



Texas Commission on Environmental Quality Waste Permits Division Correspondence Cover Sheet

Date: July 11, 2022

Facility Name: Fort Bliss Municipal Solid Waste Landfill

Permit or Registration No.: 1422

Nature of Correspondence:

Initial/New

Response/Revision to TCEQ Tracking No.:
_____ (from subject line of TCEQ letter
regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
<input type="checkbox"/> New Notice of Intent	<input type="checkbox"/> Alternative Daily Cover Report
<input type="checkbox"/> Notice of Intent Revision	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Compost Report
<input type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Background Evaluation
<input checked="" type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Corrective Action
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> CCR Registration	<input type="checkbox"/> Extension Request
<input type="checkbox"/> CCR Registration Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> CCR Registration Minor Amendment	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Treatability Study
<input type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Waste Minimization Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> 335.6 Notification	
<input type="checkbox"/> Other:	



DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT BLISS
[REDACTED]
FORT BLISS, TEXAS 79916

04 August 2022

SUBJECT: Submittal of Notice Permit Modification Application Fort Bliss Landfill, MSW Permit No. 1422 Permit Modification- Revision to Approved Evapotranspiration Final Cover Design RN100210095/CN600126262

[REDACTED]
Municipal Solid Waste Permits Section, MC 124
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Dear [REDACTED]

The U.S. Army Air Defense Artillery Center and Fort Bliss (USAADACENFB) is submitting to the Texas Commission on Environmental Quality (TCEQ) the attached application for a Notice Permit Modification for the Fort Bliss Municipal Solid Waste Landfill (MSWLF), located in Fort Bliss, El Paso County, Texas.

A permit modification with public notice is being requested to revise the approved optimized evapotranspiration (ET) final cover system design for the final closure construction of landfill. This modification proposes changes to the currently permitted optimized evapotranspiration landfill cover final grading plan (2014 application issued in May 2015) to alter the final grades to allow, to the extent practical, relocation of waste identified outside of the permitted cell boundaries in a 2021 Limits of Waste Investigation (LOWI). The final grading and drainage plan remains consistent with the previously approved modifications, with no height or capacity increase over the maximum permitted landfill height or capacity, and no impact to off-site drainage. The revisions include changes to the approved final contours and slopes (with no height or capacity increase over the maximum permitted height or capacity and no impact to off-site drainage) to allow, to the extent practical, relocation of waste identified outside of the permitted cell boundaries in the 2021 LOWI and to maintain a three-foot cover thickness. This modification application is being made under Title 30 TAC §305.70(k)(9) and includes revisions to the Permit Application Parts I, II, III, and IV and revisions to Permit Application Appendix B – Landfill Modification and Closure Design Drawings, Appendix L – Facility Surface Water Drainage Report, and Appendix O – Closure Plan.

A matrix of changes from the March 2008 Permit Application, as revised by permit modifications approved in the 2012 and 2015, is provided after the TCEQ Form 20650

in Part I of the application. The matrix also presents the actions to be taken for each item (i.e., "Replacement page(s) are provided. Redline changes noted in text" or "Replace in its entirety").

One original and one unmarked (clean) copy of the changed pages are included as Attachment 1 to this letter, and one marked (reline/strikeout) copy of the changed pages is included as Attachment 2 to this letter. Additionally, one unmarked copy of the changed pages has also been submitted to the TCEQ Region 6 office.

My return address is: 1733 Pleasanton Road, Building 622, Fort Bliss, Texas, 79916. If you have any question regarding this submission, please contact [REDACTED] [REDACTED] Fort Bliss Solid Waste Program Manager, Environmental Division, Directorate of Public Works, via phone at [REDACTED] or via email at [REDACTED]



Alfredo J. Riera, P. E.
Director of Public Works

Enclosures

cc:
TCEQ Region 6

Permit Modification Application

Fort Bliss Municipal Solid Waste Landfill Permit 1422



7/11/2022

July 11, 2022

Previous Modifications:

March 2008 Application (issued March 11, 2009)

October 2011 Application (issued July 5, 2012)

July 2014 Application (Issued May 15, 2015)

Prepared By:



Arcadis U.S., Inc.
TX Engineering License [Redacted]

Engineering Certification

I attest that this Application has been prepared in accordance with good engineering practices, including consideration of applicable industry standards, and with the requirements of Title 30 of the Texas Administrative Code (Title 30 TAC) Chapter §330. This certification in no way relieves Fort Bliss of its duty to prepare and fully implement this Application.

Certifying Engineer: [REDACTED]
State: Texas
Registration Number: [REDACTED]

Signature: _____

Certification Date: _____

Engineering Seal:





TCEQ Core Data Form

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- M. Soil and Liner Quality Control Plan
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- O. Closure Plan
- P. Post-Closure Care Plan
- Q. Evapotranspiration Cover Design Report
- R. Post-Closure Use Report



Acronym List

ADC	Alternate Daily Cover
BRAC	Base Realignment and Closure
C&D	Construction and Demolition
DPW-ED	Directorate of Public Works – Environmental Division
EAD	Echelons Above Decision
FAA	Federal Aviation Administration
MPH	Miles Per Hour
msl	mean sea level
MSW	Municipal Solid Waste
MSWLF	Municipal Solid Waste Landfill Facility
RACM	Regulated Asbestos Containing Material
SOP	Site Operating Plan
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TDS	Total Dissolved Solids
TPDES	Texas Pollutant Discharge Elimination System
USAFB	United States Army Fort Bliss
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey



TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input checked="" type="checkbox"/> Other MSW Permit 1422 Notice Modific.	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600126262		RN 100210095

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Owner & Operator	
<input type="checkbox"/> Responsible Party		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:			
	City	State	ZIP
		ZIP + 4	
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code	
() -			
		20. Fax Number (if applicable)	
		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	

23. Street Address of the Regulated Entity: (No PO Boxes)						
	City		State		ZIP	ZIP + 4
24. County						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City		State		Nearest ZIP Code	
27. Latitude (N) In Decimal:		28. Longitude (W) In Decimal:			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)		
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)					
34. Mailing Address:					
		City	State	ZIP	ZIP + 4
35. E-Mail Address:					
36. Telephone Number		37. Extension or Code		38. Fax Number (if applicable)	
() -				() -	

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input checked="" type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
		2865		
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:		41. Title:	Hazardous&Solid Waste Program Mgr
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	U.S. Army Fort Bliss	Job Title:	Director of Public Works
Name (In Print):	Alfredo A.J. Riera, P.E.	Phone:	
Signature:		Date:	4 Aug 2022

Executive Summary

Background and Description of Proposed Change

The Fort Bliss Municipal Solid Waste Landfill is an approximately 106-acre facility consisting of several cells as follows:

- An inactive 10.5-acre Subtitle D Type I Cell;
- A closed 3-acre Non-Subtitle D Type I Cell (Texas Commission on Environmental Quality (TCEQ) closure approval received February 24, 1999);
- An inactive 5-acre Non-Subtitle D Type IV Construction and Demolition (C&D) Cell;
- Approximately 80 acres of 1970's era previously filled with interim cover placed; and Approximately 7 acres designated for landfill roads, access areas, and guard shack/scale house, etc.

This permit modification application is intended to seek approval of revisions to the approved optimized evapotranspiration (ET) final cover system for the final closure construction of the facility. The revisions include changes to the approved final contours and slopes to allow, to the extent practical, relocation of waste identified outside of the permitted cell boundaries in the 2021 Limits of Waste Investigation (LOWI) and to maintain a three-foot cover thickness.

Changes to Optimized ET Final Cover Design

Both the inactive Subtitle D Type I cell and the inactive Non-Subtitle D Type IV C&D cell ceased accepting waste in 2015. In addition, according to the March 1995 Final Closure Plan and Cost Estimate, interim cover has been placed over the 80 acres which represent the 1970's era inactive areas. As part of the 2014 permit modification application (issued in 2015), Fort Bliss received approval to provide an optimized ET final cover system to replace the final cover systems for those parts of the landfill that have not already received a permitted final cover (i.e., the inactive Subtitle D Type I cell, the inactive Non-Subtitle D Type IV C&D cell, and the inactive 1970's era areas.) The Non-Subtitle D Type I (Cell 2) was closed in 1999 with a non-Subtitle D final cover that complied with the closure plan for that cell and for which TCEQ closure approval was obtained in 1999. As a result, this cell was not proposed to be capped with the optimized ET cover system. As part of the 2014 permit modification application (issued in 2015), Fort Bliss also adjusted permitted grades to maximize southern and western exposure to allow for future Photo-Voltaic (PV) development on the final cover system, for potential post-closure land use for solar power (see further discussion in Section 2.2.1.3).

This modification proposes changes to the currently permitted optimized ET landfill cover final grading plan (2014 application issued in May 2015) to alter the final grades to allow, to the extent practical, relocation of waste identified outside of the permitted cell boundaries in the 2021 LOWI. The final grading and drainage plan remains consistent with the previously approved modifications, with no height or capacity increase over the maximum permitted landfill height or capacity, and no impact to off-site drainage. Final drainage patterns on the landfill cover will consist mostly of overland flow paths and shallow concentrated flow leading off the optimized ET cover landfill side slopes. Swales provide flow paths for internal watersheds to the existing landfill perimeter swales. Surface water runoff flows off the landfill into the existing shallow perimeter drainage swales that discharge to the natural flow patterns of the surrounding area, generally towards the southwest and southeast corners of the landfill.

Purpose of Change and Provision Under Which Modification is Sought

The purpose of the proposed changes to the previously approved optimized ET Final Cover System design is to revise the approved final contours and slopes, with no height or capacity increase over the maximum permitted height or capacity, and no impact to off-site drainage. Accordingly, permit modification is sought under Title 30 TAC §305.70(k)(9).

Permit Modification Application Organization and Structure

In accordance with Title 30 TAC §305.70(e), this permit modification application consists of a TCEQ Core Data form and a new TCEQ Part I form, a description of the proposed permit changes, revisions to existing applicable permit documents (including strikeout and clean copies), and an updated landowners map and landowners list as required under Title 30 TAC §330.59(c)(3). A matrix of changes to the permit package is presented following the Part I form to assist in the application review process.

This application is organized to follow the layout of the 2008 permit application, as revised in 2012 and 2015. Changes to elements of the 2008 permit application (as revised in 2012 and 2015) are identified as tracked changes and/or complete section revisions as applicable.

Application appendices which are revised include the following:

- Appendix B provides the updated landfill modification and closure design drawings.
- Appendix L provides the updated Facility Surface Water Drainage Report.

Appendix O provides revisions to the Final Closure Plan for the landfill.

1. Part I of the Application

1.1. Part I Permit Application

A Part I permit application form for revisions to the approved optimized Evapo-Transpiration (ET) alternative landfill closure design at the Fort Bliss Municipal Solid Waste Landfill (MSWLF) follows this page.

Facility Name: Fort Bliss Municipal Solid Waste Landfill
Permittee/Registrant Name: U.S. Army Air Defense Artillery and Fort Bliss
(USAADACENFB)
MSW Authorization #: 1422
Initial Submittal Date: **7/11/2022**
Revision Date:



Texas Commission on Environmental Quality

Permit/Registration Modification and Temporary Authorization Application Form for an MSW Facility

1. Reason for Submittal	
<input checked="" type="checkbox"/> Initial Submittal	<input type="checkbox"/> Notice of Deficiency (NOD) Response
2. Authorization Type	
<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Registration
3. Application Type	
<input checked="" type="checkbox"/> Modification with Public Notice	<input type="checkbox"/> Modification without Public Notice
<input type="checkbox"/> Temporary Authorization (TA)	<input type="checkbox"/> Modification for Name Change/Transfer
4. Application Fees	
<input type="checkbox"/> Pay by Check	<input checked="" type="checkbox"/> Online Payment
If paid online, enter ePay Trace Number:	
5. Application URL	
Is the application submitted for a permit/registration modification with public notice?	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If the answer is "Yes", enter the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted in the space provided:	
http://https://home.army.mil/bliss/index.php/about/Garrison/directorate-public-works/environmental	
6. Confidential Documents	
Does the application contain confidential documents?	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."	

7. General Facility Information

Facility Name: **Fort Bliss Municipal Solid Waste Landfill**
MSW Authorization No.: **1422**
Regulated Entity Reference No.: **RN100210095**
Physical or Street Address (if available): **[REDACTED]**
City: **Fort Bliss** County: **El Paso** State: **TX** Zip Code: **79916-0058**
(Area code) Telephone Number: **[REDACTED]**
Latitude: **[REDACTED]** Longitude: **[REDACTED]**

8. Facility Type(s)

- | | | |
|--|---|----------------------------------|
| <input checked="" type="checkbox"/> Type I | <input checked="" type="checkbox"/> Type IV | <input type="checkbox"/> Type V |
| <input type="checkbox"/> Type I AE | <input type="checkbox"/> Type IV AE | <input type="checkbox"/> Type VI |

9. Description of the Revisions to the Facility

Provide a brief description of all revisions to the permit/registration conditions and supporting documents referred by the permit/registration, and a reference to the specific provisions under which the modification/temporary authorization application is being made. Also, provide an explanation of why the modification/temporary authorization is requested: **A permit modification is being requested to revise the approved optimized evapotranspiration (ET) final cover system design for the final closure construction of the the Fort Bliss Landfill. The revisions include changes to the approved final contours and slopes (with no height or capacity increase over the maximum permitted height or capacity and no impact to off-site drainage) to allow, to the extent practical, relocation of waste identified outside of the permitted cell boundaries in the 2021 Limits of Waste Investigation and to maintain a three-foot cover thickness. This modification application is being made under Title 30 TAC §305.70(k)(9).**

Revisions which are being made to the permit conditions and supporting documents are presented in Table 1-1.

This section is intentionally left blank; please continue to the next page.

10. Facility Contact Information

Site Operator (Permittee/Registrant) Name: U.S. Army Fort Bliss

Customer Reference No. (if issued)*: **CN600126262**

Mailing Address: [REDACTED]

City: **Fort Bliss** County: **El Paso** State: **TX** Zip Code: **79916**

(Area Code) Telephone Number: [REDACTED]

Email Address: [REDACTED]

TX Secretary of State (SOS) Filing Number:

*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ 10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

Operator Name¹: Same as Site Operator (Permittee/Registrant)

Customer Reference No. (if issued)*:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address:

Charter Number:

¹If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ 10400) and submit it with this application. List the Operator as the customer.

Consultant Name (if applicable): [REDACTED].

Texas Board of Professional Engineers Firm Registration Number: [REDACTED]

Mailing Address: [REDACTED]

City: **El Paso** County: **El Paso** State: **TX** Zip Code: **79901**

(Area Code) Telephone Number: [REDACTED]

Email Address: [REDACTED]

Agent in Service Name (required only for out-of-state): N/A

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address:

11. Ownership Status of the Facility

Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee/Registrant)?

Yes No

If the answer is "No", skip this section.

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

Yes No

If "No", provide the information requested below for any additional ownership.

Owner Name:

Street or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address:

Charter Number: