

U.S. Army Corps of Engineers, Los Angeles District

Formerly Used Defense Sites Program

PROPOSED PLAN

FOR

University of California at San Diego (UCSD) (Camp Matthews)

Munitions Response Site Conceptual Site Exposure Model 2 through 5 at Range Complex No. 1

San Diego County, California

Formerly Used Defense Sites (FUDS) Project No. J09CA111001

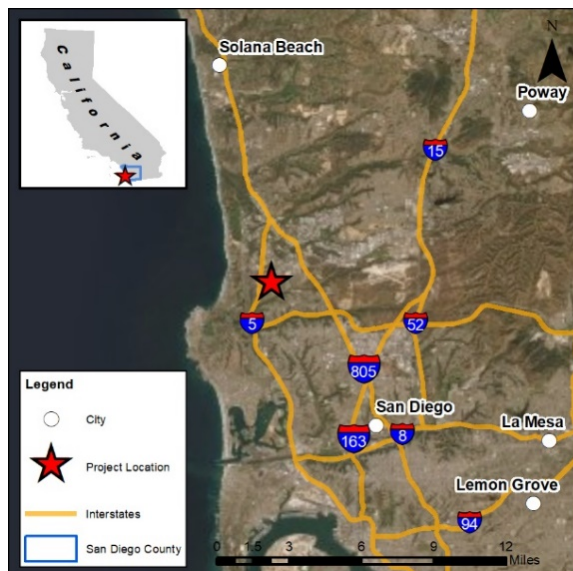
February 2020



INTRODUCTION

This **Proposed Plan** is presented by the U.S. Army Corps of Engineers (USACE) to allow the public the opportunity to review and comment on the **Preferred Alternative** for UCSD (Camp Matthews) **Munitions Response Site (MRS) Conceptual Site Exposure Model (CSEM) 2 through 5** at Range Complex No. 1, located in San Diego County, California (Figure 1). Based on the results of the **Remedial Investigation (RI) Report** (USACE, 2019b), USACE has recommended a No Action Decision under the **Military Munitions Response Program (MMRP)** and identified No Action as the **Preferred Alternative** because UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 do not present a current or future unacceptable risk to human health or the environment. This decision excludes **CSEM 1, Candidate Property 001 (CP001)**, which will be delineated as a separate **FUDS** project and a new stand-alone **RI/Feasibility Study (FS)** project based on the recommendations presented in Figure 3 on Page 4.

Figure 1: UCSD (Camp Matthews) Range Complex No. 1 Site Location



This document discusses the rationale for supporting a No Action Decision within UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1. This document is issued by USACE, Los Angeles District, the lead agency for site activities, and reviewed by the support agency, the California Department of Toxic Substances Control (DTSC). The lead and support agency have reached an agreement on the **Proposed Plan**.

Dates to Remember:

PLEASE MARK YOUR CALENDAR

PUBLIC COMMENT PERIOD:

February 24 – March 27, 2020

USACE will accept written comments on the **Proposed Plan** during the public comment period. Written comments may be sent to:

Ms. Fran Firouzi
USACE, Los Angeles District
915 Wilshire Boulevard (Blvd.),
Suite 930
Los Angeles, California 90017
Phone: (213) 452-3165
Fax: (213) 452-4213
forough.firouzi@usace.army.mil

PUBLIC MEETING: March 10, 2020

A public meeting will be held at **5:00 pm** at:

Hyatt House San Diego/Sorrento Mesa
10044 Pacific Mesa Blvd.

San Diego, California, United States, 92121

to explain the **Proposed Plan**. Verbal and written comments will be accepted at the meeting.

FOR MORE INFORMATION:

Project documents are available for review at:

San Diego Central Library
330 Park Blvd.
San Diego, California 92101

This **Proposed Plan** contains terms (in bold letters) used for environmental remediation and the overall **MMRP**. These terms are described in the Glossary found at the end of this document.

USACE, Los Angeles District, is presenting this information to keep the public fully informed of the decision-making process regarding impacts from former military use at UCSD (Camp Matthews) Range Complex No. 1. This fulfills the public participation requirements under **Comprehensive Environmental Response, Compensation, and Liability Act** (CERCLA) (42 United States Code [USC] §9617(a)) and the National Oil and Hazardous Substances Pollution Contingency Plan (40 Code of Federal Regulations [CFR] §300.430(f)(2)).

UCSD (Camp Matthews) Range Complex No. 1 is located in La Jolla, San Diego County, California, approximately 12 miles north of the city of San Diego. The 5,056-acre site is heavily developed with small, undeveloped areas interspersed throughout. Interstate (I)-5 passes through the middle of the site, and I-805 intersects the site's eastern boundary. Parcel owners within UCSD (Camp Matthews) Range Complex No. 1 include federal and local governments, commercial entities, school districts, and private individuals.

An **RI** was conducted in 2018 for the project site using a combination of metal detection technologies, including digital geophysical mapping transects and analog geophysical transects, and results from that investigation support the recommendation of a No Action Decision within UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 (USACE, 2019b). A more detailed view of UCSD (Camp Matthews) Range Complex No. 1 including site access is shown on Figure 2.

Figure 2 UCSD (Camp Matthews) Range Complex No. 1 Site Map



If an **RI** discovers an unacceptable risk from either explosive hazards or **Munitions Constituents** (MC), a **FS** is conducted to evaluate alternatives for a remedy. However, since the **RI** did not identify an unacceptable risk, no further action is recommended and a **FS** is not required for UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1.

USACE is the lead agency for the **FUDS** program, which is responsible for environmental restoration of real property that was owned by, leased to, or otherwise possessed by the United States and under the jurisdiction of the Secretary of Defense that was transferred from Department of Defense control prior to October 17, 1986. (Note: The **MRS** boundary was developed to account for the safety fans associated with the munitions use at the site, which results in the **MRS** overlapping the **FUDS** boundary.) In executing the **FUDS** program, the USACE carries out response actions to address releases of hazardous substances and **Munitions and Explosives of Concern** (MEC) or **MC** contamination.

USACE conducts environmental response activities at **FUDS** sites on behalf of the Department of Defense and is the lead agency for investigating, reporting, deciding and implementing remedial action at UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1. Representatives from the DTSC, the lead regulatory agency for this project, reviewed the **RI** Report and concurred with its conclusions and recommendations. Documentation of this concurrence is provided in the **Administrative Record** file at the San Diego Central Library located at 330 Park Blvd., San Diego, California 92101.

PUBLIC INVOLVEMENT PROCESS

Property owners and other interested parties are encouraged to review this document and submit comments. Public comments are considered before an alternative is selected and approved.

Comments will be accepted during the public comment period which begins prior to the public meeting. The Public Comment Review period began on February 24, 2020 and will end on March 27, 2020. The **Proposed Plan** will be presented at the public meeting. Verbal and written comments will be accepted at the meeting and throughout the public comment period. All comments received are considered and documented before the final remedy is selected.

The location of the meeting, the date and time, and the address of the information repository are presented on the first page of this document (see Dates to Remember box).

The **Proposed Plan** and the **RI Report** are a part of the UCSD (Camp Matthews) Range Complex No. 1 **Administrative Record** file that contains all the documents used in making decisions on remedial projects at the site.

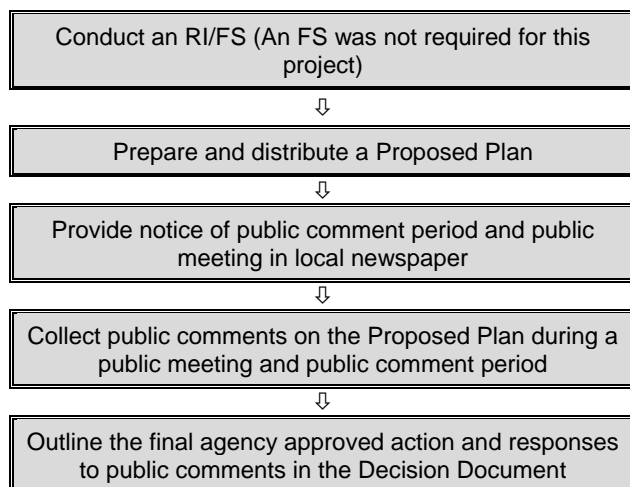
This **Proposed Plan** identifies the recommended No Action Decision for UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 and provides the rationale for the **Preferred Alternative**; identified tentatively on the findings of the **RI** and ongoing discussions among the lead and support agencies, the affected community, and other stakeholders.

The purposes of this **Proposed Plan** are to:

- Present basic background information.
- Identify the **Preferred Alternative** and explain the reasons for the preference.
- Encourage public review and comment on the recommended No Action Decision described.
- Provide information on how the public can be involved in the process.

The decision on the final Selected Remedy for UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 will be presented in a **Decision Document**. The USACE responses to public comments on this **Proposed Plan** will appear in the “Responsiveness Summary” section of the **Decision Document**. The flow chart shown on Diagram 1, below, summarizes the various steps in the **Decision Document** development and approval process.

Diagram 1: Decision Document Process



SITE BACKGROUND

SITE HISTORY

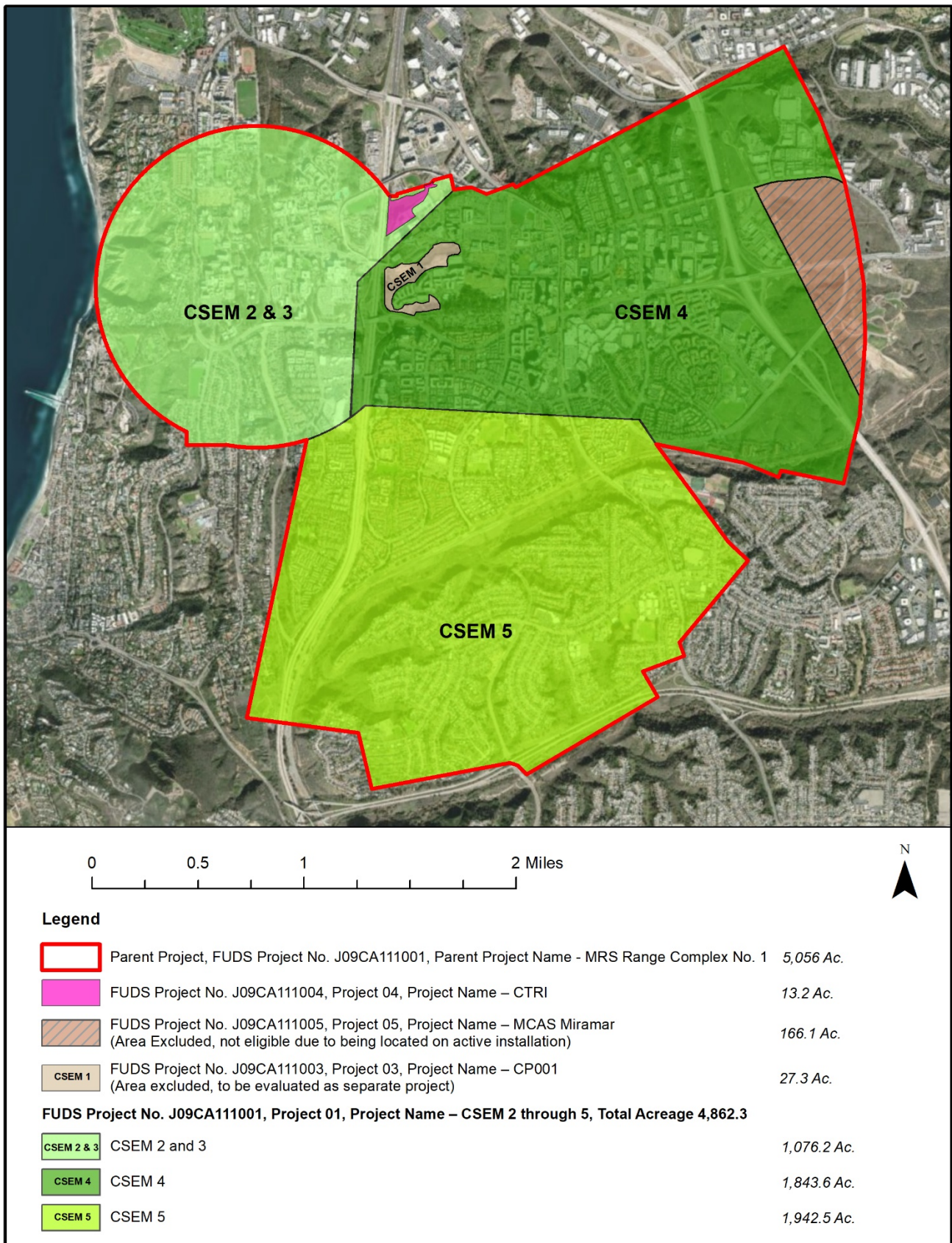
In 1918, the U.S. Marine Corps established the rifle range that became Camp Matthews on land leased from the city of San Diego. The original 1918 lease covered nearly 3,873 acres (USACE, 2005a).

From 1918 to 1964, Camp Matthews was used by the U.S. Marine Corps as a gunnery range. Using troop labor, the Marines established an eight-target, 600-yard rifle range in a large ravine. In 1919, the U.S. Marine Corps also reportedly used the land for field instruction and as a campsite, and parade ground area. By 1924, the main rifle range had been enlarged to 15 targets. Various support buildings had been erected by this time, including a cookhouse, mess hall, police shed, armory, toilets, and a lavatory. Firing of unspecified howitzers occurred sometime in the 1930s. The installation also possessed other larger caliber weapons during this same timeframe, including 37 millimeter (mm) guns, 5-inch guns, 3-Pounder guns, and Stokes mortars, but the firing of these weapons has not been confirmed. By 1949, Camp Matthews had grown to include 15 active gunnery ranges, in addition to a number of non-firing school ranges. The active gunnery ranges were reportedly used for firing small arms and rifles, machine guns, 60mm mortars, and 2.36- and 3.5-inch practice rockets, as well as for throwing hand grenades (USACE, 2007).

In 1962, Congress passed legislation directing the U.S. Navy to convey the Camp Matthews property to UCSD once it was determined to be available. In 1964, all training ceased at Camp Matthews and the property was transferred to UCSD (USACE, 2007).

In 2005, Camp Matthews was declared a **FUDS** by the Department of Defense.

**Figure 3: UCSD (Camp Matthews) Range
Complex No. 1 CSEM Groups and
Delineations**



PREVIOUS INVESTIGATIONS

USACE has completed a series of studies, following the **CERCLA** process, at the site as identified below. This list summarizes only those investigations which included investigation of the property within the boundaries of UCSD (Camp Matthews) Range Complex No. 1.

- 1988 Camp Matthews Site, Site-wide Visit (USACE, 1988).
- 1999 Inventory Project Report (INPR) Supplement (USACE, 1999).
- 2004 Archives Search Report (ASR) Supplement (USACE, 2004).
- 2005 INPR and Supplements/2005 Preliminary Assessment (USACE, 2005a; USACE, 2005b).
- 2006 Site-Specific Final Report MEC Construction Safety Support (USACE, 2006).
- 2007 **Site Inspection** (USACE, 2007).
- 2009 Camp Callan **Site Inspection** (USACE, 2010).
- 2013 Treatability Study/Technology Demonstration Project (USACE, 2013).
- 2013-2018 **Candidate Property** Determination and Historical Aerial Photography Review (USACE, 2019b, Appendix P).
- 2018 RI Fieldwork (USACE, 2018 and 2019b).

Additional information regarding the previous investigations is provided in the **RI** Report (USACE, 2019b) and the **Administrative Record** file.

REMEDIAL INVESTIGATION

The purpose of an **RI** is to locate the boundaries and amount of contamination that may be present at a site, evaluate pathways for exposure, and to determine if it presents an unacceptable risk.

This is known as characterizing the nature and extent of contamination. In the **RI** for UCSD (Camp Matthews) Range Complex No. 1, the contamination resulting from military use was evaluated. The **RI** summarized and evaluated the available data from the field investigation to make a recommendation regarding the potential explosive hazards and associated risks.

The Revised **CSEM** Summary for **MRS** Range Complex No. 1 (Table 5-14, **RI** Report [USACE, 2019b]) summarizes the key information obtained

during the **RI** that has been used to revise **CSEMs** for each portion of **MRS** Range Complex No. 1, including the known or suspected munitions, and whether potential exposure pathways are potentially complete or incomplete based on results of **MEC** and **MC** evaluations. The Exposure Pathway Diagrams for the revised **CSEMs** are included in Appendix C of the **RI** Report (USACE, 2019b).

All modified **CSEM Groups** for the investigated portion of the **MRS** Range Complex No. 1 were re-evaluated using **Unexploded Ordnance (UXO)** Estimator to ensure sufficient coverage was obtained during the **RI** field activities. The results of the **UXO** Estimator evaluation are summarized in Table 5-15 (**RI** Report, [USACE, 2019b]). The **Candidate Properties** investigated within the **MRS** represent a significant sample of the undeveloped land within the **MRS** (29% of total undeveloped land). Within the **MRS** overall, undeveloped land only accounts for approximately 11% of the total area of the **MRS** with the remaining 89% developed or in some stage of development.

The following sections present a summary of the **RI** results for the following **CSEM Groups**:

- **CSEM 2/3.**
- **CSEM 4.**
- **CSEM 5.**

CSEM 2/3 – MEC Analysis Summary - No items with an explosive hazard were found or reported in UCSD (Camp Matthews) Range Complex No. 1, **CSEM 2/3**, during the **RI**. The only military related items reported were a small quantity of **Munitions Debris (MD)** observed at **CP008** (8 **MD** items recovered within the portion of **CP008** that intersects the Former Camp Callan Grenade Court, see discussion in Section 5.2.1.7, **RI** Report [USACE, 2019b] for further analysis).

The investigated portion of the **CSEM 2/3** portion of **MRS** Range Complex No. 1 has an average estimated density of **MD** of 2.2 **MD** geophysical targets per acre.

No target areas or areas of sustained elevated **MD** density were produced from Visual Sample Plan (VSP) analysis. Histogram analysis showed one area that contained a curve similar to a target area but this is a very low threshold density and a contiguous size of less than 1 acre; therefore, no areas within the investigated portion of **CSEM 2/3**

meet the criteria for classification as a Concentrated Munitions Use Area (CMUA).

Based on these findings, no CMUA area is identified. The lines of evidence that support this conclusion include:

- No **UXO** items recovered during **RI**.
- No **MD** found across all **Candidate Properties** excluding the very low **MD** density identified at **CP008**.
- Transect pattern analysis shows high probability of the traversal of target areas in the surveyed areas.
- Blind detection of Camp Callan grenade court indicates high confidence in the ability to detect a target area.
- UCSD has a pre-construction 3Rs Military Munitions Awareness program/training and has a reporting chain of command if a **UXO** item is identified.
- No historical findings of **UXO** or **MD** associated with the truck explosion area.

Based on these observations, the investigated portion of the **CSEM 2/3** portion of **MRS** Range Complex No. 1 was classified as Non-CMUA (NCMUA) for **UXO** Estimator analysis.

UXO Estimator was used to analyze survey result data for the investigated portions of the **CSEM** at 0.5 **UXO** per acre as the target density; the target density used when developing the transect pattern against the total delineated acreage of the **CSEM Group**. Because no CMUA areas were identified within the investigated areas, it is assumed that any **UXO** present would be randomly distributed within the NCMUA. The transects walked in the **CSEM 2/3** portion of **MRS** Range Complex No. 1 were not biased towards any range or impact area.

This investigated portion of the **CSEM Group** has 2.2 **MD** per acre average density confined within **CP008** and although evaluated at a 0.5 **UXO** per acre design, it exceeds 0.1 **UXO** per acre statistics.

Based on the analyses and the other lines of evidence produced in the **RI**, no unacceptable **MEC** hazards are expected for current or anticipated future receptors at UCSD (Camp Matthews) Range Complex No. 1, **CSEM 2/3**.

The developed areas of **MRS** Range Complex No. 1 **CSEM 2/3** have an acceptable level of risk associated with exposure to explosive hazards based on the following lines of evidence:

- UCSD has a pre-construction 3Rs Military Munitions Awareness program/training and has a reporting chain of command if a **UXO** item is identified.
- No historical findings of **UXO** or **MD** associated with the truck explosion area (i.e., an ammunitions truck explosion occurred in 1945 within the current boundary of UCSD [Camp Matthews]).
- All other known historical ranges in this area are not associated with High Explosives.
- Development within the **MRS** (i.e., development, expansion, and maintenance of roads, structures, and utilities) that represent potentially millions of contact hours on the surface and subsurface with no reports of contact or finds of **UXO**.
- Approximately 93.4% of the **CSEM 2/3** portion of the **MRS** has been developed with negative **UXO** results (based on historical documentation and verification with the San Diego County Sheriff's Bomb/Arson Unit, the San Diego Fire-Rescue Department Metro Arson Strike Team, and the San Diego Police Department Northern Division).

CSEM 2/3 – MC Analysis Summary – No **MEC** was recovered, no high density **MD** areas were observed, and no evidence of clay targets was found during the geophysical surveys, visual surveys, and intrusive investigation. Therefore, per the Final Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) (USACE, 2018), no soil sampling was conducted within **CSEM 2/3**.

CSEM 4 – MEC Analysis Summary - No items with an explosive hazard were found or reported in UCSD (Camp Matthews) Range Complex No. 1, **CSEM 4**, during the **RI**. No **MD** items were recovered during **RI** field operations.

The investigated portion of the **CSEM 4** portion of **MRS** Range Complex No. 1 has an average estimated density of **MD** of 0 **MD** per acre.

No target areas or areas of sustained elevated **MD** density were produced from VSP analysis. Histogram analysis showed no areas that were significantly different from background. Therefore, no areas within the investigated portion of **CSEM 4** meet the criteria for classification as a CMUA.

Based on these findings, no CMUA area is identified within the investigated portions. The

lines of evidence that support this conclusion include:

- No **UXO** items recovered during **RI**.
- No **MD** items recovered during **RI**.
- Transect pattern analysis shows high probability of the traversal of target areas in the surveyed areas.
- Majority of **CSEM 4** is downrange and within the safety fan of the impact area which was located in the approximate location of **CP001**.
- UCSD has a pre-construction 3Rs Military Munitions Awareness program/training and has a reporting chain of command if a **UXO** item is identified.

Based on these observations, the investigated portion of the **CSEM 4** portion of **MRS** Range Complex No. 1 was classified as NCMUA for **UXO** Estimator analysis.

UXO Estimator was used to analyze survey result data at 0.5 **UXO** per acre as the target density; the target density used when developing the transect pattern against the total delineated acreage of the **CSEM Group**. Because no CMUA areas were identified within the investigated areas, it is assumed that any **UXO** present would be randomly distributed within the NCMUA. The transects walked in the **CSEM 4** were not biased towards any range or impact area.

Based on the analyses and the other lines of evidence produced in the **RI**, no unacceptable **MEC** hazards are expected for current or anticipated future receptors at UCSD (Camp Matthews) Range Complex No. 1, **CSEM 4**.

The developed areas of **MRS** Range Complex No. 1 **CSEM 4** have an acceptable level of risk associated with exposure to explosive hazards based on the following lines of evidence:

- UCSD has a pre-construction 3Rs Military Munitions Awareness program/training and has a reporting chain of command if a **UXO** item is identified.
- Development within the **MRS** (i.e., development, expansion, and maintenance of roads, structures, and utilities) that represent potentially millions of contact hours on the surface and subsurface with no reports of contact or finds of **UXO**.
- Approximately 89% of the **CSEM 4** portion of the **MRS** has been developed with negative **UXO** results (based on historical documentation and verification with the San

Diego County Sheriff's Bomb/Arson Unit, the San Diego Fire-Rescue Department Metro Arson Strike Team, and the San Diego Police Department Northern Division).

- Majority of **CSEM 4** uninvestigated portion is outside the known historical impact areas but still within the downrange safety fan.

CSEM 4 – MC Analysis Summary – No **MEC** was recovered, no high density **MD** areas were observed, and no evidence of clay targets was found during the geophysical surveys, visual surveys, and intrusive investigation. Therefore, per the Final UFP-QAPP, no soil sampling was conducted within **CSEM 4**.

CSEM 5 – MEC Analysis Summary - No items with an explosive hazard were found or reported in UCSD (Camp Matthews) Range Complex No. 1, **CSEM 5**, during the **RI**. No **MD** items were recovered during **RI** field operations.

The investigated portion of the **CSEM 5** portion of **MRS** Range Complex No. 1 has an average estimated density of **MD** of 0 **MD** per acre.

No area above 0 **MD** per acre density was produced from VSP analysis. Histogram analysis showed no areas that were significantly different from background of 0 **MD** per acre. Therefore, no areas within the **CSEM 5** portion of **MRS** Range Complex No. 1 meet the criteria for classification as a CMUA.

Based on these findings no CMUA area is identified. The lines of evidence that support this conclusion include:

- No **UXO** items recovered during **RI**.
- No **MD** items recovered during **RI**.
- **CSEM 5** is downrange from large impact berms and within the safety fan for known historic small arms ranges only.
- No small arms debris was identified.
- Transect pattern analysis shows high probability of the traversal of target areas in the surveyed areas.

Based on these observations, the investigated portion for the **CSEM** is classified as NCMUA for **UXO** Estimator analysis.

UXO Estimator was used to analyze survey result data at 0.5 **UXO** per acre as the target density; the target density used when developing the transect pattern against the total delineated acreage of the **CSEM Group**. Because no CMUA areas were identified within the investigated areas, it is

assumed that any **UXO** present would be randomly distributed within the NCMUA. The transects walked in the **CSEM 5** portion of **MRS** Range Complex No. 1 were not biased towards any range or impact area.

This **CSEM Group** has 0 **MD** per acre and although evaluated at a 0.5 **UXO** per acre design it exceeds 0.1 **UXO** per acre statistics.

Based on the analyses and the other lines of evidence produced in the **RI** (USACE, 2019b), no unacceptable **MEC** hazards are expected for current or anticipated future receptors at UCSD (Camp Matthews) Range Complex No. 1, **CSEM 5**.

The developed areas of **MRS** Range Complex No. 1 **CSEM 5** have an acceptable level of risk associated with exposure to explosive hazards based on the following lines of evidence:

- **CSEM 5** is downrange from large impact berms and within the safety fan for known historic small arms ranges only.
- Development within the **MRS** (i.e., development, expansion, and maintenance of roads, structures, and utilities) that represent potentially millions of contact hours on the surface and subsurface with no reports of contact or finds of **UXO**.
- Approximately 92.3% of the **CSEM 5** portion of the **MRS** has been developed with negative **UXO** results (based on historical documentation and verification with the San Diego County Sheriff's Bomb/Arson Unit, the San Diego Fire-Rescue Department Metro Arson Strike Team, and the San Diego Police Department Northern Division).

CSEM 5 – MC Analysis Summary – No **MEC** was recovered, no high density **MD** areas were observed, and no evidence of clay targets was found during the geophysical surveys, visual surveys, and intrusive investigation. Therefore, per the Final UFP-QAPP, no soil sampling was conducted within **CSEM 5**.

Conclusions and Recommendations – Based on the lines of evidence and evaluations presented above, no unacceptable **MEC** explosive hazards or **MC** risks (excluding **CSEM 1**) are expected for current or anticipated future receptors at UCSD (Camp Matthews) Range Complex No. 1. These conclusions and recommendations presented are based on information, previous investigation

finding, **RI** investigation findings, and the extensive urban development that has occurred on this **MRS** from 1965 to present. The risk management methodology used for the baseline **MEC** risk assessment incorporates these lines of evidence, and it recognizes the extensive urban development effectively eliminates the exposure pathway to any potential remaining **MEC**. The risk management methodology acknowledges the uncertainty associated in drawing these conclusions for the heavily developed urban area that now exists throughout this **MRS**. Based on this evaluation, no unacceptable **MEC** hazards or **MC** risks are expected for current or anticipated future receptors at UCSD (Camp Matthews) Range Complex No. 1. The **MRS** was not recommended for further evaluation in an **FS** and a No Action Decision was recommended under the **MMRP**.

Rationale for Exclusion of CSEM 1 - Based on the analyses and lines of evidence produced in the **RI**, (including the current baseline risk condition [Acceptable], per the Decision Logic to Assess Risks Associated with Explosive Hazards and to Develop Remedial Action Objectives for Munitions Response Sites [within the Risk Management Methodology]), no unacceptable **MEC** hazards are expected for current or anticipated future receptors at the **CSEM 1** portion of **MRS** Range Complex No. 1 and Remedial Action for Department of Defense Military Munitions is not required. Though the nature and extent of **MC** contamination was characterized within the **CP001** investigation area (**CSEM 1**) within the requirements of the signed Right-of-Entry (ROE) (including the following limitations: no vegetation clearance and limited work within wetland areas), the full extent of contamination related to the Small Arms Berms/Impact Areas was not established in the **RI**. The results of the human and ecological risk-based screening assessment for **CP001** indicate potentially unacceptable human and ecological risks. **CSEM 1** will be delineated separately from UCSD (Camp Matthews) Range Complex No. 1 and was not evaluated in this **Proposed Plan**. **CSEM 1** will be evaluated in a separate **FUDS RI/FS** project including a separate **RI/FS** Report, **Proposed Plan**, and **Decision Document**. The basis of this recommendation includes:

- The requirement to obtain additional ROEs upstream and downstream of **CSEM 1** to establish the extent of contamination.

- Concerns for conducting further sampling in ecologically sensitive habitat within **CSEM 1**, where freshwater forested/shrub wetland is a habitat for federally- and/or state-listed sensitive species.

USACE will develop a separate **MRS** Prioritization Protocol document for this new **FUDS** site and an updated completion schedule based on the current risks and hazards associated with the site, present and future land use, and available funding.

SITE CHARACTERISTICS

UCSD (Camp Matthews) Range Complex No. 1 is located in La Jolla, California, approximately 12 miles north of the city of San Diego. The site comprises 5,056 acres and is located in San Diego County. The site is heavily developed with small, undeveloped areas interspersed throughout. I-5 passes through the middle of the site, and I-805 intersects the site's eastern boundary. Parcel owners within UCSD (Camp Matthews) Range Complex No. 1 include federal and local governments, commercial entities, school districts, and private individuals (Figures 1 and 2).

CURRENT AND FUTURE LAND USE

The UCSD campus occupies a portion of UCSD (Camp Matthews) Range Complex No. 1. The campus includes educational and research facilities, residential housing, athletic fields, the UCSD School of Medicine and Medical Center, Science Research Park, Mesa Housing, Eleanor Roosevelt College, Matthews Quad, the Chancellor's Complex, and various parking lots and parking structures. Land use in the remainder of UCSD (Camp Matthews) Range Complex No. 1 includes private and public schools, residential housing, light industry, and a variety of retail and commercial development.

Small pockets of undeveloped land remain in UCSD (Camp Matthews) Range Complex No. 1 and are generally located on the slopes of and at the bottom of local canyons and ravines. Running, hiking, and biking trails run through portions of the undeveloped land.

It is anticipated that future land use in the undeveloped areas will remain the same, based on their determination as parks/open space and based on the steepness of the terrain. There is currently extensive construction related to the development of new campus facilities and related to the light rail train system.

CONTAMINATION SOURCES

No items with an explosive hazard were found in UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1. Because no significant source of munitions was found, there are no unacceptable risks to human health and the environment from **MC**.

CONTAMINATED MEDIA

Because no significant source of munitions was found, there is no evidence that soil or groundwater is contaminated in the **MRS**. No perennial surface water features are present.

SCOPE AND ROLE

If the No Action Decision recommendation is accepted, there would be no further action at UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 and USACE would pursue project closeout and seek regulatory concurrence.

SUMMARY OF SITE RISKS AND CONCLUSION

Based on the presented lines of evidence and evaluations presented above, no unacceptable **MEC** explosive hazards or **MC** risk (excluding **CSEM 1**) are expected for current or anticipated future receptors at UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1. These conclusions and recommendations presented are based on information, previous investigation finding, **RI** findings, and the extensive urban development that has occurred on this **MRS** from 1965 to present. The risk management methodology used for the baseline **MEC** risk assessment incorporates these lines of evidence, and it recognizes the extensive urban development effectively eliminates the exposure pathway to any potential remaining **MEC**. The risk management methodology acknowledges the uncertainty associated in drawing these conclusions for the heavily developed urban area that now exists throughout this **MRS**. The entire **MRS CSEM 2 through 5** portions of Range Complex No. 1 were not recommended for further evaluation in a **FS** and a No Action Decision is recommended under the **MMRP**. To complete the **Administrative Record** for this **MRS**, this **Proposed Plan** and a **Decision Document** are being prepared to document the closeout of the

MRS CSEM 2 through 5 portions of Range Complex No. 1.

REMEDIAL ACTION OBJECTIVES

Because a remedial action is not necessary for protection of human health or the environment at UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1, remedial action objectives were not developed as part of the **Proposed Plan**.

SUMMARY OF ALTERNATIVES

As UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 do not pose an unacceptable risk to human health or the environment, remedial action alternatives were not developed. Therefore, only the No Action alternative is presented in this **Proposed Plan**.

EVALUATION OF ALTERNATIVES

USACE has determined that no remedial action is warranted at UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1. Therefore, the only alternative presented is the No Action alternative.

PREFERRED ALTERNATIVE

Under the No Action remedial alternative, the current conditions at UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1 would remain unchanged, and nothing further would be done. The **RI** concluded that the site does not pose an unacceptable risk to human health or the environment. Therefore, no action would be taken.

If the No Action alternative is ultimately selected by USACE after consideration of all public comments received, no additional environmental investigation or remediation will be performed.

MMRP PROJECT DELINEATION

During a previous delineation process, the Clinical and Translational Research Institute (CTRI) Construction Site (13.2 acres) **FUDS** Project No. J09CA111004, Project 04 was delineated from **MRS** Range Complex No. 1. **MEC** is not historically associated with the CTRI portion of the **MRS**. Portions of the **MRS** have had soil remediation completed and remaining areas will

be addressed by UCSD. No additional **CERCLA** response actions are required.

Following the completion of the **RI** fieldwork, an additional delineation was necessary by USACE to adjust acreage based on **RI** findings, removal of acreage that is not eligible, and to adjust project names and create new **MRSs** from the original parent project **MRS** Range Complex No. 1. The following provides a summary of the Project Delineation (USACE, 2019a) which revised the property map and **MMRP** project/**MRS** maps for the revised original project and each new project resulting from delineation.

FUDS Project No. J09CA111001, Project 01 – Project Name **CSEM 2 through 5**: This **MRS** includes **CSEM 2/3** (1,076.2 acres), **CSEM 4** (1,843.6 acres), and **CSEM 5** (1,942.5 acres). The final acreage associated with this No Action remedial alternative **Proposed Plan** (excluding **CSEM 1**, U.S. Marine Corps Air Station [MCAS] Miramar, and CTRI) is 4,862.3 acres (Figure 3).

FUDS Project No. J09CA111003, Project 03 – Project Name **CP001**: The INPR Amendment delineates **CSEM 1** (27.3 acres) which was created to be a stand-alone **MRS** to be evaluated in a future **RI/FS** project.

FUDS Project No. J09CA111005 Project 05 – Project Name MCAS Miramar: The INPR Amendment prepared separates MCAS Miramar overlapping acreage (166.1 acres). The MCAS Miramar property is not eligible for the **FUDS** program and was not investigated during the **RI**.

COMMUNITY PARTICIPATION

USACE is requesting public comments on the **Preferred Alternative** presented in the **Proposed Plan** for UCSD (Camp Matthews) **MRS CSEM 2 through 5** at Range Complex No. 1. Notification of the **Proposed Plan** public comment period, schedule for the Public Meeting, and availability of the **Administrative Record** File were published in *The San Diego Union Tribune* and *The UCSD Guardian* (local newspapers) between February 23, 2020 and March 15, 2020. Written and verbal comments will be accepted at a **public meeting scheduled for 5:00 p.m. on March 10, 2020 at Hyatt House San Diego/Sorrento Mesa**. Written comments will also be accepted throughout the comment period which ends March 27, 2020.

The **Proposed Plan** is available in the San Diego Central Library throughout the comment period,

beginning February 24, 2020 through March 27, 2020. Comments received during the public meeting and comment period will be considered in the final decision.

This decision regarding the final Selected Remedy will be presented in a **Decision Document** signed by USACE. USACE responses to public comments will be documented in the “Responsiveness Summary” section of the **Decision Document**.

The **RI** Report (USACE, 2019b) provides a comprehensive description of the site history, the details of the **RI**, the associated hazard and risk assessments and their conclusions. All of the reports, including this **Proposed Plan**, and other project documents are available in the Information Repository as noted below.

Contact/General Information

For additional information about UCSD (Camp Matthews) Range Complex No. 1:

<https://www.spl.usace.army.mil/Missions/Formerly-Used-Defense-Sites/UCSD-Camp-Matthews-Range-Complex-No-1/>

USACE Project Personnel

Ms. Fran Firouzi
FUDS Project Manager
USACE, Los Angeles District
forough.firouzi@usace.army.mil
(213) 452-3165

Information Repository

Copies of the **RI** Report, and the **Administrative Record** file for this site can be found at the following location:

San Diego Central Library
330 Park Blvd.
San Diego, California 92101

REFERENCES

- USACE. 1988. Trip Report for Former Camp Matthews, La Jolla, California, Defense Environmental Restoration Program (DERP) No. J09CA111000. August.
- USACE. 1999. INPR, University of California at San Diego (Formerly Camp Matthews), La Jolla, CA, Site No. J09CA1110. 17 August.
- USACE. 2004. ASR Supplement, UCSD (Camp Matthews). Prepared by USACE – St. Louis District. November.
- USACE. 2005a. INPR, Camp Calvin B. Matthews, La Jolla, San Diego County, California, Project No. J09CA1110. Prepared by USACE – St. Louis District. August.
- USACE. 2005b. Preliminary Assessment, Camp Calvin B. Matthews, La Jolla, California, Project Number – J09CA111001. Prepared by USACE – St. Louis District. May.
- USACE. 2006. Site-Specific Final Report MEC Construction Safety Support, Former Camp Calvin B. Matthews, La Jolla, California. USACE – Los Angeles District. May.
- USACE. 2007. Final Site Inspection Report, Former Camp Calvin B. Matthews Site, La Jolla, California. September.
- USACE. 2010. Site Inspection Report, Camp Callan, San Diego, California. FUDS Project No. J09CA027203. June.
- USACE. 2013. Treatability Study/Technology Demonstration Project Completion Report, Former Camp Matthews, University of California, San Diego, CTRI Construction Site. May.
- USACE. 2018. UFP-QAPP, UCSD (Camp Matthews), Range Complex No. 1, FUDS MMRP Project No. J09CA111001. April.
- USACE. 2019a. DERP-FUDS INPR Amendment to Delineate FUDS Project Number J09CA111001 on UCSD (Camp Matthews), J09CA1110, San Diego, California. October.
- USACE. 2019b. RI Report, UCSD (Camp Matthews), Range Complex No. 1, FUDS MMRP Project No. J09CA111001. December.

GLOSSARY OF TERMS

Administrative Record – The documents that form the basis for the selection of a response action compiled and maintained by the lead agency (40 CFR 800).

Comprehensive Environmental Response, Compensation, and Liability Act (otherwise known as Superfund) – of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (40 CFR 300).

Candidate Property – Because of the extensive development within the MRS, USACE performed additional research to determine the areas (i.e., Candidate Properties) that were most likely to have been affected by military munitions use and the areas in which it was feasible to conduct RI field activities.

Conceptual Site Exposure Model Group – Candidate Properties were grouped together based on historical use (e.g., impact berm/area, safety fan, truck explosion area, etc.), munitions used (e.g., small arms, hand grenades, and/or large caliber), potential for encountering MEC and/or MC, and potential for human and ecological exposure. As a result, five separate preliminary CSEMs describing the potential exposure pathways were developed.

Decision Document – The documentation of remedial response decisions at Formerly Used Defense Sites. Concurrence on the Decision Document by U.S. Environmental Protection Agency or the state regulatory agency is sought and the Army approves the document.

Feasibility Study – A study undertaken by the lead agency to develop and evaluate options for remedial action. The RI data are used to define the objectives of the response action, to develop remedial action alternatives, and to undertake an initial screening and detailed analysis of the alternatives. The term also refers to a report that describes the results of the study (40 CFR 300).

Formerly Used Defense Site – A facility or site which was under the jurisdiction of the Secretary of Defense and owned by, leased to, or otherwise possessed by the United States at the time of actions leading to contamination by hazardous substances, for which the Secretary of Defense shall carry out all response actions with respect to releases of hazardous substance from that facility or site. The FUDS program is limited to those real properties that were transferred from Department

of Defense control prior to October 17, 1986 (10 USC 2701).

Military Munitions Response Program – designed to address the remediation of unexploded ordnance, discarded military munitions, and munitions constituents located on defense sites.

Munitions Constituents – Any materials originating from unexploded ordnance, discarded military munitions, or other military munitions, including explosive and non-explosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions (10 USC 2710(e)(3)).

Munitions Debris – Remnants of munitions (e.g., fragments, penetrators, projectiles, shell casings, links, fins) remaining after munitions use, demilitarization, or disposal.

Munitions and Explosives of Concern – Specific categories of military munitions that may pose unique explosives safety risks, specifically composed of (a) unexploded ordnance, (b) discarded military munitions, or (c) munitions constituents (e.g., TNT, RDX) present in high enough concentrations to pose an explosive hazard (Interim Guidance Document 14-01, Engineer Manual 200-1-15).

Munitions Response Site – A discrete location that is known to require a munitions response.

Preferred Alternative – The alternative that USACE feels is the best way to address past military impacts to a site.

Proposed Plan – A plan that identifies the preferred remedial alternative for a site and is made available to the public for comment.

Remedial Investigation – A process undertaken by the lead agency to determine the nature and extent of the problem presented by the release. The RI emphasizes data collection and site characterization, and is generally performed concurrently and in an interactive fashion with the feasibility study. The RI includes sampling and monitoring, as necessary, and includes the gathering of sufficient information to determine the necessity for remedial action and to support the evaluation of remedial alternatives (40 CFR 300).

Site Inspection – An on-site investigation to determine whether there is a release or potential release and the nature of the associated threats. The purpose is to augment the data collected in the preliminary assessment and to generate, if necessary, sampling and other field data to

determine if further action or investigation is appropriate (40 CFR 300).

Unexploded Ordnance – Military munitions that: (a) have been primed, fuzed, armed, or otherwise prepared for action; (b) have been fired, dropped, launched, projected, or placed in such a manner

as to constitute a hazard to operations, installations, personnel, or material; and (c) remain unexploded either by malfunction, design, or any other cause (USC §101(e)(5) (A) through (C)).

ACRONYMS AND ABBREVIATIONS

Ac.	acre	MCAS	Marine Corps Air Station
ASR	Archives Search Report	MC	Munitions Constituents
Blvd.	Boulevard	MD	Munitions Debris
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	MEC	Munitions and Explosives of Concern
CFR	Code of Federal Regulations	mm	millimeter
CMUA	Concentrated Munitions Use Area	MMRP	Military Munitions Response Program
CP	Candidate Property	MRS	Munitions Response Site
CSEM	Conceptual Site Exposure Model	NCMUA	Non-Concentrated Munitions Use Area
CTRI	Clinical and Translational Research Institute	RI	Remedial Investigation
DERP	Defense Environmental Restoration Program	ROE	Right-of-Entry
DTSC	California Department of Toxic Substances Control	UCSD	University of California at San Diego
FS	Feasibility Study	UFP-QAPP	Uniform Federal Policy Quality Assurance Project Plan
FUDS	Formerly Used Defense Site	USACE	United States Army Corps of Engineers
I	Interstate	USC	United States Code
INPR	Inventory Project Report	UXO	Unexploded Ordnance
		VSP	Visual Sample Plan



Follow the 3Rs of Explosives Safety:

- **Recognize:**
when you may have encountered a munition and that munitions are dangerous.
- **Retreat:**
do not approach, touch, move or disturb it, but carefully leave the area.
- **Report:**
call 911 and advise the police of what you saw and where you saw it.

USE THIS SPACE TO WRITE YOUR COMMENTS

Your input on the **Proposed Plan** for **UCSD (Camp Matthews) MRS CSEM 2 through 5** at Range Complex No. 1 is important to the United States Army Corps of Engineers. Comments provided by the public are valuable in helping the United States Army Corps of Engineers select final remedial alternatives for the site.

You may use the space below to write your comments, then fold and mail. Comments must be postmarked by March 27, 2020. If you have any questions about the comment period, please contact Ms. Fran Firouzi by phone at (213) 452-3165 or by email at forough.firouzi@usace.army.mil.

[illegible]

Name: _____

Address: _____

City: _____

State: _____ **Zip:** _____

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PLACE
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The Post Office
will not deliver
mail without
postage.

Ms. Fran Firouzi
United States Army Corps of Engineers
Los Angeles District
915 Wilshire Blvd., Suite 930
Los Angeles, California 90017-3401