

Joe Lombardo, *Governor* James A. Settelmeyer, *Director* Jennifer L. Carr, *Administrator* 

June 3, 2025

Erica Freese Director, Business Development ORNI 37 LLC (Ormat) 6140 Plumas Street Reno, Nevada 89519

**RE:** Underground Injection Control (UIC) Temporary Permit UNEV2007204T2025-1 REVISED Steamboat Geothermal Power Project, Washoe County, Nevada Increase in Injection Rate Limit from 49,500 gpm to 55,000 gpm for Injection Wells: IW-1, IW-4, IW-5, IW-6, 21-32, 42A-32, and 64A-32

Dear Ms. Freese,

The Nevada Division of Environmental Protection – Bureau of Water Pollution Control (NDEP-BWPC) grants authorization for an increase in injection rate limit, from 49,500 gpm to 55,000 gpm for the injections wells listed above under Temporary UIC Permit UNEV2007204T2024-1.

This temporary permit is issued under the authority of NAC 445A.890.1(b) and is valid for 180 days or until the Division takes final action on the pending major modification application dated February 12, 2025 (request originally submitted as a renewal on January 30, 2025), pursuant to NAC 445A.890.5.

Initial and continued injection under this temporary permit is contingent on Ormat complying with the following schedule of compliance:

Schedule of Compliance			
Requirement	NAC Reference	Date from UNEV2007204T2025-1 Issuance	
Notification to TMWA	NAC 445A.842	PRIOR TO INITIAL INJECTION	
Implement additional Monitoring Plan requirements as detailed in Section V. of this Temporary Permit	NAC 445A.867 NAC 445A.912 NAC 445A.913 NAC 445A.921	At Commencement of Injection	
Complete Area of Review (AOR) analysis based on the project area. Provide land ownership showing APN and lease number, project area boundary and 1-mile buffer around project area.	NAC 445A.867 NAC 445A.897 NAC 445A.898	Within 14 Days	
Provide Description, Maps and Cross Sections of Regional Ground Water: For each injection well listed in this Temporary Permit authorization. Provide the drill logs and include a description and lithology of the injection zone.	NAC 445A.867	Within 14 Days	

901 S. Stewart Street, Suite 4001 • Carson City, Nevada 89701 • p: 775.687.4670 • f: 775.687.5856 • ndep.nv.gov

Schedule of Compliance			
Requirement	NAC Reference	Date from UNEV2007204T2025-1 Issuance	
Provide list of all additives and copies of all signed and approved U240 chemical use request forms.	NAC 445A.867	Within 14 Days	
Provide fracture pressure for each injection well. Show calculations and list any assumptions used.	NAC 445A.899 NAC 445A.911	Within 14 Days	
Provide a comprehensive description of the pumps utilized in the facility. This needs to include the make and model, as well as operating parameters such as pump rate and pressure.	NAC 445A.867	Within 14 Days	
Provide a table listing all production and injection wells, test wells, and monitoring wells, including the following information: installation date, if permitted, dates of active injection or production during the monitoring/reporting period, well depth, slotted/perforated and/or open depths, type, operational status, name/ID, location, and any other relevant information.	NAC 445A.867	Within 30 Days	
Provide current well diagrams for each injection well; including project -wide flow schematic showing flow rates	NAC 445A.867	Within 30 Days	
Plan for monitoring the elevation or quality of groundwater within the Area of Review.	NAC 445A.867	Within 30 Days	
An updated and comprehensive plugging cost estimate plan including type, number, and placement of plugs to be used, a description of the grade, type, and quantity of cement, and the method to be employed for plug placement.	NAC 445A.867 NAC 445A.871	Within 30 Days	
Update Operation and Maintenance Manual. (See NDEP Form – UIC Minimum Info Requirements for O&M Manual – Geothermal Projects)	NAC 445A.869	Within 30 Days	

Should the applicant pursue a flow increase to 70,000 gpm, the Division will require a formation testing program. The formation testing program should include modeling at the requested flow rate using the most recent data. Include any assumed values, constants, etc. Update the modeling to reflect the 2025 data and values and include the flow boundary for the 70,000 GPM scenario, ensuring it shows no well contamination.

Please read the conditions, requirements, and limitations specified in the permit carefully; and contact me at the email address or phone number below if you have any questions.

Respectfully,

Jeffrey Kinder

Jeffrey Kinder, P.E. Deputy Administrator Nevada Division of Environmental Protection jkinder@ndep.nv.gov (775) 687-9307

Encl: Temporary UIC Permit UNEV2007204T2025-1 REVISED

Ecc: Jennifer Carr, P.E., C.P.M., CEM, Administrator, NDEP
 Andrew Dixon, Chief, Bureau of Water Pollution Control
 Bret Allen, Supervisor, UIC/OSDS Branch, Bureau of Water Pollution Control
 Andrew Kowler, Environmental Scientist, UIC/OSDS Branch, Bureau of Water Pollution Control
 Lauren Bowen, Staff Engineer, UIC/OSDS Branch, Bureau of Water Pollution Control
 Lisa Aleman, Environmental Scientist, UIC/OSDS Branch, Bureau of Water Pollution Control
 Rob Ghiglieri, Administrator, NDOM
 Dustin Holcomb, Fluid Minerals Program Manager, NDOM
 Alex Jensen, State Geothermal Lead, Nevada State Office, BLM

#### STATE OF NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

## **TEMPORARY AUTHORIZATION TO INJECT/DISCHARGE**

In compliance with the provisions of the Nevada Revised Statutes (NRS) 445A and the Underground Injection Control (UIC) Regulations in the Nevada Administrative Codes (NAC) 445A.810 to 445A.925, inclusive, the Permittee is authorized to inject and discharge from the wells described below in accordance with the conditions, requirements, and limitations specified in the permit.

<b>TABLE A. Temporary UIC Permit Information</b>			
General	Information		
UIC Permit	UNEV2007204T2025-1		
Site/Facility	Steamboat Geothermal Power Project		
Permittee	ORNI 6 LLC		
Permittee Mailing Address	6884 Sierra Center Parkway, Reno, Nevada 89511		
Property Owner(s)	Varies (See Application)		
Well Owner/Operator	Ormat Nevada Inc.		
Well Owner/Operator Address (if different from Permittee)	1010 Power Plant Drive, Reno, Nevada 89511		
Municipality & County	Washoe County		
Legal Description (PLSS: MDB&M)	T17/18N, R20E, Sections 5, 6, 28, 29, 32, 33		
Wells Authorized for Increased Injection Rate Under This Temporary Permit	IW-1, IW-4, IW-5, IW-6, 21-32, 42A-32, 64A-32		
Associated WPC Discharge Permit(s)	UNEV2007204		
Combined Nameplate Capacity	Steamboat Geothermal Power Project – 115.5 MW Galena 1 – 24 MW Galena II – 13.5 MW Galena III – 24 MW Steamboat Hills Re-Power – 30 MW Steamboat 2 – 12 MW Steamboat 3 – 12 MW		

Coverage for the injection wells listed above shall **Become Effective on**: May 30, 2025

## This Permit Expires on:

This Temporary Permit is valid for 180 days or until the Division takes final action on the pending major modification application dated February 12, 2025, pursuant to NAC 445A.890.5.

effrey Kinder

Date: June 3, 2025

Jeffrey Kinder, P.E. Deputy Administrator Nevada Division of Environmental Protection

TABLE B. Injection Parameter Limits			
Injection Well	Maximum Allowable Wellhead Pressure (NAC 445A.911)		Date Approved
	(psig)	(gpm)	
IW-1 (45-28)	350	No Limit	Pre-1990
IW-2	243	No Limit	Pre-1990
IW-4 (35-28)	260	No Limit	Pre-1990
IW-5 (46-28)	171	No Limit	Pre-1990
IW-6	192	No Limit	Pre-1990
64A-32	450	No Limit	3/21/2007
23-33	375	No Limit	1/22/2008
14-33	322	No Limit	8/26/2014
14A-33	151	No Limit	8/26/2014
43-33	148	No Limit	10/14/2015
21-32	237	2,800	5/17/2016
42А-32	225	No Limit	2/5/2019
TOTAL	The combined injection rate for all wells averaged over a one-month period will not exceed 55,000 gpm.		

## SECTION I. Injection Well Information and Injection Parameter Limits

TABLE C. Surface Basins				
Surface Basin Volume Dimension				
	(1,000 US Gallons)	(1,000 ft <sup>3</sup> )		
Injection Well 21-32	350	~ 47		
Injection Well 64A-32	12,000	~ 1,800		
Injection Well 42A-32	175	~ 24		
Production Well 41-5	200	~ 27		
Production Wells 24-5 and 23-5	320	~ 43		
Production Wells 83B-6 and 83C-6	220	~ 30		
Production Well 13-5	190	~ 26		
Production Wells 21-5 and 21B-5	700	~ 96		
Production Well 28-32	300	~ 41		
Fire Water Pond 200 ft. SW of the Steamboat Hills Re-Power Plant	1,000	~ 144		

## SECTION II. General Conditions

- A. <u>Nevada UIC Permit Requirements for Geothermal Projects</u>. The Permittee shall comply with all requirements listed herein; and found in the *Nevada UIC Permit Requirements for Geothermal Projects* (See Attachment 4).
- B. Notice to Director of Failure to Comply with Terms of Permit. (NAC 445A.889)
  - If the noncompliance with a condition, requirement or limitation specified in the permit has caused or may cause migration into or between underground sources of drinking water or has introduced or may introduce a contaminant which endangers an underground source of drinking water, or otherwise endangers public health or the environment, <u>the Permittee shall notify the Director within 24</u> <u>hours after becoming aware of the circumstances</u>.
  - 2. If for any reason the Permittee does not comply with or will be unable to comply with the conditions, requirements and limitations specified in the permit, the holder shall provide the Director with the following written information within 5 days after becoming aware of his or her inability to comply:
    - a. A description of the condition, requirement, or limitation with which he or she cannot comply;
    - b. The period of the noncompliance including exact dates and times, or the anticipated time the noncompliance is expected to exist; and
    - c. A description of any action being taken to reduce or eliminate the probability of its recurrence.
- C. Injection / Discharge.

During the period beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to:

- 1. Inject geothermal fluids into the wells listed in Tables B and C of this permit into zones below the casing shoe of each well with the intent of recharging injected water into the same or comparable geothermal zone; and
- 2. As specified in the Operations and Maintenance Manual:
  - a. Discharge geothermal water derived from well start-ups, testing and maintenance into bermed discharge basins;
  - b. Upon notifying the Division and receiving written approval, inject cooling tower blowdown water into approved injection well(s).
  - c. Permittee shall submit documentation (UIC Form U240) on all chemical use requests, and receive Division written approval, prior to use.
- D. Change in Effluents or Discharge.
  - 1. All effluents or discharges authorized herein shall be consistent with the terms and conditions of this permit.
  - 2. 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.
  - 3. Any anticipated facility expansions or other activity which will result in new, different, or increased effluents or discharges must be reported to the Division by submission of a new application. A new application requires complete UIC forms U200 and U202, including all attachments required therein and any additional information requested. The Division will make a determination of whether the facility expansion or other activity requires a minor or major modification, and the appropriate application fee.
  - 4. If such changes will not violate the limitations specified in this permit provide notice to the Division of such changes. Following such notice, the permit may be modified to specify and limit any constituents not previously limited.

#### E. 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 non-complying effluent or discharge, to prevent any adverse impact to waters of the State resulting from noncompliance with any limitations specified in this permit.

#### F. Conformance to Plans and Specifications.

All facilities and ancillaries encompassed by this permit shall conform to the plans and specifications filed with the Division and shall be maintained in good working order at all times.

#### G. <u>Bypassing</u>.

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 Administrator in writing of each such diversion or bypass.

#### H. Contaminants.

Extraction, conveyance, and injection must be accomplished in a manner that prevents the introduction of a contaminant or foreign object not covered by this permit. All fluids extracted will be disposed of by injection with the exception of those discharges approved under Section IV. Fluids.

#### I. Applicable Standards of Other Governmental Agencies. (NAC 445A.843)

The provisions of any federal, state, county or municipal law or regulation establishing standards for injection wells which afford greater protection to the public welfare, safety, and health and to the groundwater prevail within the jurisdiction of that governmental entity over standards established by NAC 445A.810 to 445A.925, inclusive. Those sections do not replace, or in any way affect the responsibility of any person to comply with the regulations and rules of practice and procedure administered by any other governmental agency.

#### J. <u>Waste</u>.

All solid or hazardous waste shall be disposed of in accordance with the rules and regulations of the Division.

#### K. Spills.

All spills and releases shall be reported to NDEP's Spill Hotline as soon as possible, but no later than the end of the first working day of the release.

#### L. <u>Right of Entry</u>.

The Permittee shall allow the Administrator and/or their authorized representatives, upon the presentation of credentials:

- 1. 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; and
- 2. To have access to, and to copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to perform any necessary sampling to determine compliance with this permit or to sample any effluent or discharge.

#### M. Transfer of Ownership or Control.

No less than 30 days before a planned transfer of ownership, control, and/or management, the Permittee shall submit an original and signed UIC form U250.

#### N. 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.

O. 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:

- 1. Violation of any terms or conditions of this permit;
- 2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- 3. A change in any condition, or the existence of a condition, requires either a temporary or permanent reduction or elimination of the permitted activity.

#### P. Civil and Criminal Liability.

- 1. Nothing in this permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance.
- 2. 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.
- 3. 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.

#### Q. Schedule of Compliance.

- 1. A schedule for compliance must require compliance as soon as possible and in no case later than 1 year after the effective date of the permit. (NAC 445A.888)
- 2. With the consent of the holder of a permit issued pursuant to NAC 445A.810 to 445A.925, inclusive, and without public notice, the Director may make minor modifications to the permit to change an interim compliance date in a schedule of compliance if the new date is not more than 120 days after the date specified in the permit and does not interfere with attainment of the final compliance date requirements. (NAC 445A.902)
- R. <u>Records Retention</u>.

All records and information resulting from the monitoring activities required by this permit, including all records and analyses performed, calibration and maintenance of instrumentation, and recordings from instantaneous or continuous monitoring instrumentation, shall be retained for a minimum of three (3) years or longer if required by the Director.

#### S. <u>Renewal</u>.

This permit cannot be renewed, and no fee for the Annual Review and Services fee shall be assessed.

#### SECTION III. Limits

A. Injection Pressure.

The injection pressure at the wellhead shall not exceed the maximum pressure as calculated per NAC 445A.911(2). Calculations for all future wells and following workovers which introduce new injection zones shall be submitted to and approved by the Division prior to use of the well.

B. Temperature of the Discharged Fluids.

The temperature of discharged fluids shall not cause:

- 1. Degradation to ground water;
- 2. Degradation of well integrity; and/or
- 3. Harm to the public, wildlife and/or environment.
- C. Zone for Injection. (NAC 445A.839)
  - 1. Injected water shall remain in the zone for injection that has been identified through the UIC application process. Injected water must not migrate into unauthorized underground sources of drinking water (all aquifers within this State regardless of the quality of the water, except those exempted), shallow formations, or the surface.
  - 2. The Permittee is constrained to inject only those natural produced fluids from the project area that have received prior written approval from the Division.

#### D. Surface Discharge.

Surface discharge to basins shall be limited to those in the Operations and Maintenance Manual.

E. Chemical Additives.

The introduction of any chemical additive to the injectate requires written authorization from the Division through submission of UIC Form U240.

#### SECTION IV. Fluids

- A. Geothermal fluids shall be disposed of in such a manner that they do not present a hazard to livestock, wildlife, or the beneficial use of the waters of the State.
  - 1. Discharge basins associated with the permitted wells shall be fenced off and maintained in proper manner at all times so as to not allow wildlife or livestock to be endangered by these constructed devices or the water within them.
  - 2. If any wildlife is trapped or found dead in basins, <u>the Permittee shall notify the Nevada</u> Department of Wildlife within 24 hours after becoming aware of the discovery.
- B. Fluids derived from maintenance procedures or well testing may only be diverted on a short-term basis to separately permitted holding/discharge basins constructed for such located on the site. Fluids discharged to such ponds may contain previously approved additives. All discharge basins must be constructed according to the approved plan submitted and reviewed.
- C. No chemical additives shall be added to the geothermal fluids or cooling prior to injection or disposal without prior written approval by the Division (UIC Form U240 Chemical Request form). The use of any type of chemical additive in either the injectate or cooling system may require modification of monitoring requirements. All approved U240 Chemical Request forms shall be maintained in the Operations and Maintenance Manual. All chemical additives shall be inventoried and reported.
- D. Wastewater from the cooling tower shall not be discharged to the injection wells on this permit.

## SECTION V. Monitoring and Sampling Requirements

### A. Monitoring and Sampling Requirements.

Please submit Attachment 1 – *Check List Form* and Attachment 3 – *Reporting Format Templates* with every monitoring report.

The Permittee shall perform the following monitoring and sampling:

TABLE D. Monitoring and Sampling Requirements					
Sampling Point		Location	Water Level	Water Chemistry	New Requirements per this Temporary Permit
The sampling port power plant's outle	downstream of each t but prior to injection			Q, A	M – Water Chemistry
Monitoring Well	NDOT (behind Century Theatre)	NE-NW Sec. 28	Q	Q, A	M – Water Chemistry
Monitoring Well	Herz Domestic	SE-SE Sec. 20	Q	Q, A	M – Water Chemistry
Monitoring Well	Herz (Deep) (2007)		Q	Q, A	M – Water Chemistry
Monitoring Well	Boyd (Domestic)			Q, A	M – Water Chemistry
Monitoring Well	Soccer Field		Q	Q, A	M – Water Chemistry
Monitoring Well	Eich (Shallow, 45ft.)		Q	Q, A	M – Water Chemistry
Monitoring Well	MTH 12-33		Q		l l
Monitoring Well	Jeppson (Domestic)			Q, A	M – Water Chemistry
Monitoring Well	Jeppson		Q		l l
Monitoring Well	Rogers (Domestic)		Q	Q, A	M – Water Chemistry
Monitoring Well	43-33-1 (2015)	East Side of Pad	Daily measurement using water level meter		M – Water Chemistry
Monitoring Well	21-32-1 (2016)	N and W of WH	to bottom of well and wellhead pressure, See UNEV2007204, Part I.A.4.d for full Chem		M – Water Chemistry
Monitoring Well	21-32-2 (2016)	N and W of WH	conditions		M – Water Chemistry
Strat Wells	Well No. 2		Q		
Strat Wells	Well No. 5		Q		
Strat Wells	Well No. 7		Q		
Strat Wells	Well No. 9		Q		
Observation Well (for wellhead and	OW-1		Q		
bottom hole pressure only)	OW-2		Q		
- • *	OW-3		Q		

TABLE D. Monitoring and Sampling Requirements			
Fumaroles	21-32 Pad Location and 1,000 ft. WSW of 21-32 Pad	Log visual inspection twice a week (at least 3 days apart) for geothermal activity including fluid/gas emanations, boiling, ponding	
Note: M – Mon Q – Quar A – Annu	nthly (See Table E Below) rterly (See Table E below) ual (See Tables E and F be	low)	

## TABLE E. Water Chemistry Parameters for Quarterly Sampling (See Attachment 2 - UIC Sample List 2–Inorganic Extended)

Parameter	New Requirements per this Temporary Permit
Total Dissolved Solids, mg/l	
Electrical Conductivity (EC), umhos/cm, 25°C - FM	
Total Suspended Solids, mg/l	
pH Standard Units – FM	
Temperature – FM when sampled	
Alkalinity	
Antimony	
Arsenic	
Bicarbonate	
Boron	
Bromide	
Calcium	
Chloride	
Fluoride	
Lithium	
Magnesium	
Potassium	
Silica	
Sodium	
Sulfate	
	n-Pentane
	Isopentane
	Isobutane
Note: FM – Field Measurement	

TABLE F. Water Chemistry Parameters for Annual Sampling         (See Attachment 2 - UIC Sample List 2–Inorganic Extended)		
Parameter		
Copper		
Chromium		
Iron		
Manganese		

# TABLE F. Water Chemistry Parameters for Annual Sampling (See Attachment 2 - UIC Sample List 2–Inorganic Extended)

Mercury Zinc

TABLE G. Monitoring for Operating Parameters			
Operating Parameter	Location	Frequency	New Requirements per this Temporary Permit
Production Rate, gpm	Each production wellhead	Continuous	NA
Injection Rate, gpm	Power plant outlet	Daily	NA
	Flow meters at each injection well	Daily	NA
Injection Pressure, psig	Power plant outlet	Continuous	NA
	Each injection well	Daily	NA
Injection Temperature, F	Power plant	Continuous	NA
Produced Water Discharges to Discharge Basin, gpm	Discharge Point	Monitor flow rate and duration of discharge, calculate discharge based on these parameters	NA
Binary Fluid Volume	Power Plant	Report any additional of binary working fluid to the system during the reporting period and explain where the used fluid was lost in the process	NA

Note: All gauges used for compliance with this permit shall be calibrated pursuant to O&M Manual and documented in the monitoring reports.

#### B. <u>Accessibility</u>.

The Permittee shall notify the Division in writing immediately upon becoming aware of any situation that prevents access to any of the monitoring wells/points. The reason for this inaccessibility and corrective action measures necessary to resolve the situation shall be noted in the next UIC report.

#### C. Minimum Requirements.

- 1. Water samples shall be:
  - a. Collected by grab method; and
  - b. Unfiltered for metals analysis; unless otherwise approved by the Division in writing.
- 2. 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.
- 3. The detection limits for the constituents listed above must be at least as low as primary or secondary drinking water standards when applicable.
- 4. 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.
- 5. 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 Division prior to the sampling event. It must be clearly stated on all reports which analyses were performed.

- 6. Annual samples shall be collected during the same month each year.
- 7. Samples collected to satisfy monitoring requirements prescribed herein for characterization of ground water or surface water at different times, or time scales, relative to the period of injection authorized under this permit shall be collected during the same day.
- 8. Each water sample shall be collected using UIC Form U230 UIC Field Sampling & Monitoring Summary, a copy of which shall be sent to the UIC/OSDS Branch upon submission to the laboratory, as proof of submission, and included, along with the results of analyses, in the UIC report.
- 9. 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.
- 10. Samples and measurements collected/taken as required herein shall be representative of the volume and/or nature of the subject of interest.

#### D. <u>Recording of Results</u>.

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information using UIC Form U230 – UIC Field Sampling & Monitoring Summary. Information shall include:

- 1. The exact place, date, and time of sampling;
- 2. The dates the analyses were performed;
- 3. The person(s) who performed the analyses;
- 4. The analytical techniques or methods used;
- 5. The results of all required analyses; and
- 6. The precision and accuracy of the analytical data.

#### E. <u>Elemental Mercury</u>.

During all workovers, repairs, etc., of wells or in any part of the facility in contact with geothermal fluid sample geothermal fluid at wellhead and analyze for Elemental mercury

#### F. Additional Monitoring by Permittee.

If the Permittee monitors any constituent at the locations(s) designated herein more frequently than required by this permit, or monitors additional constituents than required by this permit, the results of such monitoring results shall be made available to the Division upon request.

The Permittee may increase monitoring frequency or increase the number of constituents analyzed at any of the location(s) beyond those required by this permit for technology or research purposes without disclosure of such additional analyses to the Division. The Permittee shall be in good standing with the Division and maintain compliance with all required reporting activities of this permit.

#### SECTION VI. <u>Reporting</u>

- A. The Permittee is required to notify the Division immediately upon becoming aware of:
  - 1. Any elevated water levels.
  - 2. Constituents in any wells or surface waters being monitored under the terms of this permit that exceed 1 standard deviation of non-outlier values.
  - 3. Any leaks in heat exchanger units or non-native fluid associated with any portion of infrastructure comprising the above- or below-ground fluid conveyance system, including but not limited to fluids used for cooling, lubrication, heat transfer, etc., associated with operations and maintenance.
  - 4. Depending on the magnitude of the change in elevation, change in constituents, or leaks, the Division may require the Permittee to conduct a hydrogeologic investigation, increase monitoring, cease injection and/or any other actions deemed necessary by the Division so as to determine the cause and/or any necessary mitigation.
- B. Permittee-signed hard 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 S. Stewart Street, Suite 4001 Carson City, NV 89701

- Attachment 1 NDEP Form Check List Form
- Attachment 2 NDEP Form UIC Sample List 2 Inorganic Extended
- **Attachment 3 NDEP Form Reporting Format Templates**

## Attachment 1 – NDEP Form – UIC Permit Requirements for Geothermal Projects