**In-Person Field Trip Host Sites (8.22.22)**

**Host Site**: Advance Disposal

**Site Address:** 17150 Mesa St., Hesperia, CA 92345

**Website**: [www.advancedisposal.com](http://www.advancedisposal.com)

**Field Trip Contact:** Luisa Quintero, Recycling Analyst and Community Relations Specialist

 760-244-9733 x 249

**Grade Levels:** 2-12

**Max. # of Attendees**: 25

**Length of tour:** 1-1.5 hours

**Field Trip Description:** Advance Disposal is a single waste stream refuse and recycling company which processes almost 100% of the refuse and recyclable material brought in to the facility from residents and businesses in Hesperia, Spring Valley Lake, Oak Hills and the County areas of Apple Valley. This educational tour will explain Advance’s refuse and recyclables processes, how the machinery works inside the MRF including a bird’s eye view from the new observation deck, an up-close look at the trucks and equipment used at the facility, a presentation that shows how trash and recycling is important to our environment and everyday life, and then an activity to explain to the students what we do and why we do it.

**Special Instructions:**

1. Closed toe shoes and long pants required for all participants.

**Host Site**: Amy’s Farm

**Site Address:** 7698 Eucalyptus Ave., Ontario, CA 91762

**Website**: <http://www.amysfarm.com/visit/tours>

**Field Trip Contact:** 1-844-426-9732

**Grade Levels:** K-12

**Max. # of Attendees**: Contact site for accommodations.

**Length of tour:** 1-1.5 hours

**Field Trip Description:** Amy's Farm is a fun and unique experience for all ages. From early childhood to senior citizens, we offer age-appropriate tours for all visitors. General tours will have you participating in all sorts of hands-on activist including a garden walk, learning about the animals and enjoying the sights, sounds, smells and touches of a working farm. Grades 6-12 school programs include a guided tour and an experiential activity to engage students in learning about the importance of ecological, community-based farming. Programs are linked to the California Learning Standards and include such topics as: Sustainably agriculture, composting, irrigation, vermiculture and much more.

**Special Instructions:**

1. Activities vary by season.
2. Entry fee of $10.00- $15.00 per person depending on program. Entry fees are not covered by MEEC transportation grant.

**Host Site**: Apple Valley Center for Innovation (AVCI), Lewis Center for Educational Research

**Site Address**: 20702 Thunderbird Road, Apple Valley, CA  92307

**Website**: <https://www.lewiscenter.org/Departments/Local-Programs/Field-Trips/index.html>

**Field Trip Contact:**Amy Ritter

                  (760) 946-5414 ext. 276

                  fieldtrips@lcer.org

**Grade Levels**: K-5th grade

**Max. # of Attendees:** 125 students, 10 chaperones

**Length of field trip**: 4 hours

**Field Trip Descriptions**: The Lewis Center for Educational Research and

Apple Valley Unified School District have teamed up to provide a hands-on science center right

here in the High Desert! Located on our Thunderbird Campus, students get to experience

science first-hand. They will rotate through grade level specific, NGSS-aligned activities and

have free exploration time in our Exploratorium. Some activities include: NOAA & NASA’s

Science on a Sphere with an environmental focus, an AR Sandtable to see how and when

landforms change due to environmental activity, decomposition stages, a tour through the Solar

System, how the Sun affects us, earthquakes & volcanoes, invisible forces, and so much more!

**Special Instructions:**

**1.**Program fee $12 per student, Reservations required. Program fees are not covered under MEEC transportation grant.

      **2.** Field trips are partially outdoors, please dress for the weather.

      **3.** The School District or Organization arranging for this field trip will furnish the Lewis Center with a Certificate of Insurance. More details will be given during the reservation process.

**Host Site**: Aquarium of the Pacific

**Site Address:** 100 Aquarium Way, Long Beach, CA 90802

**Website**: <http://www.aquariumofpacific.org/education/yourfieldtrip>

**Field Trip Contact:** 562-590-3100, ext. 0

**Grade Levels:** K-12

**Max. # of Attendees**: Contact site for accommodations

**Length of tour:** Contact site for accommodations

**Field Trip Description:** Whether your field trip includes an educator-led program or is simply a self-led visit, the Aquarium offers a fun and educational experience for your students. Let us help you create a meaningful field trip that connects to your classroom curriculum. Field Trips to the Aquarium provide opportunities to touch animals including sharks and sea stars, engage and excite students, inspire awe in the Pacific Ocean and the animals that live there and connect to classroom curriculum

**Special Instructions:**

1. Program free ranging from $7.00-$11.50 per participant. Program and parking fees are not covered by MEEC transportation grant.
2. Requires advanced reservation

**Host Site**: Big Bear Alpine Zoo

**Site Address:** 43285 Goldmine Drive, Big Bear Lake, CA 92315

**Website**: <https://bigbearzoo.org/>

**Field Trip Contact:** 909-866-9700

**Grade Levels:** K-12

**Max. # of Attendees**: Contact site for accommodations

**Length of tour:** Arranged by teacher and host site

**Field Trip Description:** The Big Bear Alpine Zoo is a rehabilitation facility offering injured, orphaned and imprinted wild animals a safe haven; temporarily while they heal or permanently as they are unable to survive on their own. We are extremely proud that 90% of all the animals brought to us for rehabilitation are successfully released back into their native environment. Those that remain with us on exhibit are either too injured or have been imprinted by humans and cannot be released back into the wild to care for themselves.

**Special Instructions:**

1. The School or Organization arranging for this group tour will furnish the Big Bear Valley Recreation and Park District's Big Bear Alpine Zoo with a Certificate of Insurance in the amount of one million dollars liability, naming the Big Bear Valley Recreation and Park District and the County of San Bernardino as additional insured. ***Schools/Organizations that are unable to obtain a certificate of insurance must have the Big Bear Alpine Zoo's Release and Hold Harmless Agreement signed by the parent/guardian of participants under the age of 18 and presented to the zoo the day of the tour. Those 18 and older must sign for themselves.***
2. MEEC is not responsible for entrance, program or parking fees. Check with host site on group discount pricing.

**Host Site**: Big Morongo Canyon Preserve

**Site Address:** one-half mile southeast of the town of Morongo Valley

**Website**: [www.bigmorongo.org/index.htm](http://www.bigmorongo.org/index.htm)

**Field Trip Contact:** 760-363-7190 or bmcp@BigMorongo.org

**Grade Levels:** 1-12

**Max. # of Attendees**: 30, contact site for larger groups

**Length of tour:** Arranged by teacher and host site

**Field Trip Description:** FIELD TRIPS HAVE LIMITED AVAILABILITY!!!! Open to grades 1-12 only. The desert oasis at Big Morongo Canyon is one of the 10 largest cottonwood and willow riparian (stream) habitats in California. The upstream end of the canyon lies in the Mojave Desert, while its downstream portion opens into the Colorado Desert. Elevations on the Preserve range from 600 feet on the canyon floor to over 3000 feet at the ridge tops. Several trails, including boardwalks through the marsh and stream habitats, meander through the Preserve. Program Topics Include: Adaptations of Plants and Animals to Climatic Challenges , Desert Ecology , Homes for Flora and Fauna, Land Forms , Native American Uses of Plants in the Preserve, Pond Life Producers and Consumers , The Importance of Protecting Wetlands, The Rock Cycle, The Water Cycle, Weather and Climate, Wildlife Signs , Other Topics by Request.

**Special Instructions:**

1. An approved Tour Agreement is required prior to all group visits.
2. Reservations are required for both docent-led tours and self-guided tours for groups of over 15 people. Reservations are required at least two weeks in advance.

**Host Site**: California Science Center

**Site Address:** 700 Exposition Park Dr, Los Angeles, CA 90037

**Website**: [www.californiasciencecenter.org](http://www.californiasciencecenter.org)

**Field Trip Contact:** 213-744-2019

**Grade Levels**: K-12

**Max. # of Attendees**: Contact site for accommodations

**Length of tour:** Arranged by teacher and host site

**Field Trip Description:** Through hands-on experiences in our galleries, you’ll learn about human inventions and innovations, the life processes of living things and more. In our world, everything is connected. Plants, animals, people, weather, water, soil—all are part of a delicate balance. Living things can change their environments—and through a process called adaptation, environments can even change living things.

**Special Instructions:**

1. Groups of 15 people or more are required to make a reservation before visiting.
2. MEEC is not responsible for parking or entrance/booking fees

**Host Site:** CalPortland Company, Oro Grande Cement Plant

**Site Address:** 19409 National Trails Hwy, Oro Grande, CA 92368

**Website**[www.calportland.com/environment.aspx](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.calportland.com%2Fenvironment.aspx&data=05%7C01%7Ccfernandez%40calportland.com%7Cdda1ec5ffc7e4951c37108da73e50ab8%7Ce3a33c9e63d34653a3b846d66c3d4104%7C0%7C0%7C637949724820168685%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=nUlZKcKa5H8l4eIGIQWT72xUGi62j5rhvAmMUFmpz7w%3D&reserved=0)

**Field Trip Contact:** Catalina Elias, Environmental Manager

                                  celias@calportland.com

                                  760-269-1135

**Grade Levels:** 4-12

**Max.  # of Attendees:** 45 persons

**Length of tour:** 3 hours

**Field Trip Description:** Students will learn about the limestone lifecycle and how it is formed. They will learn about the cement manufacturing process and the flow of material while observing the facility from the top of the tower.  A tour of the CalPortland Company - Oro Grande Cement Plant includes a blast in the limestone quarry (as production/weather permits, not guaranteed), a guided tour throughout the cement manufacturing process and a behind the scenes look into the control room and the top of the tower. Students will also get a chance to explore careers in the mining industry and make their own concrete with cement manufactured on site. Lunch is included.

**Special Instructions:**

1.         Tours are limited to one bus.

2.         Closed toe shoes and long pants required for all attendees

**Host Site:** CEMEX

**Site Address:** 25220 Black Mountain Quarry Rd, Apple Valley CA 92307

**Website**: [www.cemexusa.com](http://www.cemexusa.com)

**Field Trip Contact:** Alejandra Vargas Silva, Environmental Manager

 alejandrav.silva@cemex.com

 714-515-2406

**Grade Levels:** 4-12

**Max. # of Attendees:** Contact site for accommodations

**Length of tour:** 2 hours

**Field Trip Description:** Tour the country’s second largest cement manufacturing facility where more than 2 million tons of cement is processed each year. Tour the Apple Valley site to see the Pyro processing system, which uses coal, old tires,pistachio shells, and wood by-products to generate temperatures in excess of 2500 degrees Fahrenheit.  Prior to your field trip; a representative from CEMEX will come to your classroom and give a presentation on how cement is made... there is visual information, materials and a PowerPoint presentation to help understand the process. The day of your field trip; your bus will tour the facility, which includes the quarry and an opportunity to view a blast shot in the quarry.  **Special Instructions:**

1. Closed-toe shoes required.

**Host Site**: Forever Wild

**Site Address:** 8545 Buttemere Rd, Phelan, CA 92371

**Website:**  <http://www.foreverwildsanctuary.org/>

**Field Trip Contact**: 760-868-2755 or staff@foreverwildsanctuary.org (do not email for appointments)

**Grade Levels**: K-12

**Max. # of Attendees**: Contact site of accommodations.

**Length of tour**: 1.5 -2 hours. Closed Monday and Thursday.

**Field Trip Description**: An animal sanctuary is a facility where animals are brought to live and be protected for the rest of their lives. Unlike animal shelters, sanctuaries do not seek to place animals with individuals or groups, instead maintaining each animal until his or her natural death. We do have a few reptiles and non-exotic animals that we allow the public to touch on certain tours. However we never allow the Exotic Cats to interact with the public, these animals are wild and in enclosures to protect them as well as you. The location can often be exposed and windy, and the enclosures are in the open.

**Special Instructions:**

1. Closed toes shoes required.
2. General Tour Cost: $10-$15 per person. Admission fees are not covered under MEEC transportation grant.
3. Sanctuary is located 1.3 miles up a dirt road.

**Host Site:** High Desert Interpretive Center and MWA Central Operations Center

**Site Address**:

**Website:** <https://www.mojavewater.org/>

**Field Trip Contact:** Nicholas Schneider

 nschneider@mojavewater.org

 760-946-7038

**Grade Levels:** 3-12

**Max. # of Attendees:** 36

**Length of tour:** 2 hours

**Field Trip Description:** An educational opportunity offering history of the Victor Valley with a focus on water resources is open at the High Desert Interpretive Center. Located between Deep Creek and the Mojave River in Apple Valley, the center features an instructional path with interpretive kiosks, a covered amphitheater and the Mojave Water Agency’s new Central Operations Center. Adjacent to the Mojave River bed, the location offers views of the Mojave River Forks Dam and the Cedar Springs Dam. The instructional path is easy to traverse and features kiosks dedicated to the subjects of land and water, the California State Water Project, the ancient Mojave River, the Native American settlers of the Victor Valley, and the western Mojave Desert biology and geology. In addition to the path, the Mojave Water Agency’s new Central Operations Center is available for tours. This 5,116 square-foot facility features the Agency’s centralized Supervisory Control and Data Acquisition system (SCADA). The SCADA control room enables the operations staff to manage the water system’s pumps, valves, reservoirs and wells by computers using operator-determined set points. A major portion of the Agency’s groundwater recharge operations are expected to occur at this location with releases of State Water Project water from Silverwood Lake and the Morongo Basin Pipeline via the new Deep Creek outlet. Tours may be scheduled in conjunction with water releases at various times of the year.

**Special Instructions:**

1. Field trips are limited to schools within the Mojave Water Agency Service Boundaries which include the Victor and Morongo Valleys.

**Host Site**: High Desert Power Project

**Site Address:** 19000 Perimeter Rd., Victorville, CA 92392

**Website:**

**Field Trip Contact**: Ryan Drewry

 760-217-3790 or 760-530-2312

**Grade Levels**: 1-12

**Max. # of Attendees**: Contact Site for accommodations.

**Length of tour**: 1-2 hours

**Field Trip Description**: Students can expect to see a modern combined cycle power plant, with three Combustion Turbines with associated heat recovery steam generators, and an attached Steam Turbine with a cooling tower. Facility also includes and extensive water treatment system.

**Special Instructions:**

1. Long pants, no tank tops, and closed toe shoes required.

**Host Site**: Joshua Tree National Park

**Site Address:** Contact site for specific drop-off instructions.

**Website:**  <https://www.nps.gov/jotr/index.htm>

**Field Trip Contact**: 760-367-3011

**Grade Levels**: 2-12

**Max. # of Attendees**: Contact site for accommodations.

**Length of tour**: 1-1.5 hours

**Field Trip Description**: Joshua Tree National Park Joshua Tree National Park is immense, nearly 800,000 acres, and infinitely variable, delicate, and extremely fragile. This is a land shaped by strong winds, sudden torrents of rain, and climatic extremes. Joshua Tree National Park invites you and your students to attend ranger-led education programs. Topics covered by Ranger Guided Programs include: desert landforms , the rock cycle, cultural history of how American Indians and early settlers survived in and adapted to the desert, geology of the Earth and how fault formed the landscape—and continues to shape it today, desert water sources, the Desert Tortoise, Desert Plants. Research and Job Shadowing opportunities available for High School Students.

**Special Instructions:**

1. Reservations are required.
2. Check with site for correct amount of chaperones needed for the program selected.
3. Entrance-fee waivers are available for educational visits but not for recreational visits. A statement of your educational objectives and your lesson plan with an outline of educational activities is required. Primary and Secondary Groups. To request an academic fee waiver for groups through grade twelve, return the request form (http://www.nps.gov/jotr/forteachers/upload/feewaiver.pdf )and allow a minimum of two weeks for us to process your request. Entrance fees are not coved by transportation grant.

**Host Site**: Living Desert and Botanical Gardens

**Site Address:** 47900 Portola Ave, Palm Desert, CA 92260

**Website:**  <http://www.livingdesert.org/>

**Field Trip Contact**: 760-346-5694 or guestservices@livingdesert.org

**Grade Levels**: K-12

**Max. # of Attendees**: 120

**Length of tour**: 1.5 hours +, contact site for accommodations.

**Field Trip Description**: The Living Desert provides an introduction to desert ecology to more to thousands of school children each year. Field Trips have the following exciting options that include our regularly scheduled storytelling, live animal encounters, Wildlife Wonders Show, Village WaTuTu, hands-on Discovery Center and our desert play land – Gecko Gulch. Docent-Guided tours available for grades 1-12. You may choose a tour of African or North American exhibits, or book a North American tour highlighting the ancient Cahuilla Indians. After your docent-led tour you may continue to enjoy the park at your leisure! Pre- and Post visit material packets are available for free download. Materials include: field trip information, guidelines for school groups, “What is a Desert?” activities for classroom settings, and background fact sheets.

**Special Instructions:**

1. Entrance fee of $11-$15 admission fee. Admission and activity fees are not covered under MEEC transportation grant. Any additional chaperones that exceed the 1:5 ratio will be charged full price admission of $29.95
2. Educators may make arrangements to visit the park in advance to finalize lesson plans at no charge.

**Host Site**:,Lewis Center for Educational Research**- Mineral City**

**Site Address**: 17500 Mana Road, Apple Valley, CA  92307

**Website**: <https://www.lewiscenter.org/Departments/Local-Programs/Field-Trips/index.html>

**Field Trip Contact:** Amy Ritter

                  (760) 946-5414 ext. 276

                  fieldtrips@lcer.org

**Grade Levels**: Pioneer Kids, TK-2nd grade

              Trails West, 3rd grade

              Gold Rush, 4th grade

**Max. # of Attendees:**  60 students, 10 chaperones

**Length of field trip**: 2 1/2-3 hours

**Field Trip Descriptions**: **Pioneer Kids** - *This is a student-facilitated program for cross age learning.* Upper elementary students from The Academy for Academic Excellence are trained to guide students in learning about the life of pioneer children. Students rotate through different stations within a 2-hour hands-on program in our western town. Students learn what life was like for pioneer children and compare it to their lives today. Is it better? Have we done a good job preserving our resources? Are all improvements good for us? What lessons could be learned in preservation?

**TrailsWest** - What better way for third graders to learn about the westward movement than by

taking them out on the trail? In Mineral City, our simulated town on campus, students prepare

for their journey in search of a better way of life. TrailsWest is not only about the westward

movement, but also about the local history of our area as the program relives the first wagon

train through the Mojave Desert from Utah to San Bernardino. Students learn how important

wagons were to the westward movement and learn to appreciate our environment and what the

pioneers sacrificed. Our 150-acre Mojave River Campus was once home to a Serrano tribe.

They taught the pioneers how to use the local environment and to take care of it for future

generations.

**Gold Rush Adventure** - Fourth grade students spend the morning in 1849 when they visit the

Lewis Center for the Gold Rush Adventure! What was life like in California in 1849? How much

did supplies cost to 'hunt gold'? What kind of people came to the Gold Rush? What is 'Gold

Fever'? Did anyone 'strike it rich'? What effects did the Gold Rush have on our current

environment? These are the questions that are answered as students make their way from

Sam's Dry Goods store in Mineral City to pan for gold during their trip to Gold Rush country.

Students also help out in town by doing chores and they each get to take home what they

made!

**Special Instructions:**

**1.** Program fee $8-$10 per student, Reservations required. Program fees are not covered under MEEC transportation grant.

      **2.** Field trips are outdoors, please dress for the weather.

      **3.** The School District or Organization arranging for this field trip will furnish the Lewis Center with a Certificate of Insurance. More details will be given during the reservation process.

**Host Site**: Mitsubishi Cement Corporation

**Site Address:** 5808 CA-18, Lucerne Valley, CA 92356

**Website:**  <http://mitsubishicement.com/>

**Field Trip Contact**: David Rib

 Plant Manager

 760-248-5184 or drib@mitsubishicement.com

**Grade Levels**: 3-12

**Max. # of Attendees**: Contact site for accommodations.

**Length of tour**: 2 hours

**Field Trip Description**: See how cement is made from raw materials blasted from the mountain-side into an important building material. Beautiful views of the cement process overlook Lucerne Valley and beyond. See how vegetation is re-established to restore the natural habitat. See how raw materials are mixed and heated and then transformed to cement clinker. See a big pile of waste tires that are used daily as clean fuel for the process. Every student will learn the difference between cement and concrete!

**Special Instructions:** N/A

**Host Site**:  Mojave Desert Air Quality Management District

**Site Address:**    14306 Park Ave, Victorville, CA 92392

**Website:**  <http://www.mdaqmd.ca.gov/>

**Field Trip Contact**: Martial Haprov

                                 Communications Analyst

                                 760-245-1661 ext. 3002

**Grade Levels**:   K-12

**Max.  # of Attendees**:  check with site for accommodations

**Length of tour**: check with site for accommodations

**Field Trip Description** The Mojave Desert Air Quality Management District’s Victorville headquarters — Stretched out over more than 20,000 square miles of California’s vast desert expanse, the Mojave Desert Air Quality Management District is geographically the second largest of the state’s 35 air districts. As the air pollution control agency for San Bernardino County’s High Desert and Riverside County’s Palo Verde Valley, the District has primary responsibility for regulating stationary sources of air pollution located within its jurisdictional boundaries. Get an inside look at the day-to-day operations of an air quality district directly from the experts on staff. View electric vehicle charging stations, the District’s various departments, a fully operational, multi-pollutant monitoring hub with federally regulated instruments that measure particulate matter, ground-level ozone, oxides of nitrogen and more.

Field trip includes a grade appropriate air quality workshop/presentation.

**Special Instructions:** N/A

**Host Site**: Mojave National Preserve, Hole-In-The Wall and/or Kelso Depot Visitor Center

**Site Address:** 90942 Kelso Cima Rd, Kelso, CA 92309

**Website:**  <https://www.nps.gov/moja/index.htm>

**Field Trip Contact**: Hole-In-The Wall: Christina Mills

 760-252-6123 or 760-326-7051

 Christina\_Burns@nps.gov

 Kelso Depot: Dora McKeever

 760-252-6100

 dora\_mckeever@nps.gov

**Grade Levels**: K-12

**Max. # of Attendees**: Contact site for accommodations

**Length of tour**: 2-5 hours depending on location and activity

**Field Trip Description**: Mojave National Preserve Hole-in-the-Wall- Rangers escort students on the Rings Loop Trail, a two-hour guided walk beginning at Hole-in-the-Wall Information Center. Students will view petroglyphs and rock formations, which offer vivid examples of volcanic processes. Students will be offered supervised free time to explore the bizarre rock formation for which Hole-in-the-Wall is named. The hike culminates as students climb up Banshee Canyon on metal rings embedded in the rock. Kelso Depot Visitors Center, Mojave National Park, is located in a renovated 1920s-era train station and includes two floors of exhibits highlighting the natural and cultural history of the Mojave Desert; a National Park Store; the Beanery Lunch Counter; a theater showing introductory films; and the Desert Light Gallery.

**Special Instructions: N/A**

**Host Site:** Mojave Solar LLC

**Site Address:** 42134 Harper Lake Road, Hinkley CA 92347

**Website:** [www.atlantica.com](http://www.atlantica.com)

**Field Trip Contact:** Mahnaz Ghamati

                                  Quality & Environmental , Compliance Manager

                                  Office: 760-308-0418,   Cell: 760-4980549

                                  mahnaz.ghamati@atlantica.com

**Grade Levels:** 6-12

**Max.  # Of Attendees:** 20

**Length of tour:** 2- 3 hours

**Field Trip Description**:

Mojave Solar Plant is generating 100% green energy. In this trip the students will have the opportunity to see and learn about:

1. Our solar fields with the amazing mirrors collecting energy from sun
2. Zero liquid discharge Water Treatment Plant
3. Steam Generation process and the heat exchangers.
4. The power generation process.
5. Our Environmental measures to protect the wildlife, soil, and water.

**Special Instructions:**

1. Limited to one bus.
2. Long sleeve shirts, long pants and closed toe shoes are required.

**Host Site**: Mojave Water Agency Headquarters

**Site Address:** 3846 Conference Center Dr, Apple Valley, CA 92307

**Website:**  https://www.mojavewater.org/

**Field Trip Contact**: Nicholas Schneider

 nschneider@mojavewater.org or 760-946-7038

**Grade Levels**: 3-12

**Max. # of Attendees**: 36

**Length of tour**: 2 hours

**Field Trip Description**: MWA’s Headquarters facility is a stand out among LEED Certified (Leadership in Energy and Environmental Design) buildings and includes an impressive 1.7 acre sized demonstration garden. The garden displays alternatives to turf as well as other high water consuming plants. Landscaping ideas, utilizing best water conservation practices as well as seeing what plants work best in the ever-changing climate of the High Desert are all parts of this gorgeous garden. The MWA Headquarters Facility is helping decrease negative air quality effects of transportation impacts by providing employees with bicycle access, storage and showering facilities within 200 yards of the main entrance. Hybrid or electric automobiles are encouraged through the provision of preferred parking for fuel efficient vehicles. A comprehensive photo-voltaic system was installed, comprised of roof, carport and ground mounted panels that produce up to 70% of the facility’s power needs. With 258 kW DC panels, the project was completed using some of the most advanced solar technology available. Customized school tours for energy and water conservation and energy/garden service learning project ideas.

 **Special Instructions:**

1. Field trips are limited to schools within the Mojave Water Agency Service Boundaries which include the Victor and Morongo Valleys.

**Host Site**:  Oak Glen Preserve

**Site Address:**39611 Oak Glen Road Oak Glen, CA 92399

**Website:** <http://www.wildlandsconservancy.org/outdoor_inland.html>

**Field Trip Contact:**Elba Mora

 Outdoor Education Director

 909-790-3698 or elba.m@twc-ca.org

**Grade Levels:**3-6

**Max.  # of Attendees:**110

**Length of tour:** 5 hours

**Field Trip Description:** Located in Oak Glen, nestled within the San Bernardino Mountains, this free program takes place on a two-mile nature trail on the Oak Glen Preserve. This trail meanders through an evergreen forest, past ponds that host migratory ducks in winter, and under a canopy of a deciduous black oak forest that opens onto a south-facing chaparral hillside. The return trail follows a willow shaded stream onto a boardwalk that is the home to a variety of butterflies when the wetlands are in bloom. Children will experience, within a small geographic area, ecosystems that were previously unknown to them. The Outdoor Discovery Program is a five hour nature adventure field trip, at which each child will have a chance to learn, explore, and gain a new respect for nature while having fun.

**Special Instructions:**

1. Weather appropriate clothing and closed toe shoes required.

**Host Site:** Prime Desert Woodland Preserve

**Site Address:** 43201 35th Street West, Lancaster CA 93534

**Website:** <http://www.cityoflancasterca.org/about-us/departments-services/parks-recreation-arts/parks/prime-desert-woodland-preserve>

**Field Trip Contact:** pdw@cityoflancaster.org

**Grade Levels**: K-12

**Max. # of Attendees:** Contact site for accommodations.

**Length of tour:** 2 hours

**Field Trip Description**: First proposed in 1985, the Prime Desert Woodland Preserve is the result of the efforts of many local residents and the Lancaster City Council. This scenic location nestled within an urban area has been established to provide visitors an opportunity to learn about the animals, plants, and the region in which we live, as well as a place to simply relax and enjoy nature. The Preserve has an area of about 100 acres with over two miles of trails.

**Special Instructions:**

1. Interpretive Center open Weekends and Wednesdays only.

**Host Site:** Palcerita Canyon Nature Center

**Site Address:** 19152 Placerita Canyon Rd, Newhall, CA 91321

**Website:** http://www.placerita.org/

**Field Trip Contact:** 661-259-7721

**Grade Levels:** K-12

**Max. # of Attendees:** 80

**Length of tour**: 2 hours

**Field Trip Description**: The program begins when the school bus pulls up with the children accompanied by teachers, aides, and parents. The children are led to the classroom where we begin an introduction to Placerita Canyon. The next part of the program is to show the animals we have at the nature center to the children. The animal presentation features native Southern California creatures such as tarantulas, snakes, lizards, birds of prey, and mammals. Students are than broken up into small groups for a nature hike where there is plenty to see including blooming plants, birds, and insects. We often stop at our Native American house to demonstrate how our early inhabitants lived. The Walker Cabin, home to a pioneer family, is always of interest. We often hike to the “Oak of the Golden Dream” which is the site of the first documented gold discovery in California in 1842.

**Special Instructions:**

1. Closed toe shoes and weather appropriate attire required
2. $2.00 donation for each student. Donation not covered by MEEC transportation grant.
3. Open Tuesday-Sunday.

**Host Site:** Rio Tinto Borates: Borax Visitor Center

**Site Address:** 14486 Borax Rd, Boron, CA 93516

**Website:** <https://www.borax.com/visitorcenter/>

**Field Trip Contact:** 760-762-7588

**Grade Levels:** 4-12

**Max. # of Attendees:** 50-100

**Length of tour**: 2 hours

**Field Trip Description**: Learn about the history of borax the mineral, and Borax the company, and mining today, how borates are used and how they are transported to the world. Tour 6 different exhibit areas of the facility – internal and external. Internal exhibits include displays on mining and geology, the refining process, product distribution, examples of the many products that contain borates, our safety, environmental and community programs and a bit about our heritage and our connection to Death Valley. Externally, there are two viewing areas – a primary area just east of the Visitor Center and a secondary area on top of the Visitor Center – where your students can watch the trucks and shovels working in the pit. Students may do their own “rockhounding” and collect their own borate samples. See an original 20 Mule Team wagon set, complete with fiberglass mules and a large haul truck tire which provides the background for a great photo opportunity.

**Special Instructions:** N/A

**Host Site:** Riley’s Farms

**Site Address**: 12261 S. Oak Glen Road, Oak Glen, CA 92399

**Website:** http://rileysfarm.com/index.php/information/contact-us/

**Field Trip Contact:** http://rileysfarm.com/index.php/information/contact-us/

**Grade Levels:** K-12

**Max. # of Attendees:** Contact site for accommodations.

**Length of tour:** Contact site for accommodations.

**Field Trip Description:** Students will learn the extent of science, technology, engineering and math as it was in the 1700s and 1800s. Students will tour homesteads and draw comparisons of life in the colonial era to see how far we’ve come leading up to the industrial revolution. From antique candle dipping to some of the earliest farming techniques, Riley’s Farms offers a glimpse into how far ingenuity has come in such a short period. Students can learn about the science behind early American tool and weapon making at the blacksmith and can even get a taste of colonial economics as they learn how business was conducted at the height of the gold rush. Teachers are encouraged to contact Riley’s Farm prior to their visit.

**Special Instructions:**

1. Program Fee not covered by MEEC transportation grant.

**Host Site:** Vasquez Rock Interpretive Center

**Site Address:** 10700 West Escondido Canyon Rd, Agua Dulce, CA 91390

**Website:** <http://parks.lacounty.gov/wps/portal/dpr/Parks/Vasquez_Rocks_Natural_Area>

**Field Trip Contact:** 661-268-0840

**Grade Levels:** K-12

**Max. # of Attendees:** 60 for guided tour

**Length of tour**: 1 hour

**Field Trip Description**: Located in the High Desert near Agua Dulce Springs, features 932 acres of spectacular rock formations, Tataviam Indian sites, and a seasonal stream. The rocks’ history began in prehistoric times when the sandstone rocks were uplifted at a picturesque angle, showing their jagged red features. The Vasquez Rocks Interpretive Center offers a tectonic plate simulator, EEI Curriculum-based activities, live animal displays, artifact exhibits, as well as cultural, historic and geological exhibits.

**Special Instructions:**

1. Interpretive Center open Tuesday – Sunday

**Host Site:**  Victor Valley Museum

**Site Address:** 11873 Apple Valley Rd, Apple Valley, CA 92308

**Website:** <http://www.sbcounty.gov/museum/branches/vvm.htm>

**Field Trip Contact:** online reservations available beginning in the fall or

 Tiffany Talavera, Tiffany.Talavera@sbcm.sbcounty.gov

**Grade Levels:** K-12

**Max. # of Attendees:** Contact site for accommodations

**Length of tour:** Contact site for accommodations

**Field Trip Description:**  Discover Your Own Backyard at the Victor Valley Museum. Explore the cultural and natural heritage of the High Desert. Exhibits include Native Americans, prehistory and history archaeology, rocks, minerals, mining, fossils, plants, animals, and the Mojave Desert’s unique environments. Curriculum-based gallery guides for school groups available.

**Special Instructions:**

1. Admissions fees- Adults $5.00, Children under 12 $2.00. Admission fee not covered by MEEC transportation grant.
2. Open Wednesday thru Sunday.

**Host Site**: Victor Valley Transit Authority

**Site Address**: 17150 Smoke Tree Street, Hesperia, CA 92345

**Website**: <https://vvta.org/>

**Field Trip Contact**: Debi Lorrah

 760-995-3588 or dlorrah@vvta.org

**Grade Levels**: 6-12

**Max. # of Attendees:** 10

**Length of tour**: 30-45 minutes

**Field Trip Descriptions:** The VVTA Hesperia facility is located on 10 acres just off Main Street on the corner of Smoke Tree Street at E Avenue. The VVTA Administration and Maintenance Buildings are Leadership in Energy and Environmental Design (LEED) Gold rated, which includes the following LEED attributes: State-of-the-art underground storm water treatment and retention system; Solar tubes to reduce the need for artificial lighting in hallways and some offices; Water recycling for the bus wash, featuring reverse osmosis deionization, which recycles 80% of water; Innovative heating and ventilation system in which clean air flows up through the floor rather than being pushed down from the ceilings; Photovoltaic power system, which will produce all of the facility’s electricity requirements; Shade for buses to reduce air conditioning cooling times, saving fuel and reducing emissions. VVTA operates 119 revenue vehicles with a service area encompassing over 1,000 square miles. VVTA services the Cities of Adelanto, Barstow, Hesperia, Victorville, the Town of Apple Valley and unincorporated areas of San Bernardino County. 100% of VVTA’s fixed route fleet is comprised of compressed natural gas buses (utilizing renewable natural gas and “near zero emissions” engines), and zero emissions battery electric buses.

**Special Instructions:**

1. Closed toed shoes required.

**Host Site:** Victor Valley Wastewater Reclamation Authority

**Site Address:** 20111 Shay Rd, Victorville, CA 92394

**Website:** <http://www.vvwra.com/>

**Field Trip Contact:** David Wylie

 760-246-8638 ext. 102 or dwylie@vvwra.com

**Grade Levels:** 4-12

**Max. # of Attendees:** Contact site for accommodations.

**Length of tour:** 2 hours

**Field Trip Descriptions:** Students will get an up-close look at how VVWRA has gone from being just a wastewater treatment plant to a resource recovery facility. The tour will highlight all phases of the wastewater treatment process, including how millions of gallons of water are recycled every day and released into the Mojave River. Plus, students will learn how VVWRA is using food waste to generate renewable carbon neutral energy.

**Special Instructions:**

1. Closed toed shoes, long pants and light coat required.
2. Additional field trip waiver required.

**Host Site:** Vista del-Lago-Pyramid Lake

**Site Address:** 38500 Vista Del Lago Rd, Gorman, CA 93243

**Website:** <http://www.water.ca.gov/recreation/locations/pyramid/pyramidvisitors.cfm>

**Field Trip Contact:** 661-294-0219

**Grade Levels:** K-12

**Max. # of Attendees:** Contact site for accommodations

**Length of tour:** Contact Site for accommodations.

**Field Trip Descriptions:** The center now supports California’s Education and Environment Initiatives (EEI) Curriculum. Topics discussed during tour include: ancient water, water supply threats an innovations and an over view of the State water Project. No explanation of California water would be complete without discussion of the SACRAMENTO-SAN JOAQUIN DELTA, the largest estuary on the West Coast. The center also features a video presentation, projected on a huge topographical map of California, that explains how the state’s geography influences where rain and snow fall — and how water is transported to drier regions. At Vista del Lago, visitors can also learn about the 29 public water agencies that receive State Water Project supplies.

**Special Instructions:** N/A

**Host Site:** Whitewater Preserve

**Site Address:** 9160 Whitewater Canyon Rd, Whitewater, CA 92282

**Website:** <http://www.wildlandsconservancy.org/preserve_whitewater.html>

**Field Trip Contact:** Caroline Conway

 Caroline.c@twc-ca.org

**Grade Levels:** K-12

**Max. # of Attendees:** 70

**Length of tour:** 2 hours.

**Field Trip Descriptions:** Whitewater Preserve is one of three nature preserves in the desert region owned and operated by The Wildlands Conservancy (TWC). All programs are themed according to NGSS, unless requested. Programs available cover- ecosystems, geology, flow of matter and energy, water sheds and aquifers. Citizen Science “Macroinvertebrate Survey” options available for middle and high school students.

**Special Instructions:**

1. Tour available on Tuesdays, Thursdays and Fridays
2. Closed toe shoes and weather appropriate clothing required.