

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) PERMITS

Minor Municipal Permit No. **UT0020311**

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the "Act"),

BEAR RIVER CITY

is hereby authorized to discharge from its wastewater treatment facility to receiving waters named

MALAD RIVER

in accordance with specific limitations, outfalls, and other conditions set forth herein.

This modified permit shall become effective on February 1, 2016.

This modified permit expires at midnight on July 31, 2020.

Signed this 1 day of February 2016.



Walter L. Baker, P.E.
Director

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I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS

A. Description of Discharge Points.

The authorization to discharge wastewater provided under this part is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a UPDES permit are violations of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

<u>Outfall Number</u>	<u>Location of Discharge Outfall</u>
001	Located at latitude 41°35'58" and longitude 112°08'32". The outfall is in a manhole, with a 90 degree, v-notch weir, that flows into an 8" concrete pipe and discharges directly into the Malad River.
001D	Located at latitude 41.601299° and longitude 112.139789°. The <u>outfall is to a retention basin for land disposal.</u>
002	Located at latitude 41.600978° and longitude 112.139184°. The outfall of the bottom drain of retention basin flows into a ditch tributary to the Malad River.
003	Located at latitude 41.601093° and longitude 112.138783°. The outfall is an emergency overflow spillway from the retention basin and discharges to a tributary of the Malad River.

B. Narrative Standard.

It shall be unlawful, and a violation of this permit, for the permittee to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum, or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by a bioassay or other tests performed in accordance with standard procedures.

C. Specific Limitations and Self-Monitoring Requirements for Surface Water Discharge.

1. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from Outfalls 001, 002, and 003. Such discharges shall be limited and monitored by the permittee as specified below:

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Parameter	Effluent Limitations ⁰ for Outfalls 001, 002, 003			
	Maximum Monthly Avg	Maximum Weekly Avg	Daily Minimum	Daily Maximum
Flow, mgd				0.36
BOD ₅ , mg/L	45	65		
Total Suspended Solids (TSS) mg/L	45	65		
<i>E. coli</i> , No./100mL	126	158		
pH, Standard Units			6.5	9.0
Dissolved Oxygen, mg/L			4.0	
Oil & Grease, mg/L				10.0
Total Residual Chlorine (mg/L)				0.166

Influent Self-Monitoring and Reporting Requirements ⁰			
Parameter	Frequency	Sample Type	Units
BOD ₅ ²	Monthly	Grab	mg/L
TSS ²	Monthly	Grab	mg/L
Total Phosphorus (as P) ³	Monthly	Composite ⁴	mg/L
Total Kjeldahl Nitrogen (as N) ³	Monthly	Composite ⁴	mg/L

Effluent Self-Monitoring and Reporting Requirements ⁰			
Parameter	Frequency	Sample Type	Units
Total Flow ²	Continuous	Recorder	mgd
BOD ₅ ²	Monthly	Grab	mg/L
BOD ₅ % Removal	Monthly	Calculated	%
TSS ²	Monthly	Grab	mg/L
TSS % Removal	Monthly	Calculated	%
<i>E. coli</i>	Monthly	Grab	No./100mL
pH	Monthly	Grab	SU
Dissolved Oxygen	Monthly	Grab	mg/L
Oil & Grease ³	Monthly	Grab	mg/L
Total Dissolved Solids	Monthly	Grab	mg/L
Total Phosphorus (as P) ³	Monthly	Composite ⁴	mg/L
Orthophosphate (as P) ³	Monthly	Composite ⁴	mg/L
Ammonia (as N) ³	Monthly	Composite ⁴	mg/L
Nitrate-Nitrite (as N) ³	Monthly	Composite ⁴	mg/L
Total Kjeldahl Nitrogen (as N) ³	Monthly	Composite ⁴	mg/L

1. See Definitions, *Part VI*, for definition of terms.
2. Influent samples and the influent flow shall be monitored and measured at the same frequency as the effluent samples and the effluent flow.
3. Monitoring of these parameters shall be conducted and begin in accordance with R317-1-3.3.D.
4. Composite samples shall be by use of an automatic sampler or minimum of four grab samples collected a minimum of two hours apart.
5. Sample only if a sheen is observed.

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D. Reporting of Wastewater Monitoring Results.

Monitoring results obtained during the previous month shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1) or by NetDMR, post-marked or entered into NetDMR no later than the 28th day of the month following the completed reporting period. The first report is due on March 28, 2016. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements* (see Part VII.G), and submitted by NetDMR, or to the Division of Water Quality at the following address:

Department of Environmental Quality
Division of Water Quality
195 North 1950 West
PO Box 144870
Salt Lake City, Utah 84114-4870

E. Specific Limitations and Self-Monitoring Requirements for Land Disposal.

1. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge effluent for Land Disposal from Outfall 001D. Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Effluent Limitations for Land Disposal at Outfall 001D ^{1,2}		
	Maximum Weekly Avg	Daily Minimum	Daily Maximum
BOD ₅ , mg/L	65		
Total Suspended Solids (TSS) mg/L	65		
<i>E. coli</i> , No./100mL	158		500
pH, Standard Units (SU)		6.5	9.0

Self-Monitoring and Reporting Requirements for Type II Land Disposal at Outfall 001D ^{0,2}			
Parameter	Frequency	Sample Type	Units
Applied Flow	Continuous	Recorder	mgd
Irrigated Acreage	Monthly	Estimated	acres
BOD ₅	Monthly	Grab	mg/L
TSS	Monthly	Grab	mg/L
<i>E. coli</i>	Monthly	Grab	No./100mL
pH	Monthly	Grab	SU
Total Inorganic Nitrogen	Monthly	Grab	mg/L

1. See Definitions, *Part VI*, for definition of terms.
2. Effluent shall only be disposed of by methods allowed by R317-3-11.5.A.

F. Management Practices for Land Disposal of Treated Effluent

1. The application of treated effluent to frozen, ice-covered, or snow covered land is prohibited.
2. No person shall apply treated effluent where the slope of the site exceeds 6 percent.
3. The use should not result in a surface water runoff except as authorized under I.C. of this permit.
4. The use must not result in the creation of an unhealthy or nuisance condition, as determined by the local health department.
5. Any irrigation with treated effluent must be at least 300 feet from a potable well.
6. Spray irrigation must be at least 100 feet from areas intended for public access. This distance may be reduced or increased by the Director.
7. Impoundments of treated effluent, if not sealed, must be at least 500 feet from any potable well.
8. Public access to effluent storage and irrigation or disposal sites shall be restricted by a stock-tight fence or other comparable means which shall be posted and controlled to exclude the public.

G. Annual Reporting of Land Disposal Monitoring Results

Monitoring results obtained during the previous year shall be summarized and submitted in an Annual Report by May 1st. The report shall include a tabular summary of the monthly minimum, average, and maximum values. This report may be submitted as a standalone report or as an inclusion in the facility's Municipal Wastewater Planning Program (MWPP). Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part V.G)*, and submitted to the Division of Water Quality at the following address:

Department of Environmental Quality
Division of Water Quality
PO Box 144870
Salt Lake City, Utah 84114-4870

II. INDUSTRIAL PRETREATMENT PROGRAM

A. Definitions.

For this section the following definitions shall apply:

1. Significant industrial user (SIU) is defined as an industrial user discharging to a publicly-owned treatment works (POTW) that satisfies any of the following:
 - a. Has a process wastewater flow of 25,000 gallons or more per average work day;
 - b. Has a flow greater than five percent of the flow carried by the municipal system receiving the waste;
 - c. Is subject to Categorical Pretreatment Standards, or
 - d. Has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement.
2. Local Limit is defined as a limit designed to prevent pass through and/or interference. And is developed in accordance with 40 CFR 403.5(c).

B. Pretreatment Reporting Requirements.

Because the design capacity of this municipal wastewater treatment facility is less than 5 MGD, the permittee will not be required to develop a State-approved industrial pretreatment program at this time. However, in order to determine if development of an industrial pretreatment program is warranted, the permittee shall conduct an **industrial waste survey**, as described in *Part II.C.1*, and submit it to the Division of Water Quality within **sixty (60) calendar days** of the effective date of this permit.

C. Industrial Waste Survey (IWS).

1. As required by *Part II.B.1*, the industrial waste survey consists of:
 - a. Identifying each industrial user (IU) and determining if the IU is a significant industrial user (SIU),
 - b. Determination of the qualitative and quantitative characteristics of each discharge, and
 - c. Appropriate production data.
2. The IWS must be maintained and updated with IU information as necessary, to ensure that all IUs are properly permitted and/or controlled

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at all times. Updates must be submitted to the Director sixty (60) days following a change to the IWS.

3. Evaluate all significant industrial users at least once every two years to determine if they need to develop a slug prevention plan. If a slug prevention plan is required, the permittee shall notify the Director.
4. Notify all significant industrial users of their obligation to comply with applicable requirements under *Subtitles C and D* of the *Resource Conservation and Recovery Act (RCRA)*.
5. The permittee must notify the Director of any new introductions by new or existing SIUs or any substantial change in pollutants from any major industrial source. Such notice must contain the information described in 1. above, and be forwarded no later than sixty (60) days following the introduction or change.

D. General and Specific Prohibitions

1. Developed pursuant to *Section 307 of The Water Quality Act of 1987* require that under no circumstances shall the permittee allow introduction of the following pollutants into the waste treatment system from any source of non-domestic discharge:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140°F (60°C);
 - b. Pollutants, which will cause corrosive structural damage to the POTW, but in no case, discharges with a pH lower than 5.0;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference;
 - d. Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge at such volume or strength as to cause interference in the POTW;
 - e. Heat in amounts, which will inhibit biological activity in the POTW, resulting in interference, but in no case, heat in such quantities that the influent to the sewage treatment works exceeds 104°F (40°C);
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

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- g. Pollutants which result in the presence of toxic gases, vapor, or fumes within the POTW in a quantity that may cause worker health or safety problems; or,
 - h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
 - i. Any pollutant that causes pass through or interference at the POTW.
2. In addition to the general and specific limitations expressed above, more specific pretreatment limitations have been and will be promulgated for specific industrial categories under *Section 307 of the Water Quality Act of 1987 as amended (WQA)*. (See 40 CFR, Subchapter N, Parts 400 through 500, for specific information).

E. Signification Industrial Users Discharging to the POTW.

The permittee shall provide adequate notice to the Director and the Division of Water Quality Industrial Pretreatment Coordinator of;

- 1. Any new introduction of pollutants into the treatment works from an indirect discharger (i.e., industrial user) which would be subject to *Sections 301 or 306 of the WQA* if it were directly discharging those pollutants;
- 2. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit; and
- 3. For the purposes of this section, adequate notice shall include information on:
 - a. The quality and quantity of effluent to be introduced into such treatment works; and,
 - b. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from such publicly owned treatment works.
- 4. Any SIU that must comply with applicable requirements under *Subtitles C and D of the Resource Conservation and Recovery Act (RCRA)*.

F. Change of Conditions.

At such time as a specific pretreatment limitation becomes applicable to an industrial user of the permittee, the Director may, as appropriate, do the following:

1. Amend the permittee's UPDES discharge permit to specify the additional pollutant(s) and corresponding effluent limitation(s) consistent with the applicable national pretreatment limitation;
2. Require the permittee to specify, by ordinance, contract, or other enforceable means, the type of pollutant(s) and the maximum amount which may be discharged to the permittee's facility for treatment. Such requirement shall be imposed in a manner consistent with the POTW program development requirements of the *General Pretreatment Regulations* at 40 CFR 403;
3. Require the permittee to monitor its discharge for any pollutant, which may likely be discharged from the permittee's facility, should the industrial user fail to properly pretreat its waste; and/or,
4. Require the permittee to develop an approved pretreatment program.

G. Legal Action.

The Director retains, at all times, the right to take legal action against the industrial user and/or the treatment works, in those cases where a permit violation has occurred because of the failure of an industrial user to discharge at an acceptable level. If the permittee has failed to properly delineate maximum acceptable industrial contributor levels, the Director will look primarily to the permittee as the responsible party.

H. Local Limits

If local limits are developed per R317-8-8.5(4)(b) to protect the POTW from pass through or interference, then the POTW must submit limits to DWQ for review and public notice, as required by R317-8-8.5(4)(c).

III. BIOSOLIDS REQUIREMENTS

The State of Utah has adopted the 40 CFR 503 federal regulations for the disposal of sewage sludge (biosolids) by reference. However, since this facility is a lagoon, there is not any regular sludge production. Therefore 40 CFR 503 does not apply at this time. In the future, if the sludge needs to be removed from the lagoons and is disposed in some way, the Division of Water Quality must be contacted prior to the removal of the sludge to ensure that all applicable state and federal regulations are met.

IV. STORM WATER REQUIREMENTS.

The *Utah Administrative Code (UAC) R-317-8-3.9* requires storm water permit provisions to include the development of a storm water pollution prevention plan for waste water treatment facilities if the facility meets one or both of the following criteria.

- waste water treatment facilities with a design flow of 1.0 MGD or greater, and/or,
- waste water treatment facilities with an approved pretreatment program as described in *40CFR Part 403*,

The permittee does not meet either of the above criteria; therefore this permit does not include storm water provisions. The permit does however include a storm water re-opener provision.

V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS

A. Representative Sampling.

Samples taken in compliance with the monitoring requirements established under *Part I* shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Samples of biosolids shall be collected at a location representative of the quality of biosolids immediately prior to the use-disposal practice.

B. Monitoring Procedures.

Monitoring must be conducted according to test procedures approved under *Utah Administrative Code ("UAC") R317-2-10 and 40CFR Part 503*, unless other test procedures have been specified in this permit.

C. Penalties for Tampering.

The *Act* provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.

D. Compliance Schedules.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.

E. Additional Monitoring by the Permittee.

If the permittee monitors any parameter more frequently than required by this permit, using test procedures approved under *UAC R317-2-10 and 40 CFR 503* or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or the Biosolids Report Form. Such increased frequency shall also be indicated. Only those parameters required by the permit need to be reported.

F. Records Contents.

Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The individual(s) who performed the sampling or measurements;
3. The date(s) and time(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and,
6. The results of such analyses.

G. Retention of Records.

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location

H. Twenty-four Hour Notice of Noncompliance Reporting.

1. The permittee shall (orally) report any noncompliance including transportation accidents, spills, and uncontrolled runoff from biosolids transfer or land application sites which may seriously endanger health or environment, as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of circumstances. The report shall be made to the Division of Water Quality, (801) 536-4300, or 24-hour answering service (801) 536-4123.
2. The following occurrences of noncompliance shall be reported by telephone (801) 536-4123 as soon as possible but no later than 24 hours from the time the permittee becomes aware of the circumstances:
 - a. Any noncompliance which may endanger health or the environment;
 - b. Any unanticipated bypass, which exceeds any effluent limitation in the permit (See *Part IV.G, Bypass of Treatment Facilities.*);
 - c. Any upset which exceeds any effluent limitation in the permit (See *Part IV.H, Upset Conditions.*);
 - d. Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit; or,
 - e. Violation of any of the Table 3 metals limits, the pathogen limits, the vector attraction reduction limits or the management practices for biosolids that have been sold or given away.
3. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times;

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- c. The estimated time noncompliance is expected to continue if it has not been corrected;
 - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and,
 - e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.
4. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Division of Water Quality, (801) 536-4300.
 5. Reports shall be submitted to the addresses in *Part I.D, Reporting of Monitoring Results*.
- I. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for *Part I.D* are submitted. The reports shall contain the information listed in *Part III.H.3*
- J. Inspection and Entry
The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, including but not limited to, biosolids treatment, collection, storage facilities or area, transport vehicles and containers, and land application sites;
 4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location, including, but not limited to, digested biosolids before dewatering, dewatered biosolids, biosolids transfer or staging areas, any ground or surface waters at the land application sites or biosolids, soils, or vegetation on the land application sites; and,
 5. The permittee shall make the necessary arrangements with the landowner or leaseholder to obtain permission or clearance, the Director, or authorized representative, upon the presentation of credentials and other documents as may be required by law, will be permitted to enter without delay for the purposes of performing their responsibilities.

VI. COMPLIANCE RESPONSIBILITIES

A. Duty to Comply.

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.

B. Penalties for Violations of Permit Conditions.

The Act provides that any person who violates a permit condition implementing provisions of the Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions or the Act is subject to a fine not exceeding \$25,000 per day of violation. Any person convicted under UCA 19-5-115(2) a second time shall be punished by a fine not exceeding \$50,000 per day. Except as provided at Part IV.G, Bypass of Treatment Facilities and Part IV.H, Upset Conditions, nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.

C. Need to Halt or Reduce Activity not a Defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. Duty to Mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment. The permittee shall also take all reasonable steps to minimize or prevent any land application in violation of this permit.

E. Proper Operation and Maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

F. Removed Substances.

Collected screening, grit, solids, sludge, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any

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pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.

G. Bypass of Treatment Facilities.

1. Bypass Not Exceeding Limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to paragraph 2 and 3 of this section.
2. Prohibition of Bypass.
 - a. Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of human life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance, and
 - (3) The permittee submitted notices as required under *section IV.G.3.*
 - b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in *sections IV.G.2.a (1), (2) and (3).*
3. Notice.
 - a. Anticipated *bypass*. Except as provided above in *section IV.G.2* and below in *section IV.G.3.b*, if the permittee knows in advance of the need for a bypass, it shall submit prior notice, at least ninety days before the date of bypass. The prior notice shall include the following unless otherwise waived by the Director:
 - (1) Evaluation of alternative to bypass, including cost-benefit analysis containing an assessment of anticipated resource damages:

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- (2) A specific bypass plan describing the work to be performed including scheduled dates and times. The permittee must notify the Director in advance of any changes to the bypass schedule;
 - (3) Description of specific measures to be taken to minimize environmental and public health impacts;
 - (4) A notification plan sufficient to alert all downstream users, the public and others reasonably expected to be impacted by the bypass;
 - (5) A water quality assessment plan to include sufficient monitoring of the receiving water before, during and following the bypass to enable evaluation of public health risks and environmental impacts; and,
 - (6) Any additional information requested by the Director.
- b. *Emergency Bypass.* Where ninety days advance notice is not possible, the permittee must notify the Director, and the Director of the Department of Natural Resources, as soon as it becomes aware of the need to bypass and provide to the Director the information in *section IV.G.3.a.(1) through (6)* to the extent practicable.
- c. *Unanticipated bypass.* The permittee shall submit notice of an unanticipated bypass to the Director as required under *Part IV.H, Twenty Four Hour Reporting*. The permittee shall also immediately notify the Director of the Department of Natural Resources, the public and downstream users and shall implement measures to minimize impacts to public health and environment to the extent practicable.

H. Upset Conditions.

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph 2 of this section are met. Director's administrative determination regarding a claim of upset cannot be judiciously challenged by the permittee until such time as an action is initiated for noncompliance.
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

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- a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under *Part III.H, Twenty-four Hour Notice of Noncompliance Reporting*; and,
 - d. The permittee complied with any remedial measures required under *Part IV.D, Duty to Mitigate*.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

VII. GENERAL REQUIREMENTS

A. Planned Changes.

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of parameters discharged or pollutant sold or given away. This notification applies to pollutants, which are not subject to effluent limitations in the permit. In addition, if there are any planned substantial changes to the permittee's existing sludge facilities or their manner of operation or to current sludge management practices of storage and disposal, the permittee shall give notice to the Director of any planned changes at least 30 days prior to their implementation.

B. Anticipated Noncompliance.

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.

C. Permit Actions.

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

D. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.

E. Duty to Provide Information.

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

F. Other Information.

When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.

G. Signatory Requirements.

All applications, reports or information submitted to the Director shall be signed and certified.

1. All permit applications shall be signed by either a principal executive officer or ranking elected official.
2. All reports required by the permit and other information requested by the Director shall be signed by a person described above 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 a person described above and submitted to the Director, and,
 - b. The authorization specifies either an individual or a 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 or position having overall responsibility for environmental matters. A duly authorized representative may thus be either a named individual or any individual occupying a named position.
3. Changes to authorization. If an authorization under *paragraph V.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of *paragraph V.G.2*. must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

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H. Penalties for Falsification of Reports.

The *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000.00 per violation, or by imprisonment for not more than six months per violation, or by both.

I. Availability of Reports.

Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Director. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.

J. Oil and Hazardous Substance Liability.

Nothing in this permit shall be construed to preclude the permittee of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the *Act*.

K. Property Rights.

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

L. Severability.

The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

M. Transfers.

This permit may be automatically transferred to a new permittee if:

1. The current permittee notifies the Director at least 20 days in advance of the proposed transfer date;
2. The notice includes a written agreement between the existing and new permittee's containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,
3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit.

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If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.

N. State or Federal Laws.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by *UCA 19-5-117* and *Section 510* of the *Act* or any applicable Federal or State transportation regulations, such as but not limited to the Department of Transportation regulations.

O. Water Quality - Reopener Provision.

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:

1. Water Quality Standards for the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.
3. Revisions to the current CWA § 208 areawide treatment management plans or promulgations/revisions to TMDLs (40 CFR 130.7) approved by the EPA and adopted by DWQ which calls for different effluent limitations than contained in this permit.

P. Biosolids – Reopener Provision.

This permit may be reopened and modified (following proper administrative procedures) to include the appropriate biosolids limitations (and compliance schedule, if necessary), management practices, other appropriate requirements to protect public health and the environment, or if there have been substantial changes (or such changes are planned) in biosolids use or disposal practices; applicable management practices or numerical limitations for pollutants in biosolids have been promulgated which are more stringent than the requirements in this permit; and/or it has been determined that the permittees biosolids use or land application practices do not comply with existing applicable state or federal regulations.

Q. Toxicity Limitation - Reopener Provision.

This permit may be reopened and modified (following proper administrative procedures) to include, whole effluent toxicity (WET) limitations, a compliance date, a compliance schedule, a change in the whole effluent toxicity (biomonitoring) protocol, additional or modified numerical limitations, or any other conditions related to the control of toxicants.

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R. Storm Water-Reopener Provision.

At any time during the duration (life) of this permit, this permit may be reopened and modified (following proper administrative procedures) as per *UAC R317.8*, to include, any applicable storm water provisions and requirements, a storm water pollution prevention plan, a compliance schedule, a compliance date, monitoring and/or reporting requirements, or any other conditions related to the control of storm water discharges to "waters-of-State".

VIII. DEFINITIONS

A. Wastewater.

1. The "7-day (and weekly) average", other than for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week, which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains Saturday.
2. The "30-day (and monthly) average," other than for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.
3. "Act," means the *Utah Water Quality Act*.
4. "Bypass," means the diversion of waste streams from any portion of a treatment facility.
5. "Composite Samples" shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
 - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
 - b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;

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- c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,
 - d. Continuous sample volume, with sample collection rate proportional to flow rate.
6. "CWA," means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.
 7. "Daily Maximum" (Daily Max.) is the maximum value allowable in any single sample or instantaneous measurement.
 8. "EPA," means the United States Environmental Protection Agency.
 9. "Director," means Director of the Utah Division of Water Quality.
 10. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.
 11. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.
 12. "Severe Property Damage," means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 13. "Type II Land Disposal" means the use of treated domestic wastewater effluent where human exposure is unlikely.
 14. "Upset," means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

FACT SHEET
BEAR RIVER CITY CORPORATION
PERMIT MODIFICATION: DISCHARGE, BIOSOLIDS & STORM WATER
UPDES PERMIT NUMBER: UT0020311
MINOR MUNICIPAL

FACILITY CONTACTS

Jared Holmgren, Operator
P.O. Box 160
Bear River City, 84301-0160
(435) 279-9047

DESCRIPTION OF FACILITY

Bear River City (City) is located northwest of Ogden in Box Elder County. The 2010 census showed that there are 853 people who live in the city. The City lagoon system was put into operation in 1974 to treat residential sewage for the City. The design flow of the treatment facility is 0.36 million gallons per day. The treatment facility consists of a pump station, a pressurized 6 inch line, followed by a six cell facultative lagoon system that has a total containment capacity of 54.4 acre feet, with a surface area of 10.4 acres. The primary cell was designed for 156 pounds of BOD₅ per day with a population equivalent of 916 people. The outfall STORET number is 490203.

In November 2015, the City completed construction of a 12 million gallon land application reservoir. The reservoir is located on private property with an agreement of first right to purchase with the city. The reservoir is fenced and will be signed before beginning operation. The reservoir will hold treatment plant effluent for land disposal by agricultural irrigation on the property adjoining to the East. No crops for human consumption will be grown with the treated effluent. Prior to discharge into the reservoir, the city has gaseous chlorination.

DESCRIPTION OF DISCHARGE

<u>Outfall</u>	<u>Description of Discharge Point</u>
001	Located at latitude 41°35'58" and longitude 112°08'32". The outfall is in a manhole, with a 90 degree, v-notch weir, that flows into an 8" concrete pipe and discharges directly into the Malad River.
001D	Located at latitude 41.601299° and longitude 112.139789°. The outfall is to a retention basin for land disposal.
002	Located at latitude 41.600978° and longitude 112.139184°. The outfall of the bottom drain of retention basin flows into a ditch tributary to the Malad River.
003	Located at latitude 41.601093° and longitude 112.138783°. The outfall is an emergency overflow spillway from the retention basin and discharges to a tributary of the Malad River.

RECEIVING WATERS AND STREAM CLASSIFICATION

The final discharge flows into the Malad River, then to the Bear River. The Malad River is classified as 2B and 3C according to *Utah Administrative Code (UAC) R317-2-13.3(a)*.

- Class 2B -Protected for secondary contact recreation such as boating, wading, or similar uses.
Class 3C -Protected for nongame fish and other aquatic life, including the necessary aquatic organisms in their food chain.

A wasteload analysis (WLA) was conducted based on the receiving water background conditions and the design flow of the facility. The resulting values from the WLA are attached.

TOTAL MAXIMUM DAILY LOADS (TMDL) AND IMPARMENT LISTINGS

The Bear River City Lagoons discharge to the Malad River which is tributary to a segment of the Bear River that is 303(d) listed for total phosphorous (TP) and total suspended solids (TDS). A TP TMDL was completed for the Bear River on September 9th, 2002. The TMDL indicated that the three point sources in this segment, Corinne, Bear River and Tremonton cities accounted for approximately 3% of the total phosphorous load to the Lower Bear River. The remaining 97% is attributed to nonpoint sources. Given that the non-point source TP loads overshadow the point source contributions, the time-frame for including TP effluent limits for the small towns of Bear River City, Tremonton and Corinne is not urgent. The Lower Bear River TP TMDL may be reevaluated in the future so continued TP monitoring is required. In addition, a future TMDL for TDS in the Lower Bear River will include an evaluation of TDS loading from the treatment plant. Thus, TDS monitoring is being added during this permit renewal.

BOD5 AND TSS ALTERNATIVE DISCHARGE & 85% REMOVAL LIMITATIONS

On September 23, 2009, the City applied for the alternate discharge limitations under R317-1-3.2.G., which allows lagoon systems to discharge BOD₅ and total suspended solids (TSS) concentrations of 45 mg/l monthly average, 65 mg/l weekly average limitations, if the lagoon system meets 5 criteria. As part of this application, the City also applied for an exemption from the permit limitations for 85% removal of BOD₅ and TSS. The alternative discharge limitations and 85% removal exemption were granted by the Director of the Division of Water Quality (Director) on October 12, 2009. The alternative discharge limitations were changed and the exemption incorporated as part of the 2009 permit renewal. However, as part of the application approval, the Director required the City to attempt to address the infiltration and inflow issues experienced during the 2004-2009 permit term. The Director required the permit be reevaluated to determine if the percent removal for BOD and TSS should be included in this renewal.

During the 2009-2015 permit cycle the City undertook a number of projects to address infiltration and inflow problems and provided information on projects since 2011. In June 2011, the entire system was flushed and filmed. The filming identified numerous trouble spots. In 2012, the lift station connecting the collection system to the lagoons was covered. In addition during spring 2013, trouble spots were identified and infiltration hot spots were inline grouted and a major infiltration near the main collection line was found and grouted. Last, the City has

completed a project for a land disposal alternative.

Facility Effluent Flow Rate (based on water year October – September)

	Annual Average Monthly Flow (mgd)	Maximum Monthly Average Flow (mgd)
2005 ¹	0.59	0.79
2006	0.58	0.69
2007	0.63	0.69
2008	0.64	0.72
2009	0.54	0.76
2010	0.27	0.33
2011	0.21	0.36
2012	0.18	0.27
2013	0.26	0.35
2014	0.19	0.23
2015 ²	0.21	0.29

1. Only partial year January 2005-September 2005
2. Only partial year October 2014-March 2015

The table shows the average annual flow from 2005 to 2009 was 0.60 mgd and the average annual flow from 2010 to 2015 was 0.22 mgd. This represents the effluent discharge rates have more than halved on average. The significantly reduced effluent flow indicates that the City has been successful at lessening the infiltration and inflow. The 85% removal requirement remains unattainable and percent removal effluent limitations will not be included in this permit renewal. The need for this requirement will be evaluated at the next permit renewal, therefore, sampling and reporting of influent BOD₅ and influent TSS will again be required.

DISCHARGE MONITORING RESULTS:

Discharge monitoring report (DMR) data was evaluated for the past 5 years for effluent limitation exceedances of TSS, BOD₅ and pH. During this time exceedances have occurred: once for BOD₅, five times for *E. coli*, eight times for pH, and five times for TSS. Eight of these exceedances are categorized as serious violations for exceeding the effluent limitation by 40% or more. Reviewing these exceedances, the operator needs to pay more diligent attention to the disinfection process for *E. coli* control during winter months. However, since many of these exceedances span over a number of years for each constituent no notices of violation have been issued to the facility. This is in large part to the facility operators responding to these exceedances.

Only eight months of ammonia monitoring results were available in DMR data for review. These data were compared with the seasonal standards calculated in the WLA. No value was greater than 50% of its seasonal standard. Based on this comparison ammonia monitoring will continue to be required but no effluent limitation will be set.

BASIS FOR EFFLUENT LIMITATIONS FOR SURFACE WATER DISCHARGE

The Water Quality Board has allowed the use of alternate limits for BOD and TSS for Bear River City's wastewater lagoon effluent limits per *UAC R317-1-3.2.G*. The BOD and TSS limit is 45 mg/L for a monthly average and 65 mg/L for a maximum weekly average. Limitations on total suspended solids (TSS), biochemical oxygen demand (BOD₅) are based on the alternate limits, which are allowed by the Water Quality Board. Utah Secondary Treatment Standards, *UAC R317-1-3.2*, set the *E. coli* and pH effluent limitations. The oil and grease limitation is based on best professional judgment (BPJ). In cases where no limits have been developed, BPJ may be used where applicable. "Best Professional Judgment" refers to the method used by permit writers to develop technology-based UPDES conditions on a case-by-case basis using all reasonably available and relevant data.

The total residual chlorine (TRC) and dissolved oxygen (DO) limits are based on the Waste Load Analysis. DO is included due to a known issue of low DO from lagoons. TRC is included due to the use of chlorination for disinfection. A flow limitation was included since total residual chlorine limits are based off of the WLA. The Waste Load Analysis (attached) indicates that these limits should be sufficiently protective of water quality, and will meet water quality standards in the receiving waters. The permit limitations are:

Parameter	Effluent Limitations ¹			
	Maximum Monthly Average	Maximum Weekly Average	Daily Minimum	Daily Maximum
Flow, mgd				0.36
BOD ₅ , mg/L	45	65		
Total Suspended Solids (TSS) mg/L	45	65		
<i>E. coli</i> , No./100mL	126	158		
pH, Standard Units			6.5	9.0
Dissolved Oxygen, mg/L			4.0	
Oil & Grease, mg/L				10.0
Total Residual Chlorine (mg/L)				0.166

1. See Definitions, *Part VI*, for definition of terms.

SELF-MONITORING AND REPORTING REQUIREMENTS FOR SURFACE WATER DISCHARGE

The following self-monitoring requirements include some additions from the previous permit. Monitoring for total phosphorus, orthophosphate, total kjeldahl nitrogen, nitrate-nitrite, and ammonia are required in accordance with *UAC R317-1-3.3.D*. The permit will require reports to be submitted monthly on Discharge Monitoring Report (DMR) forms due 28 days after the end of the monitoring period.

Influent Self-Monitoring and Reporting Requirements ¹			
Parameter	Frequency	Sample Type	Units
BOD ₅	Monthly	Grab	mg/L
TSS	Monthly	Grab	mg/L
Total Phosphorus (as P) ³	Monthly	Composite ⁴	mg/L
Total Kjeldahl Nitrogen (as N) ³	Monthly	Composite ⁴	mg/L

Effluent Self-Monitoring and Reporting Requirements ¹			
Parameter	Frequency	Sample Type	Units
Total Flow	Continuous	Recorder	mgd
BOD ₅	Monthly	Grab	mg/L
TSS	Monthly	Grab	mg/L
<i>E. coli</i>	Monthly	Grab	No./100mL
pH	Monthly	Grab	SU
Dissolved Oxygen	Monthly	Grab	mg/L
Oil & Grease ⁵	Monthly	Grab	mg/L
Total Dissolved Solids	Monthly	Grab	mg/L
Total Phosphorus (as P) ³	Monthly	Composite ⁴	mg/L
Orthophosphate (as P) ³	Monthly	Composite ⁴	mg/L
Ammonia (as N) ³	Monthly	Composite ⁴	mg/L
Nitrate-Nitrite (as N) ³	Monthly	Composite ⁴	mg/L
Total Kjeldahl Nitrogen (as N) ³	Monthly	Composite ⁴	mg/L

1. See Definitions, *Part VI*, for definition of terms.
2. Influent samples and the influent flow shall be monitored and measured at the same frequency as the effluent samples and the effluent flow.
3. Monitoring of these parameters shall be conducted and begin in accordance with R317-1-3.3.D.
4. Composite samples shall be 24 hour composites collected by use of an automatic sampler or minimum of four grab samples collected a minimum of two hours apart.
5. Sample only if a sheen is observed.

BASIS FOR EFFLUENT LIMITATIONS FOR LAND DISPOSAL

The BOD, TSS, pH, and *E. coli* limits are set in accordance with *UAC R317-3-11.5.C.5*.

Parameter	Effluent Limitations for Type II Land Disposal at Outfall 001D ^{1, 2}		
	Maximum Weekly Avg	Daily Minimum	Daily Maximum
BOD ₅ , mg/L	65		
Total Suspended Solids (TSS) mg/L	65		
<i>E. coli</i> , No./100mL	158		500
pH, Standard Units		6.5	9.0

SELF-MONITORING AND REPORTING REQUIREMENTS FOR LAND DISPOSAL

The following self-monitoring requirements and best management practices are for land disposal activity monitoring. Monitoring results obtained during the previous year shall be summarized and submitted in an Annual Report by May 1st. The report shall include a tabular summary of the monthly minimum, average, and maximum values. This report may be submitted as a standalone report or as an inclusion in the facility's Municipal Wastewater Planning Program (MWPP). This report is intended to provide information for the Division to provide oversight of the land disposal.

Self-Monitoring and Reporting Requirements for Type II Land Disposal at Outfall 001D ^{1, 2}			
Parameter	Frequency	Sample Type	Units
Total Flow	Continuous	Recorder	mgd
BOD ₅	Monthly	Grab	mg/L
TSS	Monthly	Grab	mg/L
<i>E. coli</i>	Monthly	Grab	No./100mL
pH	Monthly	Grab	SU

1. See Definitions, *Part VI*, for definition of terms.
2. Effluent shall only be disposed of by methods allowed by R317-3-11.5.A.

Management Practices for Land Application of Treated Effluent

1. The application of treated effluent to frozen, ice-covered, or snow covered land is prohibited.
2. No person shall apply treated effluent where the slope of the site exceeds 6 percent.
3. The use should not result in a surface water runoff except as authorized under I.C. of this permit.
4. The use must not result in the creation of an unhealthy or nuisance condition, as determined by the local health department.
5. Any irrigation with treated effluent must be at least 300 feet from a potable well.

6. Spray irrigation must be at least 100 feet from areas intended for public access. This distance may be reduced or increased by the Director.
7. Impoundments of treated effluent, if not sealed, must be at least 500 feet from any potable well.
8. Public access to effluent storage and irrigation or disposal sites shall be restricted by a stock-tight fence or other comparable means which shall be posted and controlled to exclude the public.

STORMWATER REQUIREMENTS

Wastewater Treatment Facilities, which includes Lagoon Systems, are required to comply with storm water permit requirements if they meet one or both of the following criteria,

1. The facility has an approved pretreatment program as described in 40 CFR Part 403.
2. The facility has a design flow of 1.0 MGD or greater.

The Bear River City Lagoon system does not meet either of the criteria, therefore a storm water permit is not required at this time. A storm water re-opener provision is included in the permit should a storm water permit be needed in the future.

PRETREATMENT REQUIREMENTS

The permittee has not been designated for pretreatment program development because it does not meet conditions which necessitate a full program. The flow through the plant is less than five (5) MGD, there are no categorical industries discharging to the treatment facility, industrial discharges comprise less than 1 percent of the flow through the treatment facility, and there is no indication of pass through or interference with the operation of the treatment facility such as upsets or violations of the POTW's UPDES permit limits.

Although the permittee does not have to develop a State-approved pretreatment program, any wastewater discharges to the sanitary sewer are subject to Federal, State and local regulations. Pursuant to *Section 307 of the Clean Water Act*, the permittee shall comply with all applicable Federal General Pretreatment Regulations promulgated, found in *40 CFR 403* and the State Pretreatment Requirements found in *UAC R317-8-8*.

An industrial waste survey (IWS) is required of the permittee as stated in Part II of the permit. The IWS is to assess the needs of the permittee regarding pretreatment assistance. The IWS is required to be submitted within sixty (60) days after the issuance of the permit. If an Industrial User begins to discharge or an existing Industrial User changes their discharge the permittee must resubmit an IWS no later than sixty days following the introduction or change as stated in Part II of the permit.

It is recommended that the permittee perform an annual evaluation of the need to revise or develop technically based local limits for pollutants of concern, to implement the general and specific prohibitions *40 CFR, Part 403.5(a)* and *Part 403.5(b)*. This evaluation may indicate that present local limits are sufficiently protective, need to be revised or should be developed. It is required that the permittee submit any local limits that are developed to the Division of Water Quality for review and if needed public notice.

BIOMONITORING REQUIREMENTS

A nationwide effort to control toxic discharges where effluent toxicity is an existing or potential concern is regulated in accordance with the *State of Utah Permitting and Enforcement Guidance Document for Whole Effluent Toxicity Control (biomonitoring)*. Authority to require effluent

biomonitoring is provided in *Permit Conditions, UAC R317-8-4.2, Permit Provisions, UAC R317-8-5.3 and Water Quality Standards, UAC R317-2-5 and R317 -2-7.2.*

The permittee is a minor municipal intermittent discharger that will be contributing a small volume of effluent when compared to the existing receiving waters, in which toxicity is not likely to be present. Based on these considerations, and the fact that there are no present or anticipated industrial users on the system, there is no reasonable potential for toxicity in the permittee's discharge (*per State of Utah Permitting and Enforcement Guidance Document for WET Control*). As such, there will be no numerical WET limitations or WET monitoring requirements in this permit. However, the permit will contain a toxicity limitation re-opener provision that allows for modification of the permit should additional information indicate the presence of toxicity in the discharge.

ANTIDegradation REVIEW

Anti-degradation Level I or II review was not required as the new discharge locations 002 and 003 are to the same receiving water as 001, the flow limitation is maintained, and no effluent limitations were changed. In addition, the development of the land disposal project is likely the least degrading alternative and likely to be the primary method of disposal going forward.

SUMMARY OF CHANGES FROM PREVIOUS PERMIT

Effluent limitations were added for total residual chlorine, dissolved oxygen, and flow. In addition, reporting requirements were added for TSS and BOD₅ percent removal. Monitoring for pH was decrease from 3 times per week to monthly. Monitoring for total phosphorus, orthophosphate, total kjeldahl nitrogen, nitrate-nitrite, and ammonia were added in accordance with *UAC R317-1-3.3.D*.

SUMMARY OF MODIFICATIONS

Outfall 001D for land disposal and Outfalls 002 and 003 were added. In addition, effluent limitations for land application at 001D were added. At the request of the operator influent flow measurement was dropped.

PERMIT DURATION

It is recommended that this permit be effective for duration of five (5) years. Drafted by:

Permit Writer Ken Hoffman 801-536-4313 (kenhoffman@utah.gov)

Biosolids Dan Griffin

Pretreatment Jen Robinson

Stormwater Mike George

WET Mike Herkimer

TMDL Mike Allred

WLA Dave Wham

PUBLIC NOTICE

Began: May 29, 2015

Ended: June 29, 2015

Comments will be received at: 195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870

The Public Noticed of the draft permit was published in the Ogden Standard Examiner.

During the public comment period provided under R317-8-6.5, any interested person may submit written comments on the draft permit and may request a public hearing, if no hearing has already been scheduled. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. All comments will be considered in making the final decision and shall be answered as provided in R317-8-6.12.

No comments were received during the public notice period. Two minor corrections to the draft permit were made to the public noticed draft:

1. On Page 1 Section I.C. standard permit language was added at the end of the page:
“Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:”

2. On Pages 5-7 Executive Secretary was replaced by Director in 7 instances.

Correction 1 is standard language which was inadvertently dropped in the public notice document preparation. Correction 2 is equivalent to a typo. Neither correction alters the permit in any meaningful way. The Division feels this language addition does not constitute a significant change and does not warrant republic noticing the permit.

