THE STATE OF NEVADA

PERMIT TO APPROPRIATE WATER

Name of Permittee:	**SOUTHERN NEVADA WATER AUTHORITY**
Source:	**UNDERGROUND**
Basin:	**SPRING VALLEY**
Manner of Use:	**MUNICIPAL**
Period of Use:	**JANUARY 1ST THROUGH DECEMBER 31ST**
Priority Date:	**10/17/1989**

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APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued pursuant to State Engineer's Ruling No. 6164 dated March 22, 2012.

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. If the well is flowing, a valve must be installed and maintained to prevent waste. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water granted herein at any and all times.

The well must be sealed with cement grout, concrete grout or neat cement from ground level to 100 feet.

The total combined duty of water under Permits 54003 through 54015, 54019 and 54020 shall not exceed 61,127 acre-feet annually subject to the staged development as set forth in State Engineer's Ruling No. 6164, which includes:

- Stage 1 Development limits these permits to 38,000 acre-feet annually, of which at least 85% must be pumped each year for a minimum of eight consecutive years, after which the State Engineer will determine whether the permittee can proceed to Stage 2.
- Stage 2 Development limits these permits to 50,000 acre-feet annually, of which at least 85% must be pumped each year for a minimum of eight consecutive years, after which the State Engineer will determine whether the permittee can proceed to Stage 3.
- Stage 3 Development allows pumpage up to the full 61,127 acre-feet annually.

This application is granted conditioned upon the applicant's compliance with the approved Hydrologic Monitoring and Mitigation Plan and the Biological Monitoring Plan. Prior to the permittee exporting any groundwater resources from Spring Valley a minimum of two years of hydrologic and biological baseline data shall be collected by the permittee in accordance with these plans. The State retains the right to amend these plans at any time.

(Continued on Page 2)

The permittee shall update a computer groundwater flow model approved by the State Engineer; once before groundwater development begins, and at a minimum of every eight years thereafter, and provide predictive results for 10-year, 25-year and 100-year periods.

Monthly records shall be kept of the amount of water pumped from this well and those records shall be submitted to the State Engineer on a quarterly basis. The permittee shall file an annual report with the State Engineer by March 31st of each year, detailing the findings of the approved hydrologic and biological plans.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The point of diversion and place of use are as described on the submitted application to support this permit.

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, **and not to exceed 6.0 cubic feet per second or 4,343 acre-feet annually.**

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before:	**August 10 2017**
Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before:	**August 10 2022**
Map in support of proof of beneficial use shall be filed on or before:	**N/A**

IN TESTIMONY WHEREOF, I, JASON KING, P.E.,

State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 10th day of **August, 2012**

P.E.

State Engineer

Completion of work filed _____

Proof of beneficial use filed _____

Cultural map filed _____

Certificate No. _____ Issued _____

THE STATE OF NEVADA

PERMIT TO APPROPRIATE WATER

Name of applicant:	**SOUTHERN NEVADA WATER AUTHORITY**
Source:	**UNDERGROUND**
Basin:	**SPRING VALLEY**
Manner of Use:	**MUNICIPAL**
Period of Use:	**January 1st to December 31st**
Priority Date:	**10/17/1989**

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APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance and that the final water right obtained under this permit will be dependent upon the amount of water actually placed to beneficial use. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. If the well is flowing, a valve must be installed and maintained to prevent waste. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins or before the Proof of Completion of Work is filed.

Monthly records shall be kept of the amount of water pumped from this well and those records shall be submitted to the State Engineer on a quarterly basis. The pumpage shall also be summarized in an annual report due by March 15 of each calendar year.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The well must be sealed with cement grout, concrete grout or neat cement from ground level to a minimum of 100 feet.

The total combined duty of water under Permits 54003 through 54015, 54019 and 54020 shall not exceed 60,000 acre-feet annually subject to the staged development guidelines as set forth in State Engineer's Ruling No. 5726, which includes:

1. A monitoring and mitigation program approved by the State Engineer a minimum of five (5) years prior to the export of any water under these permits;
2. A minimum of five (5) years of biological and hydrological baseline data shall be collected by the applicant and approved by the State Engineer prior to the applicant exporting any groundwater resources from Spring Valley under these permits;
3. A minimum ten (10) year period during which time a maximum of 40,000 acre-feet can be pumped in any one year with a ten consecutive year average of at least 35,000 acre-feet;
4. Filing an annual report with the State Engineer by March 15th of each year detailing the findings of the monitoring and mitigation plan; and
5. If pumping impacts existing rights, conflicts with the protectable interests in existing domestic wells as set forth in NRS 533.024, threatens to prove detrimental to the public interest or is found to not be environmentally sound, the applicant will be required to curtail pumpage and/or mitigate the impacts to the satisfaction of the State Engineer.

The State Engineer shall evaluate the effects of the initial pumpage and make a determination regarding the development of the additional 20,000 acre-feet of water.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

This permit is issued pursuant to State Engineer's Ruling No. 5726 dated April 16, 2007.

The point of diversion and place of use is as described under items 5 and 7 respectively on the submitted application to support this permit.

(Continued on Page 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed **6.0** cubic feet per second, **but not to exceed 4343.0 acre-feet annually.**

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before: **July 3, 2012**
Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before: **July 3, 2017**
Map in support of proof of beneficial use shall be filed on or before: **N/A**

IN TESTIMONY WHEREOF, I, TRACY TAYLOR, P.E.,

State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 3rd day of **July**, A.D. **2007**

Tracy Taylor, P.E.
State Engineer

Completion of work filed _____

Proof of beneficial use filed _____

Cultural map filed _____

Certificate No. _____ Issued _____

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AMENDED

№ 54015
ASSIGNED

APPLICATION FOR PERMIT
TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office OCT 17 1989

Returned to applicant for correction

Corrected application filed MAR 19 1990

Map filed MAR 22 1990

The applicant Las Vegas Valley Water District, a quasi-minicipal corporation

3700 W. Charleston Boulevard (Street and No. or P.O. Box No.), of Las Vegas (City or Town),

Nevada 89153 (State and Zip Code No.), hereby make S application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)

1. The source of the proposed appropriation is underground basin in Spring Valley, (Name of stream, lake, spring, underground or other source)
   Hydrographic area 184
2. The amount of water applied for is 6.00 cfs (One second-foot equals 448.83 gals. per min.) second-feet
   (a) If stored in reservoir give number of acre-feet
3. The water to be used for municipal and domestic (Irrigation, power, mining, manufacturing, domestic, or other use. Must limit to one use.)
4. If use is for:
   (a) Irrigation, state number of acres to be irrigated
   (b) Stockwater, state number and kinds of animals to be watered
   (c) Other use (describe fully under "No. 12. Remarks")
   (d) Power:
      (1) Horsepower developed
      (2) Point of return of water to stream
5. The water is to be diverted from its source at the following point located within the SW¼ NW¼ Section 14, T.15N., R.67E., M.D.B.& M., or at a (Describe as being within a 40-acre subdivision of public survey, and by course and distance to a section corner. If on unsurveyed land, it should be so stated.) point from which the southeast corner of Section 33, T.16N., R.67E., M.D.B.& M., bears N. 07° 33' 12" W., a distance of 12,632 feet.
6. Place of use is the area within Clark, Lincoln, Nye, and White Pine Counties (Describe by legal subdivision. If on unsurveyed land, it should be so stated.)
   SEE ATTACHED LETTER DATED 3-22-90
7. Use will begin about January 1 (Month and Day) and end about December 31 (Month and Day), of each year.
8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) water is to be diverted from a 20-inch diameter cased well, via deep well No. 184-13A pump, pipelines, pumping stations, reservoirs, and distribution system. (State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.)
9. Estimated cost of works $700,000 (well and equipment only)

10. Estimated time required to construct works Minimum 20 years
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use Minimum 20 years

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use.

The water sought under this application shall be placed to a beneficial use within the Las Vegas Valley Water District service area as set forth in Chapter 752, Statutes of Nevada 1989, or as may be amended. Water may also be served and beneficially used by lawful users within the Lincoln, Nye and White Pine Counties. Water will be commingled with other water rights owned or served by applicant, or it's designee. SEE ATTACHED LETTER DATED 3-22-90

s/Alan F. Walter
By Alan F. Walter, P.E., N.S.W.R.S., No. 506
3700 West Charleston Boulevard
Las Vegas, Nevada 89153

Compared bc/ap

Protested See file
Pro. Overruled 4/16/07 See Ruling #5726 3/22/12 Ruling #6164

OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the followng limitations and conditions:

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed cubic feet per second

Work must be prosecuted with reasonable diligence and be completed on or before

Proof of completion of work shall be filed on or before

Application of water to beneficial use shall be made on or before

Proof of the application of water to beneficial use shall be filed on or before

Map in support of proof of beneficial use shall be filed on or before

Completion of work filed

Proof of beneficial use filed

Cultural map filed

Certificate No. Issued

IN TESTIMONY WHEREOF, I State Engineer of Nevada, have hereunto set my hand and the seal of my office, this day of, A.D. 19

State Engineer

(O)-5314 (Rev.)

Hill Cassas deLipkau and Erwin

A PARTNER IN

Sherman & Howard
A LAW PARTNERSHIP INCLUDING PROFESSIONAL CORPORATIONS

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WITH OFFICES IN:
ALBUQUERQUE
COLORADO SPRINGS
DENVER
SANTA FE
SOUTHEAST DENVER

March 22, 1990

Ms. Christine Thiel
Division of Water Resources
201 South Fall Street
Carson City, Nevada 89710

Re: Las Vegas Valley Water District - Applications 53947 through 54092, Inclusive, and 54105 & 54106

Dear Ms. Thiel:

This will serve as a supplement to the above referred to applications to appropriate. Please attach a copy of this letter to each application, except 54037 and 54067, which were withdrawn.

1. Question 6, entitled "Place of Use", shall be supplemented as follows: Within Lincoln County, as defined in NRS 243.210-243.225, inclusive; within Nye County, as found in NRS 243.275-243.315, inclusive; within White Pine County, as found in NRS 243.365-243.385, inclusive; and within Clark County, as found within NRS 243.035-243.040, inclusive.

2. Question 12, entitled "Remarks". Pursuant to NRS 533.340(3), the approximate number of additional persons to be served is 800,000, which is in addition to the current approximately 618,000 persons. The applications seek groundwater in excess of 300,000 acre-feet, which represents all unappropriated groundwater in the particular groundwater basins and the Virgin River (Application 54077). The projected population of the service area in Clark County is estimated to be 1,400,000 at Year 2020. Population projects are currently being updated by Clark County Comprehensive Planning. The population to be served in Lincoln, White Pine and Nye Counties is not yet know, but is to be included within the applied for volume.

Very truly yours,

HILL CASSAS de LIPKAU and ERWIN

By Ross E. de Lipkau
Ross E. de Lipkau

REd/lbc