

**Official Draft Public Notice Version May 21, 2014**

The findings, determinations, and assertions contained in this document are not final and subject to change following the public comment period.

**FACT SHEET AND STATEMENT OF BASIS  
CHAMBERLAIN INVESTMENT COMPANY  
UPDES PERMIT NUMBER: UT0025739  
MINOR INDUSTRIAL**

**FACILITY CONTACTS**

Person Name: Robert Chamberlain  
Position: President  
Phone Number: (435) 279-8202

Facility Name: Chamberlain Investment Wells  
Mailing Address: 8140 North Highway 38  
Honeyville, Utah 84103  
Telephone: (435) 279-8202

**DESCRIPTION OF FACILITY**

The Chamberlain Investment Company (CIC) is a planned spa resort which may include a restaurant and greenhouses as well as grottos and swimming pools. The State Engineer's office has issued a non-consumptive water right to CIC. This water right cannot exceed 1.00 cubic feet per second (.65 million gallons a day or 724 acre feet annually). There is one cold water well and two hot water wells from which CIC will be able to obtain mineral water for use by the spa. CIC has the ability to control the flow of both wells to adjust the temperature for the comfort of their guests. The plan is to have several pools and grottos at different temperatures with the first set of pools at about 105° F (40.5° C), the second series of pools and grottos with a temperature of about 80° F (26.7° C) and the temperature of the third pool and grottos will be about 60° F (15.6° C). The flow from the grottos and swimming pools will enter a concrete serpentine manmade creek to decrease the chlorine and increase the dissolved oxygen before the discharge water enters Salt Creek. It has a Standard Industrial Classification (SIC) code of 7999, for Amusement and Recreation Services, not elsewhere classified.

**SUMMARY OF CHANGES FROM PREVIOUS PERMIT**

There are no substantive changes from the previous permit.

## **DISCHARGE**

The water from the wells will be pumped from existing ground water in the area. The water from the cold water well has a temperature of 58.19° F (14.55° C) and a TDS concentration of 960 mg/L. The water from the thermal well has a temperature of 122° F (49.94° C) and a TDS concentration of 41,000 mg/L. The only additive to the water prior to the discharge will be chlorine for disinfection purposes as mandated by the Utah Department of Health.

The discharge point shall be known as 001, with STORET sampling number of 4901435. The spa resort location is to be directly across the street to the west from the address above, in Box Elder County, Utah, at Latitude N 41° 39' 23.5", longitude, W 115° 05' 20.5" NAD 83 Datum.

## **RECEIVING WATERS AND STREAM CLASSIFICATION**

The discharge is to Salt Creek , which is classified as 2B, 3B, 3D according to Utah Administrative Code (UAC) R317-2.

Class 2B - Protected for secondary contact recreation such as boating, wading, or similar uses.

Class 3B - Protected for warm water species of game fish and other warm water aquatic life, including the necessary aquatic organisms in their food chain.

Class 3D - Protected for waterfowl, shore birds and other water-oriented wildlife not included in classes 3A, 3B, or 3C, including the necessary aquatic organisms in their food chain.

## **BASIS FOR EFFLUENT LIMITATIONS**

The pH is based upon Utah Secondary Treatment Standards, according to (UAC) R317-1-3.2.

The total chlorine residual (TCR) limitation is found under UAC R317-2.14.2., Table 2.14.2, *Numeric Criteria For Aquatic Wildlife*, which states the TRC cannot exceed 0.011 mg/L (see ADDENDUM) in order to meet State water quality standards in the receiving waters.

The temperature limitation is also found under UAC R317-2.14.2., Table 2.14.2, *Numeric Criteria For Aquatic Wildlife*, which states the temperature of the discharge cannot exceed 27° C (80.6° F), for waters of the State classified as 3B and 3D.

A dissolved oxygen (DO) effluent limit of 4.0 mg/L is based on professional judgment to meet State water quality standards at the compliance point below the discharge.

Parameter	Effluent Limitations			
	30 Day Monthly Avg	7 Day Weekly Avg	Daily Minimum	Daily Maximum
Flow, MGD	NA	NA	NA	.65
Temperature, °C	NA	NA	NA	27.0°C (80.6°F)
Dissolved Oxygen, mg/L	NA	NA	4.0	NA
Total Residual Chlorine mg/L	NA	NA	NA	.011
pH, Standard Units	NA	NA	6.5	9.0

NA – Not Applicable.

**SELF-MONITORING AND REPORTING REQUIREMENTS**

The following self-monitoring requirements are the same as in the previous permit. The permit will require reports to be submitted monthly and annually, as applicable, on Discharge Monitoring Report (DMR) forms due 28 days after the end of the monitoring period. Lab sheets for biomonitoring must be attached to the biomonitoring DMR. Lab sheets for metals and toxic organics must be attached to the DMRs.

Self-Monitoring and Reporting Requirements, *a			
Parameter	Frequency	Sample Type	Units
Total Flow, *b, *c	Monthly	Recorder	MGD
Temperature	Monthly	Grab	mg/L
Dissolved Oxygen	Monthly	Grab	mg/L
Total Residual Chlorine	Monthly	Grab	mg/L
pH	Monthly	Grab	SU

\*a See Definitions, *Part VIII*, for definition of terms.

\*b Flow measurements of influent/effluent volume shall be made in such a manner that the permittee can affirmatively demonstrate that representative values are being obtained.

\*c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.

### **STORMWATER REQUIREMENTS**

With a Standard Industrial Classification code of 7999 (Amusement and Recreation Services), this permittee does not fall within the categories of industrial dischargers that are regulated under *UAC R317.8*. Therefore, there will be no storm water monitoring or reporting requirements for this permittee.

### **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 industrial discharger that will be contributing effluent unlikely to exhibit toxicity given that stated effluent limits are met. The source of the water being utilized for recreation purposes is from both warm and cold groundwater wells controlled by the permittee. Based upon these considerations and the permitting authority's BPJ, there is no reasonable potential for toxicity in the permittee's discharge (*per State of Utah's UPDES 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 at anytime in the future should additional information indicate the presence of toxicity in the discharge.

### **PERMIT DURATION**

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

Drafted by  
Dave Wham  
Utah Division of Water Quality

**ADDENDUM TO FSSOB**

A public notice for the draft permit will be published in the XXXXX on March XX, 2014. The comment period will end on April XX, 2014. Any comments will be responded to and summarized in the Responsiveness Summary below before the permit is issued.

**Responsiveness Summary**

During finalization of the Permit certain dates, spelling edits and minor language corrections may be completed. Due to the nature of these changes they are not considered Major and the permit may not be required to be re-public noticed.

PND Draft

