MUNICIPAL REUSE PERMIT
MODIFICATION 2 TO PERMIT NO. M-037-04

Permittee Name: **City of Mountain Home**

Effective Date of this Modification: **August 9, 2017**

Complete Description of Modification

The purpose of this Permit Modification is to update the Responsible Official and Authorized Representative, add one common ion test on pre-disinfection effluent, add eight new shallow monitoring wells to the monitoring network, designate new serial numbers for the domestic wells, remove Cation Exchange Capacity (CEC) from the soil sampling requirements, and add Exchangeable Sodium Percentage (ESP) to the soil sampling requirements.

1. **Section 2. Facility Information**, line seven shall be replaced with line 2 of the following:

Information Type	Information Specific to This Permit
Facility responsible official and authorized representative	Responsible Official: Rich Sykes, Mayor, 160 S. 3rd East, Mountain Home, ID 83647, (208) 587-2108, RSykes@mountain-home.us Authorized Representative: Richard Urquidi, Director of Public Works, P.O. Box 10, Mountain Home, ID 83647, (208) 587-2108, RUrquidi@mountain-home.us Notify DEQ within 30 days if there is a change in personnel for any of the above facility contacts. A minor permit modification will be issued by DEQ to confirm the change.

2. **Section 5.1.1 Constituent Monitoring**, add line 2 of the following.

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
WW-037-02 Recycled water from lagoons Pre-Disinfection	Pre-disinfection wastewater common ions	Grab/once in 2018	- sodium - potassium - calcium - magnesium - sulfate, as S - chloride - alkalinity (as CaCO3)

3. **Section 5.2. Ground Water Monitoring** shall be replaced with the following:

5.2.1 Ground Water Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-037-02	MW-2 North of Hamilton Road, south of Lagoon 8	Monitoring well	Side-gradient of the land application site (shallow aquifer)
GW-037-03	MW-3 North of Hamilton Road, south of Lagoon 9	Monitoring well	Side-gradient of the land application site (shallow aquifer)
GW-037-06	MW-6 Northwest corner of Field 1	Monitoring well	Side-gradient of the land application site (intermediate/shallow aquifer)
GW-037-07	MW-7 Northeast corner of Field 1	Monitoring well	Side-gradient of the land application site (intermediate/shallow aquifer)
GW-037-12	MW-12 North of Lagoon 1	Monitoring well	Upgradient of lagoons (shallow aquifer)[b]
GW-037-13	MW-13 Northwest corner of Lagoon 5	Monitoring well	Side-gradient of lagoons (shallow aquifer)[b]
GW-037-14	MW-14 Southeast side corner of Lagoon 5	Monitoring well	Side-gradient of lagoons (shallow aquifer)[b]
GW-037-15	MW-15 Southwest side of Lagoon 7	Monitoring well	Side-gradient of lagoons (shallow aquifer)[b]
GW-037-16	MW-16 North side of Lagoon 9	Monitoring well	Upgradient of Lagoon 9 (shallow aquifer)[b]
GW-037-17	MW-17 North side of land application site, north of MU-037-14	Monitoring well	Up gradient of land application site (shallow aquifer)[b]
GW-037-18	MW-18 North of corner between Pivot 1 and Pivot 2	Monitoring well	Up gradient of land application site (shallow aquifer)[b]
GW-037-19	MW-19 Southwest of the center of Pivot 2	Monitoring well	Down gradient of north portion of land application site (shallow aquifer)[b]
GW-037-12D	Well west of Pivot 1	Domestic well[a]	Down gradient of the land application site (regional aquifer)
GW-037-13D	Well west of Field 4	Domestic well[a]	Down gradient of the land application site (regional aquifer)

a. Obtain owner permission prior to sampling. Written documentation shall be provided if owner declines to have the well sampled.
b. Gradient determination is preliminary and may change following future data collection and analysis.

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-037-02 GW-037-03 GW-037-06 GW-037-07 GW-037-12 GW-037-13 GW-037-14 GW-037-15 GW-037-16 GW-037-17 GW-037-18 GW-037-19 GW-037-12D[c] GW-037-13D[c]	Monitoring wells	Unfiltered grab sample / twice annually: April, October	- water table elevation (ft) - water table depth (ft) - nitrate-nitrogen, as N - total iron[a] - total manganese[a] - total dissolved solids - chloride - total coliform/100 mL[b] - pH
		Unfiltered grab sample/October of 2014 and 2018	- sodium - potassium - calcium - magnesium - sulfate, as S - chloride - alkalinity (as $CaCO_3$)

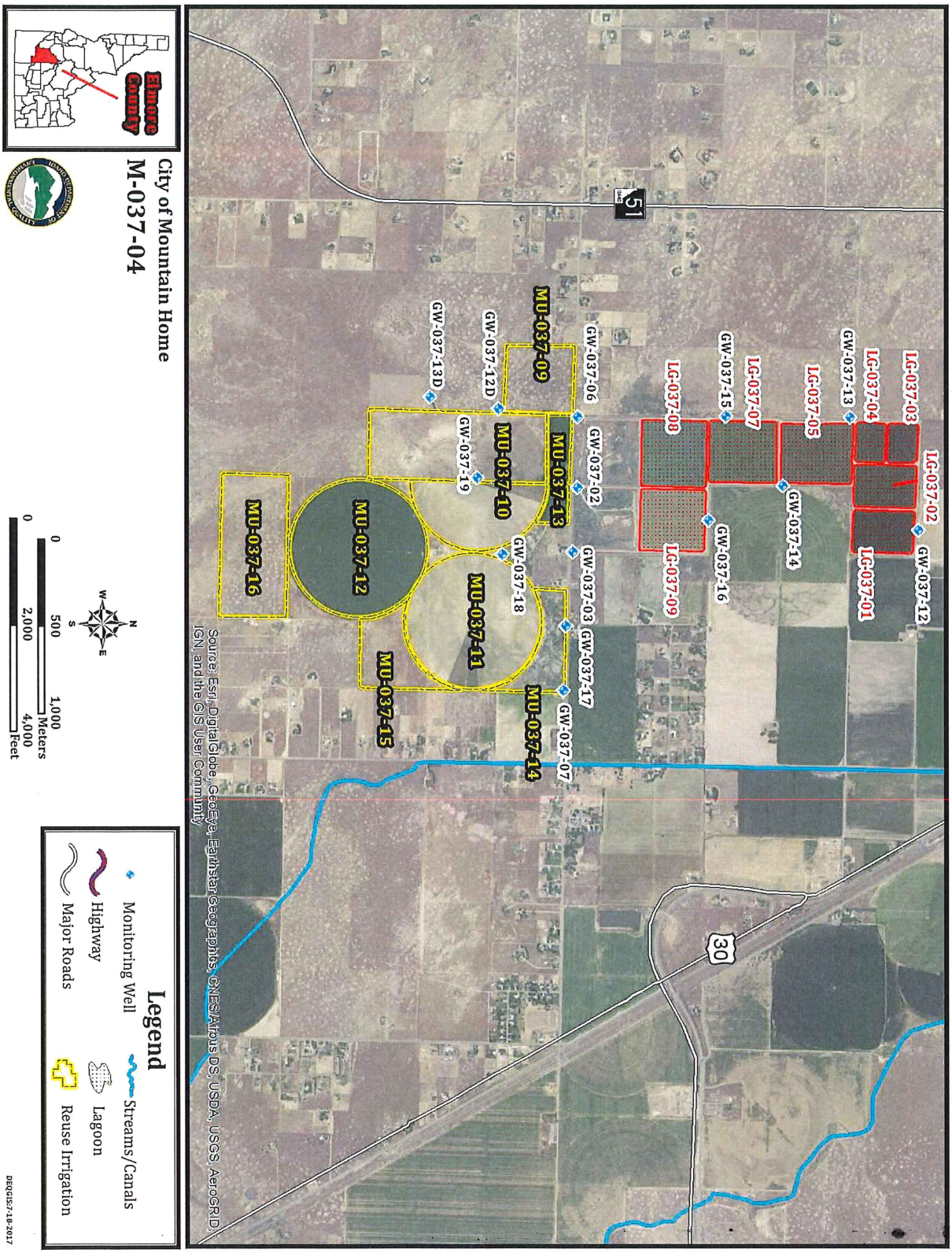
a. Conduct analysis for dissolved iron and dissolved manganese if results for total iron and/or total manganese exceed the standards in IDAPA 58.01.11.200.01.b (currently 0.3 mg/L and 0.05 mg/L, respectively).
b. Presence-absence test shall be performed. If a sample returns a positive total coliform result, the positive sample shall be analyzed for *E.coli* or fecal coliform.
c. Domestic wells west of the land application site. Sample with owner's permission.

4. **Section 5.3.2. Soil Monitoring, Sampling, and Analysis**, line 2 shall be replaced with line 2 of the following:

Monitoring Point Serial Number	Sample Type	Sample Frequency	Constituents (Units in mg/kg Soil Unless Otherwise Specified)
SU-037-09 SU-037-10 SU-037-11 SU-037-12 SU-037-13 SU-037-14 SU-037-15 SU-037-16	Composite samples[a]	Annually: April (during periods of reuse water land application)	- electrical conductivity (umhos/cm in saturated paste extract) - exchangeable sodium percentage (%) - nitrate-nitrogen - ammonium-nitrogen - plant available phosphorus (Olsen method – soils with pH 6.5 or greater, Bray method – soils with pH less than 6.5) - pH

a. The number of sample locations specified in the PO or QAPP for each SU shall be sampled. At each location, samples shall be obtained from three depths: 0–12 inches; 12–24 inches; and 24–36 inches or refusal. The samples obtained from each depth shall be composited by depth to yield three composite samples for each soil monitoring unit; one composite sample for each depth.

5. **Section 11. Site Maps** shall add the following as Figure 5. Management Unit, Lagoon and Monitoring Well Map:



Permit Modification 2 is hereby approved. This modification to the permit is incorporated into, and constitutes a part of, Reuse Permit No. M-037-04. This permit modification must be attached to the permit. The permit is incomplete under IDAPA 58.01.17, *Recycled Water Rules*, without this permit modification attached.

Signed,

Aaron Scheff
Regional Administrator
Boise Regional Office
Department of Environmental Quality

8/9/17
Date