

Quarry Times

Summer 2019

A P U B L I C A T I O N O F T H E S T E V E N S C R E E K Q U A R R Y

VOLUME 17, ISSUE 1

QUARRY IMPROVEMENTS

- Installed new and upgraded plant gates.

BY THE NUMBERS

Stevens Creek Quarry is allowed to operate a limited number of non-emergency Saturdays and evenings per the neighborhood agreement.

Here's How We Are Doing:	Days Allowed in a Year	Days Used 1/19 – 6/19
Saturdays		
Plant Operations	15	4
Truck Loading Operations	15	0
Evenings		
Plant or Truck Loading Operations	30	1

FAST FACTS

- About 8,000 lbs. of waste are typically thrown into the landfill during the construction of a 2,000 sq. ft. home
- LEED projects are responsible for diverting more than 80 million tons of waste from landfills, and this volume is expected to grow to 540 mt by 2030.
- With about 1.4 million homes built each year, homes represent 55 to 60% of all environmental impacts of buildings.
- Current concrete structures are expected to last 100 to 200 years, but Roman structures continue to maintain structural integrity after 2000 years. Roman concrete is the strongest building material in history, but its “recipe” was lost during the fall of Rome.

CONTACT US

Quarry Times is a publication for keeping our neighbors informed about quarry activities, and also includes other information of community interest.



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Contains Recycled Content

SCQ'S Green Deal: Recover – Recycle – Reuse



Recycled Concrete and Asphalt Essential for Sustainable Construction

Ensuring and maintaining a long-term booming tech economy requires immense construction and infrastructure projects. Expansive new campuses, housing developments, and large-scale transportation extensions and improvements both generate and use millions of tons of concrete, asphalt and aggregates. Recovering, recycling and reusing construction and demolition debris (C&D) helps keep huge amounts of waste out of landfills, and significantly contributes to sustainable construction practices.

The term “sustainable construction” is often used interchangeably with “green building” or “green construction”, and means using resource-efficient, cost effective and environmentally responsible methods to ensure building sustainability. SCQ helps builders adhere to these principles by recycling C&D materials at all five of its plant locations.

“All of the concrete and asphalt that we accept

at our facilities are 100% recycled into construction aggregates,” said Mark Mallin, SCQ’s Sales Manager. “Recovering all the old and broken roads and driveways for recycling allows their reuse in new projects and for maintenance, and helps towards a goal of zero waste.”

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Recycled aggregates not only provide cost savings and are green construction material, but have great versatility. Some of the most common commercial and public uses are as road, parking lot and building base; base for new asphalt paving; utility trenches and pipe bedding, soil stabilization, and landscape materials. Residentially, recycled concrete aggregates are used as a base for new driveways, walkways or patios, as

well as for landscaping.

Lesser known, but just as important, are uses such as controlling streambank erosion, fill for wire gabions, and material for building new oceanic reef habitats.

SCQ processes and recovers C&D debris at its plants in Cupertino, Sunnyvale, San Juan Bautista,

Header image (top): Spring at the Quarry! Our lush environment attracts visitors such as deer, turkeys, ducks, geese, and mountain lions.

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Sustainability as a Shared Value

Our summer issue focuses on sustainability practices, including the benefits of recycling concrete and construction materials, using goats and sheep for organic vegetation management, and helping the city offer compost – good for gardening but also for trapping carbon in the soil.

Sustaining a quality physical and social environment also depends upon a strong economy. We need the means and methods to maintain the roads, highways and public transportation that move millions of people throughout the Bay Area each day; to meet the huge demand for housing; to build schools that prepare students to launch their lives; and to enable the world's most influential tech locale to create the future.

As a fourth-generation family-run business for over eight decades, we've helped supply the products and services necessary for Santa Clara County's municipalities and agencies to build and maintain the major infrastructure just mentioned. SCQ's aggregates also help ensure our water supply and stream health, maintain parks and open space, and provide bike paths and trails. Our ability to transport aggregates locally, and our five area recycling plants offer major environmental benefits that contribute substantially towards sustainability.

Helping to achieve these goals are SCQ's local employees. Working together as a team they bring a wide range of abilities – from physical labor and skilled trades, to science and technology, to business administration. Infrastructure tends to be taken for granted but it's the result of dedicated individuals who live and work in our communities and want a high quality of life for their families.

Everyone supports a shared vision of sustainability, but at the end of the day it's about the actions we take that express our principles and values.



San Jose and Sunol. All five area sites are certified by the City of San Jose as C&D Diversion Facilities, and are also recognized by many other Bay Area cities as acceptable for C&D diversion. Mixed inerts such as concrete, asphalt, rebar, dirt, granite, fines, rock and sand are recycled and then reused in new construction or maintenance.

While California mandates a 65% diversion rate, many South Bay cities require that 75% of construction materials be diverted. According to the City of San Jose's Environmental Services Department, in 2018 their C&D program diverted 744,000 tons of construction and demolition debris from San Jose projects.

To obtain a building permit most cities require a diversion deposit based on estimating how much debris the project will produce. Upon completion, the deposit may be returned if documentation is submitted showing how the debris was diverted. Options may include reusing it for another purpose, donating it, or hauling to a city-certified diversion facility.

The City of San Jose currently has an ongoing pilot program with GreenHalo Systems, a cloud-based platform accessible 24/7. Permit holders can use GreenHalo for applying for their CDD refund by submitting weight tickets of C&D debris hauled to a San Jose Certified Facility, such as SCQ, from their construction project. GreenHalo provides tools to identify materials that can be recycled, locate the nearest recycling facility, track recycling progress in real time, and generate comprehensive statistics.

“...our five area recycling plants offer major environmental benefits...”



Free Compost For Cupertino Residents

SCQ is pleased to host the free bulk compost site for the City of Cupertino and its residents.

Compost can be loaded at 12100 Stevens Canyon Road (across from Stevens Creek Reservoir). The site is open every Friday & Saturday from 8am to 12pm through October 26th except in the event of rain. To check the status call 408/777-1320.

For more information and/or rules and procedures please see www.cupertino.org/compost



"Recovering all the old and broken roads and driveways for recycling allows their reuse in new projects and for maintenance, and helps towards a goal of zero waste."

and reports required by the government, project, and client.

The ability to recycle and track building materials from a local certified facility also contributes towards receiving highly valued Leadership in Energy and Environmental Design (LEED) points from the U.S. Green Building Council.

The LEED category of "Materials and Resources" awards points for recycling construction waste by diverting 50% of total construction waste away from landfills, or for diverting 75% of all waste generated for the entire project.

In urban areas landfill space is reaching capacity, and requiring the conversion of more land elsewhere raises both the transportation costs of waste as well as associated greenhouse gases. Accessing nearby recycled products

within a certain radius of the project is viewed favorably and provides greater LEED points.

Such points can be applied to Silver, Gold, or Platinum levels of certification and are an important incentive for builders and developers.

SCQ's recycled aggregates can be found in the local campuses of Apple, Facebook, Microsoft and Google all of which are, or are becoming, LEED Platinum – the highest rating.

By helping builders to recover, recycle and reuse many tons of C&D debris, SCQ supports community goals of saving landfill space, improving the environment, embracing the responsible use of resources, and by making a significant contribution to local sustainable construction practices.

Goats Eat Organically At Sunnyvale Site



Photo Credit: Environmental Services Dept., City of Sunnyvale

integrity of the landfill's surface, and significantly reducing fire risk. There is also a lower likelihood of damage to the landfill's infrastructure, and the munchers have been used on a limited basis along the fencing alignments to facilitate installing portable electric fences. Environmental Services reports that the results have been extremely satisfactory.

Terri Oyarzun, owner of Goats R Us and the City's vendor, said that not only is organic vegetation management popular with the four-footed visitors, but seeing the animals is also fun for the families and hikers who use the Bay Trail.

Sustainability Solutions From The Ground

Soil Health Reduces Effects Of Global Climate Change

Composting, animal grazing, and diversifying crops all help create healthy soil, and such soil stores more carbon. While too much carbon in the air overheats the climate, in the ground carbon increases soil fertility.

A recent study found that better management of agriculture, forests

and grasslands could absorb as much as 21 percent of the country's annual greenhouse gas emissions.

A Good Meal For Mushrooms Is Petroleum

As fungi, mushrooms like eating, including hydrocarbons and other organic chemicals.

Mushrooms have helped remove petroleum from soil everywhere — from California to the Ecuadorian Amazon where they're being used to

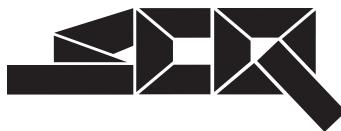
clean up the largest land-based oil spill in history. Currently mushrooms are being tested on heavy metals.

Why Mud Is Beautiful

Healthy wet soil is often considered restorative and used for spa treatments and masks. Why? Credit the minerals within such as kaolinite, bentonite, magnesium, potassium and more. Now there's research into its use for health conditions such as reducing pain from knee arthritis.

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Address:

Community Calendar

Annual Citywide Garage Sale, Sat-Sun., Sept. 28th-29th, 9am-4pm. Clean your clutter and host a garage sale! The City provides advertising and it's free to participate. Contact environmental@cupertino.org or call (408) 777-3236 for more information.

Cupertino Chamber of Commerce: Diwali Festival, Sat., Oct. 12th, 11:00am – 6:00pm, Memorial Park. Arts & Crafts vendors, food, fashion show, kids' zone, Bollywood & classical dance performances. FREE admission & parking at De Anza College. Contact Cupertino Chamber at (408) 252-7054 for information.

Fellom Ranch Vineyards: Passport Saturday: July 20th & Nov. 16th, 12-5:00pm. Wine, music & Fun! Open for wine tasting and vineyard tours by appointment only. For more information see www.fellom.com or call (408) 741-0206.

Picchetti Winery: Hours are 10am to 4pm daily for wine tasting and picnics. Build your own flight of 5 wines for \$15. \$5 of your tasting fee refunded with each wine purchase. Lovely public

picnic area and Open Space hiking trails. Call (408) 741-1310 or visit www.picchetti.com.

Ridge Winery: Monte Bello Tasting & Sales: Sat. & Sun. 11am – 5pm. Three unique tasting flights. No reservations required. Weekdays by reservation only. Estate and private tastings by reservation only. Call (408) 867-3233 or check www.ridgewine.com for more information.

Rotary Club of Cupertino and The World Journal: Sat., Sept. 14th, 10 am – 4:30pm, Silicon Valley Fall Festival, Memorial Park. Annual multicultural community festival is a family event. Free entrance and free parking at De Anza College. All proceeds go to local charitable projects conducted by the Rotary Club.

Santa Clara Valley Audubon Society & City of Cupertino – Wildlife & Harvest Day, Sat., Oct. 19th – 10:00-3pm, Blackberry Farm. Free. Learn about birds, nature, ecology & wildlife. Live animal demonstrations. Bird walk, nestbox & bird feeder construction, face painting & more. See <http://www.scvas.org/WildlifeDay>

Shakespeare in the Park: As You Like It, Memorial Park, Free, July 20th-21st; 25th-28th; Aug. 1st – 4th, 7:00pm; 6:30pm – Green Show – An introduction to the play for all ages. Bring your picnic basket and a blanket and enjoy professional theatre.

Via Services Fall Festival, Sat., Oct. 12th, 11am-3pm, Via West Campus, Free. Music, Food, Beer & Wine, Petting Zoo, Games, Pumpkin Patch, Haunted House & more. See www.viaservics.org

West Valley Community Services: Sat., Aug. 3rd, 6:00am – 10:30am, – Back to School Program, Westgate Mall, Old Navy, San Jose. Volunteer to help children choose new clothes, shoes & school supplies. You can also sponsor a child or donate. Contact Trishya Movilla at (408) 740-5336, specialprograms@wvcommunityservices.org or visit <https://www.wvcommunityservices.org>

If your community non-profit has an upcoming event, please contact Sharon Prager at (650) 579-5839.