STATE OF NEVADA

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

UIC GENERAL PERMIT ID: GU26RC

SHORT-TERM GENERAL PERMIT FOR RESOURCE CONFIRMATION TESTING

AUTHORIZATION TO INJECT

In compliance with the provisions of the Nevada Revised Statutes (NRS) 445A, the Nevada Underground Injection Control Regulations (Nevada Administrative Codes 445A.810 through 445A.925), and the federal Underground Injection Control requirements of 40 CFR Part 144, eligible dischargers who have submitted a Notice of Intent (NOI) and application fee (NAC 445A.268) are authorized to inject fluids (i.e., solutions or mixtures of water with additives) as part of viability testing overseen by the Underground Injection Control (UIC) Program of the Nevada Division of Environmental Protection (NDEP) (or other oversight agency), into Class V injection wells in accordance with limitations, requirements, and other conditions set forth in Parts I and II hereof.

This general permit is valid for **no more than 180 days** and allows injection of fluids associated with resource viability testing of conventional geothermal power production (Category I) and lithium brine extraction projects (Category II). This Permit will be updated and renewed again by: **(5 years after issuance date)**

TABLE 1. UIC PROJECT INFORMATION	
UIC Permit Number	
Project Name/Type	
Project Address	
County	
Hydrographic Basin	
Permittee	
Permittee Address	
Property Ownership	
Legal Description (PLSS MDB&M)	
Latitude and Longitude (WGS 84)	
***Number of Permitted Wells**	
Reporting Frequency	Monthly

*See Appendix B, **Table B.1** for well specific information

CATEGORIES FOR INJECTION: Coverage under this general permit will be authorized if a Notice of Intent (NOI) is submitted and the injection falls under one of the following:

☐ **CATEGORY I**– Injection of geothermal brine into Class V injection wells for viability testing of conventional geothermal power production facilities.
☐ **CATEGORY II** – Injection of Lithium brine into Class V injection wells for the purpose of viability testing for lithium brine extraction operations.

TESTS AUTHORIZED UNDER THIS PERMIT:

☐ Reservoir tracer test
☐ Two-phase tracer test
☐ Fall-off testing
☐ Brine compatibility test
☐ Interference test
☐ Other(s)
☐ Step-rate test
☐ Constant-rate injection test
☐ Pressure/temperature/spinner logging
☐ Scaling potential test
☐ Mechanical integrity test

ADDITIVES AUTHORIZED UNDER THIS PERMIT:

☐ Scale inhibitor
☐ Two-phase tracer(s)
☐ Other(s)
☐ Lubricants
☐ Reservoir testing tracers
☐ Corrosion inhibitor

This permit is active for **180 days** from the effective date. If there is a delay in startup, the Division will acknowledge the date injection first occurred as the Issue Date (not to exceed 60 days from Effective Issue Date) and will expire 180 days after that date.

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

_____ _____
NAME | Title **Date**
Bureau of Water Pollution Control

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PART I

I.A GENERAL CONDITIONS

I.A.1 Injection Well Parameters and Limitations

The Permittee is authorized to inject into the wells listed in **Tables B.1** and in no case shall injection exceed the listed parameters.

I.A.2 Effect of Permit

The objective of this permit is to authorize the operation of Class V injection wells for testing at conventional geothermal or lithium brine extraction projects under the Underground Injection Control (UIC) program. Activities include tests to confirm resource viability and mechanical integrity tests (MITs) to verify wellbore integrity. This permit does not authorize the routine injection or operation of geothermal or lithium brine injection wells. For these routine operations, the facility must submit an individual permit application to NDEP. All activities must comply with UIC regulations to protect underground sources of drinking water and ensure environmental safety. This permit:

i. Ensures all injection and testing activities comply with NDEP UIC program regulations under NAC 445A.810 through 445A.925 and NRS 445A.300 through 445A.730 to protect underground sources of drinking water.
ii. Requires proper operation, maintenance, and monitoring of wells to prevent mechanical failure and fluid migration.
iii. Verifies that all procedures are performed correctly by qualified personnel and documented per regulatory standards.

I.A.3 Authority to Require an Individual Permit

Subject to the Nevada Administrative Code (NAC) 445A.894, the Director may require any person authorized to inject under a general permit to apply for and obtain an individual permit**.** The Permittee is only authorized to inject substances that are listed in **Part I.A.5** of this permit; any discharges other than those covered under this permit will require an individual UIC individual permit. If an individual permit is issued to a person holding a general permit for the same activity and discharge points, the general permit is automatically terminated on the effective date of the individual permit.

I.A.4 Eligibility

To be covered under this general permit, eligible permittees must demonstrate the technical and operational capability to comply with all applicable requirements under the Nevada UIC program, including those set forth in NAC 445A.810 through 445A.925 and NRS 445A.300 through 445A.730, to ensure the protection of underground sources of drinking water. Additionally, facilities must meet the following eligibility criteria:

i. **Category I:** Geothermal facilities that operate or intend to operate Class V injection wells for the purpose of viability testing for geothermal energy development.
ii. **Category II:** Lithium brine extraction facilities that operate or intend to operate Class V injection wells for the purpose of viability testing for lithium brine extraction operations.

I.A.5 Categories for Injection

During the period beginning on the effective date of this permit for a specific project and lasting until the

permit expires, the Permittee is authorized to inject:

i. **Category 1:** Geothermal brine produced from the same reservoir where it is being injected at the approved rates and pressures specified in Appendix B, **Table B.1.**
ii. **Category 2:** Lithium brine produced from the same formation where it is being injected at the approved rates and pressures specified in Appendix B, **Table B.1.**

I.A.6 Modification

The Permittee is authorized to inject only what is listed on page 1 of this permit; any action other than the discharges listed will require a permit modification. Any modification to the injection practices requires submission of changes and re-issuance of this permit by the UIC Program prior to implementation. For requested modifications outside the scope of this general permit, the Director may require the permittee to apply for an individual permit pursuant to **Part I.A.4**. Upon review, the Division may require the applicant to apply for a modification of this permit if there is concern about any project aspect.

I.A.7 Prohibited Activities

Activities not covered by this permit include:

i. Routine, long-term operations. Any routine operations beyond the allowed viability testing outlined in this Permit should be covered under an individual permit.
ii. Injection well workovers or cleanouts.
iii. Testing outside the scope of this Permit as described in **Part I.B.7**.
iv. Injection into formations or zones outside the scope of this Permit as described in **Part I.B.6**.
v. Discharges to the ground surface are not authorized under this permit except those which are covered by the submission and Division approval of a UIC Discharge Basin Form, found on the NDEP-UIC forms page.
vi. Except those authorized by the permit, the introduction of any chemical additive to the injectate or surface discharge waters is prohibited unless the permittee has received written authorization from the Division.
vii. The pressure for injection at the wellhead of an injection well must not exceed that which is calculated to initiate new fractures or propagate existing fractures in the zone for injection or the confining formation between the zone for injection and underground sources of drinking water per NAC 445A.911.

I.A.8 Timeframe

This Permit shall expire 180 days from the effective date as listed on **Page 2** of the Permit. If there is a delay in startup, the Division will acknowledge the date injection first occurred as the Issue Date (not to exceed 60 days from Effective Issue Date) and will expire 180 days after that date. Viability testing shall not last longer than 180 days; however, the Division may require shorter testing timeframes (e.g., 90 days) depending on the well, formation characteristics, and details of proposed testing.

I.A.9 Completion of Testing

Upon completion of the viability testing and expiration of this Permit, any well(s) covered under this permit shall be abandoned, temporarily abandoned upon Division approval, or covered under an individual UIC permit. If any wells are to be covered under an individual UIC permit, the Permittee shall submit an individual UIC permit application pursuant to NAC 445A.867. If any wells are to be abandoned, the Permittee shall submit a plugging and abandonment plan to the Division for approval. The well(s) shall be abandoned pursuant to NAC and 445A, 534, and 534b by filling them with cement grout from total depth to land surface. A driller licensed in the state of Nevada shall perform all abandonment work.

I.A.10 Schedule of Compliance

The Permittee shall implement and comply with the provisions of the schedule of compliance upon Division approval, including any additions or modifications which the Administrator may make in approving the schedule of compliance.

i. The Permittee shall achieve compliance with the conditions, limitations, and requirements of the permit at the commencement of relevant activity.
ii. The Permittee shall submit any items listed in this General Permit issuance letter as required.

I.A.11 Renewal

This permit cannot be renewed. If the Permittee wishes to continue injection, they shall apply to the Division for a new permit by submitting a new NOI which presents the data gathered from the previously permitted injection testing.

I.B LIMITS

I.B.1 Injectate Limitations

The injectate shall be limited and monitored by the Permittee, pursuant to the criteria listed below.

i. Only approved substances shall be injected, and only in the volumes and injection rates authorized.
ii. Injection practices shall not cause injectate and/or groundwater to surface at or near the injection points, or cause physical, biological, or chemical degradation of groundwater pursuant to the UIC regulations. Geothermal fluids shall be disposed in such a manner that they do not present a hazard to the public, livestock, wildlife or the beneficial use of the waters of the State.
iii. Monitoring and reporting shall be conducted pursuant to the following:
    a. the corresponding sampling required in **Part I.C.8**; and
    b. any additional UIC monitoring requirements identified in **Part I.C.6.** of this permit.
iv. If, during the operation of this facility, the Permittee or their representatives become aware of any condition that degrades the quality of an underground source of drinking water, injection shall cease immediately and the UIC Program shall be notified pursuant to **Part II.A.2.**

I.B.2 Additives

Introducing foreign materials or unapproved additives to the injection zone is prohibited. The use of any additive(s) requires written authorization from the Division prior to injection. Any proposed additive(s) shall be requested by submitting UIC Form U240, UIC Requests for Chemical Use, found on the NDEP-UIC forms webpage.

I.B.3 Injection Pressure

The injection pressure at the wellhead shall not exceed the maximum allowable injection pressure as specified in **Table B.1**.

I.B.4 Injection Temperature

The temperature of the injected fluids shall not cause degradation to groundwater, degradation of well integrity, or harm to the public, wildlife, or environment.

I.B.5 Injection Rate
The injection rate shall not exceed the maximum injection rate as specified in **Table B.1.**

I.B.6 Injection Zone
Injected fluids shall remain in the zone of injection per **NAC 445A.839.** The injected fluids shall not migrate outside of the permitted zone of injection, nor migrate to unauthorized underground sources of drinking water, shallow formations, or the surface.

I.B.7 Permitted Testing
The viability testing covered under this Permit shall be limited to the following types of tests:

i. Injection monitoring
ii. Reservoir tracer testing
iii. Two-phase tracer testing
iv. Interference testing
v. Step-rate testing
vi. Constant-rate injection testing
vii. Pressure, temperature, spinner logging.
viii. Mechanical integrity testing
ix. Brine compatibility testing
x. Scaling potential testing
xi. Other upon Division approval

I.B.8 Mechanical Integrity
Any well(s) covered under this Permit shall meet the requirements for mechanical integrity as specified in NAC 445A.916 through 445A.920 prior to injection activities covered under this general permit. The Division may, by written notice, require the Permittee to demonstrate mechanical integrity if loss of mechanical integrity is evidenced by well failure or by other information.

I.B.9 Loss or failure to demonstrate Mechanical Integrity
If the holder of the Permit or Division finds that an injection well fails to demonstrate mechanical integrity during a test or loss of mechanical integrity becomes evident during operation, the operation of the injection well must be stopped immediately and may not be resumed until approved by the division.

I.C MONITORING AND REPORTING REQUIREMENTS

I.C.1 Minimum Requirements for Sampling and Monitoring

i. Definition: “grab” sample means either a single discrete sample or individual samples collected over a 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.
ii. 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.
iii. The analytical method detection/reporting limits for regulated constituents must be at least as low as primary or secondary drinking water standards when applicable.
iv. **The UIC Program requires inorganic analyses of metals for “Total Metals”** in which

samples are not filtered and are preserved with 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 for which analysis was performed.

v. All gauges and/or flow meters used for compliance with this permit shall be calibrated pursuant to the O&M manual (or standard industry specifications) and documented in the monitoring reports.

vi. Any non-zero annulus values shall be reported if such a gauge exists on the wellhead.

vii. Water samples shall be 1) collected by grab method, and 2) unfiltered for metals analysis, unless otherwise approved by the Division in writing.

viii. Samples shall be collected at day 90 (± 10 days) and day 180 (± 10 days), or at the conclusion of testing, whichever occurs first.

ix. 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.

x. 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.

xi. 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.

xii. Monitoring points or constituents may be increased or decreased by the Division for good cause.

I.C.2 Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

i. Chain-of-custody sheets with the exact place, date, and time of sampling

ii. The dates the analyses were performed

iii. The person(s) who performed the analysis

iv. The analytical techniques or methods used

v. The results of all required analysis

vi. The precision and accuracy of the analytical data Raw laboratory data result sheets

I.C.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 other than those required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be made available to the Division.

I.C.4 Monitoring Well Requirements

The Permittee shall ensure samples are collected from at least one shallow monitoring well downgradient of the injection well to monitor for potential changes in groundwater quality due to injection. Exceptions for this requirement may be granted if the Permittee can demonstrate that injected fluids will not migrate out of the injection formation. Such demonstrations should be supported by available information such as confining layers, depth of formations, and depth and flow direction of groundwater. The Permittee may also include other available monitoring wells or water wells in any formation.

I.C.5 Springs Surveys and Monitoring

The Permittee shall conduct a visual survey within the AOR to observe if any new springs have been developed during the testing period. Surveys shall be done monthly and at completion of testing. The Permittee shall ensure samples are collected from at least one monitoring spring within the AOR if springs are present.

I.C.6 Modification of Monitoring Frequency, Location and Sample Type

After considering monitoring data, discharge flow or receiving water conditions, the Division may, for just cause, modify the monitoring frequency, location and/or sample type by issuing a Notice or an Administrative Order to the Permittee.

I.C.7 Records Retention

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 continuous monitoring instrumentation, **shall be retained for a minimum of five (5) years**, or longer if required by the Administrator.

I.C.8. Summary of Monitoring Parameters, Locations, and Frequencies

Summaries of the required sampling types, frequencies, and locations are shown below in **Table 2.**

TABLE 2. MONITORING REQUIREMENTS

Parameters	Frequency	Limitations and Conditions	Sampling or Monitoring Locations*
Injection Flow Rate – Average and Maximum (gpm)	Continuous	See Appendix B, Table B.1	Injection wellheads
Production Flow Rate (gpm) – Average, highest and lowest non-zero	Continuous	Monitor and report	Production wellheads
Injection Pressure (psi) - Average, highest and lowest non-zero	Continuous	See Appendix B, Table B.1	Injection wellheads
Annulus Pressure (psi)	Monthly	Monitor and report any nonzero values	Injection wellheads annulus gauge
Injection Temperature (°F)	Continuous	Monitor and report	Injection wellheads
Chemical Usage (lbs.)	Monthly	See Part I.B.2	N/A
Water discharges to reserve or basins	When discharges occur	Monitor flow rate and duration of discharge	Discharge basins
UIC Sample List 2 – Inorganics Extended	After 90 (± 10) and 180 (± 10) days of injection or conclusion of testing	Monitor and report	Injection wellheads Production wellheads Monitoring wellheads Selected springs
Selected UIC Sample List 3 – Organics	After 90 (± 10) and 180 (± 10) days of injection or conclusion of	Monitor and report	Injection wellheads Production wellheads Monitoring wellheads Selected springs

TABLE 2. MONITORING REQUIREMENTS			
Parameters	**Frequency**	**Limitations and Conditions**	**Sampling or Monitoring Locations***
	testing		
Total Petroleum Hydrocarbons (TPH); Total Nitrogen (TN); Total Phosphorus (TP); Total Organic Carbon (TOC)	After 90 (± 10) and 180 (± 10) days of injection or conclusion of testing	Monitor and report	Injection wellheads Production wellheads Monitoring wellheads Selected springs
Selected BTEX; **Selected** Per- and poly-fluoroalkyl substances (PFAS)	After 90 (± 10) and 180 (± 10) days of injection or conclusion of testing	Monitor and report	Injection wellheads Production wellheads Monitoring wellheads Selected springs
Reagents, solvents, and inhibitors used for extraction processes (if applicable)	Monthly	Monitor and report	Injection wellheads Production wellheads Monitoring wellheads Selected springs
Reservoir tracers (if applicable)	Monthly	Monitor and report	Injection wellheads Production wellheads Monitoring wellheads Selected springs

* Sampling/monitoring locations and parameters are variable by permit.

I.C.9 Reporting

The Permittee shall submit one monitoring report upon the conclusion of testing, in accordance with **Part I.C.1,** in a UIC Summary Report submitted to the UIC Program. Monitoring shall follow the parameters outlined in **Table 2** and submitted for all months during testing, whether injection was active or not. **The UIC Summary Report is due within 60 days of the conclusion of testing.** See **Appendix D** for a checklist of information to submit with the monthly reports.

I.C.10 Submitting UIC Summary Reports

Copies of the UIC Summary Report shall be submitted to the UIC program at the following address:

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

I.C.11 Required Sampling Period

Sampling for each well or monitoring point is required after 3 months (or day 90) of injection, and at the conclusion (or day 180) of testing. The Permittee shall conduct a full analysis of samples from the required monitoring locations in accordance with table 2 which may include the following constituents:

i. UIC Sample List 2
ii. UIC Sample List 3
iii. Total petroleum hydrocarbons (TPH)
iv. Per and poly-fluoroalkyl substances (PFAS)
v. Total nitrogen (TN)

vi. Total phosphorus (TP)
vii. Total organic carbon (TOC)
viii. Selected BTEX; Selected Per- and poly-fluoroalkyl substances (PFAS)
ix. Reagents, solvents, and inhibitors used for extraction processes (if applicable)
x. Reservoir tracers

II.A MANAGEMENT REQUIREMENTS

II.A.1 Change 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 concentration more than that authorized shall constitute a violation of the permit. Any anticipated facility expansions or treatment modifications that will result in new, different, or increased injections 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.

II.A.2 Noncompliance Notification
Notification shall be provided verbally as soon as possible but no later than the end of the first working day after the violation.

i. 5-Day Report: A written Report shall be submitted to the Division within five (5) days if, for any reason, the permittee is unable to or does not comply with the conditions, requirements and limitations specified in this permit. The permittee shall provide the Administrator or his representative with the following information:
    a. The exact dates, times, and duration of noncompliance
    b. The specific cause of noncompliance and exact location
    c. An estimated volume unauthorized discharge if applicable
    d. Identification of which injection well(s) are affected
    e. The corrective actions taken and anticipated time of continuance
    f. Steps taken or planned to reduce, eliminate, and prevent recurrence of noncompliance.

II.A.3 Spills
The permittee is responsible for carrying out notification in the event of a spill. If the permittee has acknowledged that a spill greater than 25 gallons or 3 cubic yards has occurred, notify the Division through the **NDEP Spill Hotline, 1-888-331-6337** as soon as possible and no later than one working day from the time of discovery. The permittee shall promptly notify the Administrator in writing, of each spill, in accordance with the procedure specified in **Part II.A.2** above.

II.A.4 Facilities Operation
The Permittee shall always 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.

II.A.5 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 injection or discharge, to minimize

any adverse impact to waters of the State resulting from noncompliance with any limitations specified in this permit.

II.A.6 Bypass
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, in accordance with the procedure specified in **Part II.A.2** above.

II.B RESPONSIBILITIES

II.B.1 Right of Entry
Pursuant to NRS 445A.655, the Permittee shall allow the Administrator and/or his authorized representatives, upon the presentation of credentials:

ii. 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
iii. To have access to and copy any records required to be kept under the terms and conditions of this permit
iv. To inspect any monitoring equipment or monitoring method required in this permit
v. To perform any necessary sampling to determine compliance with this permit or to sample any injection or discharge

II.B.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, as soon as possible, 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 of the Division of Environmental Protection shall approve all transfers of permits. 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.

II.B.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.

II.B.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:

i. Violation of any terms or conditions of this permit
ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts

iii. A change in any condition requires either a temporary or permanent reduction or elimination of the injection or discharge.

II.B.5 Civil and Criminal Liability

i. Nothing in this permit shall be construed to relieve the Permittee from civil or criminal penalties for noncompliance.
ii. 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.
iii. 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.

II.B.6 Duty to Comply

The Permittee shall comply with all provisions of the UIC regulations, NAC 445A.810 through 445A.925, 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.

PART III – APPENDICES

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APPENDIX A – INJECTION WELL MAP

APPENDIX B – INJECTION AND MONITORING WELL INFORMATION

TABLE B.1. INJECTION WELL INFORMATION							
Kettleman Well No.	**Legal Description (PLSS:MDB&M)**	**Latitude**	**Longitude**	**Total Depth (ft bgs)**	**Injection Zone (ft bgs)**	**Maximum Injection Pressure (psig)**	**Maximum Injection Rate (gpm)**

TABLE B.2. MONITORING INFORMATION					
Sampling/Monitoring Point	**Legal Description (PLSS:MDB&M)**	**Latitude**	**Longitude**	**Well Depth (ft bgs)**	**Screened Interval (ft bgs)**

APPENDIX C – NDOM/BWPC MEMORANDUM OF UNDERSTANDING

TABLE C.1. - NDOM/BWPC MEMORANDUM OF UNDERSTANDING			
Activity	**Time Frame**	**Required Action to NDEP**	**Approval required**
Construction of new, or conversion of existing well to, injection well		Submit Sundry Notice to NDOM, see NDEP website for any required documentation, or contact NDEP with questions about MIT testing. Provide approved Sundry Notice to NDEP.	NDOM approval
Initial injection to well	30 days prior notice to NDEP	UIC Completion Report – UIC Form U120, including mechanical integrity test, and submit water sample results.	Written approval to inject from NDEP after submission of Completion Report.
Any modification of injection well	Before work over	Submit Sundry Notice to NDOM, see NDEP website for any required documentation, or contact NDEP with questions about MIT testing. Submit completion report to NDEP, water sample if necessary.	NDOM approval NDEP written approval
	Before placing well back into service.		
Testing of injection well / MITs	45 days prior notice	Submit proposal to NDEP.	NDEP written approval
Construction of production well	within 60 days after completion of work	Submit well schematic with entry info, and results of water sample(s) of produced well water to NDEP.	n/a
Major modification of production well	within 60 days after completion of work	Submit updated well schematic, and results of water sample from well (examples: deepening, perforate casing, etc.).	n/a
Chemical Treatment of Water or Tracer tests	30 days prior notice	Submit UIC Form U240 to NDEP.	NDEP written approval
Well Stimulation/ Acidization		Submit Sundry Notice to NDOM.	NDOM approval

APPENDIX D – UIC MONITORING REPORT CHECKLIST

Please submit the information in the checklist below in monthly UIC Monitoring Reports. The checklist is applicable for both Category I and Category II projects. Provide a copy of the checklist with each report. Write "N/A" for items that are not applicable.

1. ___ UIC General Permit and unique ID number.
2. ___ Reporting period: (mm/dd/yyyy) - (mm/dd/yyyy)
3. ___ Individual/company reporting.
4. ___ Project name and address
5. ___ Documentation of most recent calibrations performed for all gauges used for compliance with this permit and indication of typical calibration schedule (e.g., annual). Include gauge location and type, and calibration frequency.
6. ___ List of which wells were used for injection, which wells were used for production (if applicable), and a list of monitoring wells. Include locations on a map.
7. ___ Injection rate and volume: for each week in the reporting period, report average, highest, and lowest (non-zero) injection rate (gpm), and total volume (gal or MGal)
8. ___ Injection pressure: for each week in the reporting period, report average, highest, and lowest nonzero injection pressures (psig)
9. ___ Temperature: average, lowest, and highest injection temperatures (ºF).
10. ___ Annulus pressure: for each week in the reporting period, report nonzero annulus pressure readings (psig) (if applicable).
11. ___ Production rate and total production: for each well and for each week in the reporting period, report average, highest, and lowest (non-zero) production rate (gpm), and total volume (gal or MGal)
12. ___ Estimated volume for each reporting period of fluid diverted to surface discharge and the character of each type of fluid diverted (i.e., production, injection, cooling tower blowdown, etc.).
13. ___ Additives: report the date, time, and concentrations of any additives added to the injectate. If no injection occurred during the reporting period, state so in report.
14. ___ Analytical results: submit the results of sampling analyses and monitoring as required by Table 2 (Section I.C.8). Include the UIC Form U230 for all measurements taken in the field and all water quality samples.
15. ___ A summary narrative describing any unusual activities or problems that had or have the potential to affect well integrity or water quality; include actions taken.
16. ___ The results of the visual survey to observe if any new springs have been developed during the testing period.
17. ___ Any tests performed on the wells (if applicable).
18. ___ Statement that all required corrective action reports (if relevant) have been provided to the appropriate regulatory agency.
19. ___ Name, title, and signature of authorized reporting individual.

Store but do not submit unless requested by NDEP

a. The chain of custody documents and laboratory analytical data shall not be submitted with the UIC Summary Report. These documents shall be held on site and made available upon request by the Division.

APPENDIX E – GLOSSARY

1. °F: degrees Fahrenheit
2. °C: degrees Celsius
3. AOR: Area of Review
4. CFR 144: Code of Federal Regulations part 144 – Underground Injection Control Program
5. Division: The Nevada Division of Environmental Protection
6. DWR: Division of Water Resources
7. EPA: Environmental Protection Agency
8. gal: gallons
9. gpm: gallons per minute
10. HMI: human reading interface
11. IW: injection well
12. hr: hour
13. Lb(s): pound(s)
14. MDB&M: Mount Diablo Base and Meridian
15. MIT: mechanical integrity test
16. MGal: million gallons
17. mg/L: milligrams per liter
18. MW: monitoring well
19. NDEP: Nevada Division of Environmental Protection
20. NDOM: Nevada Division of Mineral
21. ng/L
22. NOI: Notice of Intent
23. NRS 445A: Nevada Revised Statute Chapter 445A – Water Controls
24. NAC 445A: Nevada Administrative Code 445A – Water Controls
25. O&M manual: Operation and Maintenance Manual
26. pCi/L picocuries per liter
27. PLSS: Public Land Survey System
28. psig: pounds per square inch gauge
29. PW: production well
30. UIC: Underground Injection Control
31. umhos/cm: micromhos/cm
32. USDW: Underground source of drinking water
33. WGS-84: World Geodetic System 1984