

STATE OF NEVADA  
DIVISION OF ENVIRONMENTAL PROTECTION

**AUTHORIZATION TO INJECT AND DISCHARGE**

In compliance with the provisions of the Nevada Revised Statutes (NRS 445A) and the Nevada Underground Injection Control and Water Pollution Control Regulations (under NAC 445A), the following Permittee is authorized to inject at a facility described below in accordance with limitations, requirements and other conditions set forth in Parts I and II hereof.

Permit Number: UNEV2002202  
Facility Name: Nugget Casino Resort – Tower #2  
Facility Address: 1100 Nugget Avenue, Sparks, Nevada 89431  
Permittee: Nugget Casino Resort, LLC  
Permittee Address: 1100 Nugget Avenue, Sparks, Nevada 89431  
Property Owner: Century Casinos, Inc.  
Legal Description: NE¼ NW¼ Section 8, T19N, R20E; MDB&M  
Washoe County  
  
Geodetic Coordinates: Latitude: 39° 32' 00" N  
Longitude: 119° 45' 39.88" W  
  
Number of Permitted Wells: One (1) subsurface infiltration field  
Reporting Frequency: **Quarterly (due: 28<sup>th</sup> of January/April/July/October)**  
Annual Permit Fee Due: July 1<sup>st</sup> of each year  
Permit Originally Issued: 2002 (Originally under NEV96000 starting November 1996)

This permit shall become effective:  
This permit shall expire at midnight:

The UIC renewal application is due 180 days prior to permit expiration

\_\_\_\_\_  
Andrew Kowler, Ph.D. | Environmental Scientist  
Bureau of Water Pollution Control | Permits Branch

\_\_\_\_\_  
Date

## **PART I**

### **A. INJECTATE LIMITATIONS, MONITORING AND OTHER REQUIREMENTS**

1. **Authorization**

During the period beginning on the effective date of this permit and lasting through the expiration date on page 1, the Permittee is authorized to inject treated groundwater from a dewatering system below Tower 2 **to a subsurface infiltration field** at the site identified on page 1.

2. **Injection Limitations**

Injection shall be limited by the Permittee as specified below

- a. The injection rate should not exceed limit specified in Table 1 (Attachment 1).
- b. Injected water shall not surface, or cause surfacing of ground water, or cause harm to any underground structures.

3. **Sampling and Monitoring**

The injectate and affected groundwater shall be limited and monitored by the Permittee as specified in Table 1 (Attachment 1) and reported to Nevada Division of Environmental Protection (NDEP) pursuant to Part I.B of this permit.

4. **Reporting**

**Whether or not actively injecting**, the permittee shall submit **injection monitoring reports** containing the following data on a **quarterly** basis:

- a. Checklist form attached to this permit as **Attachment 1**.
- b. Results of chemical analyses per Table 1 (Attachment 1);
- c. Description of hours of injection operation, including times of any shutdowns, start-ups, or upsets;
- d. For each month in the reporting period: report the average, lowest, and highest injection rates in gallon per minute (gpm) for the main flow and bypass under operating conditions;
- e. Piezometer and monitoring well water-level data; and
- f. Summary narrative report of monitoring activities for the reporting period. The report shall include, but not be limited to, any problems encountered with the system, results of any tests performed during that period, and changes to the groundwater.

**If no injection has occurred, report the non-injection status and the reason the system is not in operation.**

The Permittee shall submit quarterly reports to the Bureau of Water Pollution Control / UIC Program of the Division of Environmental Protection no later than the **28th day of the month** following the transpired reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the following address:

Nevada Division of Environmental Protection  
Bureau of Water Pollution Control  
**Attn:** UIC Program | Injection Monitoring Report  
901 South Stewart Street., Suite 4001  
Carson City, NV 89701

5. **Operation and Maintenance**

The operation and maintenance (O&M) manual (January 1997) shall be updated to include the following:

- a. Sampling and analyses to satisfy the updated monitoring requirements;
- b. Notification to NDEP for approval in case a change to higher volume sump pump

- is necessary; and
- c. Procedure for potential change to higher volume sump pumps.

The updated O & M manual shall be submitted to NDEP for review and approval as required in Part I.B.1.

The Permittee shall operate and maintain the system per established procedures and as approved by the Division. Any modification to the system requires Division approval prior to implementation.

6. Non-Degradation of Ground Water

Injectate constituent limitations shall be as follows: Exceedance of a primary, or enforceable secondary, drinking water standard (as listed in NAC445A.455(2)), set by federal or state regulations shall not occur, unless a naturally occurring receiving-aquifer constituent is established by the Permittee to be higher than the drinking water standard. If during operation of this facility, the Permittee or their representatives become aware of any condition that causes degradation of water in the receiving zone, injection shall cease immediately.

7. Closed System

Extraction, treatment, conveyance and injection must be accomplished in a completely closed system to prevent introduction of any foreign materials or unapproved additives to the injectate waters.

8. Abandonment

If the system is abandoned, all injection trench piping shall be removed or grout-filled within 90 days of system abandonment. The abandonment must be certified by a registered professional engineer with the State of Nevada or witnessed by a staff member of the Division.

## **B. SCHEDULE OF COMPLIANCE**

1. **By July 28, 2022**, the Permittee shall submit an updated operations and maintenance (O&M) manual for groundwater collection, treatment and discharge. Any changes to an approved O&M manual must be submitted to the Division for review and approval.
2. The Permittee shall achieve compliance with the conditions, limitations and requirements of the permit at the commencement of relevant activity.
3. The Administrator may, upon the request of the Permittee, and after public notice, revise or modify a schedule of compliance in an issued permit if he determines good and valid cause (such as an act of God, a strike, materials shortage or other event over which the Permittee has little or no control) exists for such revision.

## **PART II**

### **A. MONITORING AND RECORDKEEPING REQUIREMENTS**

1. **Minimum Requirements for Sampling and Monitoring**
  - a. Definition: “grab” sample means either a single discrete sample or individual samples collected over a period of time not to exceed 15 minutes. Samples and measurements taken as required herein shall be representative of the volume and/or nature of the subject of interest.
  - b. A laboratory certified by the State of Nevada must perform analyses. Testing methods for constituents must be EPA or Division approved and meet drinking water analysis requirements.
  - c. The analytical method detection/reporting limits for the constituents listed above must be at least as low as primary or secondary drinking water standards when applicable.
  - d. **The UIC Program requires inorganic analyses of metals for “Total Metals”** in which samples are not filtered and are preserved with a weak acid in the field. Any exceptions to this policy must be requested and pre-approved by the UIC program prior to the sampling event. It must be clearly stated on all reports which analyses were performed.
  - e. All gauges and/or flow meters used for compliance with this permit shall be calibrated pursuant to O&M manual (or standard industry specifications), and documented in the monitoring reports.
  - f. Water samples shall be 1) collected by grab method, and 2) unfiltered for metals analysis; unless otherwise approved by the Division in writing.
  - g. Annual, semi-annual, and quarterly samples shall be collected during the same month(s) each year.
  - h. All UIC water samples shall be collected using UIC Form U230, and the completed U230 forms submitted for each water sample with the UIC report.
  - i. Test procedures for the analyses of required constituents shall comply with applicable analytical methods cited in 40 CFR 141 and under state of Nevada Drinking Water Program approved analytical methods, under which such procedures may be required, unless other procedures are approved by the Administrator.
  - j. When sampling for radioactive constituents, ensure the laboratory reports only the adjusted gross alpha, as the drinking water standard of 15 pCi/L is an adjusted standard that subtracts radon and uranium from the total activity. Uranium is added in List 2 to verify value and additional activity.
2. **Recording of Results** – For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:
  - a. The exact place, date, and time of sampling;
  - b. The dates the analyses were performed;
  - c. The person(s) who performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of all required analyses; and
  - f. The precision and accuracy of the analytical data (to be accessible through laboratory).
3. **Additional Monitoring by Permittee** – If the Permittee monitors any constituent at the location(s) designated herein more frequently than required by this permit, or monitors additional constituents than required by this permit, using approved analytical methods as specified above, the results of such monitoring results shall be made available to the Division upon request.
4. **Records Retention** – All records and information resulting from the monitoring activities required by this permit, including all records and analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer if required by the Director.
5. **Modification of Monitoring Frequency, Location, and Sample Type** – After considering monitoring data, injection rate or discharge flow and receiving water conditions, the Division may, for just cause, modify the monitoring frequency, location and/or sample type by issuing an Order to the Permittee.

6. Certification of Documents Submitted to the Director – All applications, reports and information submitted to the Director must be signed and certified to be correct and true by the owner or the operator (NAC 445A.859) .
7. Availability of Reports – Except for data determined to be confidential under NRS 445.311, all reports prepared in accordance with the terms of this permit shall be available for public inspection. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445.337.

## **B. MANAGEMENT REQUIREMENTS**

1. Changes in Injection or Discharge – All injection or discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any constituent identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased injection or discharges must be reported by submission of a new application or, if such changes will not violate the limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any constituents not previously limited.
2. Noncompliance Notification – If, for any reason, a permit limit or condition is exceeded, or the Permittee does not comply with or will be unable to comply with the conditions, requirements and limitations specified in this permit, the Permittee shall provide the Administrator or his representative with the following information, in writing, within five (5) days of becoming aware of such conditions:
  - a. A description of the noncompliance; and
  - b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.
3. Facilities Operation – The Permittee shall at all times maintain in good working order and operate as efficiently as possible, all treatment or control facilities, devices or systems installed or used by the Permittee to achieve compliance with the terms and conditions of this permit. All facilities and ancillaries encompassed by this permit shall conform to the plans and specifications filed with the Division of Environmental Protection and shall be maintained in good working order at all times. No changes shall be made to the system without prior written approval from the Division. All solid, toxic or hazardous waste shall be disposed in accordance with the rules and regulations of this Division. All spills and releases shall be reported as required by Nevada Revised Statutes.
4. Adverse Impact – The Permittee shall take all reasonable steps, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying injection or discharge, to minimize any adverse impact to waters of the State resulting from noncompliance with any limitations specified in this permit.
5. Bypassing – Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited except where unavoidable to prevent loss of life or severe property damage. The Division will have the final authority in the determination of whether a discharge is deemed unavoidable. The Permittee shall promptly notify the Director in writing, of each such diversion or bypass, in accordance with the procedure specified in Part II.B.2 above.
6. Annual and Renewal Fees – The Permittee shall submit the annual review and services fee in accordance with NAC 445A.872 no later than July 1st of every year following permit issuance and every year thereafter until the permit is cancelled.

## C. PERMITTEE RESPONSIBILITIES

1. Right of Entry – Pursuant to NRS 445A.655, the Permittee shall allow the Director and/or his authorized representatives, upon the presentation of credentials:
  - a. To enter upon the Permittee's premises where a source is located or in which any records are required to be kept under the terms and conditions of this permit;
  - b. To have access to, and to copy any records required to be kept under the terms and conditions of this permit;
  - c. To inspect any monitoring equipment or monitoring method required in this permit; and
  - d. To perform any necessary sampling to determine compliance with this permit or to sample any effluent or discharge.
2. Transfer of Ownership or Control – In the event of any change in ownership or control, the Permittee shall notify the succeeding owner of the existence of this permit, in writing, at the earliest possible date to allow sufficient time for the succeeding owner to demonstrate financial responsibility to the Division within 30 days prior to transfer of ownership. The letter shall include the date agreed upon by both parties for the transfer of ownership. A copy of the letter shall be forwarded to the Administrator. The Administrator may require modification, or revocation with subsequent reissuance of the permit, to change the name of the new Permittee and incorporate additional requirements as deemed necessary due to any changes made to the injection wells or system by the new permittee.
3. Availability of Reports – Except for data determined to be confidential under NRS 445A.665, all reports prepared in accordance with the terms of this permit shall be available for public inspection. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445A.710.
4. Permit Modification, Suspension or Revocation – After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
  - a. Violation of any terms or conditions of this permit;
  - b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - c. A change in any condition that requires either a temporary or permanent reduction or elimination of the effluent or discharge.
5. Civil and Criminal Liability
  - a. Nothing in this permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance.
  - b. 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.
  - c. The issuance of this permit does not convey any property rights, in either real or personal property, 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.
6. Compliance with Regulations – The Permittee shall comply with all provisions of the UIC regulations, Nevada Administrative Code (NAC) 445A.810 through 445A.925, Water Pollution Control regulations NAC 445A and all pertinent laws and regulations. Nothing in this permit relieves the Permittee from responsibilities, liabilities or penalties established by any other State, federal or local jurisdiction

**ATTACHMENT 1**  
**UIC Monitoring Report Requirement and Checklist**

The Permittee shall submit, on a **Quarterly** basis, reports that include the following data (please check each of the items below contained in the attached report):

- \_\_\_\_\_ 1. UIC permit number and permit
- \_\_\_\_\_ 2. Parameters identified in Table 1 below
- \_\_\_\_\_ 3. Results of chemical analyses as required by Table 1 (below)
- \_\_\_\_\_ 4. For each month in the reporting period: avg., lowest, highest rates (gpm) + total volume (gal) injected and flowed through the main flow and bypass piping under operating conditions
- \_\_\_\_\_ 5. Data from samples or measurements obtained from drain-field monitoring point and monitoring well (piezometer)
- \_\_\_\_\_ 6. Summary narrative report of monitoring activities for that reporting period. The report shall include, but not be limited to, any problems encountered with the system, results of any tests performed, and any changes to the groundwater.

**Table 1. Monitoring Requirements**

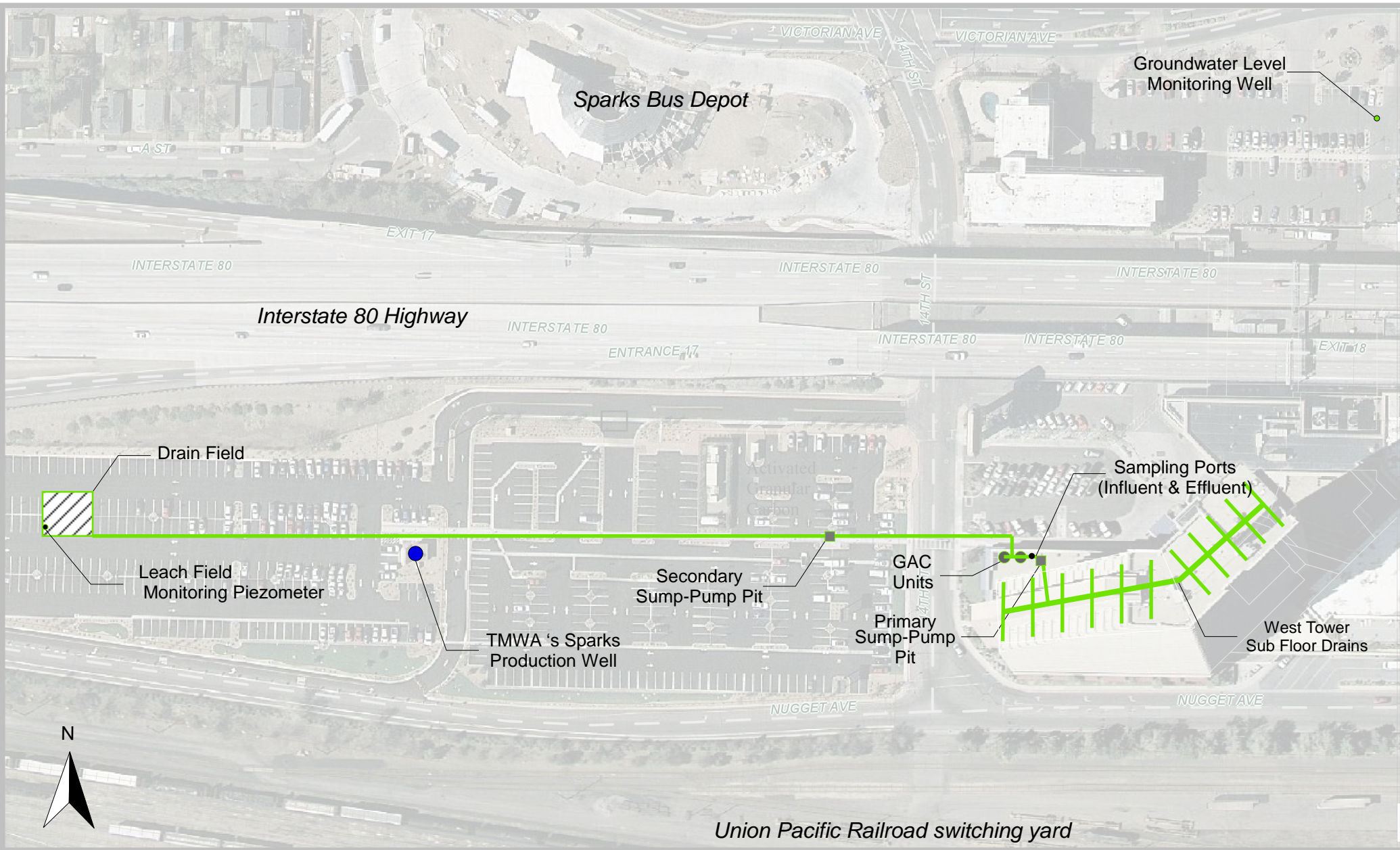
<b><u>Monitoring Parameters</u></b>	<b><u>Sampling Location/List</u></b>	<b><u>Discharge Limitations</u></b>	<b><u>Monitoring Requirements</u></b>	
			<b><u>Frequency</u></b>	<b><u>Sample Type</u></b>
Flow (gal, gpm)	FM1 <sup>1</sup> (Figs. 1, 2)	200 gpm (30-day average)	Continuous (rec. daily <sup>3</sup> )	Meter
Bypass Flow (gal, gpm)	FM2 <sup>2</sup> (Figs. 1, 2)	Monitor & Report	Continuous (rec. daily <sup>3</sup> )	Meter
Volatile Organic Compounds <sup>4</sup>	Sample Port NUGEFF (Fig. 2) EPA Method 8240 Extended List	Drinking Water Standards	Quarterly	Discrete
Total Organic Carbon <sup>4</sup>	Sample Port NUGEFF (Fig. 2)	Monitor & Report	Quarterly	Discrete
Dissolved Organic Carbon <sup>4</sup>	Sample Port NUGEFF (Fig. 2)	Monitor & Report	Quarterly	Discrete
Total Petroleum Hydrocarbons <sup>4</sup>	Sample Port NUGEFF (Fig. 2)	Monitor & Report	Quarterly	Discrete
Nitrate as N	Sample Port NUGEFF (Fig. 2)	Monitor & Report	Quarterly	Discrete
Water Table Depth (ft/in or m/cm)	Leach Field Piezometer (Fig. 1)	Monitor & Report	<sup>2</sup> Monthly	Discrete

**Notes:**

- 1) Totalizing flow meters on dewatering system piping.
- 2) Flow meter on emergency by-pass piping downstream of sump.
- 3) If the treatment system discharge exceeds one-half the infiltration field design capacity, the measurement frequency will be modified to once per week for one (1) month; if data for this period indicates proper operation, the measurement frequency will be returned to a quarterly basis.
- 4) See attached sample analyte lists.

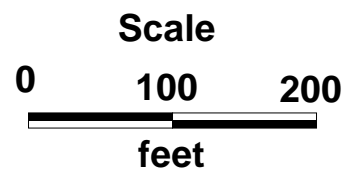


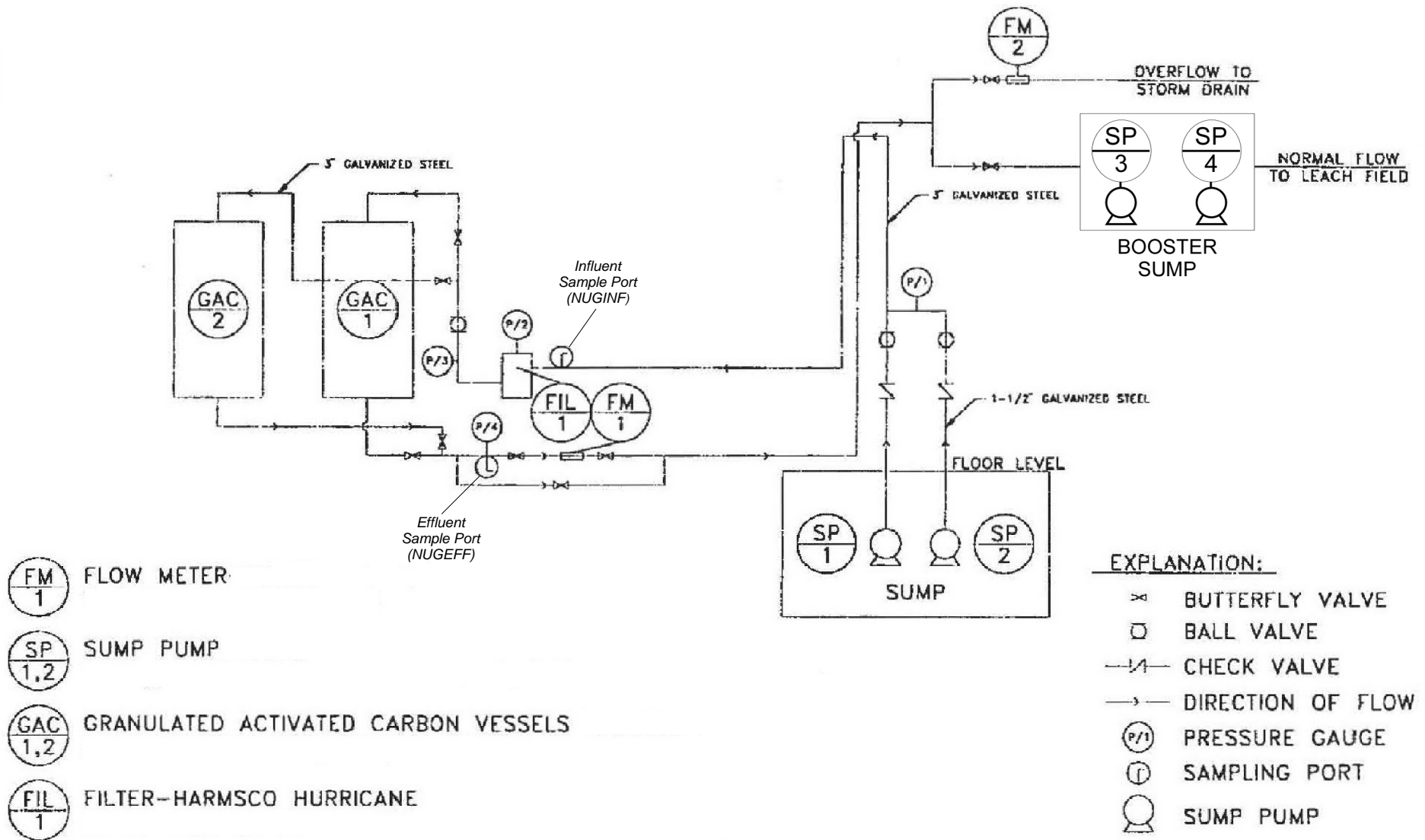




- Location of sub-basement dewatering collection pipes and remediation system discharge
- Location of TMWA Production well.

**Figure 1**  
**Site Plan**  
**West Tower Dewatering System**  
**Nugget Casino Resort, Sparks, Nevada**





**FIGURE 2**  
**DEWATERING AND TREATMENT SYSTEM SCHEMATIC**  
**WEST TOWER II**  
**NUGGET HOTEL CASINO, SPARKS NEVADA**

**Nevada Division of Environmental Protection  
Underground Injection Control Program - Sampling and Monitoring Report Form**

<b>Facility Name :</b>	<b>Sampled-water origin (ft bgs TVD) :</b>
<b>Facility Owner:</b>	<b>County:</b>
<b>NDEP UIC Permit # :</b>	<b>Loc:</b> Proj                      Lat                                      Long
<b>Well No.:</b>	<b>Sampler :</b>
<b>Type of Well:</b> Mon   Obs   Prod   Inj	<b>Date Sampled :</b>

**UIC Sample List - Extended Inorganics**

**Name of Laboratory :**

Parameter	Units	DW Standards	Results	Method
total dissolved solids	mg/L	500 - 1000		Approved analytical methods can be found at the Bureau of Safe Drinking Water website <a href="https://ndep.nv.gov/water">https://ndep.nv.gov/water</a>
pH	standard units	6.5 - 8.5		
chloride	mg/L	250 - 400		
fluoride	mg/L	4		
sulfate	mg/L	250 - 500		
nitrate (as nitrogen)	mg/L	10		
nitrite (as nitrogen)	mg/L	1		
aluminum	mg/L	0.05-0.2		
antimony	mg/L	0.006		
arsenic	mg/L	0.01		
barium	mg/L	2		
beryllium	mg/L	0.004		
cadmium	mg/L	0.005		
chromium	mg/L	0.1		
copper	mg/L	1.0-1.3		
lead	mg/L	0.015		
iron	mg/L	0.3 - 0.6		
magnesium	mg/L	125 - 150		
manganese	mg/L	0.1		
mercury	mg/L	0.002		
nickel	mg/L	--		
selenium	mg/L	0.05		
silver	mg/L	0.05		
thallium	mg/L	0.002		
zinc	mg/L	5		
total uranium	ug/L	30		
adjusted gross alpha*	pci/L	15		
gross beta	mrem	4		
alkalinity (CaCO3)	mg/L	-		
bicarbonate	mg/L	-		
boron	mg/L	-		
calcium	mg/L	-		
carbonate	mg/L	-		
Elect. Conductivity	umhos/cm	at 25 degC		
lithium	mg/L	-		
molybdenum	mg/L	-		
phosphorus, total	mg/L	-		
potassium	mg/L	-		
silica	mg/L	-		
sodium	mg/L	-		
total suspended solids	mg/L	-		
turbidity	NTU	-		

Comments:

Rev 4/2019

**Note: A completed UIC U230 Form is required for all UIC-related samples** (produced, injected, & monitoring point waters)  
 Detection limits must be at least as low as primary or secondary drinking water standards where applicable.  
 Nevada Certified Laboratory must be used for all UIC samples, lab must be certified the method being used.  
 Metals shall be sampled and analyzed as total metals. Please indicate detection limit instead of stating "Non-Detect" or "ND".  
 When TDS is high, 200.8 can't be used. See EPA's Approved  
 Methods for Inorganic Chemicals and Other Contaminants at <https://www.epa.gov/dwanalyticalmethods>  
 \*Adjusted gross alpha particle activity doesn't include radon and uranium activity.



**Nevada Division of Environmental Protection  
Underground Injection Control Program - Sampling and Monitoring Report Form**

<b>Facility Name :</b>	<b>Sampled-water origin (ft bgs TVD) :</b>
<b>Facility Owner:</b>	<b>County:</b>
<b>NDEP UIC Permit # :</b>	<b>Loc: Proj      Lat      Long</b>
<b>Well ID # :</b>	<b>Sampler :</b>
<b>Type of Well :</b> Mon.   Obs.   Prod.   Inj.	<b>Date Sampled :</b>
<b>Lab Name:</b>	

***UIC Sample List - Extended Volatile Organics (EPA Method 8260B) - page 1 of 2***

Parameter	DW Hlth Advis	PRG	DW Std	DW Std	Measured Values	
	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L
1,1,1,2-Tetrachloroethane	1	Jan-00				
1,1,1-Trichloroethane (TCA)			0.2	200		
1,1,1,2,2-Tetrachloroethane	0.2	0.055	*	*		
1,1,2-Trichloroethane			0.005	5		
1,1-Dichloroethane		810	*	*		
1,1-Dichloroethene			0.007	7		
1,1-Dichloropropene			*	*		
1,2,3-Trichlorobenzene						
1,2,3-Trichloropropane	40	0.0056				
1,2,4-Trichlorobenzene			0.07	70		
1,2,4-Trimethylbenzene		12	*	*		
1,2-Dibromo-3-chloropropane (DBCP)			0.0002	0.2		
1,2-Dibromoethane (EDB; 1,2-Dibromomethane)			0.00005	0.05		
1,2-Dichlorobenzene (o)			0.6	600		
1,2-Dichloroethane			0.005	5		
1,2-Dichloropropane			0.005	5		
1,3,5-Trichlorobenzene						
1,3,5-Trimethylbenzene		12				
1,3-Dichloropropane		120	*	*		
2- and 4-Chlorotoluene (o and p)	100	120 for (o)				
2,2-Dichloropropane			*	*		
2-Butanone (Methyl ethyl ketone)	7,500 (acute)	7,000				
2-Hexanone						
4-Isopropyltoluene (p-cymene)			*	*		
4-Methyl-2-pentanone						
Acetone		5,500				
Benzene			0.005	5		
Bromobenzene	4,000 (acute)	20	*	*		
Bromochloromethane	90					
Bromodichloromethane			0.0**	0.0**		
Bromoform			0**	0.0**		
Bromomethane (Methyl bromide)	10	8.7	*	*		
Carbon tetrachloride			0.005	5		
Chlorobenzene			0.1	100		
Chloroethane		4.6				
Chloroform			0.08**	80**		
Chloromethane	3	160				
cis and trans-1,3-Dichloropropene	0.4	0.4 for Total				
cis-1,2-Dichloroethene (DCE)			0.07	70		

DW Health Advisories (chronic) are from USEPA Region 9, Drinking Water Standards and Health Advisories Table, February 2004. Preliminary Remediation Goals (PRGs) for tap water are from USEPA Region 9, October 2004. The lowest of these concentration levels is considered to be the State Action Level when there is not a Federal Maximum Contaminant Level (MCL).

- \* On Drinking Water Contaminant Candidate List 2.
- \*\* MCLG. MCL for this constituent of Total Trihalomethanes is 0.080 mg/L or 80 µg/L.
- \*\*\* State of Nevada Action Level dependant on distance to sensitive receptors.
- \*\*\*\* The MCL for the sum of all xylenes is 10.0 mg/L or 10,000 µg/L.
- \*\*\*\*\* 1983 Consent Order Discharge Limit

**Nevada Division of Environmental Protection  
Underground Injection Control Program - Sampling and Monitoring Report Form**

<b>Facility Name :</b>	<b>Sampled-water origin (ft bgs TVD) :</b>
<b>Facility Owner:</b>	<b>County:</b>
<b>NDEP UIC Permit # :</b>	<b>Loc:</b> <i>Proj</i> <i>Lat</i> <i>Long</i>
<b>Well No.:</b>	<b>Sampler :</b>
<b>Type of Well:</b> Mon    Obs    Prod    Inj	<b>Date Sampled :</b>
<b>Lab Name:</b>	

**UIC Sample List - Extended Volatile Organics (EPA Method 8260B) - page 2 of 2**

Parameter	DW Hlth Advis	PRG	DW Std	DW Std	Measured Values	
	µg/L	µg/L	mg/L	µg/L	mg/L	µg/L
Dibromochloroethane						
Dibromochloromethane			0.060**	60**		
Dibromomethane						
Dichlorodifluoromethane (Freon 12)	1000	390				
Dichloromethane (Methylene chloride)			0.005	5		
Dimethylsulfide						
Di-isopropyl Ether (DIPE)						
Ethyl Tertiary Butyl Ether (ETBE)						
Ethylbenzene			0.7	700		
Isopropylbenzene (cumene)	11,000 (acute)	660				
Isopropyltoluene						
Methyl tert-butyl ether (MTBE)			0.20 or 0.020***	200 or 20***		
n-Butylbenzene		240				
n-Propylbenzene		240				
sec-Butylbenzene		240				
Styrene			0.1	100		
tert-Butyl formate (TBF)						
tert-Butylbenzene		240				
Tertiary Amyl Methyl Ether (TAME)						
Tertiary Butyl Alcohol (TBA)						
Tetrachloroethene (PCE)			0.005	5		
Toluene			1	1,000		
Total Trihalomethanes (add ** compounds)			0.08	80		
trans-1,2-Dichloroethene (DCE)			0.1	100		
Trichloroethene (TCE)			0.005	5		
Trichlorofluoromethane (Freon 11)	2,000	1,300				
Vinyl chloride			0.002	2		
Xylenes - (o)						
Xylenes - (m,p)						
Total Xylenes - (o) and (m,p)			10.0****	10,000****		

**Specific tentatively-identified compounds:**

Ethyl ether (ether)		1,200				
1-Nitropropane						
2-Nitropropane		0.0012				
Polyethylene glycol						
2,2,2-Trichloroethanol						

DW Health Advisories (chronic) are from USEPA Region 9, Drinking Water Standards and Health Advisories Table, February 2004. Preliminary Remediation Goals (PRGs) for tap water are from USEPA Region 9, October 2004. The lowest of these concentration levels is considered to be the State Action Level when there is not a Federal Maximum Contaminant Level (MCL).

\* On Drinking Water Contaminant Candidate List 2.

\*\* MCLG. MCL for this constituent of Total Trihalomethanes is 0.080 mg/L or 80 µg/L.

\*\*\* State of Nevada Action Level dependant on distance to sensitive receptors.

\*\*\*\* The MCL for the sum of all xylenes is 10.0 mg/L or 10,000 µg/L.

\*\*\*\*\* 1983 Consent Order Discharge Limit

**Nevada Division of Environmental Protection  
Underground Injection Control Program - Sampling and Monitoring Report Form**

<b>Facility Name :</b>	<b>Sampled-water origin (ft bgs TVD) :</b>
<b>Facility Owner:</b>	<b>County:</b>
<b>NDEP UIC Permit # :</b>	<b>Loc:</b> <i>Proj</i> <i>Lat</i> <i>Long</i>
<b>Well No.:</b>	<b>Sampler :</b>
<b>Type of Well:</b> Mon    Obs    Prod    Inj	<b>Date Sampled :</b>

**UIC Sample List - Miscellaneous**

Lab Name: \_\_\_\_\_

Parameter	DW Hlth Advis	PRG	DW Standards	DW Standards	Measured
	µg/L	µg/L	mg/L	µg/L	

**Total Petroleum Hydrocarbons (TPH):**

TPH - Gasoline Range Organics					
TPH - Diesel Range Organics					
TPH - Oil Range Organics					
Total Organic Carbon					
Dissolved Organic Carbon					

DW Health Advisories (chronic) are from USEPA Region 9, Drinking Water Standards and Health Advisories Table, February 2004.

Preliminary Remediation Goals (PRGs) for tap water are from USEPA Region 9, October 2004. The lowest of these concentration levels is considered to be the State Action Level when there is not a Federal Maximum Contaminant Level (MCL).

\* On Drinking Water Contaminant Candidate List 2.

\*\*\*State of Nevada Provisional Action Level

\*\*\*\* EPA Proposed injection limit for Montrose superfund site, California







**Nevada Division of Environmental Protection**  
**Bureau of Water Pollution Control**  
**Underground Injection Control Program**  
 901 S. Stewart St Ste 4001  
 Carson City Nevada 89701  
 Ph: 775-687-9418 Fx: 775-687-4684

## UIC Form U230 – Field Sampling & Monitoring Summary

**This form is to be completed in the field for all UIC water samples to document the sampling location facts and events, and submitted with the sample results.**

**Sample Date:** (mm/dd/yy) \_\_\_\_\_

**Complete All Applicable Blanks – Water samples can be rejected if information not provided.**

FACILITY AND PERMIT INFORMATION	
Well Name & No.:	UIC Permit No.:
Is there any well name or identification at the wellhead?	<input type="checkbox"/> YES <input type="checkbox"/> NO      If no, label should be placed on or near wellhead
Project/Facility Name:	
Well Location (Section/TR or Lat/Long) :	
City/Valley:	County:
Sample for (circle one):    NEW WELL    ROUTINE REPORTING    Other: _____	
Reporting Frequency: <input type="checkbox"/> Semi-annually <input type="checkbox"/> Annually <input type="checkbox"/> Other _____	
SAMPLE LOCATION or WELL INFORMATION	
Well / Location Type:	Water/Domestic Well    Monitoring    Geo-Prod    Geo-Injection    Geo-Observation    Discharge Pipe Oil Water Separator    Holding Tank    Pond    Septic Tank    Other: _____
(Note: If sample location is not a well (e.g. spring, pond, pipeline, tank), please provide all relevant data on sample location in the space below)	
<b>Non-well location:</b>	
Completion date of well/tank:	
Diameter of casing:	Type of Casing:    Steel    PVC    Other: _____
Total depth of well:	
Bottom depth of cement for last cemented casing string:	
Screened or open hole interval (top/bottom depths):	
STATUS OF WELL / SAMPLE LOCATION	
Condition or Activity of well during past week/month, prior to sampling:	
Discuss any field conditions the Division should be aware of with regard to this sample:	
Was the well secured upon arrival?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Was there any problems or damage to the well upon arrival	<input type="checkbox"/> YES <input type="checkbox"/> NO
Was well in an artesian condition prior to sampling? :	<input type="checkbox"/> YES <input type="checkbox"/> NO
WATER LEVEL – WELL GAUGING	
Last date well/sample location (e.g. tank) gauged (mm/dd/yy) :	Depth to water - last event:
Method used to gauge well/location? :	Cap Tube    Tape Measure    Other: _____
Measured Water Level :	



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**UIC Form U230 – Field Sampling & Monitoring Summary**

SAMPLING INFORMATION			
Date sample collected (mm/dd/yy) :		Time Sampled :	
Name of Sampler :			
Location sample taken (be specific) e.g "sample port in pipeline 10 feet from wellhead" :			
Type of Sample (circle one) :	<input type="radio"/> Grab <input type="radio"/> Composite              other (specify):		
Collection method (circle one) :	<input type="checkbox"/> well bailed <input type="checkbox"/> water pumped <input type="checkbox"/> artesian flow <input type="checkbox"/> air/gas lift		
Collection method/ non-well Describe how sample was taken:			
How much fluid (gallons or well volumes) was discharged / purged before collecting sample? :			
<b>Filtering Note:</b> UIC requirements specify water samples <u>shall not be filtered</u> , unless previously approved. If filtration is approved, sample shall be filtered with a 1.0 micron filter, not 0.45 micron. If approved, document date of approval: _____			
Was the sample filtered? :	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Was conductivity measured during discharge to establish stabilized conditions?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Was decontamination procedures (reference O & M?) followed during sampling of multiple wells	<input type="checkbox"/> YES <input type="checkbox"/> NO		
FIELD MEASUREMENTS			
pH : S. Conductivity : Temperature :			
What UIC Sample List is <u>required</u> :	<input type="checkbox"/> UIC List 1 <input type="checkbox"/> UIC List 2 <input type="checkbox"/> UIC List 3              Other**: _____		
** Other constituent listed must have prior UIC approval before using			
Were any holding times exceeded?	<input type="checkbox"/> YES <input type="checkbox"/> NO		
In Final sample documentation, ensure all results are reported with appropriate units. If measurements are below detection limits, indicate detection limit value.  <b>DO NOT REPORT VALUES AS NON-DETECT OR ND, INSTEAD REPORT as &lt;(Detection Limit Value)</b>			
FORM PREPARATION			
Project Manager:			
Company:			
Telephone No.:	eMail Address:		
Signature:	Date:		
Qualified Sample Person:			
Company:			
Telephone No.:	eMail Address:		
Signature:	Date:		

Attachments: