



FINAL PRELIMINARY ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES

**U.S. Army Garrison-Hawaii Sub-installations
Dillingham Military Reservation, Kahuku Training Area,
Kipapa Ammunition Storage Site, Kunia Field Station,
Makua Military Reservation, and
Waikakalaua Ammunition Storage Tunnels**

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5 SUMMARY AND DISCUSSION OF PA RESULTS

The areas evaluated for potential use, storage, and/or disposal of PFAS-containing materials at USAG-HI Sub-installations DMR, KTA, KASS, KFS, MMR, and WAST, were further refined during the PA process and identified either as an area not retained for further investigation or as an AOPI. In accordance with the established process for the PA, no areas have been identified as AOPIs. The process used for refining these areas is presented on **Figure 5-1-1**, below.

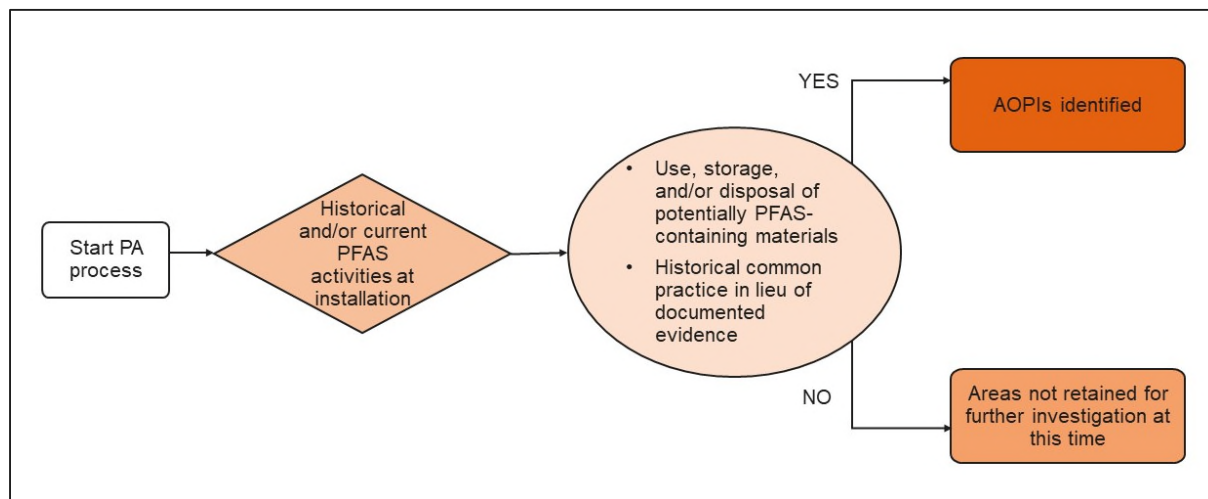


Figure 5-1-1: AOPI Decision Flowchart

The areas not retained for further investigation are presented in Section 5.1.

Data limitations for this PA at USAG-HI Sub-installations DMR, KTA, KASS, KFS, MMR, and WAST are presented in Section 6.

5.1 Areas Not Retained for Further Investigation

Through the evaluation of information obtained during records review, personnel interviews, and/or site reconnaissance, the areas described below were categorized as areas not retained for further investigation at this time.

A brief site history and rationale for areas not retained for further investigation is presented in **Table 5-1-1**, below.

6 CONCLUSIONS AND RECOMMENDATIONS

The PFAS PA evaluated possible AOPIs at USAG-HI Sub-installations DMR, KTA, KASS, KFS, MMR, and WAST based on the use, storage, and/or disposal of PFAS-containing materials, in accordance with the 2018 Army Guidance for Addressing Releases of Per-and Polyfluoroalkyl Substances (Army 2018).

A combination of document review, internet searches, interviews with installation personnel, and installation site visits (where applicable) were used to identify specific areas of suspected PFOS, PFOA, and PFBS use, storage, and/or disposal at USAG-HI Sub-installations DMR, KTA, KASS, KFS, MMR, and WAST. Following the evaluation, no AOPIs were identified.

Data collected during the PA (Sections 3 through 5) were sufficient to draw conclusions and recommendations summarized above. The data limitations relevant to the development of this PA for PFOS, PFOA, and PFBS at USAG-HI Sub-installations DMR, KTA, KASS, KFS, MMR, and WAST are discussed below.

Records gathered for the use, storage, and/or disposal of PFAS-containing materials were reviewed during the PA process. Documentation specific to AFFF may have been limited (e.g., each AFFF use, procurement records, documentation of AFFF used during crash responses or fire training activities) due to lack of recordkeeping requirements for the full timeline of common AFFF practices. Anecdotal accounts of AFFF use (and therefore likely PFOS, PFOA, and PFBS use) were limited to available installation personnel, whose knowledge of AFFF use may have been restricted by their time spent at the installation or previous roles held that limited their relevant knowledge of potential AFFF (or other PFAS-containing material) use. Identification of potential off-post PFAS sources was limited to readily available sources; therefore, there may be additional potential PFAS source facilities in surrounding areas than those identified in this report.

A comprehensive well survey was not completed as part of this PA; therefore, the information reviewed regarding off-post wells is limited to what is contained in the off-post well search results (**Appendix E**).

The searches for ecological receptors and off-post PFOS, PFOA, and PFBS sources were not exhaustive and were limited to easily identifiable and readily available information evaluated during the relevant documents research, installation personnel interviews, and site reconnaissance.

Further investigation of PFAS is not recommended at USAG-HI Sub-installations DMR, KTA, KASS, KFS, MMR, and WAST at this time.