



**No Further Action Report
Parcel K-1-2 Lead Based Paint Site CDA045
ADEQ VRP Site Code: 512883-00**

Former Williams Air Force Base, Mesa, AZ

November 2018

**Air Force Civil Engineering Center/Installations Directorate
BRAC Program Management Division
(AFCEC/CI)**

No Further Action Report for Williams AFB Lead-Based Paint Site CDA045
ADEQ VRP Site Code: 512883-00

This No Further Action (NFA) Report is submitted for Williams AFB Lead-Based Paint (LBP) Site CDA045, Parcel K-1-2, located at 6045 S. Sagewood at Unity Avenue, Mesa, Arizona. The Arizona Department of Environmental Quality (ADEQ) Voluntary Remediation Program (VRP) Site Code is 512883-00.

The Air Force Civil Engineer Center (AFCEC) submitted the *Report of Characterization and Removal of Soil Contaminated with Lead Based Paint, Williams AFB Lead Paint Site CDA045, Parcel K-1-2* (Amec Foster Wheeler Infrastructure & Environment, July 2018), to the ADEQ under the Voluntary VRP. In response, ADEQ issued a letter dated August 2, 2018 (**Attachment 1**), indicating the VRP was satisfied with the assessment and remediation activities completed by AFCEC for LBP-impacted soil at CDA045. ADEQ observed AFCEC has completed site characterization and remediation activities and may proceed with a request for NFA in an NFA Report.

This NFA Report provides information specified by items 1 through 6 in ADEQ's August 2, 2018 letter to support a request for NFA determination at Williams AFB LBP Site CDA045 (VRP Site Code 512883-00).

Item 1. A summary that adequately addresses the seven requirements listed in Arizona Revised Statutes (A.R.S.) § 49-181(A). All seven requirements must be addressed in writing. If a component is not applicable to the Site, state "not applicable" for that statutory requirement.

Each of the seven requirements of A.R.S. § 49-181(A) is restated below and followed by information addressing the requirement or indicating the requirement is "not applicable" to Williams AFB Lead-Based Paint Site CDA045 (ADEQ VRP Site Code 512883-00).

§ 49-181(A) 1. A description of the specific contaminants for which a no further action determination is being sought.

Specific contaminant – The specific contaminant for which a no further action determination is being sought is lead. Lead in soil at CDA045 was associated with LBP from facilities and historical maintenance activities at the Property.

§ 49-181(A) 2. A description of the actions taken to achieve remediation levels or controls determined in accordance with § 49-175, subsection B.

Excavation of LBP-impacted soil was performed to achieve the ADEQ residential Soil Remediation Level (SRL) of 400 milligrams per kilogram (mg/kg) for lead, which is the remediation level determined in accordance with A.R.S. § 49-175, subsection B.

Site CDA045 consists of the portion of Williams Parcel K-1-2 where soil had been impacted by LBP from facilities and historical maintenance activities. The site was remediated under

the VRP following the approved work plan (*Removal of Soil Contaminated with Lead-Based Paint Work Plan, Compliance Site CDA045, Parcel K-1-2*, Amec Foster Wheeler Environment & Infrastructure, October 2017) as described in the final remediation report (*Report of Characterization and Removal of Soil Contaminated with Lead-Based Paint, Compliance Site CDA045, Parcel K-1-2*, Amec Foster Wheeler Environment & Infrastructure, July 2018). A brief description of the final remediation report and actions taken to achieve remediation levels is provided below.

Lead was the only contaminant of concern related to Site CDA045. The soil was gridded, sampled for lead, and excavated as necessary to remove all cover material and soil where sample results indicated lead contamination exceeded the SRL of 400 mg/kg. Excavation was done in approximately 6-inch lifts for each grid cell until sampling confirmed remaining lead was below the SRL; the deepest excavation was to 18 inches and the total soil excavated was 650 bank cubic yards, including cover material.

Excavated soil containing lead was characterized for disposal (including lead and 7 other metals: As – Arsenic, Ba – Barium, Cd – Cadmium, Cr – Chromium, Hg – Mercury, Se – Selenium, Au – Silver), and determined to be non-hazardous. The soil (725.57 tons) was disposed of at the Waste Management, Inc. (WMI) Butterfield Station Landfill which is permitted for disposal of solid/special waste. No treatment systems were used for the excavated soil. The excavation was backfilled with certified clean soil. The site work was conducted in accordance with a Maricopa County Dust Control Permit, a copy of which is in Appendix B of the report. This was the only permit required for the work.

Confirmation sampling of sidewalls and floor of the excavation documented that remediation levels were met. No institutional or engineering controls are required for lead at CDA045, and no post-remediation monitoring is required for lead at CDA045.

§ 49-181(A) 3. A description of any soil, water, or soil and water treatment systems used as part of the remediation.

Not applicable.

§ 49-181(A) 4. Whenever institutional or engineering controls are placed on the site:

(a) A demonstration that any engineering control or combination of engineering controls has been constructed, is functioning, and will be maintained.

Engineering controls are not applicable.

(b) A description of the proposed land use for the site and a demonstration that the use will not compromise the integrity of the engineering controls and will be in accordance with any institutional controls.

Engineering and institutional controls are not applicable to the specific contaminant.

§ 49-181(A) 5. If postremediation monitoring is proposed, a description of the type of monitoring, monitoring locations, contaminants to be monitored, monitoring frequency and sampling procedures.

Not applicable.

§ 49-181(A) 6. A description of community involvement activities undertaken to meet the requirements of A.R.S. § 49-176.

Community involvement activities were undertaken in accordance with A.R.S. 49-176 (A) 2 for remediation where the remediation levels and controls are established in accordance with section 49-175, subsection B; remediation required less than 180 days to complete; and a navigable waterway or aquifer is not impacted. Activities prior to and during remediation consisted of coordinating with Arizona State University, the licensee on the subject property and owner of the surrounding property; and posting notices on the fencing surrounding the project site providing contact information for ADEQ, the Air Force, and the Air Force contractor, and the following information:

**THE AIR FORCE CIVIL ENGINEER CENTER WILL BE CONDUCTING
SOIL REMEDIATION TO REMOVE LEAD CONTAMINATED SOIL**

This work will be performed under the Arizona Department of Environmental Quality Voluntary Remediation Program ADEQ VRP Site Code: 512883-00.

Based on satisfying ADEQ VRP assessment and remediation requirements, and in accordance with A.R.S. 49-176 (B), a public notice will be published announcing the request for NFA determination, availability of the *Report of Characterization and Removal of Soil Contaminated with Lead-Based Paint, Compliance Site CDA045, Parcel K-1-2*, and the opportunity for public comment. The public notice will be published in the East Valley Tribune, Mesa, Arizona. (The draft public notice is addressed in Item 6, below, and provided in **Attachment 4**.)

§ 49-181(A) 7. A list of permits under this title obtained for the remedial action or held by the applicant pertaining to the site.

Not applicable, the applicant holds no Title 49 permits pertaining to the site.

Item 2. A general site location map underlain by a topographic base layer.

A general site location map underlain by a topographic base layer is provided in **Attachment 2**.

Item 3. A scaled map of the NFA boundary area (clearly defined and labeled). The NFA will only be applicable for the areas of the Site for which the characterization was completed. In a separate map, AFCEC may include the NFA boundary with labeling that illustrates the supporting characterization data for any area included in the NFA.

A scaled map of the NFA boundary area (clearly defined and labeled) is provided in **Attachment 3**. The NFA boundary is for the site area for which characterization was completed as presented in *Report of Characterization and Removal of Soil Contaminated with Lead Based Paint, Williams AFB Lead Paint Site CDA045, Parcel K-1-2*, July 2018.

Item 4. A digital NFA boundary map. Instructions for preparing the digital submittal are located on the ADEQ VRP website.

The digital NFA boundary map, prepared using Google Earth, was emailed to the VRP Project Manager with the NFA Report and request for NFA.

Item 5. A list of the contaminants for which the NFA is sought. Only contaminants for which characterization has been completed may be included.

List of Contaminants for which NFA is sought

Lead – Lead in soil associated with LBP from facilities and historical maintenance activities at the Property. Completion of characterization is documented in *Report of Characterization and Removal of Soil Contaminated with Lead Based Paint, Williams AFB Lead Paint Site CDA045, Parcel K-1-2*, July 2018.

Item 6. A draft NFA Public Notice and the name of the newspaper where the notice will be published.

The Draft NFA Public Notice is provided in **Attachment 4**. The Public Notice will be published in the East Valley Tribune, Mesa, Arizona.

Attachments:

Attachment 1 – ADEQ letter dated August 2, 2018 regarding *Report of Characterization and Removal of Soil Contaminated with Lead Based Paint, Williams AFB Lead Paint Site CDA045, Parcel K-1-2*, July 2018

Attachment 2 – General Site Location map with Topographic Base Layer

Attachment 3 – Scaled Map of NFA Boundary Area

Attachment 4 – Draft Public Notice

ATTACHMENT 1

ADEQ Letter dated August 2, 2018 regarding *Report of Characterization and Removal of Soil Contaminated with Lead Based Paint, Williams AFB Lead Paint Site CDA045, Parcel K-1-2*, July 2018



Douglas A. Ducey
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Misael Cabrera
Director

Via U.S. Mail

August 2, 2018
VRP 19-013

Air Force Civil Engineer Center
Attn: Ms. Catherine Jerrard
706 Hangar Road
Rome, NY 13441

Re: *Report of Characterization and Removal of Soil Contaminated with Lead-Based Paint*
Williams AFB Lead Paint Site CDA045, Parcel K-1-2
6045 S. Sagewood at Unity Ave.0
Mesa, Arizona 85212
Site Code: 512883-00

Dear Ms. Jerrard:

The Arizona Department of Environmental Quality Voluntary Remediation Program (VRP) has reviewed the *Report of Characterization and Removal of Soil Contaminated with Lead-Based Paint* (the Report) for Williams Air Force Base Lead Paint Site CDA045, Parcel K-1-2 (the Site), prepared by Amec Foster Wheeler Environment & Infrastructure (Amec) on behalf of Department of the Air Force - Air Force Civil Engineer Center (AFCEC), dated July 12, 2018. The Report was prepared to detail the activities associated with the field work completed at the Site to characterize, remediate, and dispose of lead-impacted soil from under and around two former aboveground water storage tanks (AWSTs) and the associated AWSTs footprints.

General Comments

The VRP is satisfied with the assessment and remediation activities completed by AFCEC, and has the following observations:

1. AFCEC has adequately addressed lead-based paint (LBP) impacted soil by excavating and disposing of 725.57 tons of LBP impacted soil and decorative rock.
2. AFCEC characterized all remaining soil both laterally and vertically to below the residential Soil Remediation Level SRL of 400 milligrams per kilogram (mg/kg) for lead.
3. AFCEC calculated a site-specific Groundwater Protection Level (GPL) of 12,903 mg/kg for lead, based on site-specific leaching data. However, concentrations remaining in soil are below the published default GPL of 290 mg/kg in 170 data points (56 laboratory samples and 114 x-ray fluorescence samples), which is 98% of the confirmation samples collected. Only 2% of the samples are above the default GPL, but all five of these samples are well below the site-specific GPL, with concentrations ranging from 304 mg/kg to 390 mg/kg.

Based on these observations, AFCEC has completed site characterization and remediation activities and may proceed with preparing and submitting a request for no further action (NFA) in an NFA Report.

Main Office

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(602) 771-2300

Southern Regional Office

400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

www.azdeq.gov

printed on recycled paper

How to Proceed

AFCEC should submit the following information in an NFA Report:

1. A summary that adequately addresses the seven requirements listed in Arizona Revised Statutes (A.R.S.) § 49-181(A). All seven requirements must be addressed in writing. If a component is not applicable to the Site, state "not applicable" for that statutory requirement.
2. A general site location map underlain by a topographic base layer.
3. A scaled map of the NFA boundary area (**clearly defined and labeled**). The NFA will only be applicable for the areas of the Site for which the characterization was completed. In a separate map, AFCEC may include the NFA boundary with labeling that illustrates the supporting characterization data for any area included in the NFA.
4. A digital NFA boundary map. Instructions for preparing the digital submittal are located on the ADEQ VRP website.
5. A list of the contaminants for which the NFA is sought. Only contaminants for which characterization has been completed may be included.
6. A draft NFA Public Notice and the name of the newspaper where the notice will be published.

Upon receipt of the NFA Report:

- The VRP will review the NFA Report pursuant to A.R.S 49-181(B).
- The VRP will review the draft NFA Public Notice and will either provide comment or approval for publication.
- Once the draft NFA Public Notice has been approved by the VRP, it must appear for at least one day in a daily local newspaper of general circulation, or for two days in weekly newspaper of general circulation. The public will have 30 days to provide written comments to AFCEC and/or ADEQ. The VRP must be notified of the day(s) of publication, and must be provided with an Affidavit of Publication.
- Upon completion of the 30-day public comment period, the Volunteer must provide the VRP with a *Public Comment Notification Letter* and the original, copy of a signed *Certification for No Further Action Form* (located on the ADEQ VRP website). The certification form must be signed by the Volunteer of Record (Catherine Jerrard).
- Once all of the required documentation is received by the VRP, the documents will be reviewed and if no modifications are required, the VRP will issue an NFA for the investigated soils.

If AFCEC has any questions or concerns, please feel free to contact me at (602) 771-4818.

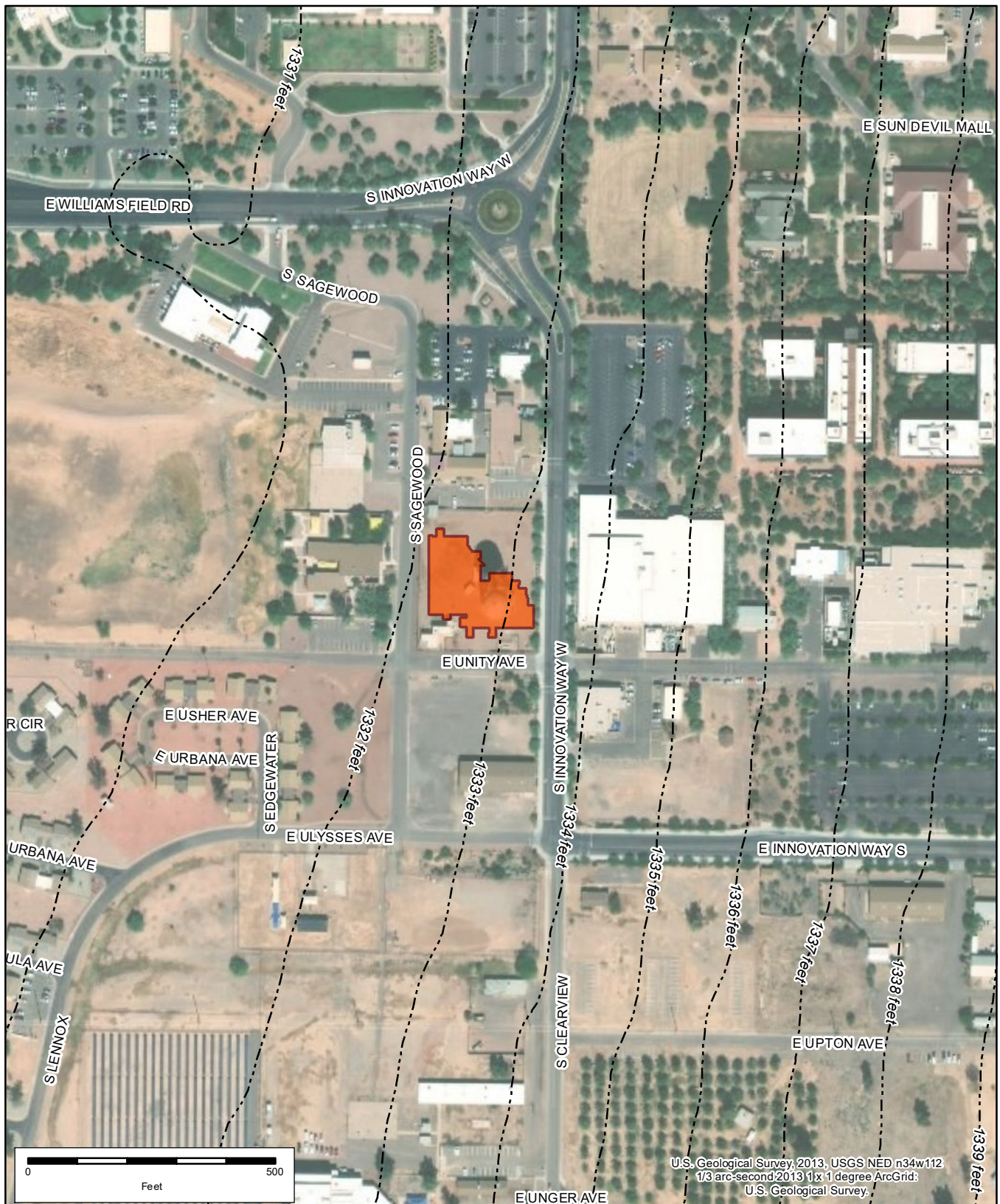
Regards,



Joey Pace, Project Manager
Voluntary Remediation Program

cc: Jim Clarke, Wood Environment & Infrastructure Solutions, Inc. – *sent via email*
D.R. Smallbeck, Wood Environment & Infrastructure Solutions, Inc. – *sent via email*

ATTACHMENT 2
General Site Location map with Topographic Base Layer

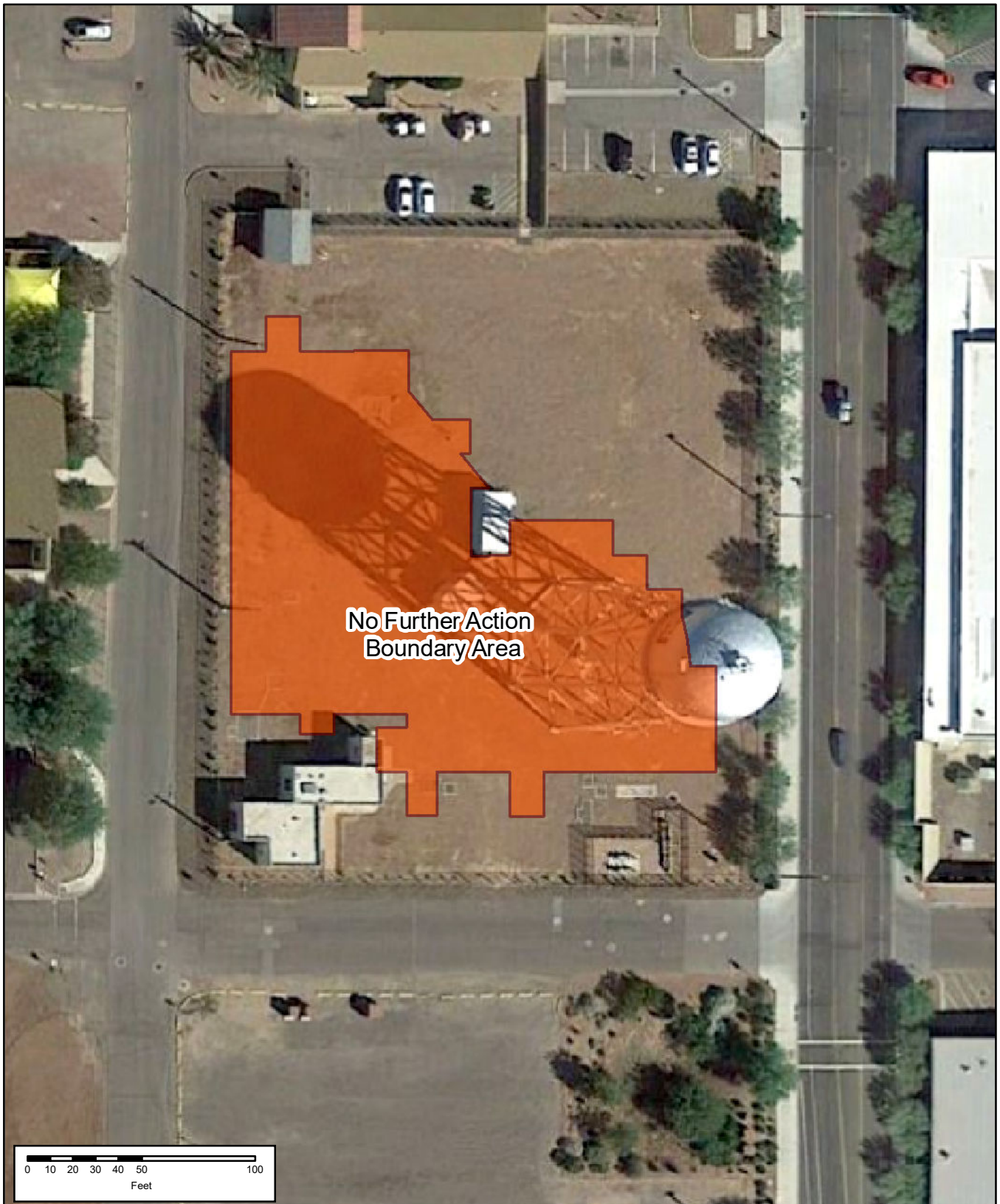


ADEQ Site 512883, Parcel K-1-2, CDA045
General Site Location
Former Williams Air Force Base, Mesa, Arizona

Figure
1.0

ATTACHMENT 3

Scaled Map of NFA Boundary Area



ADEQ Site 512883, Parcel K-1-2, CDA045
No Further Action (NFA) Boundary Area
Former Williams Air Force Base, Mesa, Arizona

Attachment 3

ATTACHMENT 4

Draft Public Notice

Notice of 30-Day Public Comment Period
Williams AFB Lead Paint Site CDA045, Parcel K-1-2
Air Force Civil Engineer Center
Request for No Further Action Determination

The Air Force Civil Engineer Center (AFCEC) has submitted a request for a No Further Action (NFA) determination to the Arizona Department of Environmental Quality (ADEQ) Voluntary Remediation Program (VRP) for Lead Paint Site CDA045, Parcel K-1-2 located at the former Williams Air Force Base in Mesa, AZ (VRP Site Code 512883-00). The NFA requests closure for soil at the site and was submitted in accordance with Arizona Revised Statutes 49-181(A).

Lead Paint Site CDA045 is located at 6045 S. Sagewood at Unity Ave, Mesa Arizona 85212 (VRP Site Code: 512883-00). Impacted soil was excavated to continue lead based paint abatement. Lead contaminated soil was removed from the site, confirmatory sampling was conducted, and the excavation was backfilled with clean soil and decorative rock cover. The remaining soil meets the Arizona Residential Soil Remediation Level and the federal Toxic Substances Control Act Hazard Standard for lead in soil, both of which are 400 milligrams per kilogram.

The NFA Report is available online at: <http://azdeq.gov/notices>, and at the ADEQ Records Center, 1110 W. Washington St., Phoenix, (602) 771-4380, or (800) 234-5677, ext. 6027714380; please call for hours of operation and to schedule an appointment.

PARTIES WISHING TO SUBMIT WRITTEN COMMENTS regarding the NFA request for the Lead Paint Site CDA045 may do so through the following contacts:

Arizona Department of Environmental Quality
Attention: Joey Pace, Voluntary Remediation Program
Pace.Joey@azdeq.gov
1110 W. Washington Street Phoenix, AZ 85007; or,

Air Force Civil Engineer Center
Attention: Catherine Jerrard
catherine.jerrard@us.af.mil
706 Hangar Road, Rome, NY 13441

Comments must be postmarked or received by ADEQ or the Air Force Civil Engineer Center by 28 December 2018.

ADEQ will take reasonable measures to provide access to department services to individuals with limited ability to speak, write, or understand English and/or to those with disabilities. Requests for language interpretation services or for disability accommodations must be made at least 48 hours in advance by contacting: 7-1-1 for TDD; (602) 771-2215 for Disability Accessibility; or Ian Bingham, Title VI Nondiscrimination Coordinator at (602) 771-4322 or idb@azdeq.gov.

ADEQ tomará medidas razonables para proveer acceso a los servicios del departamento para personas con capacidad limitada para hablar, escribir o entender Inglés y / o para las personas con discapacidad. Las solicitudes de servicios de interpretación del lenguaje o de alojamiento de discapacidad deben hacerse por lo menos 48 horas de antelación poniéndose en contacto con Ian Bingham, Title VI Nondiscrimination Coordinator al (602) 771-4322 o idb@azdeq.gov.

Dated this 25 day of November, 2018