

IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY

REUSE PERMIT

M-108-03 – MODIFICATION 1

Permittee Name: City of Idaho City

Effective Date of this Modification: March 13, 2017

Complete Description of Modification

The purpose of this Minor Permit Modification is to update the permit to alter Residual Chlorine monitoring requirements and add the new monitoring well.

1. Page 15-16, Section 5.1.1 Constituent Monitoring shall be replaced with the table included on Page 2 of this modification. The modification adds Total Chlorine Residual monitoring requirements to row 2 and row 3, and changes Total Chlorine Residual to a Parameter for Field Analysis on row 4 and row 5. The modification also notes that DEQ shall be notified if snow or ice prohibits collection of surface water samples.
2. Page 16-17, Section 5.2 Ground Water Monitoring shall be replaced with the tables included on Page 3 of this modification. The modification adds the fourth monitoring well to the sample requirements. The modification also notes that DEQ shall be notified if snow or ice prohibits collection of static water level or samples from the wells.
3. Page 30, Site View Map, shall be replaced with the updated Site View Map included on Page 4 of this modification.

5.1.1 Constituent Monitoring

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
WW-108-01 Point of discharge to RIBs	Recycled water from LG-10801 to all RIBs (MU-108-01, MU-108-02, MU-108-03, and MU-108-04)	Grab/monthly	<ul style="list-style-type: none"> - Total Kjeldahl nitrogen, as N - Nitrate + nitrite-nitrogen, as N - Total phosphorus, as P - Total coliform organisms/100 mL - Ammonia - Total Residual Chlorine (mg/L)
WW-108-01 Point of discharge to RIBs	Recycled water from LG-10801 to all RIBs (MU-108-01, MU-108-02, MU-108-03, and MU-108-04)	Grab/weekly (if Class C disinfection requirements are accepted)	<ul style="list-style-type: none"> - Total coliform organisms/100 mL - Total Residual Chlorine (mg/L)
SW-108-01 Upstream of RIBs and Lagoons, in Mores Creek ^a	Surface water	Grab/ quarterly: February, May, August, November ^c	<i>Parameters for Lab Analysis:</i> <ul style="list-style-type: none"> - Total Kjeldahl nitrogen, as N - Nitrate + nitrite-nitrogen, as N - Total phosphorus, as P - Ammonia - Biochemical oxygen demand (BOD₅) - Total suspended solids - Turbidity - <i>E. coli</i>^b
			<i>Parameters for Field Analysis:</i> <ul style="list-style-type: none"> - pH - Temperature (°C) - Dissolved Oxygen - Total chlorine residual
SW-108-02 Downstream of RIBs and confluence of drainage bisecting reuse facility in Mores Creek ^a .	Surface water	Grab/monthly ^{b,c}	<i>Parameters for Lab Analysis:</i> <ul style="list-style-type: none"> - Total Kjeldahl nitrogen, as N - Nitrate + nitrite-nitrogen, as N - Total phosphorus, as P - Ammonia - Biochemical oxygen demand (BOD₅) - Total suspended solids - Turbidity - <i>E. coli</i>^b
			<i>Parameters for Field Analysis:</i> <ul style="list-style-type: none"> - pH - Temperature (°C) - Dissolved Oxygen - Total chlorine residual

- a. DEQ shall review and approve locations prior to initial sampling event.
- b. The permittee shall notify DEQ's Boise Regional Office immediately, if any surface water sample analysis, either in the upstream or downstream locations, shows coliform counts that exceed 406 *E. coli* Organisms per 100 mL.
- c. Notify DEQ if snow or ice prohibits collection of surface water samples.

5.2 Ground Water Monitoring

5.2.1 Ground Water Monitoring Point Descriptions

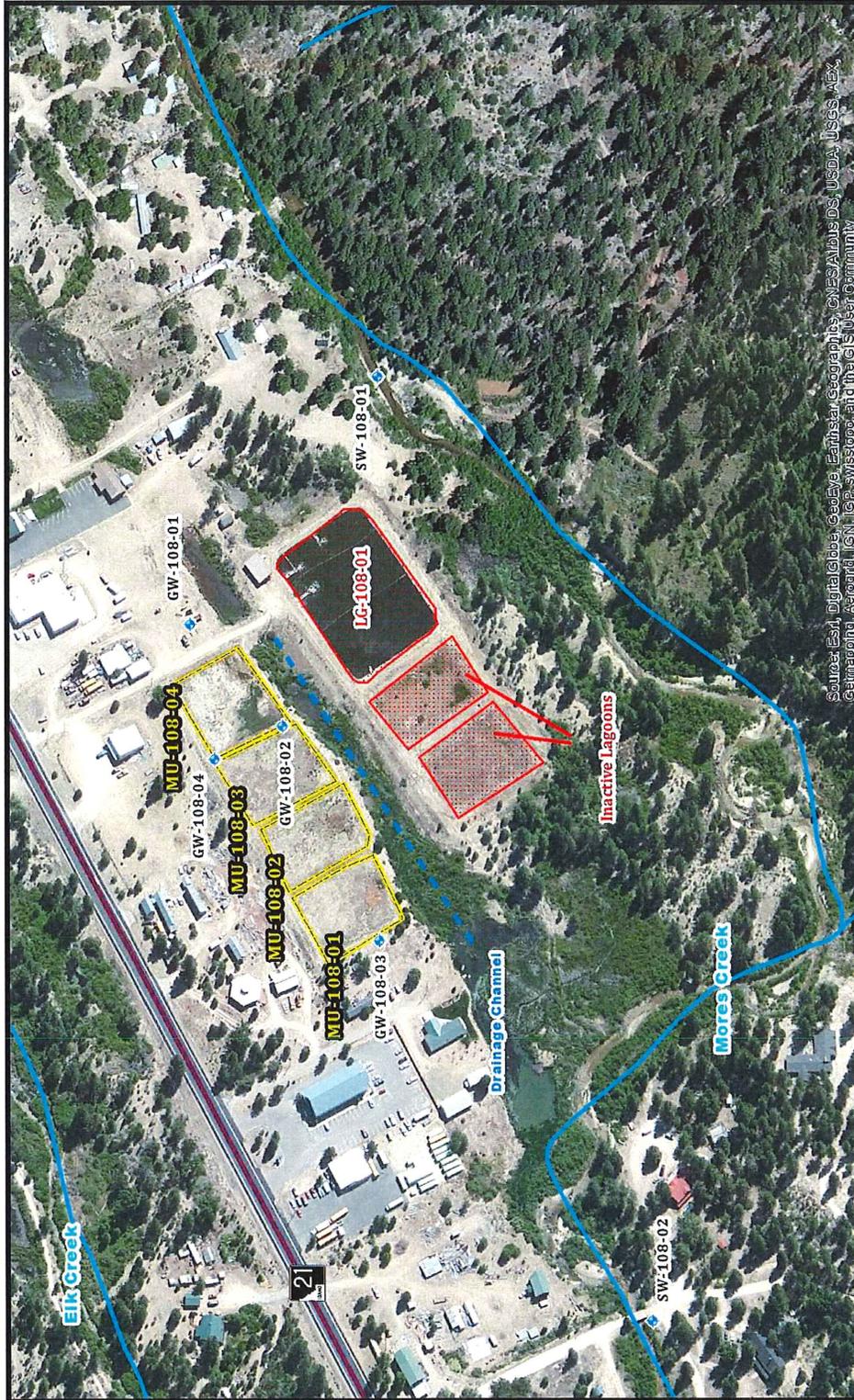
Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-108-01	MW 1	Monitoring well	Upgradient
GW-108-02	MW 2	Monitoring well	Midpoint downgradient (Between RIB 3 and RIB 4)
GW-108-03	MW 3	Monitoring well	Downgradient
GW-108-04	MW 4	Monitoring well	Upgradient

5.2.2 Ground Water Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sampling Point Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
GW-108-01 GW-108-02 GW-108-03 GW-108-04	Monitoring wells ^c	Monthly measurement; measure before purging well	- Water table elevation (feet) - Water table depth (feet)
		Unfiltered grab sample/quarterly; February, May, August, November	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Total dissolved solids - Chloride - <i>E. coli</i> ^a
P-108-01 P-108-02 P-108-03 P-108-04	Percolate ^d from respectively MU-108-01, MU-108-02, MU-108-03, and MU-108-04	Grab/quarterly; February, May, August, November	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Chloride - <i>E. coli</i> ^a

- a. *E. coli* analysis sensitivity for ground water and percolate samples shall be capable of producing results of 1 MPN/100 mL.
- b. Rehabilitate percolate sampling ports as necessary.
- c. Notify DEQ if snow or ice prohibits sample or data collection from the monitoring wells.

11.2 Site View



Legend

- Monitoring Well
- Streams/Canals
- Highway
- Major Roads
- Lagoon
- Reuse Irrigation

North Arrow

Scale Bar: 0, 50, 100 Meters / 0, 200, 400 Feet

Idaho City
M-108-03

08/06/15 7:2017

City of Idaho City
Modification 1 to Reuse Permit M-108-03
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Modification 1 is hereby approved. This modification to the permit is incorporated into, and constitutes a part of, Reuse Permit M-108-03. This permit modification must be attached to the permit. The permit is incomplete and unlawful under IDAPA 58.01.17 *Recycled Water Rules* without this permit modification attached.

Signed,



Aaron Scheff
Regional Administrator
Idaho Department of Environmental Quality
Boise Regional Office

Date: 3/13/17