

# **VECTOR MANAGEMENT PLAN**

for

**INLAND VALLEY MATERIALS**

**RP 78-003W1**

**ENVIRONMENTAL LOG NO.: 78-8-306**

(Within Unincorporated San Diego County)

*Submitted to:*

**SAN DIEGO COUNTY  
DEPARTMENT OF PLANNING AND LAND USE  
5201 Ruffin Road, Suite B  
San Diego, CA 92123-1666**

*Prepared for:*

INLAND VALLEY MATERIALS  
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*Prepared by:*

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November 2012

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# **Inland Valley Materials Reclamation Plan Modification Vector Management Plan – November 2012**

## **1.0 Introduction**

This Vector Control Plan has been created in consultation with the San Diego County Department of Environmental Health, Vector Control Program (DEH VCP). Implementation of this plan will insure the minimization of vectors, such as flies and mosquitoes that may breed in standing water. This plan is created to meet the vector control requirements for the Inland Valley Materials Reclamation Plan Modification.

## **2.0 Project Description**

The applicant is seeking Reclamation Plan Modification to the existing Reclamation Plan (RP 78-003). The purpose of the reclamation plan modification is to account for the extended mining depth and to establish backfilling measures to return the final slope configuration to its original Reclamation Plan design. During mineral resource recovery operations and continuing after extraction is complete, mined sections of the open pit will serve as a receiver site for inert debris fill.

## **3.0 Existing Conditions**

The quarry is located southeast of the City of Escondido, close to the San Pasqual River Valley (Figure 1). The mine currently operates below a depth of 495 feet Above Mean Sea Level (AMSL) with plans to extend mine depth to 372 feet AMSL. With the newly proposed depth comes the possibility of encountering the water table.

This vector management plan is necessary to address the possible collection of water as the mine approaches the newly proposed depth. Water collecting in the open pit may result in conditions that could serve as a breeding ground for vectors. Water could potentially collect from direct precipitation, runoff from the site watershed, and/or groundwater seepage.

## **4.0 Vector Management**

The project site is located on a southeasterly exposure with surface runoff generally flowing from west to east. Outside the active mining area, the site drains into a drainage that feeds the San Dieguito River which is approximately a mile to the south. Current and planned drainage within the active mining area is focused to the center of the mine pit (Figure 2). During precipitation events, water at the site can flow toward the center of the pit and collect. Additionally fluctuating ground water levels could influence the amount of water that potentially collects at the bottom of the mine.

The following is a list of conditions to ensure that water collected in the open pit, detention basin, does not propagate the breeding of vectors.

1. If water collects in the open pit, it will be collected in a sump and pumped out for use with materials processing at the site and dust control. Therefore, this

water will be constantly circulating and will help to prevent propagation of vectors.

2. During the wet season (October through March) the open pit shall be inspected monthly for the presence of vectors and maintenance concerns.
3. During the dry season (April through September) the open pit and pump shall be inspected weekly for the presence of vectors and maintenance concerns.
4. If mosquitoes are found within the open pit, the operator shall ensure that larvicide, such as VectoMax, will be applied by qualified personnel to remove the mosquito population. Insecticide use shall be based on recommendation by DEH VCP.

### **5.0 Long-Term Maintenance**

Ongoing maintenance of the open pit shall be conducted in a manner that complies with DEH VCP regulations. Ongoing maintenance shall include minor grading to eliminate potential water retention pockets and to ensure slope stability and drainage, and monitoring of the open pit. Maintenance shall continue until backfilling of the pit is complete. Refer to section 4.0 Vector Management for specific ongoing maintenance requirements.

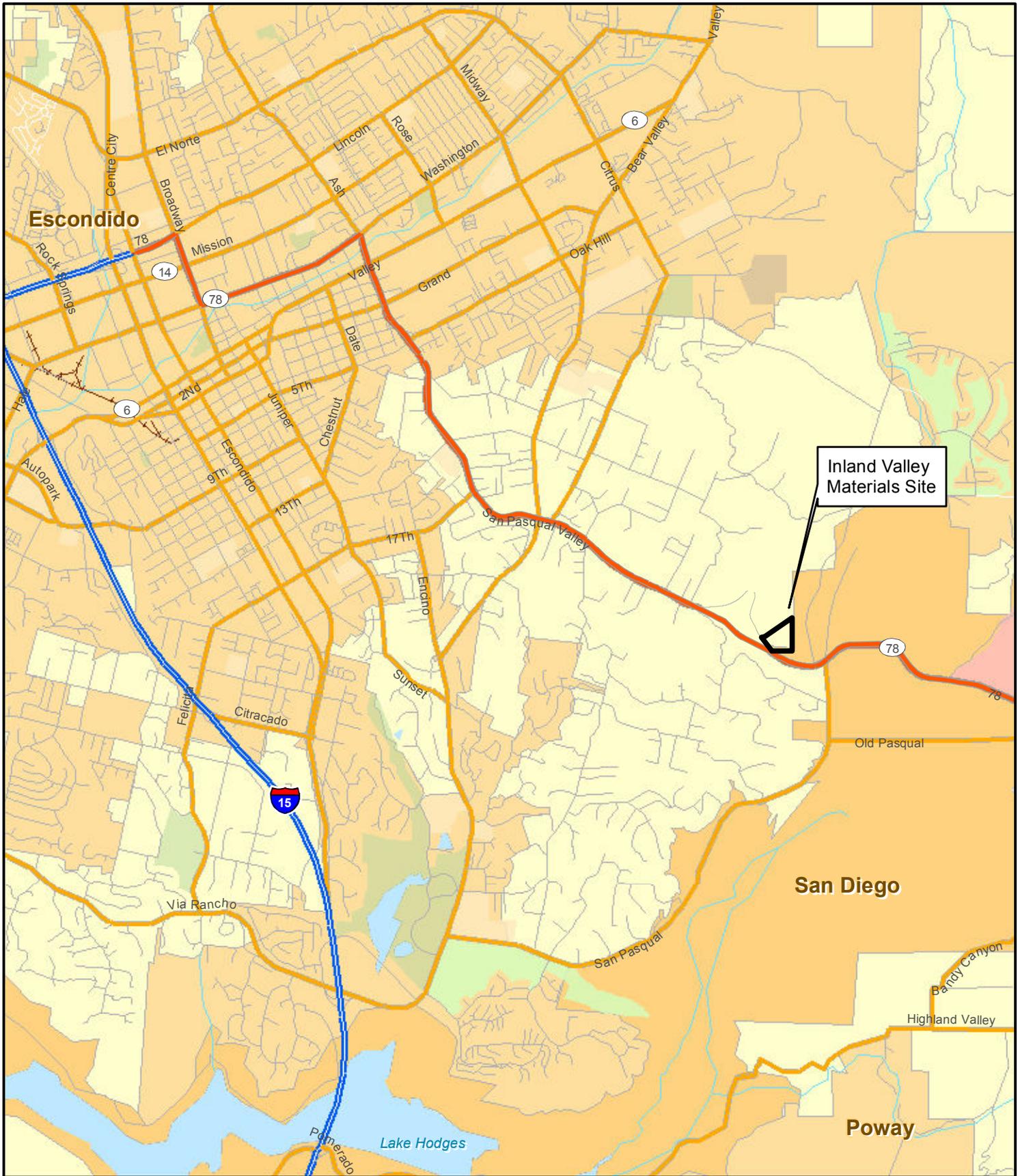
Any changes to the vector management plan shall be made in consultation with and approved by DEH VCP.

The measures identified herein are considered part of the proposed project design and will be carried out as part of project implementation. I understand the breeding of mosquitoes is unlawful under the State of California Health and Safety Code Section 2060-2067. I will permit the County of San Diego, Vector Surveillance and Control program to place adult mosquito monitors and to enforce this document as needed.

Property Owner \_\_\_\_\_

Project Applicant \_\_\_\_\_

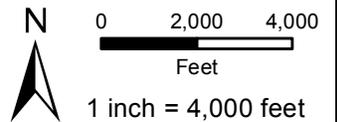
San Diego County Department of  
Environmental Health Representative \_\_\_\_\_



Inland Valley  
Materials Site



 Inland Valley Materials



Date: November, 2012  
ESRI StreetMap USA

Figure 1