

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

RCRA Corrective Action  
Environmental Indicator (EI) RCRIS code (CA725)

Current Human Exposures Under Control

Facility Name: United States Army Air Defense Center and Fort Bliss  
Facility Address: Fort Bliss, Texas 79916  
Facility EPA ID #: NM 4213720101

1. Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination?

Yes If yes - check here and continue with #2 below.

\_\_\_\_\_ If no - re-evaluate existing data, or

\_\_\_\_\_ if data are not available skip to #6 and enter "IN" (more information needed) status code.

**BACKGROUND**

**Definition of Environmental Indicators (for the RCRA Corrective Action)**

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

**Definition of "Current Human Exposures Under Control" EI**

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

**Relationship of EI to Final Remedies**

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

**Duration / Applicability of EI Determinations**

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

Are groundwater, soil, surface water, sediments, or air media known or reasonably suspected to be "contaminated"<sup>1</sup> above appropriately protective risk-based "levels" (applicable promulgated standards, as well as

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other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

|                             | <u>Yes</u> | <u>No</u>  | <u>?</u>   | <u>Rationale / Key Contaminants</u>     |
|-----------------------------|------------|------------|------------|---|
| Groundwater                 | <u>Yes</u> | <u>   </u> | <u>   </u> | <u>See attached CA725 Support Table</u> |
| Air (indoors) <sup>2</sup>  | <u>   </u> | <u>No</u>  | <u>   </u> | <u>See attached CA725 Support Table</u> |
| Surface Soil (e.g., <2 ft)  | <u>Yes</u> | <u>   </u> | <u>   </u> | <u>See attached CA725 Support Table</u> |
| Surface Water               | <u>   </u> | <u>No</u>  | <u>   </u> | <u>See attached CA725 Support Table</u> |
| Sediment                    | <u>   </u> | <u>No</u>  | <u>   </u> | <u>See attached CA725 Support Table</u> |
| Subsurf. Soil (e.g., >2 ft) | <u>Yes</u> | <u>   </u> | <u>   </u> | <u>See attached CA725 Support Table</u> |
| Air (outdoors)              | <u>   </u> | <u>No</u>  | <u>   </u> | <u>See attached CA725 Support Table</u> |

    If no (for all media) - skip to #6, and enter "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.

Yes If yes (for any media) - continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.

    If unknown (for any media) - skip to #6 and enter "IN" status code.

Rationale and Reference(s): See attached CA725 Support Table

Footnotes:

<sup>1</sup> "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

<sup>2</sup> Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

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3. Are there **complete pathways** between “contamination” and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

Potential **Human Receptors** (Under Current Conditions)

| <b>“Contaminated” Media</b>   | Residents | Workers   | Day-Care  | Construction | Trespassers | Recreation | Food <sup>3</sup> |
|-------------------------------|-----------|-----------|-----------|--------------|-------------|------------|-------------------|
| Groundwater                   | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u>    |             |            | <u>No</u>         |
| Soil (surface, e.g., <2 ft)   | <u>No</u> | <u>No</u> | <u>No</u> | <u>No</u>    | <u>Yes</u>  | <u>No</u>  | <u>No</u>         |
| Soil (subsurface e.g., >2 ft) |           |           |           | <u>No</u>    |             |            | <u>No</u>         |

Instructions for Summary Exposure Pathway Evaluation Table:

- I. Strike-out specific Media including Human Receptors’ spaces for Media which are not “contaminated”) as identified in #2 above.
2. enter “yes” or “no” for potential “completeness” under each “Contaminated” Media -- Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential “Contaminated” Media - Human Receptor combinations (Pathways) do not have check spaces (“\_\_\_”). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

- \_\_\_ If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter “YE” status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional Pathway Evaluation Work Sheet to analyze major pathways).
- Yes If yes (pathways are complete for any “Contaminated” Media - Human Receptor combination) - continue after providing supporting explanation.
- \_\_\_ If unknown (for any “Contaminated” Media - Human Receptor combination) - skip to #6 and enter “IN” status code

Rationale and Reference(s): See attached CA725 Support Table

SWMU 19: Ground water in a shallow perched zone beneath this site exceeded the MCL for lead. Neither the shallow perched zone nor the deeper (> 300’ bgs) regional aquifer, which has not been impacted, are used for drinking water. PCBs exceeded SSLs; however, under current conditions, the only potential human receptors are “Trespassers”. Trespassers are not reasonably expected at this site because of the lack of drinking water and military security measures.

SWMU 27B: Arsenic exceed HHSLs; however, under current conditions, the only potential human receptors are “Trespassers”. Trespassers are not reasonably expected at this site because of the lack of drinking water and military security measures.

SWMU 76: Arsenic exceed HHSLs; however, under current conditions, the only potential human receptors are “Trespassers”. Trespassers are not reasonably expected at this site because of the lack of drinking water and military security measures.

SWMU 81: Zinc and lead exceeded residential HHSL, but did not exceed industrial HHSL. Under current conditions, the only potential human receptors are “Trespassers”. SWMU 81 is located in an extremely

remote mountainous location near the top of Organ Peak and any exposures are not reasonably expected to be significant.

<sup>3</sup> Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

4. Can the exposures from any of the complete pathways identified in #3 be reasonably expected to be “significant”<sup>4</sup> (i.e., potentially “unacceptable” because exposures can be reasonably expected to be: 1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable “levels” (used to identify the “contamination”); or 2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable “levels”) could result in greater than acceptable risks)?

NO If no (exposures can not be reasonably expected to be significant (i.e., potentially “unacceptable”) for any complete exposure pathway) - skip to #6 and enter “YE” status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to “contamination” (identified in #3) are not expected to be “significant.”

\_\_\_\_\_ If yes (exposures could be reasonably expected to be “significant” (i.e., potentially “unacceptable”) for any complete exposure pathway) - continue after providing a description (of each potentially “unacceptable” exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to “contamination” (identified in #3) are not expected to be “significant.”

\_\_\_\_\_ If unknown (for any complete pathway) - skip to #6 and enter “IN” status code

Rationale and Reference(s): See attached CA725 Support Table

SWMU 19: Ground water in a shallow perched zone beneath this site exceeded the MCL for lead. Neither the shallow perched zone nor the deeper (> 300' bgs) regional aquifer, which has not been impacted, are used for drinking water. PCBs exceeded SSLs; however, under current conditions, the only potential human receptors are “Trespassers”. Trespassers are not reasonably expected at this site because of the lack of drinking water and military security measures.

SWMU 27B: Arsenic exceeded HHSLs; however, under current conditions, the only potential human receptors are “Trespassers”. Trespassers are not reasonably expected at this site because of the lack of drinking water and military security measures.

SWMU 76: Arsenic exceeded HHSLs; however, under current conditions, the only potential human receptors are “Trespassers”. Trespassers are not reasonably expected at this site because of the lack of drinking water and military security measures.

SWMU 81: Zinc and lead exceeded residential HHSL, but did not exceed industrial HHSL. Under current conditions, the only potential human receptors are “Trespassers”. SWMU 81 is located in an extremely remote mountainous location near the top of Organ Peak and any exposures are not reasonably expected to be significant.

<sup>4</sup> If there is any question on whether the identified exposures are “significant” (i.e., potentially “unacceptable”) consult a human health Risk Assessment specialist with appropriate education, training and experience.





## FORT BLISS CA725 SUPPORT TABLE

### Abbreviations

|           |   |
|-----------|---|
| R3 RBCs   | EPA Region 3 Risk Based Concentrations  |
| R6 HHSL   | EPA Region 6 Human Health Soil Screening Levels   |
| SSLs      | Soil Screening Levels   |
| R6 PRGs   | EPA Region 6 Preliminary Remediation Goals  |
| NMED SSLs | New Mexico Environment Department's Soil Screening Levels (2000)                              |
| WQCC      | Water Quality Control Commission Standards  |
| MCLs      | Maximum Contaminate Level (published in EPA's Drinking Water Standards and Health Advisories) |

## FORT BLISS CA725 SUPPORT TABLE

### References

|         |   |
|---------|---|
| 09/1991 | RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76) |
| 06/1992 | Preliminary Draft CMS for SWMU 25B  |
| 03/1996 | SWMU 17 - RFI Report  |
| 03/1996 | Report of Findings – Part B Permit – Open Detonation (OD) Treatment Unit Investigation (SWMU 17)                          |
| 05/1997 | Final RFI Report (SWMUs: 19, 27B, 76, 25B)  |
| 07/1997 | RFI for Five SWMUs (SWMUs: 18, 20, 25, 27, 29)  |
| 04/1998 | RFI New Mexico SWMUs - Phase 2 (SWMU 20)  |
| 04/1998 | Relative Risk Site Evaluation (SWMU 26)   |
| 07/1998 | Subsurface Investigation of the New Mexico Oxidation Lagoons (SWMUs: 19, 25B, 27B)  |
| 12/1998 | Hueco Range Camp RCRA Facility Assessment Report (SWMU 78)  |
| 07/2000 | Relative Risk Sampling at Organ Mountain Station  |
| 09/2000 | Petition for NFA (SWMUs: 21, 22, 27B, 66, 78)   |



**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 17**      **Permitted Active Open Detonation Area/Demo Site 2 - FAW10.** Operating permit (Subpart X) issued on June 8, 1995.

06/1995      Operating permit (Subpart X) issued on June 8, 1995.

03/1996      Report of Findings – Part B Permit – Open Detonation (OD) Treatment Unit Investigation

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|                             | <b>Yes</b>               | <b>No</b> | <b>?</b>                 | <b>Rationale / Key Contaminants</b>                        |
|-----------------------------|--------------------------|-----------|--------------------------|--|
| Groundwater                 | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No buildings on site                                       |
| Surface Soil (e.g., <2 ft   | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | COCs (explosives) do not exceed SSLs                       |
| Surface Water               | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water   |
| Sediment                    | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | COCs (explosives) do not exceed SSLs                       |
| Air (outdoors)              | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> |  |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                       |           |         |          |              |             |            |      |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated<br>media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 18**      **Rubble Pit/Landfill No. 13 at McGregor Range Camp.** Inactive Sanitary Landfill/Rubble Pit reported to have handled petroleum, oil, and lubricants (POL), unspecified hazardous waste, and scrap metal.

03/1989      RCRA Facility Assessment, PR/VSI Report

09/1989      Final Report Evaluation of Solid Waste Management Units

09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)

07/1997      Final Report – RCRA Facility Investigation for Five Solid Waste Management Units

**CA725 Q2**

|                             | <b>Yes</b>               | <b>No</b> | <b>?</b>                 | <b>Rationale / Key Contaminants</b>                        |
|-----------------------------|--------------------------|-----------|--------------------------|--|
| Groundwater                 | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No building on site  |
| Surface Soil (e.g., <2 ft)  | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | Metals & organics detected at less than R3 RBCs            |
| Surface Water               | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water   |
| Sediment                    | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | Metals & organics detected at less than R3 RBCs            |
| Air (outdoors)              | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> |  |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                    |           |         |          |              |             |            |      |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 19**      **Evaporation Pond at McGregor Range Camp.** Inactive Evaporation/Oxidation Pond (16.3million-gallon capacity) used for the collection and evaporation of sanitary wastewater, reported to have handled POL, volatile organic compounds (VOC), heavy metals, and pesticides.

03/1989      RCRA Facility Assessment, PR/VSI Report

09/1989      Final Report Evaluation of Solid Waste Management Units

09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)

05/1997      Final RFI Report (SWMUs: 19, 27B, 76, 25B)

07/1997      Subsurface Investigation of the New Mexico Oxidation Lagoons McGregor Range,

11/1997      Subsurface Investigation of the New Mexico Oxidation Lagoons

12/1997      Subsurface Investigation of Oxidation Ponds

07/1998      Subsurface Investigation of the New Mexico Oxidation Lagoons (SWMUs: 19, 25B, 27B)

12/1999      Environmental Compliance Requirement for New Mexico Oxidation Lagoons Progress Report #11

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|                             | <b>Yes</b> | <b>No</b> | <b>?</b> | <b>Rationale / Key Contaminants</b>                |
|-----------------------------|------------|-----------|----------|--|
| Groundwater                 | <u>Yes</u> | ___       | ___      | Pb exceeds MCL                                     |
| Air (indoors) 2             | ___        | <u>No</u> | ___      | No building on site                                |
| Surface Soil (e.g., <2 ft)  | <u>Yes</u> | ___       | ___      | PCBs exceed SSL; Metals, SVOCs, VOCs less than SSL |
| Surface Water               | ___        | <u>No</u> | ___      | No surface water                                   |
| Sediment                    | ___        | <u>No</u> | ___      | No surface water                                   |
| Subsurf. Soil (e.g., >2 ft) | <u>Yes</u> | ___       | ___      | PCBs exceed SSL; Metals, SVOCs, VOCs less than SSL |
| Air (outdoors)              | ___        | <u>No</u> | ___      |  |

**CA 725 Q3**

Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)

| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Groundwater        | No        | No      | No       | No           |             |            | No   |
| Soil (e.g., <2 ft) | No        | No      | No       | No           | Yes         | No         | No   |
| Soil (>2 ft)       |           |         |          | No           |             |            | No   |

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 20**      **Open Detonation Area north of McGregor Range Camp.** Inactive Unexploded ordnance (UXO) Open Detonation Area located north of McGregor Range reported to have handled UXO, and scrap metal. Unit has not been precisely located.

03/1989      RCRA Facility Assessment, PR/VSI Report

09/1989      Final Report Evaluation of Solid Waste Management Units

09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)

07/1997      Final Report – RCRA Facility Investigation for Five Solid Waste Management Units

12/1997      Draft Final Report – RCRA Facility Investigation New Mexico, Phase 2

04/1998      RFI New Mexico SWMUs - Phase 2 (SWMU 20)

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|                             | <b>Yes</b> | <b>No</b> | <b>?</b> | <b>Rationale / Key Contaminants</b>                        |
|-----------------------------|------------|-----------|----------|--|
| Groundwater                 | ___        | <u>No</u> | ___      | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | ___        | <u>No</u> | ___      | No building on site  |
| Surface Soil (e.g., <2 ft   | ___        | <u>No</u> | ___      | COCs do not exceed R3 RBCs/R6 PRGs                         |
| Surface Water               | ___        | <u>No</u> | ___      | No surface water   |
| Sediment                    | ___        | <u>No</u> | ___      | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | ___        | <u>No</u> | ___      | COCs do not exceed R3 RBCs/R6 PRGs                         |
| Air (outdoors)              | ___        | <u>No</u> | ___      |  |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                    |           |         |          |              |             |            |      |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 21      Inactive Former FFTA at McGregor Range Camp. Fire Fighter Training Area reported to have handled POL.**

- 07/1988      Final – Engineering Report – Former Fire Fighting Training Area & Contiguous Drum Storage Area
- 03/1989      RCRA Facility Assessment, PR/VSI Report
- 09/1989      Final Report Evaluation of Solid Waste Management Units
- 09/1991      RCRA Facility Investigation Report New Mexico Solid Waste Management Units
- 12/1991      Volume 1 RCRA Facility Investigation Report Texas Solid Waste Management Units
- 08/1999      Final - McGregor Range Solid Waste Management Units – RCRA Facility Investigation Report
- 07/1999      Final – RFI Report for McGregor Range Camp
- 09/2000      Petition for NFA (SWMUs: 21, 22, 27B, 66, 76, 78)

**CA725 Q2**

|                             | <b>Yes</b> | <b>No</b> | <b>?</b> | <b>Rationale / Key Contaminants</b>                        |
|-----------------------------|------------|-----------|----------|--|
| Groundwater                 | ___        | <u>No</u> | ___      | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | ___        | <u>No</u> | ___      | No building on site  |
| Surface Soil (e.g., <2 ft)  | ___        | <u>No</u> | ___      | TPH, Metals, VOCs do not exceed R6 HHSL                    |
| Surface Water               | ___        | <u>No</u> | ___      | No surface water   |
| Sediment                    | ___        | <u>No</u> | ___      | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | ___        | <u>No</u> | ___      | TPH, Metals, VOCs do not exceed R6 HHSL                    |
| Air (outdoors)              | ___        | <u>No</u> | ___      |  |

**CA 725 Q3      Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                       |           |         |          |              |             |            |      |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated<br>media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 22**      **Inactive Waste Drum Storage Area at McGregor Range Camp-** Inactive Drum Storage & Accumulation Area reported to have handled POL.

- 03/1989      RCRA Facility Assessment, PR/VSI Report
- 09/1989      Final Report Evaluation of Solid Waste Management Units
- 09/2000      Petition for NFA (SWMUs: 21, 22, 27B, 66, 76, 78)

**CA725 Q2**

|                             | <b>Yes</b>               | <b>No</b> | <b>?</b>                 | <b>Rationale / Key Contaminants</b>                            |
|-----------------------------|--------------------------|-----------|--------------------------|--|
| Groundwater                 | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No soil contamination above SSL; Ground water is 300'+ BGS     |
| Air (indoors) 2             | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No building on site  |
| Surface Soil (e.g., <2 ft)  | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | TPH, Metals, SVOCs detected in 1991 were below R6 HHSL in 1998 |
| Surface Water               | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water   |
| Sediment                    | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | TPH, Metals, SVOCs detected in 1991 were below R6 HHSL in 1998 |
| Air (outdoors)              | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> |  |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                           |                  |                |                 |                     |                    |                   |             |
|---------------------------|------------------|----------------|-----------------|---------------------|--------------------|-------------------|-------------|
| <b>Contaminated media</b> | <b>Residents</b> | <b>Workers</b> | <b>Day-Care</b> | <b>Construction</b> | <b>Trespassers</b> | <b>Recreation</b> | <b>Food</b> |
|---------------------------|------------------|----------------|-----------------|---------------------|--------------------|-------------------|-------------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 25**      **Rubble Pit/Landfill No. 14 at Orogrande Range Camp.** Landfill/Rubble Pit reported to have handled POL, unspecified hazardous waste, and scrap metal.

- 03/1989      RCRA Facility Assessment, PR/VSI Report
- 09/1989      Final Report Evaluation of Solid Waste Management Units
- 09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)
- 09/1991      RCRA Facility Investigation Report New Mexico Solid Waste Management Units Vol. 1
- 12/1991      Volume 1 RCRA Facility Investigation Report Texas Solid Waste Management Units,
- 10/1992      Draft – Corrective Measures Study for Orogrande Oxidation Lagoon
- 10/1992      Draft Corrective Measure Studies for Solid Waste Management Units
- 07/1997      Subsurface Investigation of the New Mexico Oxidation Lagoons
- 12/1997      RCRA Investigation Report
- 02/1999      Additional Tasks for Oxidation Pond & Imhoff Task Assessment

**CA725 Q2**

|                             | <b>Yes</b> | <b>No</b> | <b>?</b> | <b>Rationale / Key Contaminants</b>                        |
|-----------------------------|------------|-----------|----------|--|
| Groundwater                 | ___        | <u>No</u> | ___      | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | ___        | <u>No</u> | ___      | No building on site  |
| Surface Soil (e.g., <2 ft   | ___        | <u>No</u> | ___      | COCs do not exceed R3 RBCs                                 |
| Surface Water               | ___        | <u>No</u> | ___      | No surface water   |
| Sediment                    | ___        | <u>No</u> | ___      | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | ___        | <u>No</u> | ___      | COCs do not exceed R3 RBCs                                 |
| Air (outdoors)              | ___        | <u>No</u> | ___      |  |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                           |                  |                |                 |                     |                    |                   |             |
|---------------------------|------------------|----------------|-----------------|---------------------|--------------------|-------------------|-------------|
| <b>Contaminated media</b> | <b>Residents</b> | <b>Workers</b> | <b>Day-Care</b> | <b>Construction</b> | <b>Trespassers</b> | <b>Recreation</b> | <b>Food</b> |
|---------------------------|------------------|----------------|-----------------|---------------------|--------------------|-------------------|-------------|

## FORT BLISS CA725 SUPPORT TABLE

**SWMU 26**      **Open Detonation Area at Dona Ana Range 41.** Inactive UXO Open Detonation Area reported to have handled UXO, and scrap metal.

03/1989      RCRA Facility Assessment, PR/VSI Report  
 04/1998      Report – Relative Risk Site Evaluation – Inactive Dona Ana Range/Detonation  
 09/1989      Final Report Evaluation of Solid Waste Management Units  
 04/1998      Relative Risk Site Evaluation (SWMU 26)

**CA725 Q2**

|                             | Yes | No        | ?   |  |
|-----------------------------|-----|-----------|-----|--|
| Groundwater                 | ___ | <u>No</u> | ___ | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | ___ | <u>No</u> | ___ | No building on site  |
| Surface Soil (e.g., <2 ft   | ___ | <u>No</u> | ___ | TPH, Metals, Explosives do not exceed SSLs                 |
| Surface Water               | ___ | <u>No</u> | ___ | No surface water   |
| Sediment                    | ___ | <u>No</u> | ___ | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | ___ | <u>No</u> | ___ | TPH, Metals, Explosives do not exceed SSLs                 |
| Air (outdoors)              | ___ | <u>No</u> | ___ |  |

**CA 725 Q3**      Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)

|                    |           |         |          |              |             |            |      |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|



**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 27**      **Rubble Pit/Landfill No. 12 at Dona Ana Range Camp.** Landfill/Rubble Pit, approximately 2 acres in extent, reported to have handled POL, RDX, UXO, and scrap metal.

03/1989      RCRA Facility Assessment, PR/VSI Report

09/1989      Final Report Evaluation of Solid Waste Management Units

09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)

07/1997      Final Report – RCRA Facility Investigation for Five Solid Waste Management Units

**CA725 Q2**

|                             | <b>Yes</b> | <b>No</b> | <b>?</b> | <b>Rationale / Key Contaminants</b>                        |
|-----------------------------|------------|-----------|----------|--|
| Groundwater                 | ___        | <u>No</u> | ___      | No soil contamination above SSL; Ground water is 300'+ BGS |
| Air (indoors) 2             | ___        | <u>No</u> | ___      | No building on site  |
| Surface Soil (e.g., <2 ft)  | ___        | <u>No</u> | ___      | COCs do not exceed R3 RBCs                                 |
| Surface Water               | ___        | <u>No</u> | ___      | No surface water   |
| Sediment                    | ___        | <u>No</u> | ___      | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | ___        | <u>No</u> | ___      | COCs do not exceed R3 RBCs                                 |
| Air (outdoors)              | ___        | <u>No</u> | ___      |  |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                           |                  |                |                 |                     |                    |                   |             |
|---------------------------|------------------|----------------|-----------------|---------------------|--------------------|-------------------|-------------|
| <b>Contaminated media</b> | <b>Residents</b> | <b>Workers</b> | <b>Day-Care</b> | <b>Construction</b> | <b>Trespassers</b> | <b>Recreation</b> | <b>Food</b> |
|---------------------------|------------------|----------------|-----------------|---------------------|--------------------|-------------------|-------------|

**FORT BLISS CA725 SUPPORT TABLE**

|                 |   |
|-----------------|---|
| <b>SWMU 27B</b> | <b>Evaporation Pond at Dona Ana Range Camp.</b> Evaporation/Oxidation Pond reported to have handled POL, VOC, and heavy metals. |
| 03/1989         | RCRA Facility Assessment, PR/VSI Report   |
| 09/1989         | Final Report Evaluation of Solid Waste Management Units   |
| 09/1991         | RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)       |
| 05/1997         | Final RFI Report (SWMUs: 19, 27B, 76, 25B)  |
| 07/1997         | Subsurface Investigation of the New Mexico Oxidation Lagoons  |
| 07/1998         | Subsurface Investigation of the New Mexico Oxidation Lagoons (SWMUs: 19, 25B, 27B)  |
| 09/2000         | Petition for NFA (SWMUs: 21, 22, 27B, 66, 76, 78)   |

**CA725 Q2**

|                             | <b>Yes</b>               | <b>No</b>                | <b>?</b>                 | <b>Rationale / Key Contaminants</b>  |
|-----------------------------|--------------------------|--------------------------|--------------------------|--|
| Groundwater                 | <input type="checkbox"/> | <u>No</u>                | <input type="checkbox"/> | Ba exceeded HHSL; As, Cr exceeded HHSLs, MCLs, WQCC; No COCs exceeded when resampled |
| Air (indoors) 2             | <input type="checkbox"/> | <u>No</u>                | <input type="checkbox"/> | No building on site  |
| Surface Soil (e.g., <2 ft)  | <u>Yes</u>               | <input type="checkbox"/> | <input type="checkbox"/> | As exceeded HHSL   |
| Surface Water               | <input type="checkbox"/> | <u>No</u>                | <input type="checkbox"/> | No surface water   |
| Sediment                    | <input type="checkbox"/> | <u>No</u>                | <input type="checkbox"/> | No surface water   |
| Subsurf. Soil (e.g., >2 ft) | <u>Yes</u>               | <input type="checkbox"/> | <input type="checkbox"/> | As exceeded HHSL   |
| Air (outdoors)              | <input type="checkbox"/> | <u>No</u>                | <input type="checkbox"/> |  |

**CA 725 Q3**

**Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Soil (e.g., <2 ft) | No        | No      | No       | No           | Yes         | No         | No   |
| Soil (>2 ft)       |           |         |          | No           |             |            | No   |

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 29**      **Closed Sanitary Landfill No. 11 at Dona Ana Range Camp.** Inactive Sanitary Landfill/Rubble Pit reported to have handled POL, unspecified hazardous waste, and scrap metal.

03/1989      RCRA Facility Assessment, PR/VSI Report

09/1989      Final Report Evaluation of Solid Waste Management Units

09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)

07/1997      Final Report – RCRA Facility Investigation for Five Solid Waste Management Units

**CA725 Q2**

|                             | <b>Yes</b> | <b>No</b> | <b>?</b> | <b>Rationale / Key Contaminants</b>                                     |
|-----------------------------|------------|-----------|----------|---|
| Groundwater                 | ___        | <u>No</u> | ___      | No soil contamination above SSL; Ground water is 300'+ BGS              |
| Air (indoors) 2             | ___        | <u>No</u> | ___      | No building on site   |
| Surface Soil (e.g., <2 ft)  | ___        | <u>No</u> | ___      | All soil potentially impacted was removed during the site investigation |
| Surface Water               | ___        | <u>No</u> | ___      | No surface water  |
| Sediment                    | ___        | <u>No</u> | ___      | No surface water  |
| Subsurf. Soil (e.g., >2 ft) | ___        | <u>No</u> | ___      | All soil potentially impacted was removed during the site investigation |
| Air (outdoors)              | ___        | <u>No</u> | ___      |   |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                    |           |         |          |              |             |            |      |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 66**      **Borrow Pit Drum Burial Site at McGregor Range Camp.** Drum Dump Site reported to have handled paint and VOC.

07/1997      Preliminary Site Investigation Draft Report (B-1116, B-2019, Rubble Dump, & McGregor Borrow Pit),  
 09/2000      Petition for NFA (SWMUs: 21, 22, 27B, 66, 76, 78)

**CA725 Q2**

|                             | <b>Yes</b>               | <b>No</b> | <b>?</b>                 | <b>Rationale / Key Contaminants</b>   |
|-----------------------------|--------------------------|-----------|--------------------------|---|
| Groundwater                 | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No soil contamination above SSL; Ground water is 300'+ BGS                  |
| Air (indoors) 2             | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No building on site   |
| Surface Soil (e.g., <2 ft   | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | All potentially contaminated soil was removed during the site investigation |
| Surface Water               | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water  |
| Sediment                    | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water  |
| Subsurf. Soil (e.g., >2 ft) | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | All potentially contaminated soil was removed during the site investigation |
| Air (outdoors)              | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> |   |

**CA 725 Q3**      **Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)**

|                       |           |         |          |              |             |            |      |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated<br>media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 76**      **Oxidation Pond at Meyer's Small Arms Range.** Evaporation/oxidation Pond reported to have handled POL.

03/1989      RCRA Facility Assessment, PR/VSI Report

09/1989      Final Report Evaluation of Solid Waste Management Units

09/1991      RCRA Facility Investigation Report, New Mexico Solid Waste Management Units (SWMUs: 18, 19, 20, 25, 25B, 27, 27B, 29, 76)

05/1997      Final RFI Report (SWMUs: 19, 27B, 76, 25B)

07/1997      Subsurface Investigation of the New Mexico Oxidation Lagoons

**CA725 Q2**

|                             | Yes        | No        | ?   | Rationale / Key Contaminants                     |
|-----------------------------|------------|-----------|-----|--|
| Groundwater                 | ___        | <u>No</u> | ___ | As exceeds HHSL, but did not exceed the MCL/WQCC |
| Air (indoors) 2             | ___        | <u>No</u> | ___ | No building on site                              |
| Surface Soil (e.g., <2 ft)  | <u>Yes</u> | ___       | ___ | As exceeds HHSL                                  |
| Surface Water               | ___        | <u>No</u> | ___ | No surface water                                 |
| Sediment                    | ___        | <u>No</u> | ___ | No surface water                                 |
| Subsurf. Soil (e.g., >2 ft) | <u>Yes</u> | ___       | ___ | As exceeds HHSL                                  |
| Air (outdoors)              | ___        | <u>No</u> | ___ |  |

**CA 725 Q3**      Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)

| Contaminated media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|--------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Soil (e.g., <2 ft) | No        | No      | No       | No           | Yes         | No         | No   |
| Soil (>2 ft)       |           |         |          | No           |             |            | No   |

**FORT BLISS CA725 SUPPORT TABLE**

**SWMU 78 Hueco Range Camp.** Former meteorological station and radio relay site located near Organ Peak

12/1998 Hueco Range Camp RCRA Facility Assessment Report (SWMU 78)  
 09/2000 Petition for NFA (SWMUs: 21, 22, 27B, 66, 76, 78)

**CA725 Q2**

|                             | <b>Yes</b>               | <b>No</b> | <b>?</b>                 | <b>Rationale / Key Contaminants</b>   |
|-----------------------------|--------------------------|-----------|--------------------------|---|
| Groundwater                 | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | Metals exceeding MCLs due to degraded casing in inactive water supply wells |
| Air (indoors) 2             | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No building on site   |
| Surface Soil (e.g., <2 ft   | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | COCs do not exceed HHSLs  |
| Surface Water               | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water  |
| Sediment                    | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | No surface water  |
| Subsurf. Soil (e.g., >2 ft) | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> | COCs do not exceed HHSLs  |
| Air (outdoors)              | <input type="checkbox"/> | <u>No</u> | <input type="checkbox"/> |   |

**CA 725 Q3** Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)

|                       |           |         |          |              |             |            |      |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|
| Contaminated<br>media | Residents | Workers | Day-Care | Construction | Trespassers | Recreation | Food |
|-----------------------|-----------|---------|----------|--------------|-------------|------------|------|

**FORT BLISS CA725 SUPPORT TABLE**

|                             |   |                          |                                     |  |             |            |      |    |
|-----------------------------|---|--------------------------|-------------------------------------|--|-------------|------------|------|----|
| <b>SWMU 81</b>              | <b>Organ Mountain Station.</b>  |                          |                                     |  |             |            |      |    |
| 07/2000                     | Relative Risk Sampling  |                          |                                     |  |             |            |      |    |
| <b>CA725 Q2</b>             | <b>Yes No ?</b>   |                          | <b>Rationale / Key Contaminants</b> |  |             |            |      |    |
| Groundwater                 | <input type="checkbox"/>  | <u>No</u>                | <input type="checkbox"/>            | Site is located on top of Organ Mountain – no ground water present             |             |            |      |    |
| Air (indoors) 2             | <input type="checkbox"/>  | <u>No</u>                | <input type="checkbox"/>            | No building on site  |             |            |      |    |
| Surface Soil (e.g., <2 ft)  | <u>Yes</u>  | <input type="checkbox"/> | <input type="checkbox"/>            | Zn, Pb exceed R6 HHSL (residential) but do not exceed for industrial standards |             |            |      |    |
| Surface Water               | <input type="checkbox"/>  | <u>No</u>                | <input type="checkbox"/>            | No surface water   |             |            |      |    |
| Sediment                    | <input type="checkbox"/>  | <u>No</u>                | <input type="checkbox"/>            | No surface water   |             |            |      |    |
| Subsurf. Soil (e.g., >2 ft) | <u>Yes</u>  | <input type="checkbox"/> | <input type="checkbox"/>            | Zn, Pb exceed R6 HHSL (residential) but do not exceed for industrial standards |             |            |      |    |
| Air (outdoors)              | <input type="checkbox"/>  | <u>No</u>                | <input type="checkbox"/>            |  |             |            |      |    |
| <b>CA 725 Q3</b>            | <b>Summary Exposure Pathway Evaluation Table - Potential Human Receptors (Under Current Conditions)</b> |                          |                                     |  |             |            |      |    |
| Contaminated media          | Residents   | Workers                  | Day-Care                            | Construction   | Trespassers | Recreation | Food |    |
| Soil (e.g., <2 ft)          | No  | No                       | No                                  | No   | Yes         | No         | No   |    |
| Soil (>2 ft)                |   |                          |                                     | No   |             |            |      | No |