



# **ENVIRONMENTAL**

## **THE STATE OF NEVADA**

### **PERMIT TO APPROPRIATE WATER**

**Name of Permittee:** AMERICAN PACIFIC CORPORATION  
**Source:** UNDERGROUND  
**Basin:** LAS VEGAS VALLEY  
**Manner of Use:** ENVIRONMENTAL  
**Period of Use:** JANUARY 1ST TO DECEMBER 31ST  
**Priority Date:** 11/22/2011

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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 environmental permit is issued pursuant to the provisions of NRS 533.4375, and provides for the completion of multiple extraction wells within the same quarter-quarter section, as long as the permitted amount is not exceeded. It is understood that the amount of water herein granted is only a temporary allowance for pollution control as mandated by orders issued by the Nevada Division of Environmental Protection. The right will cease to exist upon termination of clean up activity, as determined by the Nevada Division of Environmental Protection, and the permittee shall notify the State Engineer within 30 days after the completion of the remediation project. All wells shall be plugged and abandoned in accordance with Chapter 534 of the Nevada Administrative Code. A totalizing meter must be installed and maintained in the discharge pipeline and monthly records of this measurement shall be submitted on an annual basis not later than February 15th of each year. If additional wells are drilled under this permit, a new mylar map showing the surveyed locations must be submitted with the annual report.

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

The total combined duty of water under Environmental Permits 68622E, 72900E, 72982E, 72983E, 81290E, 81337E, 81338E and 81339E, shall not exceed 2430.42 acre-feet annually.

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

This environmental permit is issued for environmental purposes for a well located on the parcel identified by the Clark County Assessor as APN 178-11-411-021.

The point of diversion and place of use are as described 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 0.28 cubic feet per second or 202.0 acre-feet annually.

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before:

January 5 2013

Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before:

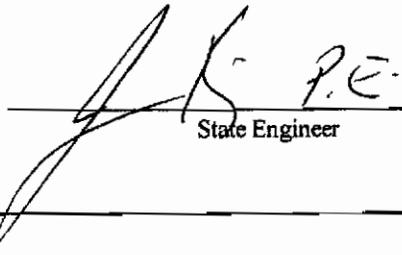
N/A

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 5th day of January, A.D. 2012

  
\_\_\_\_\_  
State Engineer

Completion of work filed \_\_\_\_\_

Proof of beneficial use filed \_\_\_\_\_

Cultural map filed \_\_\_\_\_

Certificate No. \_\_\_\_\_ Issued \_\_\_\_\_

**APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC  
WATERS OF THE STATE OF NEVADA  
FOR ENVIRONMENTAL PURPOSES**

|   |  |
|---|--|
| THIS SPACE FOR OFFICE USE ONLY            |  |
| Date of filing in State Engineer's Office | <u>NOV 22 2011</u>                                     |
| Returned to applicant for correction      | .....  |
| Corrected application filed               | ..... Map filed <u>NOV 22 2011</u> under <u>81290E</u> |

The applicant American Pacific Corporation (AMPAC)

3883 Howard Hughes Parkway, Suite 700 of Las Vegas  
Street Address or PO Box City or Town

Nevada 89169 hereby make(s) application for permission to appropriate the public  
State and ZIP Code

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.)

AMPAC is a Delaware Corporation; established December 9, 1980.

1. The source of the proposed appropriation is underground source  
Name of stream, lake, spring, underground or other source

2. The amount of water applied for is 0.28 second feet.  
One second foot equals 448.83 gallons per minute

(a) If stored in reservoir, give number of acre-feet \_\_\_\_\_

3. Remediation Order or Letter (attach copy)

(a) Issued by \_\_\_\_\_

(b) Order, Permit or Plan number \_\_\_\_\_

(c) Date issued \_\_\_\_\_

4. The water is to be diverted from its source at the following point:

One well located within the SE 1/4 of SW 1/4 of Section 11, Township 22 South, Range 62 East, M.D.M. AMEW-5; 2.118.69 ft N 56d13m16s E of section corner. SW corner said Section 11  
The well will extract groundwater from a depth of 165 to 200 feet below ground surface.

REL

Describe as being within a 40-acre subdivision of public survey, and by course and distance to section corner. If on unsurveyed land, it should be so stated.

*Handwritten signature*

5. Place of use:

Perchlorate removal/treatment will occur within the SE 1/4 of SE 1/4 of Section 36, Township 21S, Range 62E, M.D.M (AMPAC Groundwater Treatment System (AGTS) facility).

Treated groundwater will be discharged within the SE 1/4 of SW 1/4 of Section 30, Township 21S, Range 63E, M.D.M (existing Robert B Griffith discharge channel).

Proposed use is for treatment and removal of perchlorate only, and will be non-consumptive. Treated groundwater will be discharged to the Las Vegas Wash, returning the water to beneficial use.

Describe by legal subdivision. If on unsurveyed land, it should be so stated.

6. Use will begin about Jan 1 and end about December 31 of each year.  
Month and Day Month and Day

7. Description of proposed works.

Groundwater will be extracted from the five (5) wells via pump and motor within each well and transported via 8" HDPE pipeline to the AGTS facility. After treatment, the groundwater will be discharged to a man-made tributary to the Las Vegas Wash.

State manner in which water is to be diverted, i.e. diversion structure, ditches and flumes, drilled well with pump and motor, etc.

8. Estimated cost of works \$4.3 million

9. Estimated time required to construct works

With an anticipated start date of Jan. 2012, the construction of wells, well vaults and transmission pipeline is expected to require four and one-half (4 1/2) months.

If well completed, describe works.

10. Remarks: Describe project

AMPAC is in the process of increasing its ability to more efficiently treat perchlorate groundwater contamination at the former PEPCON site in Henderson, NV with the construction of five (5) new extraction wells, transmission pipeline and Fluidized Bed Reactor (FBR) bio-treatment system. Please refer to Exhibit A (work plan submitted to NDEP) and Exhibit B (NDEP Concurrence with Conditions, dated October 4, 2011) for additional information.

(702) 699-4146

Phone Number

mhansen@apfc.com

E-mail

**APPLICATION MUST BE SIGNED BY THE APPLICANT OR AGENT**

By

Mike J. Hansen, PE  
Signature, applicant or agent

Mike J. Hansen, PE

Name

3883 Howard Hughes Parkway, Suite 700

Street Address or PO Box

Las Vegas, NV 89169-5995

City, State, ZIP Code

STATE FILED  
2011 NOV 22 11:16:53  
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**\$150 FILING FEE MUST ACCOMPANY APPLICATION**