DEPARTMENT OF PUBLIC WORKS

FLOOD CONTROL ● ENVIRONMENTAL & CONSTRUCTION ● OPERATIONS
SOLID WASTE MANAGEMENT ● SURVEYOR ● TRANSPORTATION

COUNTY OF SAN BERNARDINO

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GERRY NEWCOMBE
Director of Public Works

File No. SE Amdt #5/H13612

September 10, 2014

RE: Amendment #5 to the Siting Element of the County Integrated Waste Management Plan to add the Cemex Engineered Municipal Solid Waste Conversion Facility

Dear San Bernardino County Solid Waste Advisory Taskforce Members:

CEMEX California Cement (CEMEX) is seeking identification of its Black Mountain Quarry and Plant in the Countywide Siting Element. This request is being made in order to allow utilization of mechanically processed Material Recovery Facility (MRF) residuals (generally consisting of approximately 85 percent paper, 15 percent plastic) as an Engineered Municipal Solid Waste (EMSW) to be used as a supplemental/alternative fuel for the facilities' cement kiln plant in order to reduce the plant's carbon footprint and its use of fossil fuels. The facility's identification within the Countywide Siting Element is required in order for the San Bernardino County Department of Environmental Health – Local Enforcement Agency to review and issue the necessary solid waste facility permit.

Public Resources Code section 50001(c) requires the agency (in this case, the County of San Bernardino) in which the Engineered Municipal Solid Waste Conversion Facility is proposed to be located, submit a site identification and description of the proposed facility to be the local task force to solicit written comment on the proposed facility. Pursuant to PRC Section 41721(b), the Siting Element Amendment for an Engineered Municipal Solid Waste Conversion Facility is exempt from the task force 'majority/majority' requirement and will be presented to the San Bernardino County Board of Supervisors as the governing body for action on the Siting Element revision and subsequently to CalRecycle.

For your convenience, a facility fact sheet and location maps are included with this notice. The County of San Bernardino appreciates your review and comments regarding Amendment #5 to the Siting Element. Please provide written comments on or before the regular meeting of the Solid Waste Advisory Taskforce on October 15, 2014 to the following:

County of San Bernardino
Department of Public Works
Environmental Management Division
Attn: Nancy J. Sansonetti, AICP, Senior Planner
825 East Third Street
San Bernardino, CA 92415
Nancy.Sansonetti@dpw.sbcounty.gov

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
ROBERT A. LOVINGOOD . . . . . First District
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JAMES RAMOS . . . . . Third District
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JOSIE GONZALES . . . . . Fifth District

CEMEX
BLACK MOUNTAIN QUARRY AND PLANT
ENGINEERED MUNICIPAL SOLID WASTE CONVERSION FACILITY
FACT SHEET

Introduction

In order to reduce its carbon footprint and reduce its use of fossil fuels, CEMEX California Cement (CEMEX) is seeking identification of its Black Mountain Quarry and Plant on the Countywide Siting Element. This request is being made in order to allow utilization of mechanically processed Material Recovery Facility (MRF) residuals (generally consisting of approximately 85 percent paper, 15 percent plastic) as an Engineered Municipal Solid Waste (EMSW) to be used as a supplemental/alternative fuel for the facility's cement kiln plant. EMSW is also more commonly known as 'Refuse Derived Fuel'. The facility's identification within the Countywide Siting Element is required in order for the San Bernardino County Department of Environmental Health – Local Enforcement Agency to review and issue necessary permits. The permitted EMSW Conversion Facility operation will primarily consist of an Alternative Fuels Storage Hall, belt conveyor, and hopper/feed system.

Facility Overview

The CEMEX Black Mountain Quarry and Plant was established in 1965 encompassing 6,500 acres that includes an existing limestone quarry with primary crushing facilities and cement kiln located northeast of the City of Victorville and the Town of Apple Valley in San Bernardino County (refer to Figure 1).

Owner Operator

The Black Mountain Quarry and Plant is owned and operated by CEMEX.

Main Company Address	Physical Address
16888 N. "E" Street	25220 Black Mountain Quarry Road
Victorville, CA 92394	Apple Valley, CA 92307

Project Location

The Black Mountain Quarry and Plant is located within an unincorporated area of the County of San Bernardino (see Figure 1) approximately 3.5 miles northeast of the intersection of Central Road and Quarry Road. The existing facility is located within the Regional Industrial (IR) Land Use Zoning District for the County of San Bernardino General Plan (as amended July 18, 2013). The property is legally described as APN: 0463-141-06 and 0464-051-13.

Adjacent Land Use

The Black Mountain Quarry and Plant is located in a remote area northeast of the City of Victorville and the Town of Apple Valley. Land uses and land use designations on properties

adjacent to the quarry and plant are shown on Table 1. Figure 2 shows an aerial photograph of the Black Mountain Quarry and Plant and vicinity. As shown, there are no structures or industrial uses within one mile of the Black Mountain Quarry and Plant.

Table 1
Surrounding Land Uses and Land Use Designations

Direction	Land Use	Land Use District
North	Open Desert	Regional Industrial (IR)
South	Open Desert	Regional Industrial (IR)
East	Open Desert	Regional Industrial (IR)
West	Open Desert	Regional Industrial (IR)

Operation Overview

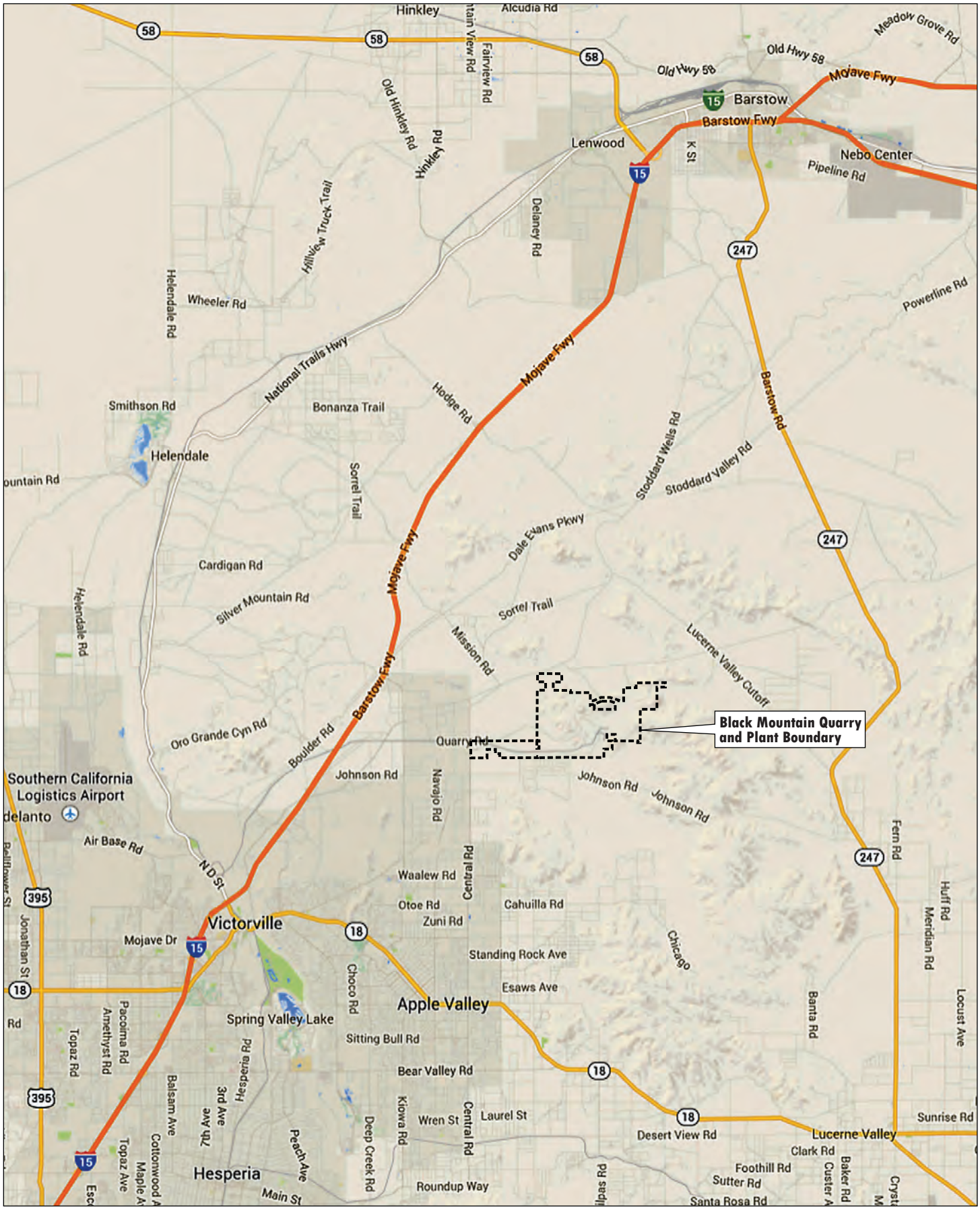
In 2013 CEMEX constructed a 150,000 square-foot enclosed Alternative Fuels Storage Hall to accommodate the storage of alternative fuels used to reduce the usage of fossil within the facility's existing kilns for the production of cement. Alternative fuels that are temporarily stored in the Alternative Fuels Storage Hall include pistachio shells, wood chips, painted wood chips, tire fluff (tire polyester chords with some residual rubber. Tractor/trailers deliver alternative fuels (including EMSW) to the Alternative Fuels Storage Hall and off-load their contents via a walking floor or trailer tip into the charging bin or the materials are stockpiled on the Alternative Fuels Storage Hall floor. A front-end loader, operating within the structure, places the material stored on the floor into the charging hopper. Approximately three days of storage can be accommodated within the Alternative Fuels Storage Hall structure. The permitted EMSW Conversion Facility operation will primarily consist of an Alternative Fuels Storage Hall, belt conveyor, and hopper/feed system located adjacent to the facility kiln.

Waste Types

The Black Mountain Quarry and Plant is already permitted to receive and handle the following alternative fuels: woodchips, painted wood chips, pistachio shells, walnuts and other agricultural husks, non-aqueous bio-solids, tires and tire fluff. CEMEX is proposing the use of EMSW material in order to reduce it carbon footprint and reduce its use of fossil fuels. CEMEX is projecting annual and daily tonnages to be up to 182,500 tpy and 500 tpd, respectively. The source of EMSW is not yet subject to any formal agreements; however, preference will be given to EMSW processed at local San Bernardino County MRFs.

Maximum Daily Tonnage

The 150,000 square-foot Alternative Fuels Storage Hall has an estimated storage capacity of 8,000 cubic yards to allow for the handling and sorting of the different types of alternative fuels. CEMEX is proposing a maximum use of 500 tons of EMSW per day.



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MILES

Date: 05/2014

LILBURN CORPORATION

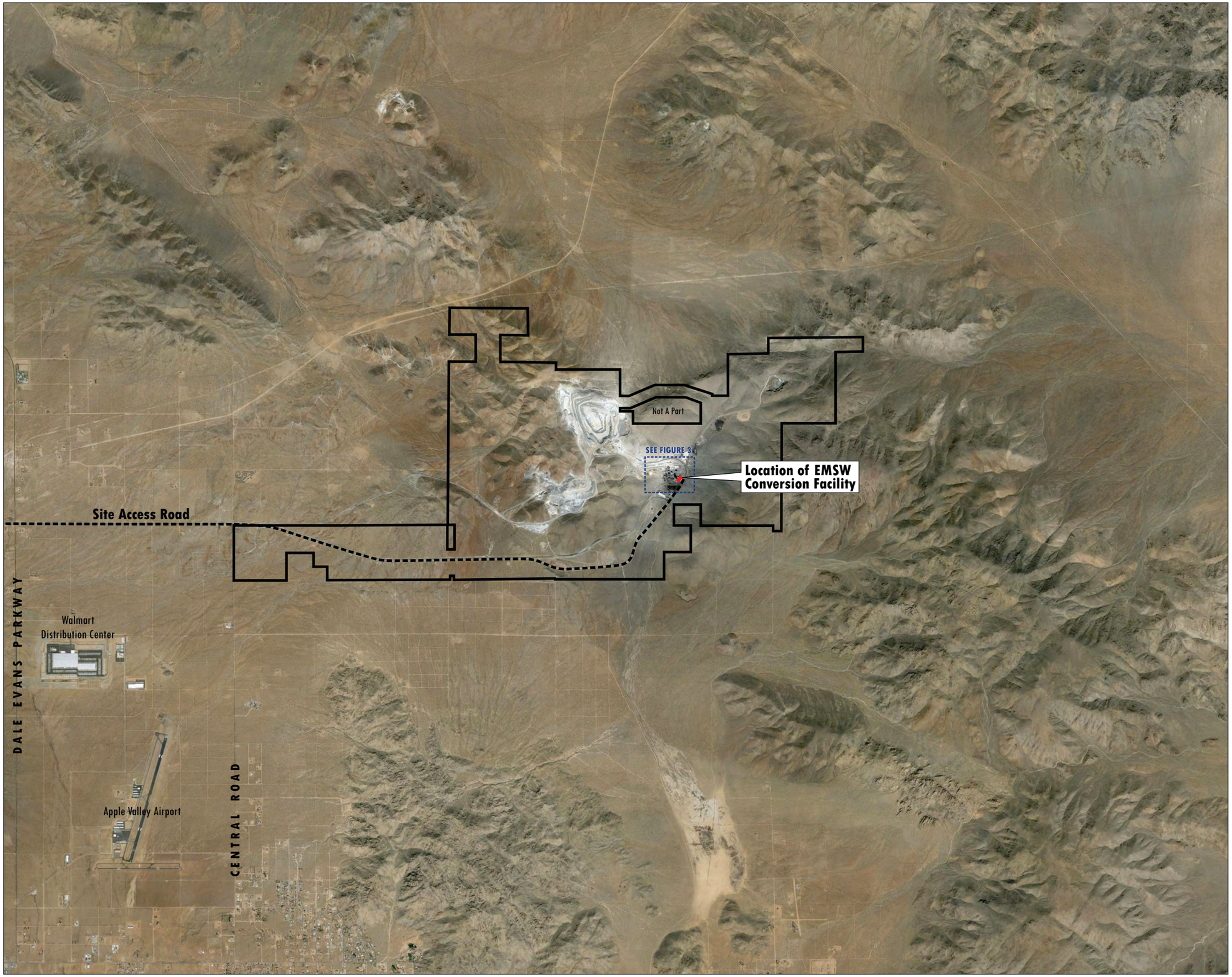
REGIONAL LOCATION

CEMEX - EMSW Conversion Facility Permit

Black Mountain Quarry

County of San Bernardino, California

FIGURE 1



LEGEND

- Black Mountain Quarry Boundary
- EMSW Conversion Facility
- Site Access Road

N

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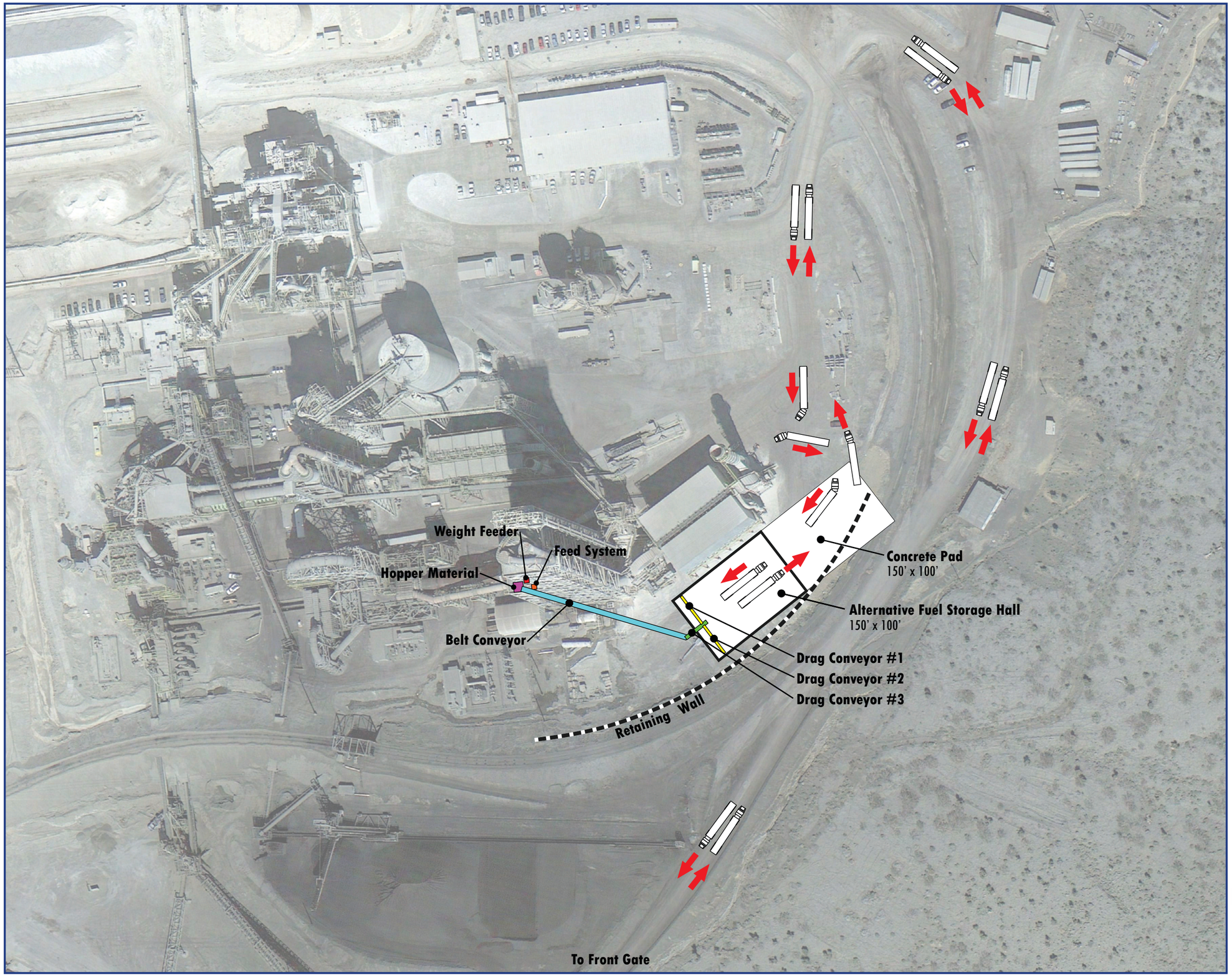
Source: LILBURN CORP., 05/2014
Image Date: 11/12/2013

LILBURN CORPORATION

PROJECT VICINITY

CEMEX - EMSW Conversion Facility Permit
Black Mountain Quarry
County of San Bernardino, California

FIGURE 2



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FEET

Source: LILBURN CORP., 05/2014
Image Date: 03/21/2013

LILBURN
CORPORATION

EMSW CONVERSION FACILITY at PLANT SITE

CEMEX - EMSW Conversion Facility Permit
Black Mountain Quarry
County of San Bernardino, California

FIGURE 3