



CLOSED CASTNER RANGE UPDATE - OCTOBER 2015

Army Environmental Command (AEC) is overseeing the work being conducted under the Military Munitions Response Program (MMRP) at the Closed Castner Range. This update is intended to keep stakeholders and the general public informed of the status of the MMRP project for this site. Closed Castner Range is presently in the Remedial Investigation phase (RI). AEC is working on obtaining approval for the Explosives Site Plan (ESP) in order to proceed with the next phase of the MMRP.

ENVIRONMENTAL SAMPLING

The RI field activities are intended to determine the nature and extent of present Unexploded Ordnance (UXO), Munitions and Explosives of Concern (MEC) and Mmunition Constituents (MC). Field data collected as part of this RI effort will be used to complete the RI report and support human health and ecological risk



Fig1. Surface soil sampling on areas of suspected high MC concentration.

Sampling at Closed Castner Range will be conducted using a three-phased approach.

Phase I will include collection of surface soil and sediment samples (0-2-inch deep) within areas of mapped munitions concentration. Water samples will be collected if surface water is observed. The number and distribution of samples is reviewed by the Texas Commission on Environmental Quality (TCEQ) prior to beginning field work.

The results of Phase I sampling will be compared to contaminant Protective Concentration Levels (PCL's) previously established by the TCEQ.



Fig 2. Subsurface soil sampling.

Phase II samples will be collected around munition-suspected areas and of PCL exceedances to complete munitions constituents (MC) delineation. This phase also includes subsurface sampling and soil borings at different depths to determine MC vertical delineation (MC depth).



Fig3. Soil samples packaging before shipping to laboratory for contaminants analysis.

If it is determined that there is a potential soil-to-groundwater pathway, **Phase III** will be conducted. Phase III may include the installation of monitoring wells and collection of groundwater samples (if groundwater is present).

After samples have been collected and shipped to a laboratory, the analytical requirements for MC should be based on the anticipated MEC composition, if known. If unknown, some assumptions may be made regarding typical composition to establish the analytical methods (i.e. explosives, perchlorate, and metals tests). The contractor should submit the complete data after the laboratory analyses. After Closed Castner Range sampling and analysis are completed, all data will be carefully interpreted to ensure data quality objectives were met and it will be incorporated into the RI. Finally, the RI conclusions will be used to evaluate potential site remedial actions through a Feasibility Study (FS).

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