



# UC San Diego

## Policy & Procedure Manual

---

[Search](#) | [A-Z Index](#) | [Numerical Index](#) | [Classification Guide](#) | [What's New](#)

### ENVIRONMENT, HEALTH & SAFETY

#### Section: 516-27

Effective: 12/07/2009

Supersedes: N/A

Review Date: TBD

Issuance Date: 12/07/2009

Issuing Office: [Environment, Health & Safety](#)

---

### SOILS MANAGEMENT POLICY

#### I. POLICY

The purpose of this policy is to protect human health and the environment from petroleum, heavy metals, and other hazardous materials or wastes that may be contained in UCSD soils. This policy applies to soil disturbance and soil placement associated with new development and redevelopment within the UCSD Campus, Scripps Institution of Oceanography, Elliot Field, Mount Soledad, Hillcrest and Nimitz Marine Station. Requirements of this policy shall be included in any geotechnical field investigations.

Soil disturbance associated with landscaping, utility installation, or subsurface repair and maintenance should follow the UCSD Awareness Program as outlined in the brochure located at <http://blink.ucsd.edu/safety/environment/outdoor/FUDS/>.

The department implementing the project will be the primary responsible department with coordination support provided by Environment, Health and Safety (EH&S) and Physical Planning.

#### II. PROCEDURES

Implementation of this policy assists in determining the presence of hazardous materials or wastes within a proposed project site. This will be done by collecting samples in accordance with industry-standard ASTM guidelines, analyzing samples using US EPA-approved methods, and reporting results as part of the geotechnical investigation. The process includes:

- A. The department implementing the project will consult with EH&S to determine application of this policy.
- B. The department implementing the project will hire the environmental service, typically as part of geotechnical activities.
- C. The environmental service provider will conduct sample collection according to ASTM guidelines and the procedure described below.
  1. All samples will be collected according to industry standards.
  2. All chemical analyses must be performed by State of California certified laboratories.
  3. At a minimum, the following soil sampling and analyses will be performed:
    - a. In cooperation with EH&S, grid the site into an approximate 100 foot by 100 foot grid (approximately ¼ acre blocks). Historical use, such as an underground storage tank, may require additional, biased sample locations.

- b. Collect soil samples from each of the locations using appropriate methods at approximately 2 feet below surface, 5 feet below surface and at 5 foot intervals thereafter to the bottom elevation of the proposed excavation.
- c. Analyze all samples for the following constituents:
  - 1) Total Petroleum Hydrocarbons (TPH) Extended Range (C8-C40) by EPA Method 8015 Modified.
  - 2) California Toxic Metals Total Concentration for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.
  - 3) Explosives by EPA Method 8330 (unless exempted by EH&S).
- 4. Environmental service provider will include a limited environmental section (sample collection locations, collection specifics, and analytical results) as part of the geotechnical report. The environmental information will be signed by a State of California registered geologist or professional engineer. The report will be provided in hardcopy and in a readable electronic format.
- 5. Forward environmental section results to EH&S.
- 6. Any detection of explosives or California Toxic Metals will be addressed. Detections may be submitted to the United States Army Corps of Engineers and the Department of Toxic Substance and Control as the agencies involved with these constituents. Detections of TPH may be submitted to the Regional Water Quality Control Board depending on the final disposition of the soils.
- 7. Placement of excavated soils will be a joint decision between the Responsible Parties and EH&S.

### **III. RESPONSIBILITY**

Departments that disturb soil as defined in this policy statement are responsible for implementing these procedures. At a minimum, the department implementing the project as the primary responsible parties will coordinate with Environment, Health & Safety, and Physical Planning to determine the application of the policy and level of implementation.

### **IV. REFERENCES**

- A. FINAL Site Inspection Report, Former Camp Calvin B. Matthews Site, September 2007.
- B. Review of a History of U.S. Army Camp Robert E. Callan and U. S. Marine Corps Camp Calvin B. Matthews, September 1998.
- C. USC, Title 42, Chapter 103 – Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).
- D. CCR, Title 22, Chapter 6.8 (Section 25300) – Hazardous Substance Account Act.
- E. Order No. R9-2002-0342 - Waste Discharge Requirements for the Disposal and/or reuse of Petroleum Fuel Contaminated Soils (FCS) in the San Diego Region.