



December 3, 1998

**CERTIFIED RETURN RECEIPT # P 241 839 373**

Mr. Paul Sharp  
IBP, inc.  
P.O. Box 515, Mail Drop 130  
Dakota City, Nebraska 68731

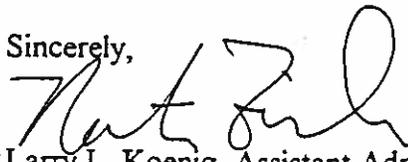
**SUBJECT: IPB, inc. --- Issuance of Final Wastewater-Land Application Permit No. LA-000055-03  
(Industrial Wastewater)**

Dear Mr. Sharp:

DEQ is issuing the above referenced Wastewater-Land Application permit. The enclosed document is your official copy of the permit and demonstrates that you are authorized to operate the wastewater-land application facility subject to certain specified requirements. In preparing this final permit, we considered your comments and the public comments equally. A copy of DEQ's response to public and IBP comments received on the October 8, 1998 *draft* permit is enclosed for your information. The issuance of this permit in no way affects DEQ's ability to initiate enforcement actions for non-compliance with permit conditions, both past and future.

Your permit is issued effective as of midnight December 3, 1998 and expires at midnight on December 3, 2003.

Sincerely,

  
for Larry L. Koenig, Assistant Administrator  
Water Quality & Remediation

LLK/NB/H:\DATA\WP61\NANCY\LAND.APPLA-55-03\PERM\GTCV.LTR

Enclosures: Response to Comments  
WLAP Permit LA-000055-03

cc: Nancy Bowser, DWWB  
Gary O'Donnell, Boise IBP  
Andrew Helmlinger, AG's Office  
Steve West, Boise Regional Office  
Kevin Beaton, Stoel Rives, LLP  
Kim Dirks, IBP  
RF

Lance Nielsen, DWWB  
Joe Baldwin, WAPB  
WLAP Source File no. LA-000055-03  
Larry Peterson, Boise Regional Office  
Doug Conde, AG's Office  
Keith Tingelhoff, IBP



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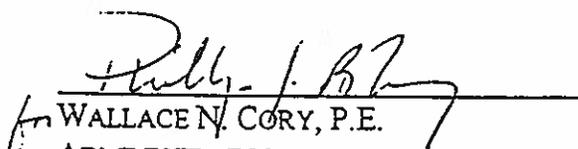
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# WASTEWATER-LAND APPLICATION PERMIT

IBP, inc.

LA-000055-03

IBP, inc. LOCATED AT P.O. Box 9346 Boise, Idaho 83707 AND in Ada County  
Township 1N Range 2E Section 6, 7, 18, 19 and Township 2N Range 2E Section 31  
IS HEREBY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A  
WASTEWATER-LAND APPLICATION TREATMENT SYSTEM IN  
ACCORDANCE WITH THE WASTEWATER-LAND APPLICATION RULES  
(IDAPA 16.01.17) AND THE WATER QUALITY STANDARDS AND  
WASTEWATER TREATMENT REQUIREMENTS (IDAPA 16.01.02), THE  
GROUND WATER RULE (IDAPA 16.01.11), AND ACCOMPANYING PERMIT  
APPENDICES AND ATTACHMENTS. THIS PERMIT IS EFFECTIVE FROM  
THE DATE OF SIGNATURE AND EXPIRES ON DECEMBER 3, 2003.  
date

  
for WALLACE N. CORY, P.E.  
ADMINISTRATOR  
IDAHO DIVISION OF ENVIRONMENTAL QUALITY

SIGNED THIS 3<sup>rd</sup> DAY  
OF DECEMBER, 1998

DIVISION OF ENVIRONMENTAL QUALITY  
1410 N. Hilton, Boise, Idaho 83706-1255  
(208) 373-0502

POSTING ON SITE RECOMMENDED

## B. Permit Contents, Appendices and Attachments

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### Appendices

1. Environmental Monitoring Serial Number	23-28
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### Attachments

- I. Plan of Operation
- II. Site Monitoring Strategy

The Sections, Appendices, and Attachments listed on this page are all elements of Wastewater-Land Application Permit LA-000055-03 and are enforceable as such. This permit does not relieve IBP, inc., hereafter referred to as the Permittee, from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

### C. Facility Information

<b>Legal Name of Permittee</b>	IBP, inc. (commonly referred to as Iowa Beef Processors, inc.)
<b>Type of Waste to be Land Applied</b>	Beef processing wastes and wastewater
<b>Method of Treatment</b>	Slow Rate Wastewater Land Application Treatment System consisting of dissolved air flotation pretreatment followed by an anaerobic pond, then an aerobic pond and finally either to storage or to land irrigation of wastewater through a combination of center pivots or wheel lines.
<b>Type of Facility</b>	Beef Slaughtering
<b>Domestic Sewage System</b>	Originally permitted as part of wastewater-land application system. Effective with issuance of this permit, IBP, inc.'s domestic wastewater must be treated per conditions of this permit.
<b>Domestic Water Supply System</b>	Non-transient non community water supply system serving 300-325 individuals
<b>Facility Location</b>	1.5 miles south of Kuna Mora Road on the east side of South Cole Road (18300 S Cole Road)
<b>Legal Location</b>	T1N, R2E, Sec 6, 7, 18, 19 and T2N R2E Sec 31
<b>County</b>	Ada
<b>Total Acres Irrigated with Wastewater</b>	826 acres
<b>USGS Quad</b>	Mora
<b>Soils on Site</b>	Kunaton silty clay loam, Colthrop silt loam, Kunaton-Sebree silty clay loam and Elijah silt loam, bedrock substratum
<b>Seasonal High Ground Water</b>	Fluctuates 2-3 feet on a seasonal basis from regional aquifer depth
<b>Depth to Regional Aquifer</b>	287- 336 feet according to Site Monitoring Strategy, Table B-1
<b>Beneficial Uses of Ground Water</b>	Drinking water, irrigation for agriculture, industrial
<b>Nearest Surface Water</b>	Indian Creek

C. Facility Information (continued)

<b>Beneficial Uses of Surface Water</b>	<b>Irrigation for Agriculture</b>
<b>Facility Contact Person</b> <b>Mailing Address</b> <b>Phone/Fax Number</b>	<b>Boise Plant:</b> Gary O'Donnell, Plant Manager IBP, inc., P.O. Box 9346, Boise, 83707 208-345-6660 <b>Corporate:</b> Keith Tingelhoff, Vice President IBP, inc. P.O. Box 515, Dakota City, NE 68731 402-241-2646

## D. Site Specific Permit Conditions

The Permittee is allowed to apply wastewater and treat it on a land application site as prescribed in the table below and in accordance with all other applicable permit conditions and schedules.

Category	Permitted Conditions
Type of Wastewater	Industrial wastewater from beef processing
Method of Treatment and Process Description	Dissolved air flotation pretreatment followed first by an anaerobic lagoon and then an aerobic lagoon prior to being land applied or stored. Wastewater shall be stored during the non-growing season in the 100 million gallon storage lagoon.
Total Acres Irrigated with Wastewater	826 acres: South Land Application Site - 313 acres, Central Land Application Site - 205 acres, and North Land Application Site - 308 acres
Application Season/Growing Season (GS)	March 15 to October 31 (231 days)
Non-Growing Season (NGS)	November 1 to March 14 (134 days)
Estimated Wastewater Production	165 MGA -292 MGA
Maximum Wastewater Hydraulic Loading for Growing Season	Annual irrigation water requirement as per 1994 Technical Interpretive Supplement, page IV-6, for each management unit.
Maximum Hydraulic Loading for Non-growing Season	<p>Center Pivot 1N = .44 ac-in/acre (1.4 MG/MU*)                      Center Pivot 2N = 1.25 ac-in/acre (.88 MG/MU)                      Center Pivot 3N = .59 ac-in/acre (1.82 MG/MU)                      Center Pivot 4N = 1.06 ac-in/acre (1.43 MG/MU)                      Center Pivot 1C = 1.44 ac-in/acre (2.34 MG/MU)                      Center Pivot 2C = .59 ac-in/acre (1.86 MG/MU)                      Wheel Lines 1 &amp; 2 = 4.71 ac-in/acre (3.77 MG/MU)</p> <p>No wastewater shall be applied to any South Land Application Site Management Units during the non-growing season</p> <p>*MU = management unit</p>

D. Site Specific Permit Conditions (continued)

Category	Permitted Conditions
<b>Maximum COD Loading Rate for Wastewater and Waste Solids</b>	1500 lbs/acre/month/hydraulic management unit or 50 lbs/acre/day/hydraulic management unit (one month average)
<b>Growing Season and Non-growing Season Nitrogen Loading Rate for Wastewater and Waste Solids</b>	maximum of 150% consumptive crop uptake for alfalfa and wheat on all acreage. Corn will follow alfalfa on all acreage according to approved crop rotation schedule. Nitrogen applied to corn must be reduced 25% to allow for alfalfa "plowdown"
<b>Total Dissolved Solids (TDS) Loading Rate for Growing and Non-growing Season</b>	See CA-055-15 in Section F, Compliance Schedule for Required Activities
<b>Buffer Zones &amp; Setbacks</b>	<p>minimum distance between physical land application site and inhabited dwellings = 500 feet,</p> <p>minimum distance between physical land application site and public access = 50 feet</p> <p>minimum distance between Indian Creek Channel and wastewater land application site = 50 feet</p>
<b>Distance to Public Drinking Water Well(s)</b>	minimum distance = 1000 feet
<b>Distance to Private Domestic Wells</b>	minimum distance = 500 feet
<b>Distance to Irrigation Wells Located on North Land Application Site</b>	minimum distance between irrigation well casing and area where wastewater is physically applied = 50 feet
<b>Grazing Requirements</b>	No grazing allowed during growing or non-growing season. No fall clean up grazing allowed.
<b>Crop Rotation Plan</b>	<p>-- 5 to 7 year crop rotation with three - five years alfalfa, followed by 1 year corn, followed by 1 year wheat</p> <p>-- Crop rotation shall be done by individual management unit (MU)</p> <p>-- No field may be in alfalfa &gt; 5 years.</p>

D. Site Specific Permit Conditions (continued)

Category	Permitted Conditions
Posting Requirements	Signs that read <i>'Irrigated with Reclaimed Wastewater-Do Not Drink'</i> or equivalent shall be posted every 500 feet and at each corner of the outer perimeter of the buffer zone(s) of the North and Central Land Application Sites.
Non-growing Season Storage	Facility shall maintain 100 MG storage lagoon to store wastewater in during non-growing season
Minimum Treatment Limit for Combined Domestic & Industrial Wastewater (Effective November 30, 1998 - October 31, 1999)	Combined domestic (sanitary) and industrial wastewater shall receive, as a minimum, secondary treatment prior to being irrigated upon any portion of the land application site.
Disinfection and Total Coliform Limit for Domestic Wastewater Upon Entry Into Industrial Wastewater (Effective November 1, 1999)	Domestic (sanitary) sewage shall be treated and disinfected so Total Coliform does not exceed 23 organisms/100 ml ① prior to entering industrial wastewater.
Emergency Wastewater Plan	As stated in the Plan of Operation

① Bacteria count represents the Total Coliform bacteria as a median of the last seven (7) days of bacteriological sampling for which analysis has been completed.

## E. Monitoring Requirements

- 1) The permittee shall monitor the operation and efficiency of all treatment facilities through the monitoring and measuring of parameters as per the final approved Site Monitoring Plan and as stated in the Facility Monitoring Table in this section.
- 2) The compliance monitoring points and the compliance monitoring standards shall be as stated in the Compliance Monitoring Table in this section.
- 3) Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
- 4) Appropriate analytical methods, as given in the *1994 Technical Interpretive Supplement*, or as approved by the Department, shall be employed.
- 5) A description of approved representative locations for sample collection, approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the facility's Plan of Operation.
- 6) Unless otherwise agreed to in writing by the Department, data collected and submitted shall include, but not be limited to, the parameters and frequencies in the following table.
- 7) The monitoring wells shall be purged a minimum of three (3) casing volumes prior to obtaining a sample of the ground water. The depth to water or static water level shall be measured prior to pumping or sampling the ground water. A dedicated pump must be used in each monitoring well for monitoring purposes or, if a portable pump is used, it must be cleaned and sanitized prior to each use.
- 8) Each soil monitoring unit shall be sampled at three different depths: 0"-12", 12"-24", and 24"-36", or until refusal due to bedrock if encountered before 36", with 15 subsamples being collected at each depth for management units over 100 acres in size and 10 subsamples being collected at each depth for management units under 100 acres in size. The subsamples from each depth in each management unit will be composited to yield three (3) composite samples for analysis.

E. Monitoring Requirements (continued)

Facility Monitoring Table

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Daily	Application Site Flow Meter at each Wheel Line or Center Pivot	Recordation of flow meter reading from each operating wheel line or center pivot	Volume (millions gallons/day)
Daily	Application Site Flow Meter at each Wheel Line or Center Pivot	Visual observation of proper operation of each flow meter, wheel line and center pivot	Record any maintenance necessary
Daily	Irrigation well flow meter	Supplemental irrigation water loading rate for each management unit	Volume (gallons)
Weekly	Management Unit	Wastewater applied to the land by computing gallons per acre into acre-inches per acre	Calculation (acre-inches/acre)
Weekly (when aerobic pond is being pumped for land application)	Irrigation pump station for effluent leaving aerobic pond	Grab sample of wastewater	Chemical Oxygen Demand (COD), electrical conductivity (EC), total kjeldahl nitrogen (TKN), nitrate-nitrite-nitrogen, ammonium nitrogen, total suspended solids, pH, total phosphorus (plant available), sodium, and chloride

E. Monitoring Requirements (continued)

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Monthly (when storage pond is being discharged for land application)	Irrigation pump station for effluent leaving storage pond	Grab sample of wastewater	Chemical Oxygen Demand (COD), electrical conductivity (EC), total kjeldahl nitrogen (TKN), nitrate-nitrite-nitrogen, ammonium nitrogen, total suspended solids, pH, total phosphorus (plant available), sodium, chloride, total dissolved solids, volatile dissolved solids, total coliform (actual number), and fecal coliform (actual number)
Monthly (when aerobic pond is being pumped for land application)	Irrigation pump station at aerobic pond	Grab sample of wastewater	total dissolved solids, volatile dissolved solids, total coliform (actual number), and fecal coliform (actual number)
Monthly	Each Management Unit	Total nitrogen (TKN + nitrite + nitrate) loading from wastewater	Calculations (pounds/acre)
Monthly (when applied)	Each Waste Solid Process Unit	Waste solids (lagoon sludge, animal pen manure and grit and any emergency application of paunch manure) applied to land surface	ammonia-nitrogen, total kjeldahl nitrogen, nitrate-nitrogen, total suspended solids and plant available phosphorus
Monthly	Each Management Unit	Total nitrogen (TKN + nitrite + nitrate) loading from waste solids and any other supplemental sources of nitrogen as N	Calculations* (pounds/acre)  * Calculations for any emergency applications of paunch to be listed separately

E. Monitoring Requirements (continued)

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Monthly	Storage Pond	Wastewater lagoon depth by visual observation, wastewater volume by computation	Depth (feet), Volume (gallons)
Quarterly (January, April, July, October)	Ground Water Monitoring Wells GW-005510, GW-005509, GW-005508 and GW-005501 (designated up-gradient wells) and Ground Water Monitoring Wells GW-005504, GW-005505, GW-005506 and GW-005507 (designated down-gradient wells)	Grab sample of groundwater	static water level, specific conductivity, total coliform, standard plate count, chloride, total dissolved solids, nitrate, iron, manganese, COD, and standard ions** (sodium, potassium, calcium, magnesium, sulfate, CO <sub>3</sub> and HCO <sub>3</sub> )  **standard ions shall be monitored January 1999, January 2001 and January 2003
Semi-Annual (April & Sept)	Central Land Application Site and North Land Application Site Soils with non-growing season application	Composite soil samples taken prior to crop growth in spring and after final harvest in fall	nitrate-nitrogen, ammonium-nitrogen, total kjeldahl nitrogen, chloride, sodium adsorption ratio (SAR), electrical conductivity (EC), percent organic matter, DTPA-Iron, and DTPA-Manganese, cation exchange capacity (CEC)***, plant available phosphorus***, soil texture***  ***soil texture, CEC and plant available phosphorus to be collected one time only in March 1999

E. Monitoring Requirements (continued)

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Annual (April)	South Land Application Site Soils, and Central and North Land Application Site Soils with no non-growing season application	Composite soil samples taken after final harvest in fall	nitrate-nitrogen, ammonium-nitrogen, total kjeldahl nitrogen, chloride, sodium adsorption ratio (SAR), electrical conductivity (EC), percent organic matter, DTPA-Iron, and DTPA-Manganese, cation exchange capacity (CEC) <sup>***</sup> , plant available phosphorus <sup>***</sup> , soil texture <sup>***</sup>  ***soil texture, CEC and plant available phosphorus to be collected one time only in March 1999
Annual (at harvest)	Plant Tissue Monitoring from one representative field for each crop	Plant tissue of each crop grown	nitrate-nitrogen, total kjeldahl nitrogen, ash content, percent moisture, crop yield <sup>^^</sup> and total nitrogen removed from 1 <sup>^</sup> application site at harvest lbs/acre <sup>^^</sup>  ^^Obtain these results by calculations ^^Multiply nitrogen concentration in harvested commodity by yield in appropriate units to get pounds of total nitrogen removed

E. Monitoring Requirements (continued)

Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Annually (when water is present)	Surface Water Monitoring of North and Main Indian Creek Channels -- collect one sample up gradient and one sample down gradient from WLAP site channels where surface water is present	Grab sample of surface water	total dissolved solids, total coliform (actual number), nitrate-nitrogen, total phosphorus and chemical oxygen demand (COD)

Compliance Monitoring Table

Compliance Monitoring Points	Compliance Monitoring Standards
down gradient ground water monitoring wells GW-005504, GW-005505, GW-005506 and GW-005507	Those limits set forth in IDAPA 16.01.11.200. a, b, and c.

The reporting of monitoring results is described in Section G. Reporting Requirements.

## F. Compliance Schedule For Required Activities

- 1) The Activities in the following table shall be completed on or before the Completion Date unless modified by the Department in writing.
- 2) The final Plan of Operation (CA-055-13) scheduled for completion by November 1, 1999, must incorporate by reference the operation and maintenance sections from the Plans and data identified in the table below as CA-055-05, CA-055-14, and CA-055-15.

Compliance Activity Number Completion Date	Compliance Activity Description
CA-055-01  December 31, 1998	IBP shall submit to DEQ a report stating the dates of storage lagoon discharges after July 1, 1998 and before December 31, 1998, the quantity of discharges on each respective date, the total discharge volume from the holding pond after July 1, 1998 and the hydraulic management unit within the wastewater land application site to which wastewater was applied on respective dates.
CA-055-02  March 15, 1999	IBP shall have completed the installation of the irrigation force mains approved by DEQ to convey wastewater for land application from the aerobic lagoon to the North and Central Land Application Sites.
CA-055-03  March 30, 1999	IBP shall install and monitor two down gradient groundwater monitoring wells for the purpose of determining any impacts on groundwater from the North and Central Land Application Sites. The wells shall be located one each on the North and Central Land Application Sites in locations jointly approved by the permittee's hydrogeologist and DEQ's hydrogeologist. The two wells shall be installed in accordance with the final approved Site Monitoring Strategy. The wells shall be installed and sampled at least 30 days prior to any land application of wastewater on the respective sites to determine background constituent levels. The "background" sampling event shall include analysis of the following constituents: specific electrical conductivity, chloride, total dissolved solids (TDS), nitrate, iron, manganese, Chemical Oxygen Demand (COD), sodium, potassium, calcium, magnesium, sulfate, carbonate, bicarbonate, total coliform (in actual numbers), and standard plate count (in actual numbers). IBP shall submit a technical report to DEQ within 60 days of completion of groundwater monitoring wells MW-3 and MW-4 documenting the construction of monitoring wells MW-3 and MW-4 and the results of the background groundwater quality monitoring

F. Compliance Schedule For Required Activities (continued)

Compliance Activity Number Completion Date	Compliance Activity Description
CA-055-04 April 1, 1999	The permittee shall submit a copy of the completed, approved transfer of water rights from the Idaho Department of Water Resources that will allow supplemental irrigation water to be transferred from the North and South Land Application Sites to the Central Land Application Site. The permittee shall also submit a complete list of water rights for all portions of property under IBP ownership.
CA-055-05 April 1, 1999	The permittee shall submit a Waste Solids Management Plan for review and approval by the Department. The plan shall address the management of all waste solids associated with wastewater treatment processes to demonstrate that Section F.- Site Specific Conditions requirements for waste solids is being fulfilled. This plan is appropriate whether waste solids are treated and disposed: on the entire 826 acre site or on a dedicated site located within the 826 acre wastewater-land application site. If the permittee removes waste solids to an off site location as the management plan, then the permittee shall notify the Department of how waste solids are to be managed. Upon approval by the Department, this plan shall be incorporated by reference into this permit and shall become an enforceable part of this permit. The permittee shall not manage the waste solids except as consistent with the Waste Solids Management Plan approved by the Department.
CA-055-06 January 15, 1999 to April 1, 1999	IBP shall separate of the domestic wastewater from the industrial wastewater by submittal of a specific process design, engineering report and plan and specifications of the specific process design in accordance with the following schedule: 1) IBP submits final engineering report on specific process design by January 15, 1999, 2) IBP submits final plan and specifications for specific process design by April 1, 1999. The standard DEQ review and comment time frame for engineering plan and specifications is 30 days following submittal.
CA-055-07 April 30, 1999	The permittee shall install new sprinkler systems on the South, North and Central Land Application Sites in accordance with the site plan in Appendix 2 of this permit.

F. Compliance Schedule For Required Activities (continued)

Compliance Activity Number Completion Date	Compliance Activity Description
<p>CA-055-08 April 30, 1999</p>	<p>The permittee shall modify the existing sprinkler systems on the South, North and Central Land Application Sites in accordance with DEQ approved submittal dated 7/30/98 and the site plan in Appendix 2. IBP shall complete construction of surface sealing around the irrigation well located in MU-005511 in accordance with DEQ approved submittal dated 5/6/98. The permittee shall properly abandon any open or inactive production wells or injection wells located inside of or within fifty (50) feet of the perimeter of any hydraulic management unit. Well abandonment must be completed consistent with the Rules of the Idaho Department of Water Resources.</p>
<p>CA-055-09 May 1, 1999</p>	<p>IBP shall commence land application of facility wastewater to the South, North and Central Land Application Sites in accordance with the provisions of this permit.</p>
<p>CA-055-10 June 1, 1999</p>	<p>Submit written documentation that irrigation well surface sealing and well abandonment were completed within the scheduled completion date and in accordance with appropriate plans and requirements.</p>
<p>CA-055-11 August 1, 1999</p>	<p>The permittee shall submit to the Department seepage test data for existing structures, obtained in accordance with approved specifications, to verify all earthen wastewater storage and treatment structures. do not exceed the seepage rates of 0.25 inches per day.</p>
<p>CA-055-12 November 1, 1999</p>	<p>IBP shall submit to DEQ written documentation that the separation of the domestic and industrial wastewater effluent or pretreatment of domestic wastewater effluent is complete. The written documentation shall include verification that: 1) the installation of an appropriate domestic wastewater treatment system is complete, 2) the domestic wastewater treatment system is operational, and 3) appropriate reviewing agency or authority has granted any required approval(s).</p>

F. Compliance Schedule For Required Activities (continued)

Compliance Activity Number Completion Date	Compliance Activity Description
<p>CA-055-13 November 1, 1999</p>	<p>Complete a final plan of operation based on actual day to day operations to replace the original plan of operation submitted during the application process. The final plan of operation shall include a section that addresses management of nuisance conditions and nuisance odors for the Boise site. The nuisance section shall explain management and operational strategies whereby nuisance conditions such as insect breeding and nuisance odors will be prevented from occurring and abated if nuisances develop or recur. Upon approval by the Department, the final land application plan of operation shall be incorporated by reference into this permit and shall be enforceable as a part of this permit. The final plan of operation shall be implemented upon approval by the Department or by April 1, 2000, whichever date is sooner.</p>
<p>CA-055-14 November 1, 1999</p>	<p>Submit a plan and schedule to the Department for review and approval which includes either repairs, replacement or proper abandonment of wastewater storage and treatment lagoons which did not meet the seepage requirements as specified in CA-055-11 above. Upon approval by the Department, this plan shall become part of the facility plan of operation and shall be incorporated by reference into this permit and become an enforceable part of this permit. The plan for repair and/or replacement of lagoons shall be implemented upon approval by the Department or by April 1, 2000, whichever date is sooner.</p>
<p>CA-055-15 April 15, 2000</p>	<p>The permittee shall submit a TDS Management Plan to the Department for review and approval. This plan shall 1) identify sources of TDS in all waste streams; 2) evaluate the technical and economic feasibility of isolation or removal of TDS in said waste streams; 3) propose management strategies and schedule so that TDS loading to the WLAP acreage is minimized and TDS impacts to ground water are minimized, 4) use methods approved by the Department to determine TDS and non volatile dissolved solids ( NVDS) loading rates, and 5) develop loading rates for TDS and NVDS that will protect beneficial uses of the groundwater. Upon approval by the Department, this plan shall be incorporated by reference as a part of this permit and shall be enforceable as a part of this permit. The TDS plan shall be implemented upon Department approval or by October 15, 2000, whichever date is sooner.</p>

F. Compliance Schedule For Required Activities (continued)

Compliance Activity Number Completion Date	Compliance Activity Description
CA-055-16 April 1, 2003	Meet with Department for pre-application conference. Submit application package of information to Department for permit renewal.

The reporting of Activities is described in Section G. Reporting Requirements.

## G. Reporting Requirements

- 1) The permittee shall submit an Annual Wastewater-Land Application Site Performance Report ("Annual Report") no later than January 31 of each year which shall cover the previous calendar year from November 1 through October 31. The Annual Report shall include an interpretive discussions of monitoring data (ground water, vadose zone, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility. The report shall include the name, telephone number and any respective credentials of the individual preparing the report.
- 2) The required monitoring is described in Section E. Monitoring Requirements. All monitoring data analyzed by a laboratory shall be submitted to the Department with the Annual Report. Sampling frequencies greater than those prescribed in the Monitoring Requirements for parameters listed shall be submitted to the Department with the Annual Report.
- 3) Notice of Completion of any work described in Section F. 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 F. shall be submitted with the Annual Report.
- 4) The report in the following table shall be completed and submitted to the Department by the prescribed due date, unless otherwise agreed to in writing by the Department.

Reporting Summary Table

Type of Report	Report Format	Date Due	Contents
Annual Report	Preprinted DEQ annual report forms or electronic format	January 31	as stated in the Annual Report Contents Table in this section
Monthly Report	Written submittal	Last day of the following month	daily, weekly and monthly items in the Facility Monitoring Table in Section E. Monitoring Requirements
Notice of Completion	Submittal or letter	within 30 days of completion	- compliance activity submittal, or - compliance activity completion notification letter

Type of Report	Report Format	Date Due	Contents
Notice of Non-Compliance	See Section H., Item 9.	See Section H., Item 9	See Section H., Item 9

Annual Report Contents Table

Item	Units
Annual flow to each Hydraulic Management Unit for wastewater and irrigation water	gallons/year, gallons/month, inches/year and irrigation water requirement /MU
Total and average daily wastewater applied to each Hydraulic Management Unit	gallons/day and gallons/year
Non-growing Season (ngs) wastewater loading to each Hydraulic Management Unit	gallons/ngs and inches/ngs
Annual loadings to each Hydraulic Management Unit: total nitrogen, total dissolved solids and non-volatile dissolved solids	total pounds and pounds per acre
Annual crop summary -use standard form in Annual Report Form for each Hydraulic Management Unit	Written narrative
Storage lagoon volume at beginning and end of application season	gallons
Laboratory test results for monitoring required in Section E	as specified in Section E
Laboratory test results for facility monitoring not listed in Section E	as specified in approved test methods
Status of items listed in Section F, Compliance Schedule for Required Activities	written narrative
Description of any actual or potential environmental impacts resulting from the wastewater land application system.	written narrative
Amount of supplemental fertilizer applied to each Hydraulic Management Unit	date and lbs/acre

## H. 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-Land Application Permit Regulations.
2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site unless permission has been obtained from the Department authorizing a discharge into the waters of the State as stated in IDAPA 16.01.02.600.02.
3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 16.01.02.600.03. In order to prevent public health hazards and nuisance conditions the permittee shall take necessary actions with respect to all waste treatment components which shall include at a minimum:
  - 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. As a result of the land application of wastewater, ground water of the state must not contain contaminants exceeding those values as referenced under IDAPA 16.01.11.200a, b and c of the Ground Water Quality Rule, unless otherwise specified in this permit.
5. The permittee shall:
  - a. Manage the wastewater land application 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 land application treatment site.
6. If livestock are to be grazed, a grazing management plan shall be submitted to the Department for review and approval prior to grazing.
7. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the Department approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.
8. 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 Waste Water Land Application Permit Regulations.
9. The permittee shall allow the Director of the Idaho Department of Health and Welfare or the Director's designee<sup>1</sup>, (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.
10. The permittee shall report to the Director under the circumstances and in the manner specified in this section:
  - a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
  - b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
  - c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Central Office: (208) 373-0502  
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 Department. 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.

<sup>1</sup> For purposes of this permit, the Director's designee is the Administrator of the Division of Environmental Quality.

## I. Standard Permit Conditions: Modifications, Violation, and Revocation

1. 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 regulations.
2. Both minor and major modifications may be made to this permit as stated in IDAPA 16.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the Department.
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 Department 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 G. 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 Department 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 Land Application 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 Land Application 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 twenty (20) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Director.
8. The Director shall notify the permittee in writing of any revocation hearing at least twenty (20) days prior to the date set for such hearing. The hearing shall be conducted in accordance with Title 67, Chapter 52, Idaho Code.
9. If, pursuant to Idaho Code § 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing the Director shall provide the permittee a revocation hearing and prior notice thereof. Such hearings shall be conducted in accordance with Title 67, Chapter 52, Idaho Code.
10. 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.
11. The permittee shall notify the Department at least six (6) months prior to permanently removing any permitted land application site from service. Prior to commencing site closure activities, the permittee shall: a) participate in a pre-site closure meeting with the Department; b) develop a site closure plan that identifies specific closure 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 Department for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the Department approved site closure plan.
12. 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.

APPENDIX 1

ENVIRONMENTAL MONITORING  
Computerized Data Reporting Serial  
Number Key

\*Denotes Active Site

HYDRAULIC MANAGEMENT UNITS		
Description of Unit	Acres (according to IBP final survey of 11/19/98)	Serial Number
*South Land Application Site- South Center Pivot (3S)	117 acres	MU-005501
*South Land Application Site- North Center Pivot (2S)	136 acres	MU-005502
South Land Application Site- Small Center Pivot-INACTIVE	35 acres	MU-005503
South Land Application Site- Solid Set Field INACTIVE	35 acres	MU-005504 (Deleted 1998 Now part of MU-005502)
South Land Application Site- Large Wheel Line Field INACTIVE	30 acres	MU-005505
*South Land Application Site- Small Wheel Line (WL-2)	7 acres	MU-005506
*South Land Application Site- Partial Center Pivot (1S)	60 acres	MU-005507 (Replaces MU-005503)
South Land Application Site- Gravity Irrigation Field INACTIVE	13.5 acres	MU-005508 (Deleted 1998 Now part of MU-005502)
*Central Land Application Site- Partial Center Pivot (1C)	60 acres	MU-005509

APPENDIX 1

ENVIRONMENTAL MONITORING  
Computerized Data Reporting Serial  
Number Key

\*Denotes Active Site

HYDRAULIC MANAGEMENT UNITS		
Description of Unit	Acres (according to IBP final survey of 11/19/98)	Serial Number
*Central Land Application Site- Large Center Pivot (2C)	116 acres	MU-005510
*North Land Application Site- South Center Pivot (1N)	117 acres	MU-005511
*North Land Application Site- Small Center Pivot (2N)	26 acres	MU-005512
*North Land Application Site- North Center Pivot (3N)	114 acres	MU-005513
*North Land Application Site- North half pivot (4N)	51 acres	MU-005514
*South Land Application Site- Diminished Wheel Line Field (WL-1)	22 acres	MU-005515 (Replaces MU-005505)

WASTEWATER SAMPLING POINTS	
Serial Number	Description
*WW-005501	Irrigation pump station where effluent leaves aerobic pond
*WW-005502	Irrigation pump station where effluent leaves storage pond

## APPENDIX 1

ENVIRONMENTAL MONITORING  
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GROUNDWATER SAMPLING POINTS	
Wells	Serial No.
*Production well #1 (Now called IBP East Well functions as up gradient well)	GW-005501
Production well #2	GW-005502
Production well #3 (Now called Farm Well by IBP)	GW-005503
*Down gradient well in SW corner of Pivot 1S (MW-01)	GW-005504
*Down gradient well in SE corner of Pivot 3S (MW-02)	GW-005505
*Down gradient well in SE corner of Pivot 2C (MW-03)	GW-005506
*Down gradient well in SE corner of Pivot 1N (MW-04)	GW-005507
*Up gradient well at corner of S. Cole and Barker (DW-06)	GW-005508
*Up gradient well East of pivot 1N (DW-08)	GW-005509
*Up gradient well north of Pivot 3N (DW-02)	GW-005510

APPENDIX 1

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SURFACE WATER SAMPLING POINTS	
Serial No.	Description
*SW-005501	Up gradient sample in Main Indian Creek Channel
*SW-005502	Down gradient sample in Main Indian Creek Channel
*SW-005503	Up gradient sample in North Indian Creek Channel
*SW-005504	Down gradient sample in North Indian Creek Channel

SOIL MONITORING UNITS		
Serial No.	Associated Hydraulic Management Unit	Description
*SU-005501	MU-005501	East Half of old South Center Pivot, now called Center Pivot (3S)
*SU-005502	MU-005502	East Half of old North Center Pivot, now called Center Pivot (2S)
SU-005503 (INACTIVE)	MU-005503	Old Small Center Pivot
SU-005504 (INACTIVE)	MU-005504	Old Solid Set Field

APPENDIX 1

ENVIRONMENTAL MONITORING  
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SOIL MONITORING UNITS		
Serial No.	Associated Hydraulic Management Unit	Description
SU-005505 (INACTIVE)	MU-005505	Old Large Wheel Line Field
*SU-005507	MU-005501	West Half of old South Center Pivot, now called Center Pivot (3S)
*SU-005508	MU-005502	West Half of old North Pivot, now called Center Pivot (2S)
*SU-005509	MU-005506 and MU-005515	Small Wheel Line Field (WL-2) and Diminished Wheel Line Field (WL-1)
*SU-005510	MU-005507	South Land Application Site Partial Pivot (1S)
*SU-005511	MU-005509	Central Land Application Site Center Pivot (1C)
*SU-005512	MU-005510	West Half, Central Land Application Site Center Pivot (2C)
*SU-005513	MU-005510	East Half, Central Land Application Site Center Pivot (2C)
*SU-005514	MU-005511	North Land Application Site South Center Pivot (1N)
*SU-005515	MU-005512	North Land Application Site Small Center Pivot (2N)

APPENDIX 1

ENVIRONMENTAL MONITORING  
Computerized Data Reporting Serial  
Number Key

\*Denotes Active Site

SOIL MONITORING UNITS		
Serial No.	Associated Hydraulic Management Unit	Description
*SU-005516	MU-005513	North Half of North Land Application Site North Center Pivot (3N)
*SU-005517	MU-005513	South Half of North Land Application Site North Center Pivot (3N)
*SU-005518	MU-005514	North Land Application Site Partial Center Pivot (4N)

WASTEWATER LAGOONS	
Serial No.	Description
*LG-005501	First Anaerobic Lagoon
*LG-005502	Second Anaerobic Lagoon
*LG-005503	Aerobic Lagoon
*LG-005504	100 MG Storage Pond