Idaho Department of Environmental Quality
Reuse Permit
I-010-06 *(Draft #2)*

(Previous Permit No. LA-000010-05)

(Note: To improve review, items highlighted in yellow are the only changes and/or additions from the original draft issued September 11, 2015)

Idahoan Foods, LLC (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 (60 months from issue date).

This Permit applies to the Idahoan Foods – Idaho Falls facility.

DRAFT PERMIT #2	**DRAFT PERMIT #2**
Signature	Date

Erick Neher

Regional Administrator
Idaho Falls Regional Office
Idaho Department of Environmental Quality

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Idaho Falls Regional Office
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1. Common Acronyms/Abbreviations and Definitions

cwt	a unit of weight measurement equal to 100 pounds
DEQ	Idaho Department of Environmental Quality
DEQ Guidance	DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision
Director	Director of the Idaho Department of Environmental Quality or designee unless otherwise specified
EPA	Environmental Protection Agency
E_i	irrigation efficiency
FM	prefix for flow measurement/monitoring location, device, or method reporting serial number
GW	prefix for ground water reporting serial number
IDAPA	Idaho Administrative Procedures Act
IDWR	Idaho Department of Water Resources
IWR	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: $IWR = P_{def} / E_i$
LG	prefix for lagoon reporting serial number
MG	million gallons
mg/kg	milligram per kilogram
mg/L	milligram per liter
MU	prefix for management unit reporting environmental serial number
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity unit
P_{def}	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 http://data.kimberly.uidaho.edu/ETIdaho/
PO	plan of operation
QAPP	quality assurance project plan
Responsible Official	is the facility contact person authorized by the permittee to communicate with DEQ on behalf of the permittee on any matter related to the permit, including without limitation, the authority to communicate with and receive notices from DEQ regarding notices of violation or non-compliance, permit violations, permit enforcement, and permit revocation.

	The Responsible Official is also responsible for providing written certification of permit application materials, annual report submittals, and other information submitted to DEQ as required by the permit. Any notice to or communication with the Responsible Official is considered a notice to or communication with the permittee. The Responsible Official may designate an Authorized Representative to act as the facility contact person for any of the activities or duties related to the permit, except signing and certifying the permit application, which must be done by the Responsible Official. The Authorized Representative shall act as the Responsible Official and shall bind the permittee as described in this definition. Designation of the Authorized Representative shall follow the requirements specified in Section 6.1.3 of the permit.
SU	prefix for soil monitoring unit reporting serial number
SW	prefix for supplemental irrigation water reporting serial number
WW	prefix for wastewater reporting serial number

2. Facility Information

Information Type	Information Specific to This Permit
Type(s) of recycled water	Industrial (Potato Processing)
Method of treatment and reuse	Slow rate land application
For public municipal systems, specify the collection and treatment system classification. See IDAPA 58.01.16.202.01.a	n/a
Facility location	6140 West River Road, Idaho Falls, ID 83221. Bonneville County. Approximately 1.5 miles north of the Idaho Falls Regional Airport between Interstate 15 and West River Road. Within T3N R37E Sections 25, 26, 35, 36.
Facility mailing address	Idahoan Foods, LLC P.O. Box 130 Lewisville, ID 83431
Facility responsible official and authorized representative	Responsible Official: Mr. Drew Facer, President & CEO. Authorized Representative: Mr. Leo Herbert, Corporate Environmental Manager Tel: (208) 754-8194, Fax: (208) 754-8193 lherbert@idahoan.com, www.idahoan.com Notify DEQ within 30 days if there is a change in personnel for any of the above facility contacts. A minor permit modification will be issued by DEQ to confirm the change.
Ground water	145 to 165 feet to the regional Snake River Plain Aquifer, south-southwest direction of flow, no perched zones or water-bearing interbeds have been detected above the regional aquifer.
Surface water	The Snake River is directly behind (east of) the production facility and approximately 1,400 feet east of the nearest reuse site (ground water flows west, away from the river). Beneficial uses: domestic water supply, agriculture, cold water biota, salmonid spawning, primary contact recreation, secondary contact recreation. The Great Western Canal is uphill and borders the northwest sides of Management Unit #2 and #3. Beneficial uses: Agriculture.

3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-010-01 Within twelve (12) months of permit issuance	**Plan of Operation (PO)**: The permittee shall submit for review and approval an updated Plan of Operation that reflects current operations, incorporates the requirements of this permit, and addresses the comments provided to Idahoan Foods in DEQ's March 27, 2014 PO review letter. The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address applicable items in the Plan of Operation Checklist provided to Idahoan Foods in the *Recycled Water Reuse Permit Application* forms dated November 12, 2014, as well as DEQ's March 27, 2014 comments provided to Idahoan Foods regarding the August 31, 2012 revision of Idahoan Food's current Plan of Operation for the Idaho Falls facility. The PO shall include the following site management plans or the permittee may submit the site management plans individually: 1. Buffer zone plan; 2. Cropping plan; 3. Emergency operating plan; 4. Grazing management plan; 5. Irrigation management and scheduling plan; 6. Nuisance and Odor management plan; 7. Runoff management plan; 8. Well location acceptability analysis; 9. Waste solids management plan; 10. Storage Lagoon Management plan. The PO shall be updated as needed 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.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-010-02 Within sixty (60) days of permit issuance	**Quality Assurance Project Plan (QAPP)**: 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. 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: 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. 2. Maps indicating the location of each monitoring, and sampling point. 3. Qualification and training of personnel. 4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee. 5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report. 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. 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.

<table>
<tr><th>Compliance Activity (CA) Number and Completion Due Date</th><th>Compliance Activity Description</th></tr>
<tr><td>CA-010-03
As specified</td><td>

Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons:

<table>
<tr><td>Lagoon:</td><td>Seepage Test Due Date:</td></tr>
<tr><td>LG-01001 Temporary Storage Pond</td><td>August 31, 2016</td></tr>
</table>

Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests <u>at least 42 days prior</u> to the planned seepage test. Guidance for developing seepage test procedures are available at: http://www.deq.idaho.gov/water-quality/wastewater/lagoon-seepage-testing.aspx The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.

Seepage tests shall be completed in accordance with the procedures approved by DEQ. The seepage test report shall be sealed by the person in responsible charge and submitted <u>within 90 days after completion</u> of the seepage test.

The leakage rate for the temporary storage pond shall be no more than zero point twenty-five (0.25) inches (1/4 inch) per day.

If the seepage test results determine the lagoon to be leaking at a rate greater than allowed, the permittee, in accordance with a schedule negotiated with and approved by DEQ, is required to:

a. Repair the leak and retest for compliance;

b. Re-line the lagoon and retest for compliance;

c. Drain the lagoon in an approved manner and stop using the lagoon;

d. Determine the impact of the leaking lagoon on the environment based on ground water sampling and modeling. The procedure for performing ground water sampling and monitoring must be approved by DEQ. Any impact must comply with IDAPA 58.01.11, “Ground Water Quality Rule,” and IDAPA 58.01.02, “Water Quality Standards.”

</td></tr>
<tr><td>CA-010-04
Twelve (12) months prior to permit expiration</td><td>**Pre-Application Workshop:** If the permittee intends to continue operating the reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application workshop to discuss the compliance status of the facility and the content required for the reuse permit application package.</td></tr>
<tr><td>CA-010-05
Six (6) months prior to permit expiration</td><td>**Renewal Permit Application:** The permittee shall submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application workshop identified in CA-010-04.</td></tr>
</table>

4. Permit Limits and Conditions

4.1 Hydraulic Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency	Maximum Acres[a] Allowed
MU-01001	Field #1 ~~(Pivot #1)~~	1 Large Pivot #1a, 1 Small Pivot #1b and associated corners with 'big-guns': (Ei = 0.80)	68.9
MU-01002	Field #2 ~~(Pivot #2)~~	1 Pivot and associated corners with 'big-guns': (Ei = 0.80)	97.5
MU-01003	Field #3 ~~(Big-Gun Field)~~	'Big-guns': (Ei = 0.55)	48.2
MU-01004	Field #4	1 Pivot: (Ei = 0.80)	20.8
		Total acreage	235.4

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	Nongrowing Season Maximum Hydraulic Loading, inches[a]
MU-01001 (Pivot #1a and associated corners)	Substantially at the irrigation water requirement (IWR)[b]	12.8
MU-01001[c] (Pivot #1b)	Substantially at the irrigation water requirement (IWR)[b] 1. Permittee shall grow a 'cover crop' and only apply supplemental irrigation at the IWR to Pivot #1b until soil nutrient concentrations are verified to be at normal agronomic levels. 2. Application of recycled water to Pivot #1b during the Growing Season shall not occur until approved by DEQ in writing.	1. Not Allowed until soil nutrient concentrations are verified to be at normal agronomic levels. 2. Application of recycled water to Pivot #1b during the Nongrowing Season shall not occur until approved by DEQ in writing. Upon approval by DEQ, the NGS Hydraulic Loading limit shall be12.8 inches.
MU-01002 MU-01003 MU-01004	Substantially at the irrigation water requirement (IWR)[b]	12.8

a. Record daily, as necessary, abnormal conditions as a result of nongrowing season application including ponding, excessive ice buildup, or runoff from the permitted site.
b. For compliance purposes, the source of P_{def} data used to calculate the IWR shall be specified in the Plan of Operation.
c. Tare dirt and 'mud' with high nutrient concentrations were added to Pivot #1b soils as part of the site expansion process. Recycled water shall not be applied to the small pivot #1b until the permittee verifies to DEQ that the nutrient status of the soils under pivot #1b have returned to normal agronomic levels. Upon DEQ approval to commence use of Pivot #1b for reuse, the entire MU-01001 shall be managed as a single, cohesive unit with one crop, one uniform irrigation schedule, and one uniform harvest schedule, See Section 5.3.2 for more information.

4.3 Constituent Loading Limits

Serial Number	Constituent Loading (from all sources)			
	Nitrogen (lb/acre)	Salt (NVDS) (lb/acre)	COD growing season (lb/acre-day)[a]	COD non-growing season (lb/acre-day)[a]
MU-01001[b] MU-01002 MU-01003 MU-01004	600	n/a	50	50

a. COD limit are expressed in pounds per acre per day (lb/acre-day) based on a seasonal average.
b. New Pivot #1b in MU-01001 shall not receive any constituent loading from recycled water, supplemental fertilizer, or any other source until the permittee verifies, and DEQ approves in writing, that the soil nutrient status has returned to normal agronomic levels. See Sections 4.2 and 5.3.2 for more information.

4.4 Management Unit Buffer Zones

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-01001 MU-01002 MU-01003 MU-01004	1,000[1]	500	300	100	50	50

1. The two Public Water Supply (PWS) wells serving Idahoan Foods are closer than 1,000, hydraulically upgradient, and deemed acceptable based on evaluation of their Source Water Assessment.
2. Buffer zones and approved buffer zone mitigation measures shall be maintained and managed in accordance with the most-recently approved Buffer Zone Plan. Any additional or new mitigation measures to reduce the buffer distances specified in Table 4.4. shall be submitted to and approved by DEQ in writing prior to installation and implementation.

4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season (GS)	April 1 through October 31 (214 days)
Nongrowing season (NGS)	November 1 through March 31 (151 days)
Reporting year for annual loading rates	November 1 through October 31
Grazing	Grazing is allowed according to the grazing management in the plan of operation (PO) approved by DEQ.
Posting	Storage Lagoon LG-01001: Signs around the perimeter of the storage lagoon should read "Wastewater Storage Facility – Keep Out" or equivalent. MU-01001, MU-01002, MU-01003, MU-01004: Posting not required.
Fencing	Storage Lagoon LG-01001: chain-link fencing. MU-01001, MU-01002, MU-01003, MU-01004: fencing not required.
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, ground water monitoring wells, or reuse facility. Inspection requirements shall be satisfied and within 30 days of completion of construction, 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.
Backflow prevention and testing requirements	Backflow prevention is required to protect surface water and ground water from an unauthorized discharge of recycled water or wastewater. Refer to section 9.1.1 of this permit.
Records retention requirements	Keep records generated to meet the requirements of this permit for the duration of permit, including administrative extensions, plus 2 years.
Storage Pond Operation	In accordance with the engineering design approved by DEQ in 2006, the 5 MG storage lagoon shall be used for wastewater storage only during the nongrowing season (NGS) to temporarily retain wastewater during the colder hours and pump to irrigation equipment during the warmer hours. Wastewater shall not be stored in the lagoon for extended periods of time during the NGS. During the growing season (GS) the lagoon shall remain empty except for emergencies.

5. Monitoring Requirements

5.1 Recycled Water and Supplemental Irrigation Water Sampling and Analyses

5.1.1 Constituent Monitoring

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
WW-01001 Recycled water from processing facility to reuse site	Recycled water to MU-01001, MU-01002, MU-01003, and MU-01004	24-hr composite/monthly (during periods of use)	- Total Kjeldahl Nitrogen, as N - Total Phosphorus, as P - Chemical Oxygen Demand - Elec. Conductivity (µmhos/cm) - Total Dissolved Solids - Volatile Dissolved Solids - Non-Volatile Dissolved Solids - pH (s.u.)

5.1.2 Management Unit and Other Flow Monitoring

Management Unit or Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Measured Parameters, each MU
FM-01001	Total Recycled water flow from processing facility to Reuse	- Daily meter readings - Monthly compilation of data	- Volume (MG/month)
FM-01002	Total Supplemental Irrigation Water from canal to Reuse	- Daily meter readings - Monthly compilation of data	- Volume (MG/month)
MU-01001 (pivot #1a and associated corners) MU-01001 (Pivot #1b, separately, until DEQ approves in writing to commence operating all of MU-01001 as a single unit) MU-01002 MU-01003 MU-01004	Recycled water flow from Processing facility to each MU.	- Daily meter readings - Monthly compilation of data	- Volume (MG/month) - Application depth (inches/month)

Management Unit or Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Measured Parameters, each MU
MU-01001 (pivot #1a and associated corners) MU-01001 (Pivot #1b, separately, until DEQ approves in writing to commence operating all of MU-01001 as a single unit) MU-01002 MU-01003 MU-01004	Supplemental irrigation water from the Great Western Canal to each MU.	- Daily meter reading - Monthly compilation of data	- Volume (MG/month) - Application depth (inches/month)

5.2 Ground Water Monitoring

5.2.1 Ground Water Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-01001	MW 1	Monitoring well	Downgradient
GW-01002	MW 2	Monitoring well	Downgradient
GW-01003	MW 3	Domestic Well at Farm Manager House	Midgradient
GW-01004	MW 4	Monitoring well	Upgradient
GW-01005	MW 5	Monitoring well	Downgradient

5.2.2 Ground Water Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sampling Point Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
GW-01001 through GW-01005	Monitoring wells	Unfiltered grab sample, Twice annually (unless otherwise specified), April and October	Field Analysis: - Water table depth (feet) - Water table elevation (feet) - Temperature (ºF) Laboratory Analysis of: - pH (std. units) - Sp. Conductivity (µmhos/cm) - Nitrate-nitrogen, as N - Total phosphorus , as P - Total Dissolved Solids - Total Iron - Dissolved Iron - Total Manganese - Dissolved Manganese
GW-01001 through GW-01005	Monitoring wells	Unfiltered grab sample, April of first and last year of permit	Laboratory Analysis of: - Chloride - Sulfate - Sodium - Potassium - Calcium - Magnesium - Alkalinity as CaCO3

5.3 Soil Monitoring

5.3.1 Soil Monitoring Unit Descriptions

Monitoring Point Serial Number	Description	Associated Hydraulic Management Unit
SU-01001	Field #1 (Pivot #1a, Pivot #1b, and associated corners)	MU-01001
SU-01002	Field #2 (Pivot #2 and associated corners)	MU-01002
SU-01003	Field #3 (“Big-Gun” fields)	MU-01003
SU-01004	Field #4 (Pivot)	MU-01004

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-01001[b]	Composite samples[a] from the area of the field consisting of existing Pivot #1a and associated corners only.	Annually, March	- pH (std. units) - Organic Matter (%) - Nitrate nitrogen, as N - Ammonium Nitrogen, as N - Plant available phosphorus, as P - Potassium, as K - Sodium Adsorption Ratio (SAR) - Elec. Conductivity (mmhos/cm) - DTPA Iron - Zinc - Chloride
SU-01001[b]	Composite samples[a] from the area of the field consisting of new Pivot #1b only.	Annually, March	- pH (std. units) - Organic Matter (%) - Nitrate nitrogen, as N - Ammonium Nitrogen, as N - Plant available phosphorus, as P - Potassium, as K - Sodium Adsorption Ratio (SAR) - Elec. Conductivity (mmhos/cm) - DTPA Iron - Zinc - Chloride
SU-01002 SU-01003 SU-01004	Composite samples[a]	Annually, March	- pH (std. units) - Organic matter (%) - Nitrate nitrogen, as N - Ammonium nitrogen, as N - Plant available phosphorus, as P - Potassium, as K - Sodium Adsorption Ratio (SAR) - Elec. Conductivity (mmhos/cm)

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

b. The permittee must independently sample the tare dirt and mud mixture added to SU-01001 under new pivot #1b and verify to DEQ that the nutrient status of this soil is at normal agronomic levels prior to recycled water application on this portion of MU-01001. Upon DEQ written approval to commence use of Pivot #1b for reuse, the entire SU-01001 shall be sampled as a single cohesive unit for the same parameters as SU-01002, SU-01003 and SU-01004 (pH, Organic matter, Nitrate nitrogen, Ammonium nitrogen, Plant available phosphorus, Potassium, Sodium adsorption ratio, and Electrical conductivity).

5.4 Crop Monitoring

5.4.1 Crop Harvest Monitoring

Associated Hydraulic Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-01001[c] MU-01002 MU-01003 MU-01004	Harvested portion, each crop, each MU	Each harvest	- Crop type - Harvest date - Sample collection date - Harvested acreage (acres) - As-harvested ('wet') yield in customary harvested units (tons, bushels, cwt, etc.). - As-harvested (field) moisture content (%) - Dry yield (lb)

a. Documentation of reported yields shall be provided for each harvest from each MU.
b. Field moisture may be determined using either an on-site drying method or a crop-calibrated moisture probe. The selected method shall be used consistently for the life of the permit. The measuring procedures and quality control requirements for the selected method shall be described in the Quality Assurance Project Plan (QAPP) required by Section 3 of this permit.
c. Track and report crop harvest monitoring of Pivot #1b separate from the remainder of MU-01001 until DEQ approves in writing to commence the use of Pivot #1b for reuse.

5.4.2 Plant Tissue Monitoring

Associated Hydraulic Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-01001[b] MU-01002 MU-01003 MU-01004	Harvested portion, each crop, each harvest	Each harvest	- Moisture content (%); -Total Kjeldahl nitrogen (%); -Nitrate nitrogen, as N (ppm) -Phosphorus as P (ppm) -Ash (%)

a. Report dry-basis results for all parameters except lab moisture content.
b. Track and report plant tissue monitoring of Pivot #1b separate from the remainder of MU-01001 until DEQ approves in writing to commence the use of Pivot #1b for reuse.

5.5 Lagoon Information

Serial number	Description	Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-01001	Recycled water storage lagoon	3	5	60 mil HDPE

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 discussion 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 for compliance purposes 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: exceedance of permit limits, 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. Laboratory analytical reports for monitoring specified in Section 5 of the permit. Chain of custody forms, supporting information for laboratory analytical reports, and quality assurance documentation shall be retained by the permittee and be available for review upon request by DEQ.
9. The parameters in the following table:

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-01001 MU-01002 MU-01003 MU-01004	Recycled water loading rate	Million gallons/month Inches/month
	Irrigation water loading rate	Million gallons/month Inches/month
	Irrigation water requirement (IWR) for each crop grown	Inches/month Inches/GS
	COD loading rate: growing season seasonal average	Pounds/acre-day
	COD loading rate: nongrowing season seasonal average	Pounds/acre-day
	Recycled water nitrogen, phosphorus, and non-volatile dissolved solids loading rates	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.	Harvest Date Crop types harvested Total harvested area (acres) Total 'wet' yield (lb, lb/acre) Total 'dry' yield (lb, lb/acre)
	Crop nitrogen, phosphorus, and ash removal rates (dry-basis) Report each harvest and the annual totals for each MU.	Pounds-N/acre Pounds-P/acre Pounds Ash/acre

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
Other Reporting Requirements: 1. Flow Meter Calibration: Within the first year of the permit, and after replacement or modification of meters and/or associated piping, Idahoan Foods shall document the flow measurement calibration of all flow meters and pumps used to directly or indirectly measure all wastewater, tail water, flushing water, and supplemental irrigation water flows applied to each MU. Submit the calibration testing and results to DEQ within the Annual Report. 2. For all MU-01001 reporting requirements, monitor and report Pivot #1b separately from the remainder of MU-01001 until DEQ approves in writing to commence use of Pivot #1b for reuse. Upon DEQ written approval to commence use of Pivot #1b for reuse, the entire MU-01001 shall be managed as a single, cohesive unit with one crop, one uniform irrigation schedule, and one uniform harvest schedule, See Section 5.3.2 for more information.		

6.1.3 Submittals

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 by the Responsible Official 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, ranking elected official, or a person of decision-making authority who can legally bind the permittee with respect to the permit.
2. Annual reports and other information required by this permit 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 all applications, annual reports, and other information required by this permit to the following DEQ regional office at this address:

Engineering Manager
Idaho Department of Environmental Quality
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402

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

> "*I certify that the information provided in this submittal was prepared in conformance with the Quality Assurance Project Plan required by permit I-010-06, and 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.*"

Permit applications shall include the following certification statement and be signed, dated, and certified by the permittee's Responsible Official:

"I certify that the information provided in this submittal 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, non-issuance of the permit, or other enforcement action as provided for under Idaho law."

Other information submitted to DEQ as required by the permit shall include the above certification statement and be signed, dated, and certified by the permittee's Responsible Official or duly Authorized Representative.

6.2 Emergency and Noncompliance Reporting

Report noncompliance incidents to DEQ's regional office at (208) 528-2650 or 1-800-232-4635.

In case of emergencies, call the emergency 24-hour number at 1-800-632-8000 and DEQ's regional office.

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

All instances of 1) permit non-compliance which may endanger public health or the environment and 2) unauthorized discharges to surface waters of the State of Idaho shall be reported to DEQ's regional office by telephone within 24 hours from the time the permittee becomes aware of the discharge at the phone numbers provided in this section.

A written follow-up shall be provided to the DEQ regional office within 5 days from the time the permittee became aware of the permit non-compliance or unauthorized discharge.

Reporting of unauthorized discharges to surface waters of the United States to the Environmental Protection Agency (EPA) may also be required. Contact information for EPA is provided below:

EPA Contact Information:
NPDES/Stormwater Coordinator, USEPA Idaho Operations Office
950 W. Bannock, Suite 900
Boise, ID 83702
(208) 378-5746 / (208) 378-5744 and EPA Hot Line (206) 553-1846

7. Permit 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 based on 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 nonpotable) or surface water, shall have backflow prevention assemblies, devices, or methods as required by applicable rule or as specified in this permit 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 regulated 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

Wastewaters 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 United States 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 may be generated by wastewater treatment processes at municipal and industrial facilities. A DEQ-approved sludge disposal plan, as outlined in IDAPA 58.01.16.650, may be required.

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 IDAPA 58.01.06, “Solid Waste Management Rules”. 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 solid 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 Reserved

9.1.8 Ground Water Quality Rule (IDAPA 58.01.11)

The permittee shall comply with the requirements of "Ground Water Quality Rule" (IDAPA 58.01.11).

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) or 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 Transferable (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

DEQ 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. Compliance with this permit does not relieve the permittee from applicable requirements in other federal, state, and local laws, statutes, and rules.

10.1 Owner 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

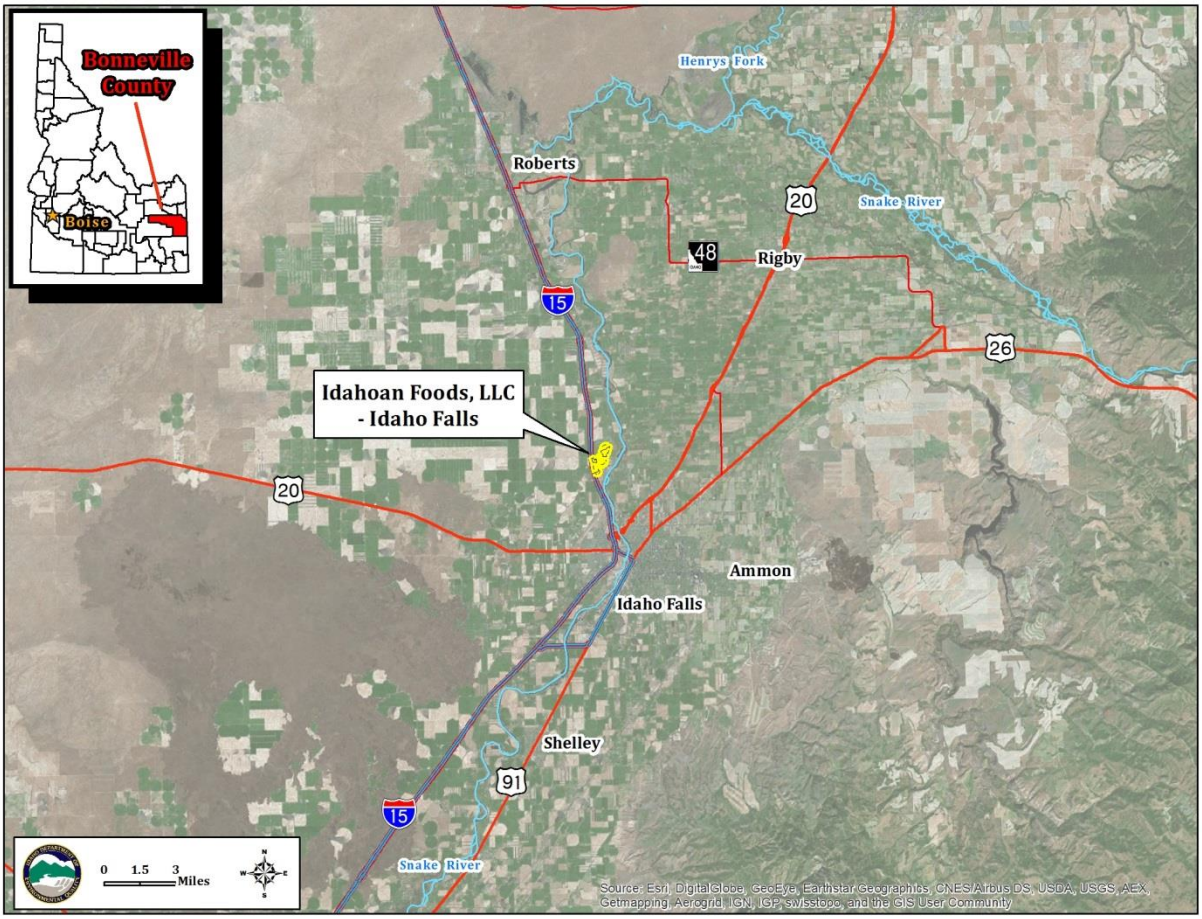
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant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

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

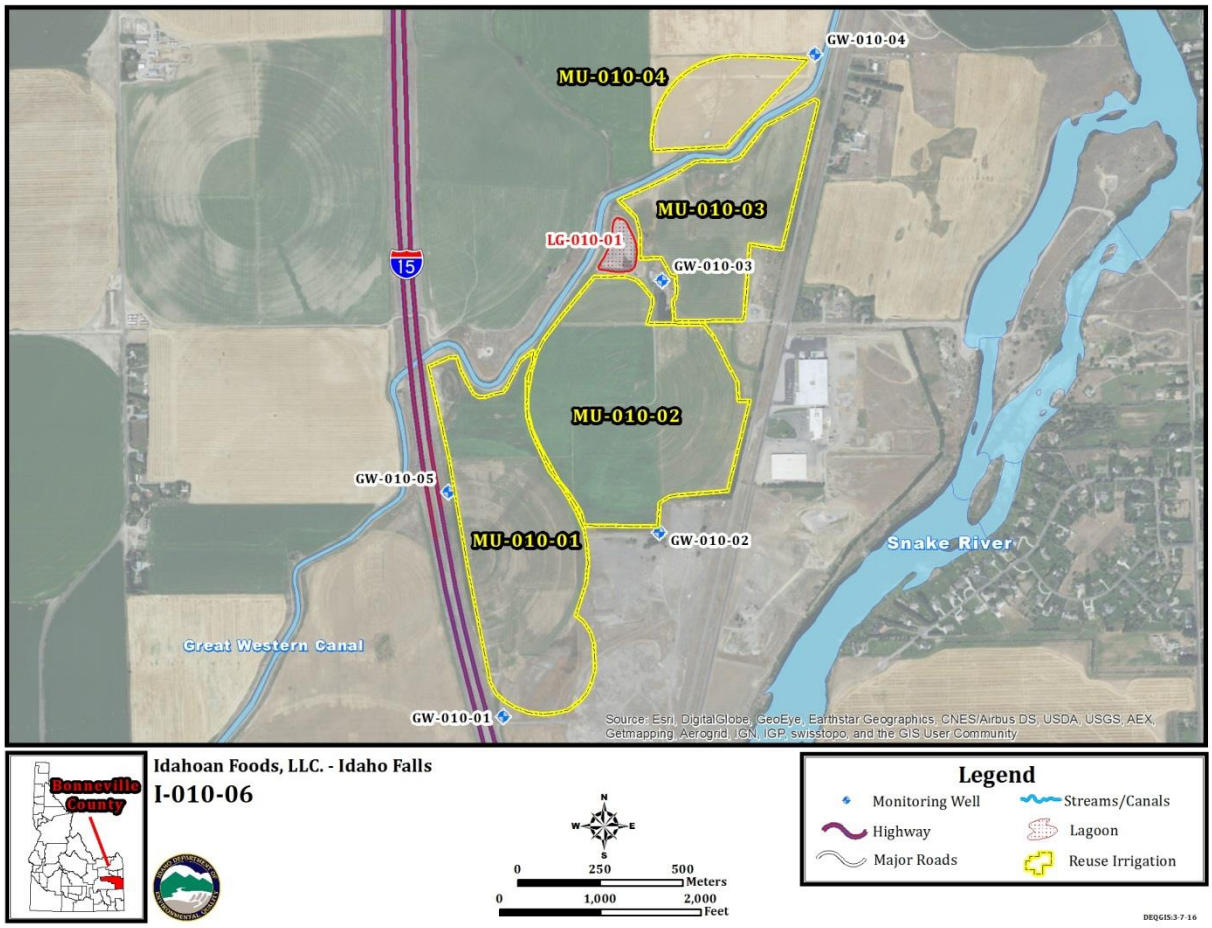
The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the IDWR director in accordance with the applicable rules. See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

11. Site Maps

11.1 Regional Map [new map]



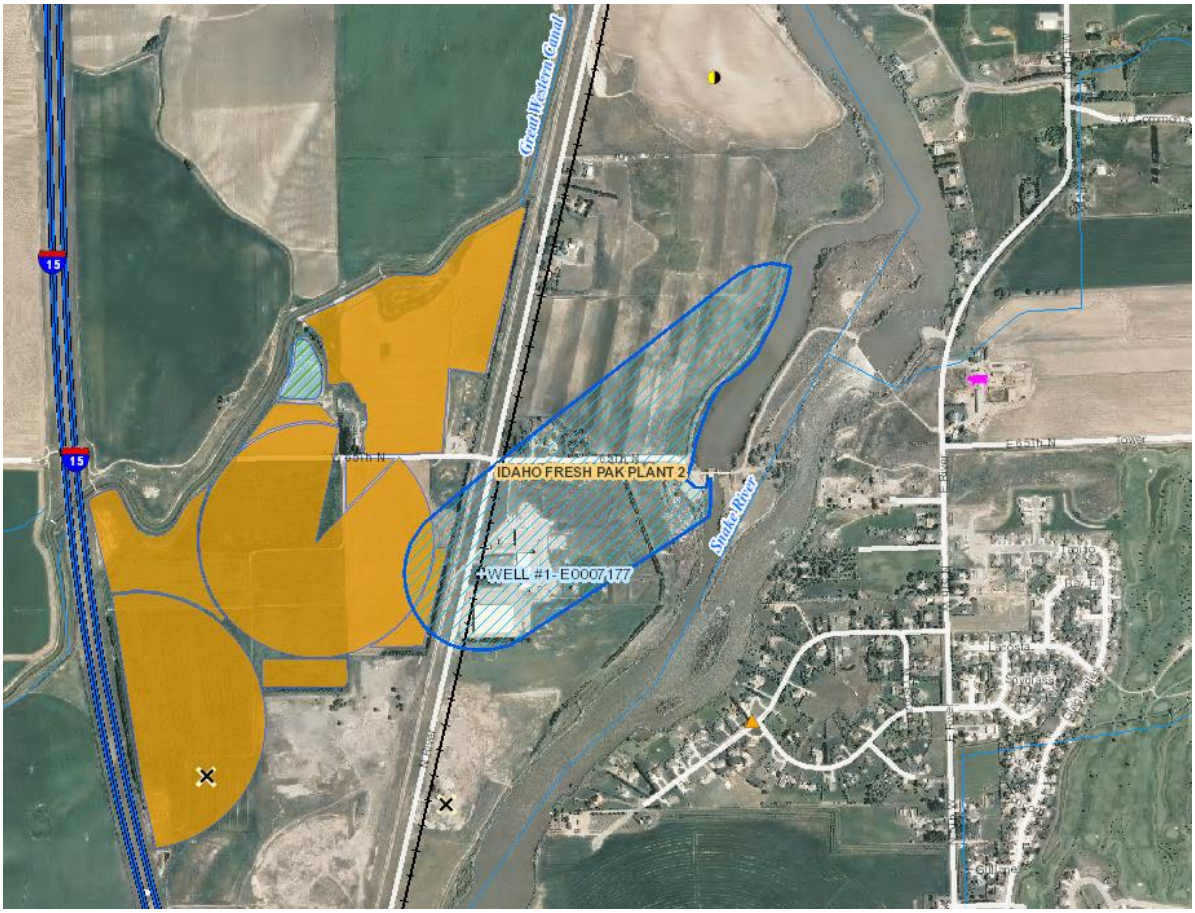
11.2 Facility Map(s) [new map]

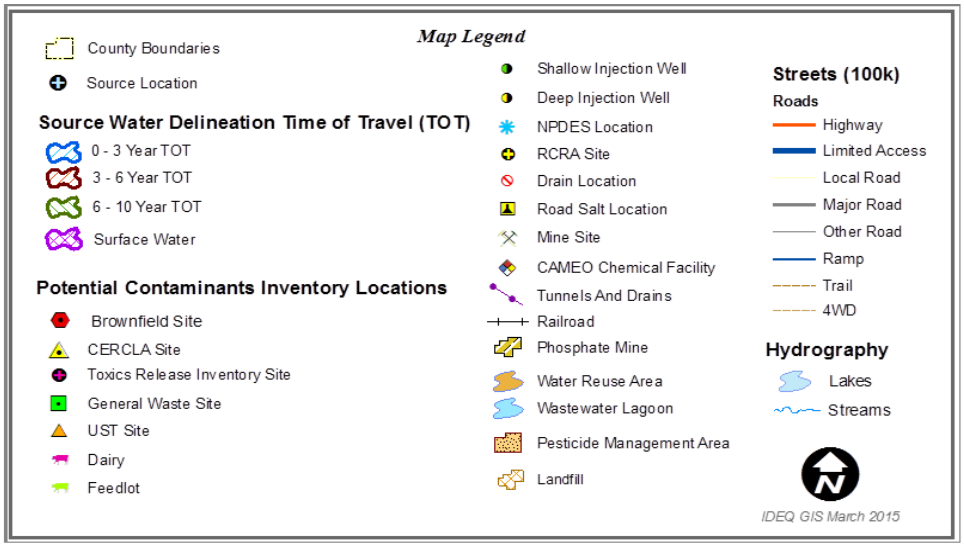


11.3 Other Maps and Figures

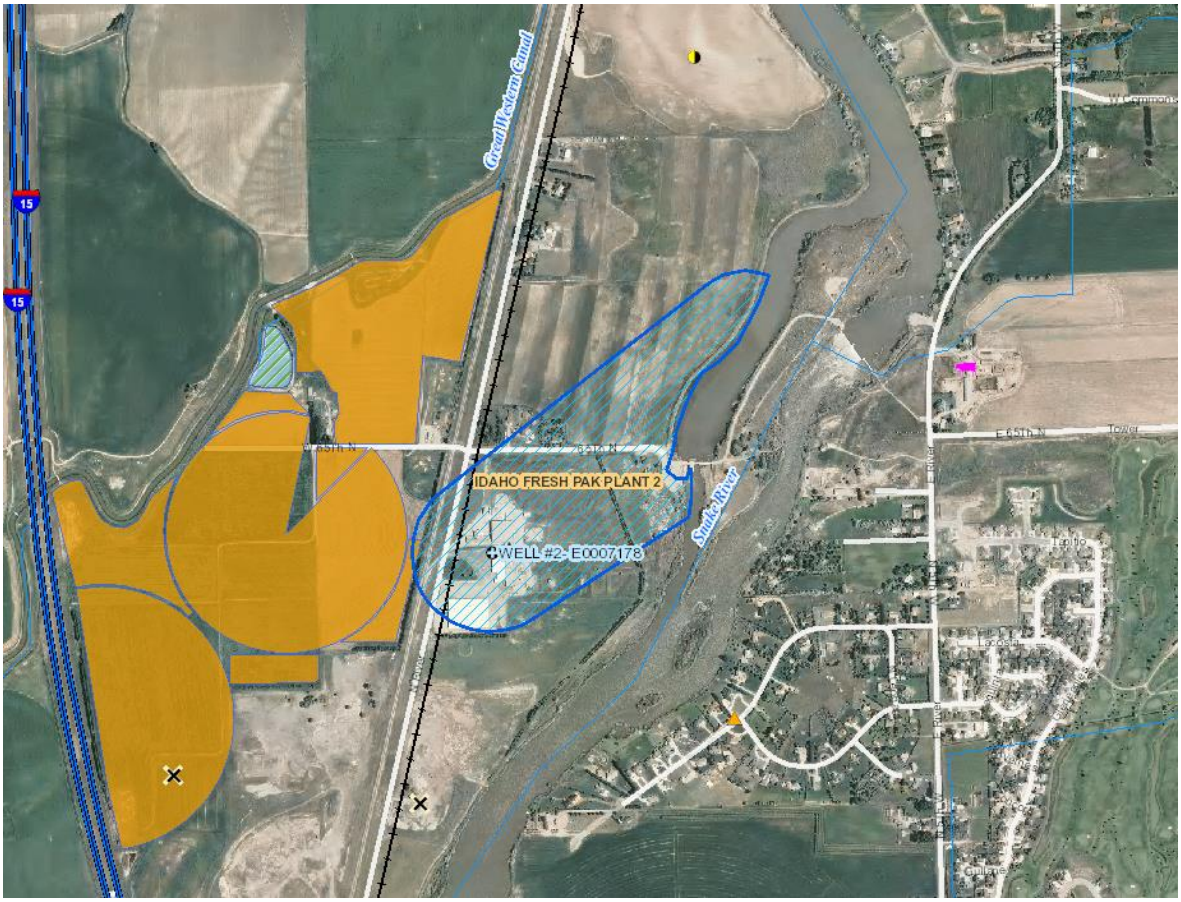
11.3.1 Idahoan Foods Main Public Water Supply Well and Estimated Capture Zone

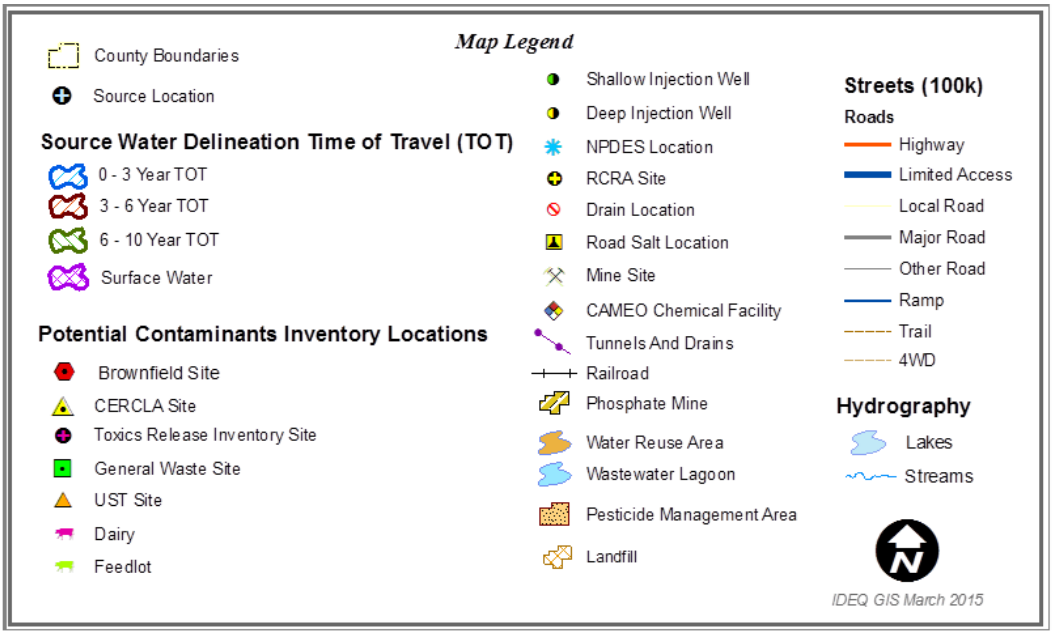
(*Source: Source Water Assessment Summary Report: Idahoan Foods Idaho Falls Plant, PWS # ID7100083. DEQ, 2001*)





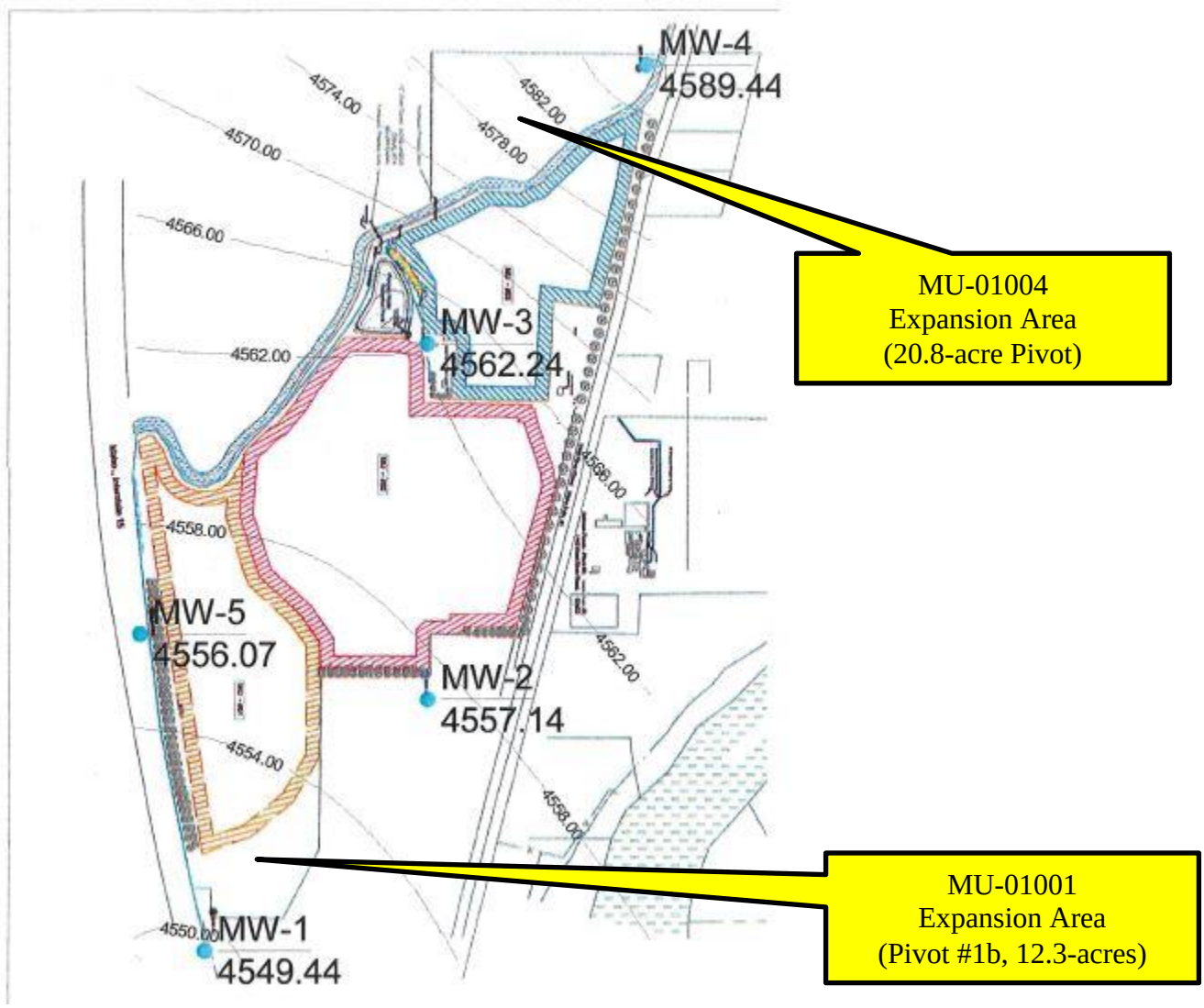
11.3.2 Idahoan Foods Backup Public Water Supply Well #2 and Estimated Capture Zone. *(Source: Source Water Assessment Summary Report: Idahoan Foods Idaho Falls Plant, PWS #ID7100083. DEQ, 2001)*.



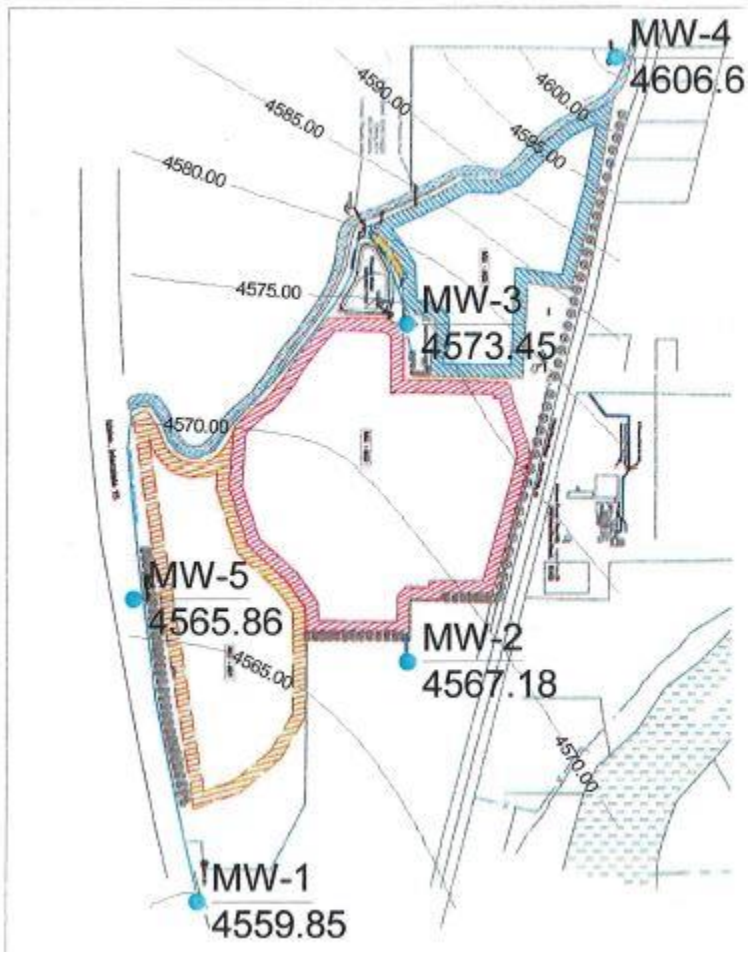


11.3.3 Ground Water Contour Maps

May 2014:



July 2014: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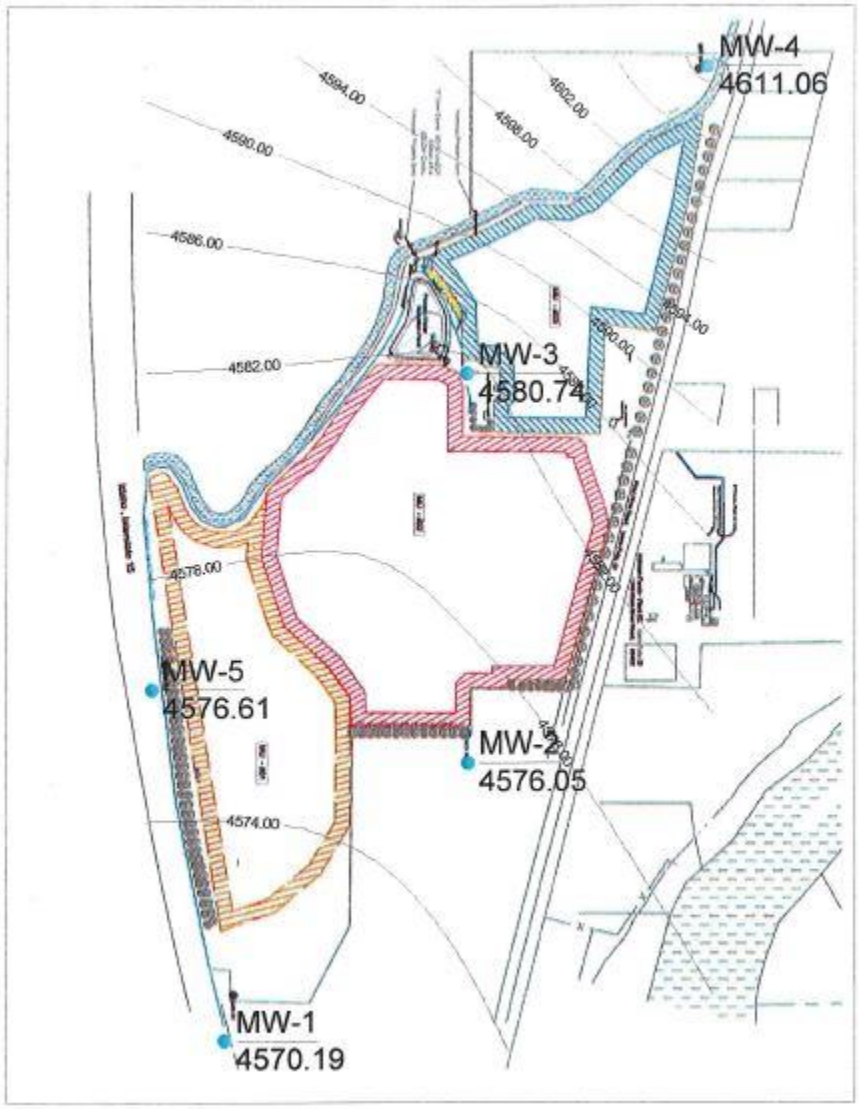
October 2014: