;">Wastewater Lagoon Seepage Assessment</p> <p style="text-align: center;">CA-049-04</p> <p style="text-align: center;">Assessment due twenty-four (24) months after permit issuance.</p> <p>A plan and schedule to retest, reassess, repair, replace or decommission lagoons is due six (6) months following DEQ approval of the seepage assessment. If necessary, a seepage testing plan is required at this time.</p>	<p>Submit for DEQ review and approval, an assessment based on the results of groundwater sampling and analyses and/or modeling that estimates the combined effect of seepage from all lagoons on the local groundwater and surface water. The results of isotope analysis (CA-049-03) and seepage testing conducted under Schedule C; number 1 of permit number LA-000049-02 shall be incorporated into the assessment.</p> <p>If the actual or predicted impacts of the seepage assessment do not comply with IDA PA 58.01.11 or the goals established for surface water as determined by DEQ, the permittee shall submit, for DEQ review and approval, a plan and schedule to retest, repair, replace, or decommission these structures. If the plan includes repair, replacement or decommissioning lagoons, the facility shall prioritize improvements based on the consequences of continued seepage from each lagoon.</p> <p>If the predicted impacts of the lagoon seepage assessment comply with water quality standards, the predicted impacts shall be reassessed following retesting of each wastewater lagoon not tested within the past five (5) years. A plan and schedule to retest lagoons and reassess the predicted impacts shall be submitted for DEQ for review and approval. Retesting of wastewater lagoons may be waived following the results of Isotope Analysis (CA-049-04) or additional submittals, approved by DEQ, that quantitatively rule out the facilities wastewater lagoons as a significant source of groundwater or surface water contamination.</p> <p>A seepage testing plan that describes the procedures to be used to conduct seepage testing on each lagoon shall be submitted to DEQ for review and approval prior to any seepage testing required by this compliance activity.</p>
<p style="text-align: center;">Buffer Zone Plan</p> <p style="text-align: center;">CA-049-05</p> <p style="text-align: center;">Due six (6) months after permit issuance</p> <p style="text-align: center;">Buffer Zone Plan fully implemented six (6) months after D EQ approval</p>	<p>The permittee shall submit for DEQ review and approval, an updated buffer zone plan that delineates the buffer zones from the land application sites to inhabited dwellings, areas accessible to the public, roadways, irrigation ditches, canals, and surface water. The plan shall include a scaled map of the land application sites and the buffer objects. Justification for buffer zone distances shall be included in the plan. In addition, the buffer zone plan shall outline the process and procedures for addressing complaints when they are received and describe how these complaints will be reported to DEQ. The buffer zone plan shall be fully implemented no later than six (6) months after departmental approval. Upon approval, the buffer zone plan will become a part of the facility's Plan of Operation (CA-049-01).</p>

E. Compliance Schedule for Required Activities

Compliance Activity Number Completion Date	Compliance Activity Description
<p style="text-align: center;">Coal Ash Wastewater Characterization</p> <p style="text-align: center;">CA-049-06</p> <p>Due eighteen (18) months after permit issuance</p>	<p>Characterize the coal ash wastewater, including the annual volume of wastewater, the time distribution of flows, and the physical, chemical and biological characteristics. The characterization shall include an assessment of the variability in concentration and the median concentration of constituents potentially present in the coal ash wastewater that are regulated by IDAPA 58.01.11.200.01 .a and .01 .b. The facility shall submit the characterization for DEQ review and approval.</p>
<p style="text-align: center;">Soil Moisture Monitoring Plan (MU-004907)</p> <p style="text-align: center;">CA-049-07</p> <p>Monitoring plan due six (6) months after permit issuance</p> <p>Monitoring plan fully implemented six (6) months after DEQ approval</p>	<p>The facility shall design, for DEQ review and approval, a soil moisture monitoring plan for the East acreage (MU-004907). The soil moisture monitoring plan shall describe the methods and sample design employed to monitor soil moisture throughout the rooting zone at the conclusion of the growing season. The monitoring plan shall describe how the results of soil moisture monitoring will be calibrated to the soil available water capacity. Upon approval the Soil Moisture Monitoring Plan shall be incorporated into the Plan of Operation (CA-049-01).</p>
<p style="text-align: center;">Wastewater Loading Management Plan</p> <p style="text-align: center;">CA-049-08</p> <p>Due Six (6) months after permit issuance</p>	<p>The permittee shall submit, for DEQ review and approval, a wastewater loading management plan. At a minimum, the plan shall include a discussion of growing season and non-growing season management of wastewater loading to hydraulic management units. Upon DEQ approval, the Wastewater Loading Management plan shall be incorporated into the Plan of Operation (CA-049-01).</p>
<p style="text-align: center;">Lagoon Elevations</p> <p style="text-align: center;">CA-049-09</p> <p>Due three (3) months after permit issuance</p>	<p>Provide the average water surface elevation (above mean sea level) for each wastewater treatment and storage lagoon during periods of operation. The assessment shall include an updated site map identifying the location of all active wastewater storage structures and the methods used to determine the average water surface elevation. Upon completion this information shall be incorporated into the updated Plan of Operation (CA-049-01).</p>
<p style="text-align: center;">Monitoring Well 20 Management Plan</p> <p style="text-align: center;">CA-049-10</p> <p>Due twelve (12) months after permit issuance</p>	<p>The permittee shall submit for DEQ review and approval, a plan and schedule to repair, replace, or properly abandon monitoring well 20 (GW-004920). The plan shall provide a detailed assessment on the current condition of monitoring well 20. The implication of each management alternative (repair, replacement, abandonment) on the local groundwater monitoring well network shall be discussed. The final well 20 management plan shall be based on the objective of maintaining a groundwater monitoring well network for the upper unconfined water bearing aquifer in the area defined by the beet processing facility and associated wastewater treatment infrastructure.</p>

F. Permit Limits and Conditions

The permittee is allowed to apply wastewater and treat it on a reuse site as prescribed in the tables below and in accordance with all other applicable permit conditions and schedules.

Category	Permit Limits and Conditions
Type of Wastewater	Beet Sugar Manufacturing Wastewater
Application Season	Growing and Non-growing season
Growing Season	April 1 through October 31
Non-Growing Season	November 1 through March 31
Reporting Year for Annual Loading Rates	November 1 through October 31
Application Site Area	339.5 acres
Sanitary Lagoon Total Coliform Limit	The median number of total coliform organisms present in effluent discharged from the sanitary lagoon shall not exceed two and two-tenth (2.2) per one hundred (100) milliliters in any confirmed sample. Analysis shall be based on daily sampling during periods of discharge.
Hydraulic Loading Rate, Growing Season NOTE: The hydraulic limit includes wastewater and any supplemental irrigation water applied onsite.	Growing Season (GS) Hydraulic Loading Rate shall be substantially at the Irrigation Water Requirement (IWR) of the crop throughout the growing season.
Maximum Hydraulic Loading Rate, Non-Growing Season	Management Unit Serial number Inches
	Kimpton/Moore MU-004901 3.2
	Semba MU-004904 7.4
	Rocky MU-004905 3.3
	Lincoln MU-004906 7.4
East MU-004907 7.4	
Maximum COD Loading Rate	50 lb/ac-day growing season 25 lb/ac-day non-growing season

F. Permit Limits and Conditions

Category	Permit Limits and Conditions
<p>Maximum Nitrogen Loading Rate Limit, pounds/acre-year</p> <p>NOTE: includes all nitrogen sources, including waste solids and supplemental fertilizers</p>	150% of typical crop uptake (refer to definition in Section C of this permit).
Maximum Non-Volatile Dissolved Solids Loading Rate Limit (Wastewater)	3065 lb/ac-year
Runoff and Ponding Restrictions	No runoff of wastewater is allowed. The permittee shall, to the maximum extent reasonably possible, operate the land application site to prevent ponding.
Buffer Zone Requirements	At a minimum, all buffer zones must comply with local zoning ordinances. Existing buffer zones shall be maintained pending approval of the buffer zone plan required in Section E, CA-049-05.
Fencing and Posting	None required
Allowable Crops	Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed.
Grazing Restriction	No grazing is allowed without a DEQ-approved Grazing Management Plan.
Supplemental Irrigation Water Protection	For systems with wastewater and supplemental irrigation water or potable water interconnections, DEQ approved backflow prevention devices are required.

G. Monitoring Requirements

1. Appropriate analytical methods, as given in the *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 Operation and Maintenance Manual, as required by Compliance Activity No. CA-049-01 and CA-049-02 in Section E of this permit.
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. Monitoring locations are described in Appendix 1. Environmental Monitoring Serial Numbers.
5. If a DEQ approved soil sampling plan is not in place, the soil sampling procedure specified here shall be followed. Ten (10) soil sample locations shall be selected for each management unit with greater than fifteen acres and five (5) soil sample locations shall be selected for each management unit with fifteen acres or less. 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. The soil samples collected from the 0-12 inches depth interval shall be composited. Similarly, the soil samples collected at 12-24 inches shall be composited, and soil samples collected at 24-36 inches shall be composited. This method will yield three samples for analysis: one for 0-12 inches, one for 12-24 inches, and one for 24-36 inches for each soil management unit.
6. If a DEQ approved groundwater monitoring plan is not in place, the groundwater monitoring procedure specified here shall be followed. Groundwater monitoring wells shall be purged a minimum of three casing volumes or until field measurements for pH, electrical conductivity 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 groundwater.
7. Annual reporting of monitoring requirements is described in Section H, Standard Reporting Requirements.
8. Monitoring is required at the frequency shown in the table below if wastewater is applied anytime during the time period shown. Unless otherwise agreed in writing by the DEQ, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the Facility Monitoring Table as follows.

Facility Monitoring Table

Frequency	Monitoring Point	Description	Parameters
Daily	Flow meter	Flow of wastewater to each HMU	Volume of wastewater applied (million gallons and inches/acre) Compile for GS, NGS, monthly and annually
Daily	Flow meter or pump	Estimate of supplemental irrigation water to each HMU based on direct measurement or calculation performed using the specifications of irrigation equipment	Volume of supplemental water applied (million gallons and inches/acre) Compile monthly and annually.

G. Monitoring Requirements

Frequency	Monitoring Point	Description	Parameters
Annually	Each Hydraulic Management Unit	Acres used for wastewater application	Acres
Daily when discharging	Sanitary lagoon discharge	Grab sample	Total Coliform
Monthly	Effluent to Hydraulic Management Units	24 hour composite sample	Sample date, pH, Total Kjeldahl nitrogen, nitrate + nitrite nitrogen, ammonia-nitrogen electrical conductivity, chemical oxygen demand, chloride, total phosphorus, total dissolved solids, volatile dissolved solids, non-volatile dissolved solids (calculated)
Daily (first year of permit)	Process wastewater to Hydraulic Management Units (sample point WW-04901)	24 hour composite sample	Electrical conductivity (compile monthly: mean, median, minimum with date, maximum with date, standard deviation)
Monthly	Each Crop Type	Calculate irrigation water requirement	Monthly irrigation water requirement for each crop type (million gallons and inches/acre)
April and October	Groundwater Monitoring Points listed in Appendix 1	Grab sample of groundwater (See Section G, No. 6 above)	Water table elevation, depth to water, pH, dissolved iron (Fe), dissolved manganese (Mn), nitrate-nitrogen (NO ₃ -N), total dissolved solids (TDS), chloride (Cl), dissolved orthophosphate as P (EPA method 365.1)

G. Monitoring Requirements

Frequency	Monitoring Point	Description	Parameters
Within thirty (30) days of receiving a result of a nitrate-nitrogen concentration greater than the standard established by the GWQR.	Active domestic wells within a quarter (0.25) mile of the affected area and having a capture zone that potentially intersects any affected area under the direct control of the facility. Sampling is contingent on well owner approval. Based on site specific conditions, DEQ may approve predicted nitrate-nitrogen concentrations in place of actual well data.	Active domestic wells shall be sampled if a groundwater monitoring point monitoring an area under the direct control of the facility exceeds the groundwater quality standard for nitrate-nitrogen and the exceedance is determined to be degradation. The affected area shall be defined as the area that the groundwater monitoring point exceeding the nitrate standard is intended to monitor.	Nitrate-nitrogen (mg/L) For any active domestic well exceeding the standard the facility shall submit to DEQ for review and approval, a plan outlining how the nitrate-nitrogen concentrations will be addressed.
Annually	Hydraulic Management Units	Crop type and yield	Pounds/acre and total pounds/HMU (specify moisture basis)
Annually	Hydraulic Management Units	Plant tissue analysis for each harvest, composite sample from each HMU of harvested portion	Percent nitrogen, phosphorus and ash (dry mater basis). Compile annually
Annually	Hydraulic Management Units	Calculate crop nutrient removal for each crop type	Nitrogen, phosphorus, and ash removed in lbs/ac-yr and total pounds
Annually	Hydraulic Management Units	Calculate average COD loading	Chemical oxygen demand (lbs/ac-day). Compile for growing season, non-growing seasons
Annually	Hydraulic Management Units	Calculate nitrogen and phosphorus loading from wastewater application	Wastewater nitrogen and phosphorus applied in lbs/ac, compile monthly and annually
Annually	Hydraulic Management Units	Calculate nitrogen and phosphorus loading from fertilizer application	Fertilizer nitrogen and phosphorus applied in lbs/ac

G. Monitoring Requirements

Frequency	Monitoring Point	Description	Parameters
Annually	Hydraulic Management Unit	Calculate nitrogen and phosphorus loading from wastewater and fertilizer	Total nitrogen and phosphorus applied (all sources) in lbs/ac
Annually	Hydraulic Management Units	Calculate NVDS loading from wastewater application	Wastewater NVDS applied in lbs/ac, compile monthly and annually
Annually, March	Soil Management Units	Composite soil sample (see Section G, No. 5 above)	pH, electrical conductivity, nitrate-nitrogen, ammonium nitrogen, plant available phosphorus, potassium, iron (DTPA extractable), manganese (DTPA extractable)
Annually, End of Growing Season	MU-004907	Soil moisture monitoring in accordance with an approved monitoring plan	Percent soil moisture and percentage of field capacity.

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 year (see section F for reuse reporting period). The Annual Report shall include results for monitoring required in Section G, status of compliance activities, and an interpretive discussion of monitoring data (groundwater, vadose zone, 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 and in the facilities Quality Assurance Project Plan. 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 at the following address:

Twin Falls Regional Office

1363 Fillmore St.
Twin Falls, ID 83301
208-736-2190

4. Notice of completion of any work described in Section E. Compliance Schedule for Required Activities shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.
5. All laboratory reports containing the sample results for monitoring required by Section G. Monitoring Requirements of this permit shall be available for Department review upon request.

LA-000049-03	The Amalgamated Sugar Company LLC, Twin Falls Facility	Expiration Date October 5, 2016	Page 15
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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 shall 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 groundwater 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 Wastewater Reuse Permit Regulations and include seepage tests on all 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.

I. Standard Permit Conditions: Procedures and Reporting

- 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 Certification Page
Emergency 24 Hour Number 1-800-632-8000

- 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.

LA-000049-03	The Amalgamated Sugar Company LLC, Twin Falls Facility	Expiration Date October 5, 2016	Page 17
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J. Standard Permit Conditions: Modifications, Violations, and Revocations

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 58.01.17.700.02 and 03 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 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 Waste Water 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 the Department of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.
8. If, pursuant to Idaho Code 67-5 247, 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 the Department 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.

LA-000049-03	The Amalgamated Sugar Company LLC, Twin Falls Facility	Expiration Date October 5, 2016	Page 18
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Appendix 1

Environmental Monitoring Serial Numbers

HYDRAULIC MANAGEMENT UNITS

Serial Number	Description	Acres
MU-004901	Kimpton/Moore	141.3
MU-004904	Semba	73.1
MU-004905	Rocky	10
MU-004906	Lincoln	40
MU-004907	East	75.1

WASTEWATER SAMPLING POINTS

Serial Number	Description
WW-00490 1	24 hour composite sample of process wastewater to land application sites
WW-004903	Effluent discharge from sanitary lagoon
WW-004904	Condensate wastewater to land application sites

SOIL MONITORING UNITS

Serial Number	Description	Associated HMU
SU-004901	Kimpton	MU-004901
SU-004902	Rocky	MU-004905
SU-004903	Moore	MU-00490 1
SU-004905	Semba	MU-004904
SU-004906	Lincoln	MU-004906
SU-004907	East	MU-004907

LAGOONS

Serial Number	Description	Surface Area (ft ²)
LG-004901	Sanitary Lagoon	45,750
LG-004902	3-Acre Pond/Surge Pond	67,470
LG-004903	7-Acre Pond/Aeration Basin	197,200
LG-004904	North Ash Pond	28,638
LG-004905	South Ash Pond	26,352
LG-004906	Northwest Spray Pond	37,760
LG-004907	Northeast Spray Pond	63,610
LG-004908	Southwest Spray Pond	33,400
LG-004909	Southeast Spray Pond	39,620
LG-004910	Mud Ponds	281,000

Appendix 1

Environmental Monitoring Serial Numbers LAGOONS

Serial Number	Description	Surface Area (ft ²)
LG-0049 11	Condensate Pond	506,344

SURFACE WATER MONITORING POINTS

Serial Number	Description
SW-00490 1	Rock Creek upstream near southeast corner of Kimpton acreage
SW-004902	Rock Creek downstream near Eastland Road

GROUND WATER MONITORING POINTS

Serial Number	Name	Description
GW-00490 1	MW-1	Southwest corner of Lincoln acreage
GW-004903	MW-3	Southwest corner of condensate pond
GW-004904	MW-4	Northwest corner of East acreage
GW-004905	MW-5	Midwest portion of East acreage
GW-004906	MW-6	Southwest corner of East acreage
GW-004907	MW-7	North end of East acreage
GW-004908	MW-8	South end of East acreage
GW-0049 10	MW-1 0	Mideast portion of East acreage
GW-0049 13	MW-A	Northwest corner of the Moore acreage
GW-0049 14	MW- 14	Northwest of wastewater treatment and storage grounds
GW-004915	MW-B	South central portion of Kimpton acreage
GW-0049 16	MW-C	Southeast portion of Moore acreage
GW-0049 18	MW-1 8	North of lagoon and facility complex
GW-0049 19	MW-E	Northwest corner of Kimpton acreage
GW-004920	MW-20	North of 7-acre lagoon
GW-004921	MW-21	North of ash ponds
GW-004922	MW-F	Northeast corner of Kimpton acreage
GW-004923	MW-G	East of Kimpton/Moore and Semba acreage
GW-004924	MW-H	North central portion of Semba acreage
GW-004929	East Spring	Natural spring northeast of Rocky acreage
GW-004934	MW-I	South central portion of Semba acreage
GW-004935	North Spring	Natural spring northwest of processing facility grounds
GW-004937	MW-37	Northwest corner of the Lincoln acreage

