

Former Shooting Range

Background

- 1972 - Leased by the Rocketdyne-Atomics International Rifle and Pistol Club, Inc.
- 1972-1991 – Operated as a shooting range.
- 1990 - Sold to Santa Monica Mountains Conservancy.
- Visible lead shot cleanup activities (removal of soil contaminated with lead shot) include:

Removal Time	Amount (pounds/tons)
1992	34,000 / 17
1993/1994	714,085 / 357
1998	13,007 / 6.5
2006	33,450 / 16.7
2009	14,513 / 7.3
2010	9,573 / 4.8
2011	2,908 / 1.5
2012	321 / 0.15
2013	837 / 0.42
2016/2017	550 / 0.28

- Visible lead shot continues to be released from the rock matrix and soils, especially during heavy rains.

2016-2017 Investigation

- Visual and X-ray fluorescence (XRF) survey for lead shot, clay target, and other debris conducted on a 25-foot grid to determine the shape of decision units for incremental sampling.
- Incremental sampling methodology (ISM) conducted on 30 feet by 30 feet grid. Samples analyzed for lead, antimony, arsenic, and polynuclear aromatic hydrocarbons.
- Discrete soil sampling conducted along the recreational hiking trails within the Former Shooting Range investigation area. Samples analyzed for lead.



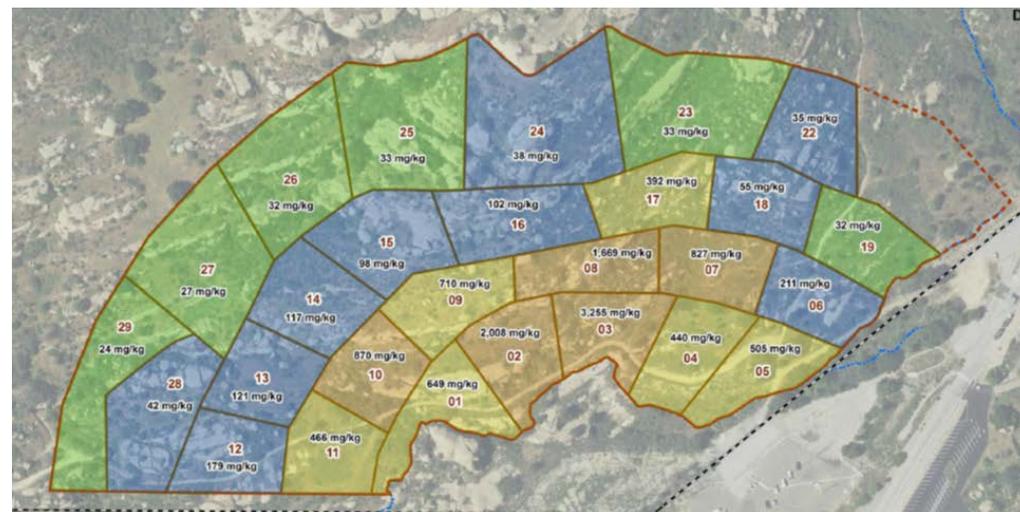
Results of the 2016-2017 Investigation

- Shooting Range Data Summary and Findings Report (DSFR) submitted in April 2017.
- ISM lead concentrations - 24 to 3,246 milligrams per kilogram (mg/kg).
- Lead concentrations in the fine fraction of discrete soil collected along the hiking trails - 4 to 5,100 mg/kg.
- A 1200-foot section of the Sage Ranch Loop Trail closed on March 1, 2017 due to high lead concentrations. Trail will remain closed until the lead shot and impacted soils are removed to prevent human exposure.
- Sage Ranch Loop Trail was rerouted and opened on May 1, 2017.

Upcoming Work (Next 6 months)

- Investigation to evaluate lead impacted soil/sediment that may have entered the Northern Drainage between 2010-2017.
- Field work – Spring/Summer 2018.
- Report – Summer/Fall 2018.

Results of ISM Sampling for Lead



Results of discrete sampling for lead along Sage Ranch Loop Trail

