

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(Pursuant to NAC 445A.236)

Permittee Name: Service Corporation International, dba Palm Mortuary
800 S. Boulder Hwy
Henderson, Nevada 89015

Permit Number: NEV2000505

Location: Palm Mortuary
800 S. Boulder Hwy
Henderson, Nevada 89015

Latitude: 36° 01' 40" N
Longitude: 114° 58' 01" W
T22S, R63E, S17

General Description of Facility and Discharge: The applicant has applied for renewal of groundwater discharge permit NEV2000505, which was originally issued in April of 2001.

Palm Mortuary is a cemetery/mortuary facility that uses tertiary treated, partially denitrified and disinfected reclaimed water for landscape irrigation. The quality of the reclaimed water, and authorized end use, are regulated by permit NEV80003, issued to the City of Henderson's Water Reclamation Facility (CoH-WRF). Effluent discharged from CoH-WRF meets reuse Category B requirements (NAC 445A.276). The reclaimed water is pumped to Palm Mortuary via the Black Mountain Pump Station.

Palm Mortuary currently spray irrigates approximately 11.77 acres of landscaping with reclaimed water. Palm Mortuary uses rotor type sprinklers with retractable heads. The reclaimed water irrigation system is separate from the public water supply system, with no cross connections.

Spray irrigation, using reclaimed water, will be conducted in accordance with an Effluent Management Plan (EMP) submitted to, and approved by, the Nevada Division of Environmental Protection (NDEP). As the existing EMP for this facility is more than 10 years old, the Division is requiring that a new and revised EMP be submitted to the NDEP offices for review and approval. The EMP shall address changes made at Palm Mortuary subsequent to approval of the original EMP, submitted in August of 2000, as well as the upgrades made to the CoH-WRF in 2008.

Flow: The EMP submitted in August of 2000 shows calculations for hydraulic loading rates based on soil permeability, 136.45 inches per year (133.83 acre-feet per year), and nitrogen uptake, 568.47 inches per year (557.57 acre-feet per year). The lesser of the two values is the limiting reclaimed water application rate; therefore, the flow at this facility will be limited by the

hydraulic loading rate based on soil permeability. In addition to all other required reports, each quarter, the Permittee shall submit a statement confirming adherence to the approved EMP. During the previous five (5) year period, January 1, 2006 through December 31, 2010, this facilities average annual application rate was approximately 51.77 inches (50.78 acre-feet) of reclaimed water.

Receiving Water Characteristics: Receiving water is groundwater of the state via percolation.

Well Head and Drinking Water Supply Protection: The facility is not located within a 6000 foot Drinking Water Protection Area (DWPA) around any public water supply well. The facility is not located within a Well Head Protection Area (WHPA).

Site Groundwater: Depth to groundwater is reported to be in excess of 100 feet. Regional groundwater flow is reported to be to the north. Groundwater monitoring wells are not proposed for this site.

Corrective Action Sites: Palm Mortuary is located within one mile of three (3) NDEP Bureau of Corrective Actions (BCA) remediation sites as listed below. The BCA case officers for the remediation sites listed have indicated that no adverse effects to their ongoing remediation projects are expected due to the application of reclaimed water at the Permittee's facility.

Project ID #	Site #	Facility Name	Corrective Action type (Media/Contaminant)
N/A	H-000688	BMI Complex	Soil & Groundwater/Multiple
2170	8-000456	Henderson service Center	Soil/Gasoline
6771	8-001384	Mick & Mac's Food Mart	Soil/Gasoline

Proposed Effluent Limitations: Discharges shall be limited and monitored by the Permittee as specified in the table below.

PARAMETERS	Discharge Limitations		Monitoring Requirements	
	30-Day Average	Monthly Maximum	Frequency	Sample Type
Flow (MGD)	Monitor & Report	Monitor & Report	Continuous	Flow Meter
Total Nitrogen as N (mg/L)	Monitor & Report	Monitor & Report	Weekly	Calculate
Fecal Coliform (c.f.u. or mpn/100 ml)	2.2	23	Weekly	Discrete

MGD: Million Gallons per Day

cfu: Colony Forming Units

mpn: Most probable number per 100 milliliters of treated effluent

Rationale for Permit Requirements: Effluent monitoring is required to track the quality and quantity of reclaimed water being used for irrigation.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the following schedule of compliance after approval by the administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. Within 30 days of the permit effective date, the Permittee shall submit current cross-connection control documentation as required by part **I.B.2.** and **I.B.3.** of the permit. Thereafter, an annual inspection shall be performed.
- c. Within 60 days of the permit effective date, the Permittee shall submit for review and approval, a new and revised Effluent Management Plan (EMP) compiled in accordance with NDEP guidance document WTS-1B, "*General Design Criteria for Preparing an Effluent Management Plan*". This plan shall be prepared and stamped by a Nevada Registered Professional Engineer.
- d. Each quarter, the Permittee shall submit a document confirming adherence to the approved EMP. This document shall be signed, and shall contain the following certification.

"I certify that during each month of the previous quarterly reporting period, all operational procedures outlined in the approved Effluent Management Plan for this facility were adhered to."

All schedule of compliance submittals and evidence of compliance documents shall be submitted to the Bureau of Water Pollution Control Compliance Coordinator at the following address:

**Division of Environmental Protection
Bureau of Water Pollution Control
901 S. Stewart Street, Suite 4001
Carson City, NV 89701
ATTN: Compliance Coordinator**

Proposed Determination: The Division has made the tentative determination to renew the permit, subject to limitations and conditions, for a period of five (5) years.

Procedures for Public Comment: The Notice of the Divisions intent to issue a permit authorizing Palm Mortuary to discharge to groundwater of the State of Nevada, subject to the conditions contained within the permit, is being sent to the **Las Vegas Review Journal** for publication. The Notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be

submitted (via postmarked mail or time stamped faxes, e-mails, or hand delivered items) to the Division is **July 29, 2011 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reason why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by: Arthur Marr, P.E.
Date: June, 2011

DRAFT