

Administrative and Technical Review Checklist for Municipal Solid Waste (MSW) Permits, Registrations and Amendments

This checklist is designed to provide guidance for the Municipal Solid Waste (MSW) rules found in Title 30 Texas Administrative Code (30 TAC) Chapter 330, for Type I, IV and V registration, permit, and permit amendment applications. Areas of the checklist that are shaded in gray are for information purposes only.

Please fill out application information before selecting and filling out a checklist.

Applicant Information			
Company:	City of Del Rio		
First name:	Alberto	Last name:	Quintanilla
Applicant Title:	Public Works Director	Prefix:	
Street Address:	114 W Martin St.		
City:	Del Rio	State:	TX Zip code: 78840
Applicant E-Mail:	alberto.quintanilla@cityofdelrio.com		
Consultant Information			
First name:	Tewobsita	Last name:	Metaferia
Consultant Title:	Project Engineer	Prefix:	
Consultant Firm:	STV Inc.		
Consultant Address:	1820 Regal Row, Suite 200		
City:	Dallas	State:	TX Zip code: 75235
Consultant E-Mail:	tewobista.metaferia@stvinc.com		
Application Information			
Facility Name:	City of Del Rio Landfill		
Application Date	9/30/2023		
CN:	60756290	MSW ID:	207C
RN:	102FI HGII	Authorization Type:	Permit
County:	Val Verde	Application Type:	Permit Amendment

CITY OF CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION PART I FORM, CORE DATA FORM, & MAILING LABELS

Prepared for
City of Del Rio

September 2023

Prepared by
STV Inc.
TPBE Registration No. F-1741
1820 Regal Row, Suite 200
Dallas, TX 75235
214-638-0500



This document is intended for permitting purposes only.

CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION

TCEQ PART I APPLICATION FORM, CORE DATA FORM, AND MAILING LABELS

CONTENTS

PART I FORM

CORE DATA FORM

MAILING LABELS



PART I FORM



Texas Commission on Environmental Quality

Part I Application Form for New Permit, Permit Amendment, or Registration for a Municipal Solid Waste Facility

Application Tracking Information

Facility Name: City of Del Rio Landfill

Permittee or Registrant Name: City of Del Rio

MSW Authorization Number: 207B

Initial Submission Date: 09/30/2023

Revision Date: _____

Instructions for completing this Part I Application Form are provided in [TCEQ 00650-instr](#)¹. Include a [Core Data Form \(TCEQ 10400\)](#)² with the application for the facility owner, and another Core Data Form for the operator if different from the owner. If you have questions, contact the Municipal Solid Waste Permits Section by email to mswper@tceq.texas.gov, or by phone at 512-239-2335.

Application Data

1. Submission Type

☒ Initial Submission ☐ Notice of Deficiency (NOD) Response

2. Authorization Type

☒ Permit ☐ Registration

3. Application Type

☐ New Permit

☒ Permit Major Amendment ☐ Permit Limited Scope Major Amendment

☐ New Registration

¹ www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/00650-instr.pdf

² www.tceq.texas.gov/goto/coredata

4. Application Fee

Amount

- ☒ \$2,050—New Landfill Permits, and Landfill Permit Major Amendments Described in 30 TAC [305.62\(j\)\(1\)](#)
- ☐ \$150—Other Permits, Landfill Limited Scope Major Amendments, Permit Amendments for Storage and Processing Facilities, and Registrations

Payment Method

- ☐ Check
- ☒ Online through ePay portal www3.tceq.texas.gov/epay/

If paid online, enter ePay Trace Number: _____

5. Application URL

For applications other than those for arid exempt landfills, provide the URL address of a publicly accessible internet web site where the application and all revisions to the application will be posted.

<http://www.cpypermits.com>

6. Party Responsible for Publishing Notice

Indicate who will be responsible for publishing notice:

- ☒ Applicant ☐ Agent in Service ☐ Consultant

Contact Name: Alberto Quintanilla

Title: Public Works Director

Email Address: alberto.quintanilla@cityofdelrio.com

7. Alternative Language Notice

Use the Alternative Language Checklist on Public Notice Verification Form TCEQ-20244-Waste-NORI, TCEQ-20244-Waste-NAPD, or TCEQ-20244-Waste-NAORPM available at www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_notice.html to determine if an alternative language notice is required.

Is an alternative language notice required for this application?

- ☒ Yes ☐ No

Indicate the alternative language: Spanish

8. Public Place for Copy of Application

Name of the Public Place: Del Rio Public Works
Physical Address: 114 W Martin St.
City: Del Rio County: Val Verde State: TX Zip Code: 78840
Phone Number: (830)-774-8525

9. Consolidated Permit Processing

Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?

☐ Yes ☒ No

If "Yes", indicate the other TCEQ program authorizations requested:

10. Confidential Documents

Does the application contain confidential documents?

☐ Yes ☒ No

If "Yes", reference the confidential documents in the application, but submit the confidential documents as an attachment in a separate binder marked "CONFIDENTIAL."

11. Permits and Construction Approvals

Mark the following table to indicate status of other permits or approvals.

Table 1. Permits and Construction Approvals.

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under Texas Solid Waste Disposal Act			X
Underground Injection Control Program under Texas Injection Well Act			X
National Pollutant Discharge Elimination System Program under Clean Water Act; Waste Discharge Program under Texas Water Code, Chapter 26	X		
Prevention of Significant Deterioration Program under Federal Clean Air Act (FCAA); Nonattainment Program under the FCAA			X
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA			X

Permit or Approval	Received	Pending	Not Applicable
Ocean Dumping Permits under Marine Protection Research and Sanctuaries Act			X
Dredge or Fill Permits under Clean Water Act			X
Licenses under the Texas Radiation Control Act			X
Other (describe): TCEQ Air Quality Permit/Registration	X		
Other (describe):			

12. Facility General Information

Facility Name: City of Del Rio Landfill

Contact Name: John A. Sheedy IV Title: City Manager

MSW Authorization Number (if existing): 207C

Regulated Entity Reference Number: **RN** 102143294

Physical or Street Address (if available): 1897 Railway Ave.

City: Del Rio County: Val Verde State: TX Zip Code: 78840

Phone Number: 830-774-8525

Latitude (Degrees, Minutes Seconds): 29° 21' 20.4241"

Longitude (Degrees, Minutes Seconds): -100° 51' 13.9300"

Benchmark Elevation (above mean sea level): 1051.10 feet

Description of facility location with respect to known or easily identifiable landmarks:

The landfill is located south of US-90, approximately 2.5 miles west of the intersection of US-90 and Loop 79, and approximately 2.25 miles east of the intersection of US-90 and US-277. The site entrance is located on Railway Ave after the intersection of S Longoria St and E Virginia St.

Access routes from the nearest United States or state highway to the facility:

The site is accessed via US-90. US-90 intersects E Bowie St, northwest of the landfill. From this intersection, vehicles will travel southwest on E Bowie St to S Longoria St and travel east on S Longoria St. In approximately 500 feet the road S Longoria St becomes the site entrance road Railway Ave to the facility.

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

☐ Yes ☒ No

13. Facility Types

- ☒ Type I ☐ Type IV ☐ Type V
☐ Type IAE ☐ Type IVAE ☐ Type VI

14. Activities Conducted at the Facility

- ☐ Storage ☐ Processing ☒ Disposal

15. Facility Waste Management Units

Check the box for each type of waste management unit proposed.

- | | |
|--|---|
| <input checked="" type="checkbox"/> Landfill Unit(s) | <input type="checkbox"/> Container(s) |
| <input type="checkbox"/> Incinerator(s) | <input type="checkbox"/> Roll-off Boxes |
| <input type="checkbox"/> Class 1 Landfill Unit(s) | <input type="checkbox"/> Surface Impoundment |
| <input type="checkbox"/> Process Tank(s) | <input type="checkbox"/> Autoclave(s) |
| <input type="checkbox"/> Storage Tank(s) | <input type="checkbox"/> Refrigeration Unit(s) |
| <input type="checkbox"/> Tipping Floor | <input type="checkbox"/> Mobile Processing Unit(s) |
| <input type="checkbox"/> Storage Area | <input type="checkbox"/> Compost Pile(s) or Vessel(s) |
| <input type="checkbox"/> Other (specify): | |

16. Description of Proposed Facility or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or permit conditions if the application is for an amendment.

The purpose of this Major Amendment is to obtain authorization for an expansion of the existing Del Rio Municipal Landfill, TCEQ Permit No. MSW-207B. The existing permit boundary and limit of waste will be expanded from 105.6 acres to 180.6 acres and 79 acres to 110.3 acres, respectively. In addition, the top deck of the landfill will be increased from 1113 ft-msl to 1124 ft-msl. This landfill expansion will extend the disposal needs the City of Del Rio and the surrounding areas in Val Verde County.

17. Facility Contact Information

Site Operator (Permittee or Registrant)

Name: City of Del Rio Landfill
Customer Reference Number: **CN** 600756290
Contact Name: John A. Sheedy IV Title: City Manager
Mailing Address: 114 W. Martin St.
City: Del Rio County: Val Verde State: TX Zip Code: 78840
Phone Number: (830)-774-8525
Email Address: john.sheedy@cityofdelrio.com
Texas Secretary of State (SOS) Filing Number: _____

Operator (if different from Site Operator)

Name: Platform Waste Solutions LLC
Customer Reference Number: **CN** 606151371
Contact Name: Tim Giardina Title: COO
Mailing Address: 833 SW Lemans
City: Lee Summit County: Jackson State: MO Zip Code: 64082
Phone Number: 614-593-1852
Email Address: tim@platform-waste.com
Texas Secretary of State (SOS) Filing Number: 804609048

Consultant (if applicable)

Firm Name: STV Inc.
Consultant Name: STV Inc.
Texas Board of Professional Engineers Firm Registration Number: F-1741
Contact Name: Tewobista Metaferia, P.E. Title: Project Manager
Mailing Address: 1820 Regal Row, Suite 200
City: Dallas County: Dallas State: TX Zip Code: 75235
Phone Number: (214)-589-6944
Email Address: tewobista.metaferia@stvinc.com

Agent in Service (required for out-of-state applicants)

Name: Not Applicable
Mailing Address: _____
City: _____ County: _____ State: TX Zip Code: _____
Phone Number: _____
Email Address: _____

18. Facility Supervisor License

Indicate the level of Municipal Solid Waste Facility Supervisor license, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, Subchapter F that the individual who supervises or manages the operations will obtain prior to commencing operations.

☒ Class A Supervisor License ☐ Class B Supervisor License

19. Ownership Status of the Facility

Business Type

- | | |
|---|---|
| <input type="checkbox"/> Corporation | <input type="checkbox"/> County Government |
| <input type="checkbox"/> Individual | <input type="checkbox"/> State Government |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> Federal Government |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> Limited Partnership | <input type="checkbox"/> Military |
| <input checked="" type="checkbox"/> City Government | <input type="checkbox"/> Other (specify): _____ |

Facility Owner

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

☒ Yes ☐ No

If "No", provide the following information for other owners.

Owner Name: _____

Mailing Address: _____

City: _____ County: _____ State: TX Zip Code: _____

Phone Number: _____

Email Address: _____

20. Other Government Entities Information

Texas Department of Transportation

District: Laredo

District Engineer's Name: Epigmenio "Epi" Gonzalez, P.E.

Mailing Address: 1817 Bob Bullock Loop

City: Laredo County: Webb State: TX Zip Code: 78043

Phone Number: (956)-712-7402

Email Address: _____

Local Government Authority Responsible for Road Maintenance (if applicable)

Government or Agency Name: City of Del Rio
Contact Person's Name: Gilbert Macias
Mailing Address: 103 W. Gibbs
City: Del Rio County: Val Verde State: TX Zip Code: 78840
Phone Number: (830)-774-8632
Email Address: _____

City Mayor Information

City Mayor's Name: Al Arreola
Mailing Address: 109 W. Broadway
City: Del Rio County: Val Verde State: TX Zip Code: 78840
Phone Number: (830)-774-8790
Email Address: delriomayor@cityofdelrio.com

City Health Authority

Authority Name: Not Applicable
Contact Person's Name: _____
Mailing Address: _____
City: _____ County: _____ State: TX Zip Code: _____
Phone Number: _____
Email Address: _____

County Judge Information

County Judge's Name: Lewis Owens
Mailing Address: 400 Pecan St.
City: Del Rio County: Val Verde State: TX Zip Code: 78840
Phone Number: (830)-774-7501
Email Address: lowens@valverdecountry.texas.gov

County Health Authority

Agency Name: Health Department/Risk Management
Contact Person's Name: Carlos Velarde, P.E.
Mailing Address: 400 Pecan St., 3rd Floor
City: Del Rio County: Val Verde State: TX Zip Code: 78840
Phone Number: (830)-774-7569
Email Address: cvelarde@valverdecountry.texas.gov

State Representative Information

District Number: 74
State Representative's Name: Eddie Morales
District Office Mailing Address: 352 Hillcrest Blvd.
City: Eagle Pass County: Maverick State: TX Zip Code: 78852
Phone Number: (830)-513-1457
Email Address: _____

State Senator Information

District Number: 19
State Senator's Name: Roland Gutierrez
District Office Mailing Address: P.O. Box 12068 Capital Station
City: Austin County: Travis State: TX Zip Code: 78711
Phone Number: (210)-532-2758
Email Address: Roland.Gutierrez@senate.texas.gov

Council of Governments (COG)

COG Name: Middle Rio Grande Development Council
COG Representative's Name: Nick Gallegos
COG Representative's Title: Executive Director
Mailing Address: P.O. Box 1199
City: Carrizo Springs County: Val Verde State: TX Zip Code: 78834
Phone Number: (830)-876-3533
Email Address: nick.gallegos@mrgdc.org

River Basin Authority

Authority Name: Rio Grande Regional Water Authority
Contact Person's Name: _____
Watershed Sub-Basin Name: Middle Rio Grande Sub-Basin
Mailing Address: 322 S. Missouri Ave.
City: Weslaco County: _____ State: TX Zip Code: 78596
Phone Number: 956-968-3141
Email Address: _____

U.S. Army Corps of Engineers District

Indicate the U.S. Army Corps of Engineers district in which the facility is located:

- | | |
|---|--|
| <input type="checkbox"/> Albuquerque, NM | <input type="checkbox"/> Galveston, TX |
| <input checked="" type="checkbox"/> Ft. Worth, TX | <input type="checkbox"/> Tulsa, OK |

Local Government Jurisdiction

Within City Limits of: Del Rio

Within Extraterritorial Jurisdiction of: _____

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing, or disposal of municipal or industrial solid waste?

☐ Yes ☒ No

If "Yes", provide a copy of the ordinance or order as an attachment.

Signature Page

Site Operator or Authorized Signatory

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____ Title: _____

Email Address: _____

Signature: _____ Date: _____

Operator or Principal Executive Officer Designation of Authorized Signatory

To be completed by the operator if the application is signed by an authorized representative for the operator.

I hereby designate _____ as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Operator or Principal Executive Officer Name: _____

Email Address: _____

Signature: _____ Date: _____

Notary

SUBSCRIBED AND SWORN to before me by the said _____

On this ____ day of _____, ____

My commission expires on the ____ day of _____, ____

Notary Public in and for

_____ County, Texas

Note: Application Must Bear Signature & Seal of Notary Public

Part I Attachments

Refer to instruction document 00650-instr for professional engineer seal requirements.

Attachments Table 1. Required attachments.

Required Attachments	Attachment Number
Supplementary Technical Report	
Property Legal Description	
Property Metes and Bounds Description	
Facility Legal Description	
Facility Metes and Bounds Description	
Metes and Bounds Drawings	
On-Site Easements Drawing	
Land Ownership Map	
Landowners List	
Mailing Labels (printed and electronic)	
Texas Department of Transportation (TxDOT) County Map	
General Location Map	
General Topographic Map	
Verification of Legal Status	
Property Owner Affidavit	
Evidence of Competency	

Attachments Table 2. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input checked="" type="checkbox"/> TCEQ Core Data Form(s)	
<input type="checkbox"/> Signatory Authority Delegation	
<input checked="" type="checkbox"/> Fee Payment Receipt	
<input type="checkbox"/> Confidential Documents	
<input type="checkbox"/> Waste Storage, Processing and Disposal Ordinances	
<input type="checkbox"/> Final Plat Record of Property	

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
<input type="checkbox"/> Certificate of Fact (Certificate of Incorporation)	
<input type="checkbox"/> Assumed Name Certificate	
Other (describe):	
Other (describe):	
Other (describe):	

CORE DATA FORM



TCEQ Core Data Form

For detailed instructions on completing 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 Major Permit Amendment
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 600756290		RN 102143294

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 Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Del Rio					
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 checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:		114 W. Martain St			
City		Del Rio	State	TX	ZIP 78840 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, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
City of Del Rio Landfill								
23. Street Address of the Regulated Entity: (No PO Boxes)	1897 Railway Rd							
	City	Del Rio	State	TX	ZIP	78840	ZIP + 4	
24. County								

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:									
26. Nearest City					State				Nearest ZIP Code
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>									
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)			
4953									
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)									
Disposal of waste									
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 checked="" 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 type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Tewobista Metaferia			41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(214) 589-6944		(214) 638-3723	tewobista.metaferia@stvinc.com		

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:	City of Del Rio		Job Title:	Public Works Director	
Name (In Print):	Alberto Quintanilla			Phone:	(830) 774- 8525
Signature:				Date:	

MAILING LABELS

CITY OF CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION PART I/II – GENERAL APPLICATION REQUIREMENTS

Prepared for
City of Del Rio

September 2023

Prepared by
STV Inc.

TPBE Registration No. F-1741
1820 Regal Row, Suite 200
Dallas, TX 75235
214-638-0500



This document is intended for permitting purposes only.

TABLE OF CONTENTS

LIST OF ACRONYMS.....	.... I/II-iv
1.0 INTRODUCTION .....	.... I/II-1
2.0 SUPPLEMENTARY TECHNICAL REPORT .....	.... I/II-2
2.1 Facility Location and Project Overview.....	.... I/II-2
2.1.1 Site Location .....	.... I/II-2
2.1.2 Owner and Operator .....	.... I/II-2
2.1.3 Major Permit Amendment Summary .....	.... I/II-2
2.1.4 Waste Acceptance Plan .....	.... I/II-2
2.1.5 Disposal Rate and Volume of Waste .....	.... I/II-3
2.1.6 Solid Waste Containment System .....	.... I/II-5
2.1.7 Site Development Plan .....	.... I/II-5
2.1.8 Site Monitoring Systems.....	.... I/II-6
2.1.9 Site Operations .....	.... I/II-6
2.2 Regulatory Agency Coordination .....	.... I/II-6
2.3 Texas Historical Commission Review .....	.... I/II-7
2.4 Middle Rio Grande Development Council .....	.... I/II-7
2.5 Abandoned Oil and Water Wells .....	.... I/II-7
2.6 Internet Posting .....	.... I/II-8
2.7 Existing Permits/Authorizations .....	.... I/II-8
3.0 EXISTING CONDITIONS SUMMARY	I/II-10
3.1 Site History.....	.... I/II-10
3.2 Existing Liner System .....	.... I/II-10
3.3 Landfill Gas Monitoring System .....	.... I/II-10
3.4 Groundwater Monitoring System.....	.... I/II-10
4.0 MAPS	I/II-11
5.0 PROPERTY OWNERS LIST AND MAP	I/II-12
6.0 AERIAL PHOTOGRAPH	I/II-15
7.0 LAND USE	I/II-16
7.1 Character of Surrounding Land and Land Use .....	.... I/II-16
7.2 Location and Zoning.....	.... I/II-16
7.3 Surrounding Land Use.....	.... I/II-16
7.4 Growth Trends of the Nearest Communities.....	.... I/II-16
7.5 Proximity to Residences and Other Uses.....	.... I/II-17
7.6 Land Use Conclusions .....	.... I/II-17
7.7 Water Wells Within 500 Feet.....	.... I/II-17
8.0 TRANSPORTATION	I/II-18
8.1 Traffic Information.....	.... I/II-18



8.1.1	Availability and Adequacy of Roads	I/II-18
8.2	Airport Impact.....	I/II-19
9.0	GENERAL GEOLOGY AND SOILS STATEMENT	I/II-20
9.1	Geology and Soils.....	I/II-20
9.2	Fault Lines	I/II-20
9.3	Seismic Impact Zone	I/II-20
9.4	Unstable Areas.....	I/II-20
10.0	GROUNDWATER AND SURFACE WATER STATEMENT	I/II-22
10.1	Groundwater Statement.....	I/II-22
10.2	Surface Water Statement	I/II-22
11.0	FLOODPLAINS AND WETLANDS STATEMENT	I/II-23
11.1	Floodplains Statement.....	I/II-23
11.2	Wetlands Statement.....	I/II-23
12.0	PROTECTION OF ENDANGERED SPECIES	I/II-24
13.0	LEGAL DESCRIPTION.....	I/II-25
14.0	PROPERTY OWNER AFFIDAVIT.....	I/II-30
15.0	LEGAL AND SIGNATORY AUTHORITY.....	I/II-32
16.0	EVIDENCE OF COMPETENCY	I/II-34
16.1	Experience.....	I/II-34
16.2	City of Del Rio Landfill Key Personnel	I/II-34
16.2.1	John A. Sheedy IV, City Manager	I/II-35
16.2.2	Alberto Quintanilla P.E., Public Works Director/City Engineer	I/II-35
16.2.3	Rene Maldonado, Landfill Coordinator	I/II-35
16.2.4	Tim Giardina, Platform Waste Solution LLC COO (Landfill Contractor).....	I/II-35
16.3	Equipment.....	I/II-36

APPENDIX I/IIA: FACILITY LAYOUT FIGURES

APPENDIX I/IIB: COORDINATION DEMONSTRATION

APPENDIX I/IIC: LOCATION RESTRICTION DEMONSTRATION

APPENDIX I/IID: TPDES PERMIT

APPENDIX I/IIIE: WASTE ACCEPTANCE PLAN



LIST OF TABLES

Table 2-1 Waste Disposal Capacity Summary	I/II-4
Table 2-2 Waste Inflow Summary	I/II-4
Table 2-3 Projected Maximum Annual Waste Acceptance	I/II-5
Table 2-4 Existing Permits/Authorizations.....	I/II-9
Table 5-1 Property Owners List.....	I/II-13
Table 5-2 Easement Holders Associated within The Permit Boundary	I/II-14
Table 7-1 Population Growth Trends.....	I/II-17
Table 8-1 Traffic Growth Trends	I/II-18

LIST OF FIGURES

Figure I&II 1.1 Existing Site Plan
Figure I&II 2.1 Permitted and Proposed Landfill Completion Plan
Figure I&II 2.2 Permitted and Proposed Landfill Excavation Plan
Figure I&II 3.1 Permitted Final Cover Plan
Figure I&II 3.2 Permitted Excavation Plan
Figure I&II 4.1 Site Location Map
Figure I&II 4.2 General Topographic Map
Figure I&II 4.3 Structures and Inhabitable Building within 500 Feet
Figure I&II 5.1 Property Owners Map
Figure I&II 6.1 Aerial Photograph
Figure I&II 7.1 Land Use Map-Aerial
Figure I&II 7.2 Land Use Map
Figure I&II 7.3 Cities within 5 Mile Radius
Figure I&II 7.4 Water Well Map
Figure I&II 7.5 Zoning Map
Figure I&II 8.1 Area Airports
Figure I&II 11.1 Flood Insurance Rate Map (FIRM)



LIST OF ACRONYMS

BMPs - Best Management Practices

CFR - Code of Federal Regulations

CLOMR - Conditional Letter of Map Revision

CWA - Clean Water Act

EDE - Elevation of Deepest Excavation

EPA - Environmental Protection Agency

ETJ - Extra Territorial Jurisdiction

FAA - Federal Aviation Administration

FEMA - Federal Emergency Management Agency

FIRM - Flood Insurance Rate Map

FT-MSL - Feet Above Mean Sea Level

FWS - U.S. Fish and Wildlife Service

GWSAP - Groundwater Sampling and Analysis Plan

HDPE - High Density Polyethylene

LCS - Leachate Collection System

LFG - Landfill Gas

LLDPE - Linear Low-Density Polyethylene

LQCP - Liner Quality Control Plan

MRGDC – Middle Rio Grande Development Council

MSGP - Multi-Sector General Permit

MSW - Municipal Solid Waste

MW - Monitoring Well

NAVD - North American Vertical Datum

NESHAP - National Emissions Standards for Hazardous Air Pollutants

NGVD - National Geodetic Vertical Datum

NFIP - National Flood Insurance Program

NOI - Notice of Intent

NSPS/EG - New Source Performance Standards/Emission Guidelines

NWP - Nationwide Permit

PCBs - Polychlorinated Biphenyls

PI - Point of Intersection

POC - Point of Compliance

POTW - Publicly Owned Treatment Works

PSD - Prevention of Significant Deterioration

PVI - Point of Vertical Intersection

QA/QC - Quality Assurance/Quality Control

SDP - Site Development Plan

SLER - Soils and Liner Evaluation Report

SOP - Site Operating Plan

TAC - Texas Administrative Code

TCEQ - Texas Commission on Environmental Quality

TDSHS - Texas Department of State Health Services

THC - Texas Historical Commission

TPDES - Texas Pollutant Discharge Elimination System

TPWD - Texas Parks and Wildlife Department

TWC - Texas Water Commission

TWDB - Texas Water Development Board

TxDOT - Texas Department of Transportation

USDA - U.S. Department of Agriculture

USACE - U.S. Army Corps of Engineers

USGS - U.S. Geological Survey

1.0 INTRODUCTION

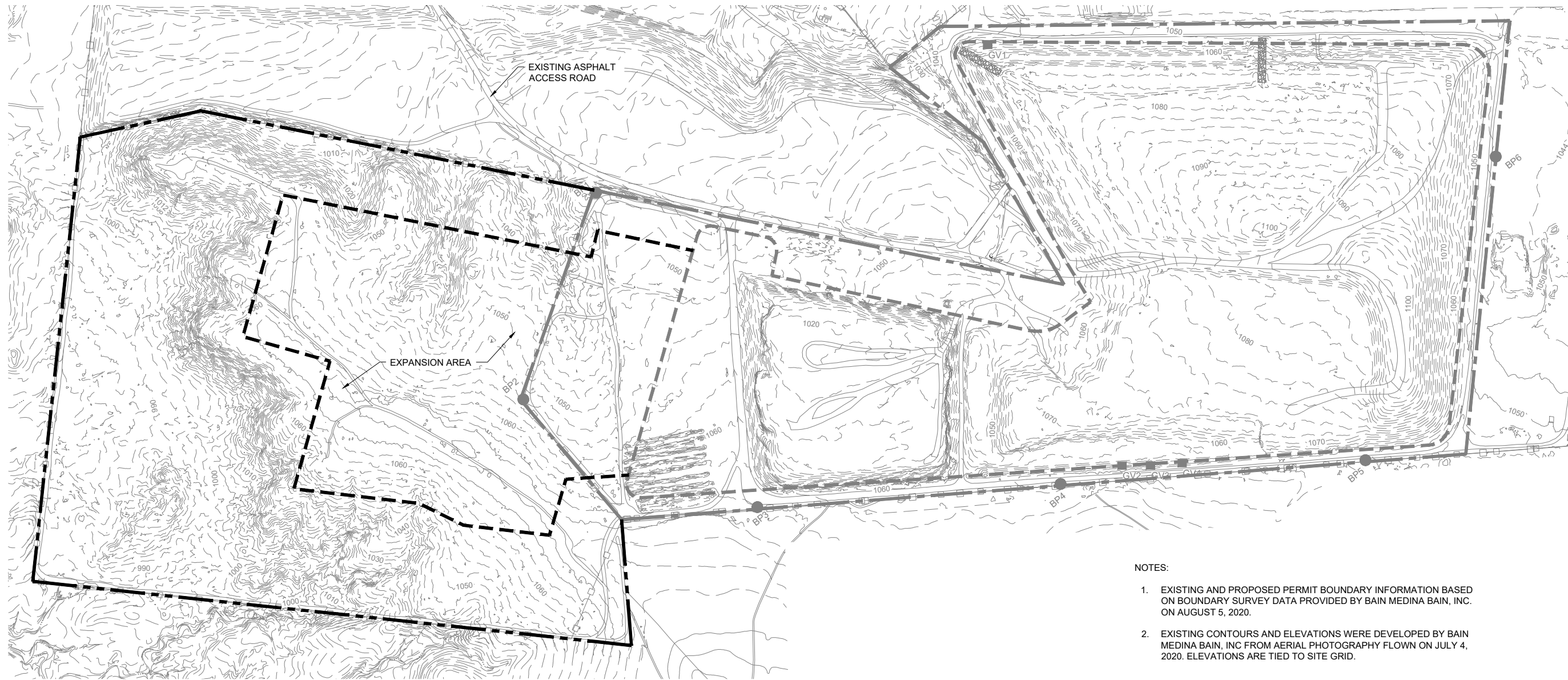
This Major Permit Amendment is prepared to obtain authorization to expand the existing City of Del Rio Landfill. The expansion will increase the existing 105.6-acre permit boundary by 75.0 acres to 180.6 acres. The permitted limit of waste will be expanded by 31.3 acres from approximately 79.0 acres to approximately 110.3 acres. The Existing Site Plan, Figure I/II-1.1, shows the permitted and proposed permit boundaries and limits of waste.

The City of Del Rio Landfill has provided for the municipal solid waste (MSW) disposal needs of the City of Del Rio and surrounding areas for over 30 years. The City has constructed all the permitted cells at the site and will not have any solid waste units after the open cell reaches capacity. This expansion will increase the maximum permitted final cover elevation from 1113 ft-msl to 1124 ft-msl. The resulting capacity increase is approximately 3.65 million cubic yards. This major permit amendment will ensure that the disposal needs of the City of Del Rio and surrounding areas will continue to be met in the future.

The General Application Requirements section (Parts I/II) of this permit amendment application for the City of Del Rio Landfill has been prepared consistent with the requirements set forth in Title 30 Texas Administrative Code (TAC) §330.59, §330.61 and §305.45. Part II has been combined with Part I in accordance with Title 30 TAC §330.57(c)(2) and contain the following:


- An overview of the project,
- Detailed facility description,
- Types of waste that will be accepted at the facility,
- Specific existing conditions on and around the site, and
- Regulatory matters related to the application process.

PRINTED BY: Metaferia T
DATE: 9/21/2023
FILE PATH: C:\pwworking\stvw_stvgjohnson\0942002\DELR2000302 Figure I&II-1.1.dwg





- NOTES:
1. EXISTING AND PROPOSED PERMIT BOUNDARY INFORMATION BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
 2. EXISTING CONTOURS AND ELEVATIONS WERE DEVELOPED BY BAIN MEDINA BAIN, INC FROM AERIAL PHOTOGRAPHY FLOWN ON JULY 4, 2020. ELEVATIONS ARE TIED TO SITE GRID.

FOR PERMITTING PURPOSES ONLY



TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741





09/31/2023

NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL	
	DRAWING VERIFY LENGTH ON THIS SHEET	0 1" AND ADJUST SCALE ACCORDINGLY.	

CITY OF DEL RIO LANDELL NO. 207C
MAJOR PERMIT AMENDMENT

EXISTING SITE PLAN

DESIGN: T. METAFERIA

DRAWN: T. METAFERIA

REVIEW: B. HINDMAN

CP&Y: DELR200302

CLIENT: CITY OF DEL RIO

FIGURE

I/II 1.1

2.0 SUPPLEMENTARY TECHNICAL REPORT

2.1 Facility Location and Project Overview

2.1.1 Site Location

The City of Del Rio Landfill is an existing Type I MSW facility. The landfill is located in the City of Del Rio in Val Verde County, Texas. The site entrance is located at 1897 Railroad Avenue, approximately 2.5 miles west of the intersection of US-90 and Loop 79.

2.1.2 Owner and Operator

The existing landfill is owned by the City of Del Rio (City) and operated by Platform Waste Solution, LLC. For over 35 years, the landfill has been a part of the community and is the main recipient of waste from the residents and businesses in the City of Del Rio and surrounding areas. The landfill does not have delinquent fees related to the TCEQ.

2.1.3 Major Permit Amendment Summary

The purpose of this Major Permit Amendment is to obtain authorization to expand the existing City of Del Rio Landfill. Comparisons between (1) the existing permitted and proposed landfill completion plans and (2) the existing permitted excavation plan are shown on Figure I/II-2.1 and Figure I/II-2.2, respectively.

The facility serves residences and businesses in the City and surrounding counties. In addition, the landfill accepts waste from municipal, private, and public haulers from surrounding communities and counties. This service area is based on current economic conditions.

The quantity and types of waste accepted at the landfill and the site design and operations are discussed in the following subsections. Consistent with Title 30 TAC §330.61(b), the sources and characteristics of wastes are detailed in the following sections. In addition, waste screening and acceptance procedures are further discussed in Part IV - SOP. The types of waste to be accepted for disposal per TCEQ Permit No. MSW-207C will be the same as those currently accepted at the site.

2.1.4 Waste Acceptance Plan

The City of Del Rio Landfill is currently operated as a Type I municipal solid waste disposal facility. The facility accepts waste for disposal from both public and private entities in and around the City of Del Rio. The proposed expansion of the site will not alter the current service area of the site. The design and operation of the facility considers the characteristics of the waste types discussed in the Waste Acceptance Plan Form included in Appendix I/II-E.

The major classifications of solid waste to be accepted at the City of Del Rio Landfill include municipal solid waste, household waste, yard waste, commercial waste, industrial waste (nonhazardous), construction-demolition waste, and some special wastes. Each classification of waste is defined by Title 30 TAC §330.3 as follows (note that not all of the special wastes listed in §330.3(148) will be accepted at this site - refer to Part IV for additional information):

- **Municipal Solid Waste:** Solid waste resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.

-
-
- Household Waste: Any solid waste (including garbage, trash, and sanitary waste in septic tanks) derived from households (including single and multiple residences, hotels, motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas); does not include brush.
 - Yard Waste: Leaves, grass clippings, yard and garden debris, and brush, including clean woody vegetative material not greater than 6 inches in diameter, that results from landscaping maintenance and land-clearing operations. The term does not include stumps, roots, or shrubs with intact root balls.
 - Commercial Solid Waste: All types of solid waste generated by stores, offices, restaurants, warehouses, and other non-manufacturing activities, excluding residential and industrial wastes.
 - Industrial Waste (Nonhazardous): Solid waste resulting from or incidental to any process of industry or manufacturing, or mining or agricultural operations, classified as follows:
 - Class 2 Industrial Solid Waste - any individual solid waste or combination of industrial solid waste that are not described as Class 1 or Class 3 as defined in Title 30 TAC §335.506 (relating to Class 2 Waste Determination).
 - Class 3 Industrial Solid Waste - inert and essentially insoluble industrial solid waste, usually including, but not limited to, materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable, as further defined in Title 30 TAC §335.507 (relating to Class 3 Waste Determination).
 - Construction-Demolition Waste: Waste resulting from construction or demolition projects; includes all materials that are directly or indirectly the by-products of construction work or that result from demolition of buildings and other structures, including but not limited to, paper, cartons, gypsum board, wood, excelsior, rubber, and plastics.
 - Special Waste: Any solid waste or combination of solid wastes that because of its quantity, concentration, physical or chemical characteristics, or biological properties requires special handling and disposal to protect human health or the environment. If improperly handled, transported, stored, processed, or disposed of or otherwise managed, it may pose a present or potential danger to human health or the environment. Refer to Part IV of the application for additional information regarding the acceptance of special waste.

Consistent with Title 30 TAC §330.15, the facility will not accept for disposal liquid waste, regulated hazardous waste, prohibited PCBs, untreated medical waste, and other wastes prohibited by TCEQ regulations.

Waste will only be disposed of in the 110.3-acre proposed solid waste disposal area listed in this permit application. No other waste disposal activities will occur within the 180.6-acre City of Del Rio Landfill permit boundary.

2.1.5 Disposal Rate and Volume of Waste

This section details the volume of waste disposal capacity and the projected disposal rates for the City of Del Rio Landfill. The waste disposal capacity of the site is summarized in Table 2-1.

Table 2-1 Waste Disposal Capacity Summary

Item	Disposal Capacity*	
	Permitted	Permit No. MSW-207C
Consumed Airspace	27,389,439 cy	27,389,439 cy
Remaining Airspace	1,988,178 cy	1,988,178 cy
Airspace Gained by Expansion	---	3,657,984 cy
Total Capacity	29,377,617 cy	33,035,601 cy

*Disposal capacity is defined as waste and daily cover. The consumed airspace represents the waste that has been placed at the site as of January 20, 2023.

Two estimates have been developed to provide an assessment of the solid waste disposal rate for the City of Del Rio Landfill. The first estimate is based on the project population growth for the City and Val Verde County, both currently and after the permit is issued. A second estimate was completed based on historical waste inflow data. The projection based on historical data is provided for informational purposes and is not considered in any calculation or demonstration in this application. All calculations provided in the application are based only on the population projections.

The disposal rate projections are discussed in detail in Appendix IIIB and summarized in Table 2-2.

Table 2-2 Waste Inflow Summary

Method Used to Determine Solid Waste Generation Rate	Initial Waste Inflow	Average Daily Projected Waste Inflow	Maximum Projected Waste Inflow	Population Equivalent (persons)	Site Life (years)
Population Projection	47,067 tons/year 152 tons/day	60,486 tons/year 196 tons/day	72,967 tons/year 236 tons/day	66,286	44.6
Historical Data	47,067 tons/year 152 tons/day	63,174 tons/year 204 tons/day	76,752 tons/year 248 tons/day	69,231	44.1

Currently, the City of Del Rio Landfill accepts approximately 152 tons/day (47,067 tons per year), based on the 2022 TCEQ Annual Report. The waste inflow rate is assumed to increase consistent with the projected growth rate for the facility's general service area, which for this analysis is assumed to be the City of Del Rio and Val Verde County.

Operating criteria for a range of waste acceptance rates are included in Part IV – SOP. These waste acceptance rates are not a limiting parameter of this permit. The actual yearly waste acceptance rate is a rolling quantity based on the sum of the previous four quarters of waste acceptance (refer to Part IV – SOP for additional information).

The projected waste acceptance rate for other years is summarized in Part III, Appendix IIIB. The site's estimated maximum annual waste acceptance rate for 7 years is shown below.

Table 2-3 Projected Maximum Annual Waste Acceptance

Year	Waste Acceptance Rate (tons per year)
2063	70,364
2064	70,877
2065	71,394
2066	71,914
2067	72,439
2068	72,967

2.1.6 Solid Waste Containment System

The containment system is comprised of the final cover, Subtitle D liner, overliner, and the leachate management system. The main objective of the containment system is to isolate the solid waste and remove leachate that may have collect on the liner. Leachate is defined as a liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste. The proposed Subtitle D liner in the expansion area consists of 2 feet of compacted clay liner and drainage geocomposite. The permitted overliner system will separate the existing waste in the pre-subtitle D waste disposal area and will consist of a geosynthetic clay liner, a 40-mill LLDPE geomembrane liner, and a drainage geocomposite layer. Design information and the required QA/QC construction procedures for the individual components of the containment system are presented in Part III of this application.

2.1.7 Site Development Plan

The site development plan (SDP) is included in Part III of this application. This plan sets forth the overall design and operating characteristics of the landfill. Drawings showing the proposed landfill configuration during site development are presented in Parts I/II, Appendix I/IIA - Facility Layout Maps. A summary of the landfill configuration is provided below.

- The proposed permit boundary (MSW-207C) for the site is 180.6 acres. The legal description for the proposed permit boundary is included in Section 13 of Parts I/II.
- A summary of the capacity (volume of waste and cover soils) of the site is listed below:
 - Remaining capacity of existing site = 1,988,178 cubic yards (as of January 20, 2023).
 - Increase due to major permit amendment application = 3.65 million cubic yards.
- Remaining capacity of the site with the proposed expansion (TCEQ Permit No. MSW-207C) = 5.64 cubic yards (as of January 20, 2023).
- The maximum elevation of the final cover will be 1124 ft-msl, and the maximum waste elevation will be 1120.5 ft-msl.
- The deepest elevation of excavation is 1007 ft-msl. The minimum elevation of the proposed landfill liner system is 1009 ft-msl and is located in the deepest sump. This elevation represents the top of the liner system.

-
- A Subtitle D clay liner (2-foot-thick compacted clay liner overlain by a leachate collection system will be constructed according to Title 30 TAC §330.331(a)(2) and §330.333. Details for the liner and LCS are provided in Part III, Appendix IIIA-A - Liner and Final Cover System Details.
 - Above grade waste disposal will conform to the lines and grades set forth in Appendix I/IIA, Landfill Completion Plan Drawing. Side fill slopes will not exceed 25 percent from the toe of the side embankment to the top of the side embankment. The slope of the landfill top deck will be constructed at a five percent maximum slope.
 - A final cover system will be constructed over the filled waste material, as shown in Part III, Appendix IIIA-A - Liner and Final Cover System Details. The final cover system is designed to minimize stormwater infiltration.

2.1.8 Site Monitoring Systems

To verify the integrity of the environmental protection systems, the following existing landfill monitoring systems have been installed and/or maintained.

- Landfill Gas Monitoring System - The purpose of the landfill gas monitoring system is to monitor and verify that landfill gas does not migrate off-site. The existing approved landfill gas monitoring system consists of six gas probes located along the existing permit boundary. The existing probes will be plugged and abandoned, and eighteen probes will be added. The landfill gas monitoring system is discussed in more detail in Part III, Appendix IIIM.
- Surface Water Monitoring Requirements - The City of Del Rio Landfill is subject to TCEQ stormwater permit requirements. City of Del Rio Landfill has secured coverage under the Texas Pollutant Discharge Elimination System (TPDES) general permit. The City maintains a current stormwater pollution prevention plan prepared consistent with multi-sector general permit (TXR05BY31). TCEQ approval for the existing TPDES is included in Appendix I/IID. Surface water monitoring will be conducted consistent with TPDES requirements.

2.1.9 Site Operations

The City of Del Rio Landfill is now and will continue to be operated by trained and TCEQ-certified personnel. The Site Operating Plan (SOP) for the City of Del Rio Landfill is presented in Part IV of this permit application. The operating plan details the equipment, personnel, and safety procedures required to operate the site in accordance with Title 30 TAC §330.65. The active landfill area will be covered each evening with soil or an approved ADC to prevent potential nuisance conditions such as odors and vectors. The City of Del Rio Landfill will continue to be inspected by the TCEQ on a regular basis for compliance with state regulations.

As discussed in Part IV - SOP, the site will have the option to operate and accept waste six days per week. Refer to Part IV - SOP for more information.

2.2 Regulatory Agency Coordination

Documentation of coordination with the following regulatory agencies is included in Appendix I/IIB:

- Federal Aviation Administration
- Texas Historical Commission
- Texas Department of Transportation

-
- Texas Parks and Wildlife Department
 - U.S. Army Corps of Engineers
 - U.S. Department of the Interior, Fish and Wildlife Service
 - Middle Rio Grande Development Council

2.3 Texas Historical Commission Review

As noted in Section 2.2, a THC coordination letter is included in Appendix I/IIB. The THC concluded that no historic properties will be affected by the proposed expansion. The expansion of the City of Del Rio Landfill will follow the Natural Resources Code 191, Texas Antiquities Code.

2.4 Middle Rio Grande Development Council

The expansion of the City of Del Rio Landfill is consistent with the MRGDC Regional Solid Waste Plan. The continued development of the facility will provide a regional facility that will ensure long-term, cost-effective, and environmentally suitable disposal capacity for the region. This is a major goal of the MRGDC Regional Plan. The City has requested a review letter from MGRDC, to confirm that this expansion is in compliance with local solid waste plans. The coordination with MRGDC will be included in Appendix I/IIB.

2.5 Abandoned Oil and Water Wells

Search for water wells within a one-mile radius of the landfill was on December 16, 2022 by Environmental Risk Information Services (ERIS). The ERIS report included a review of records from the Texas Water Development Board, the TCEQ, and other database records. According to the ERIS report included in Appendix IIIJ, no groundwater wells exist within the permit boundary. The other located groundwater wells are located outside of the permit boundary.

If an abandoned oil, gas, or water well is located during facility development, the Landfill Coordinator will provide written notification to the TCEQ's Executive Director of their location within 30 days after discovery. As the site is developed, if any wells are encountered, they will be exposed, the casing cut to a minimum of 2 feet below the excavation, and the well plugged-in accordance with all applicable rules and regulations of the TCEQ, the Railroad Commission of Texas, or other applicable state agency.

The Landfill Coordinator will provide written notification to the Executive Director of the location of any existing or abandoned water wells within the facility upon discovery during site development. Within 30 days of such a discovery, the Landfill Coordinator will provide written notification and certification to the Executive Director of the TCEQ that all such wells have been plugged, capped, and closed in accordance with all applicable rules and regulations of the TCEQ or other applicable state agency.

There are no known oil or natural gas wells within the permit boundary. For crude oil or natural gas wells, or other wells associated with mineral recovery that are under the jurisdiction of the Railroad Commission of Texas, within 30 days after the plugging of any such well, the Landfill Coordinator will provide the Executive Director of the TCEQ with written certification that all such wells have been properly plugged, capped, and closed in accordance with all applicable rules and regulations of the Railroad Commission of Texas.

A copy of the well plugging report to be submitted to the appropriate state agency will also be submitted to the executive director of the TCEQ within 30 days after the well has been plugged.

If an abandoned well causes a change to the liner installation plan, a permit modification will be submitted to the Executive Director in accordance with Title 30 TAC §330.131(d).

2.6 Internet Posting

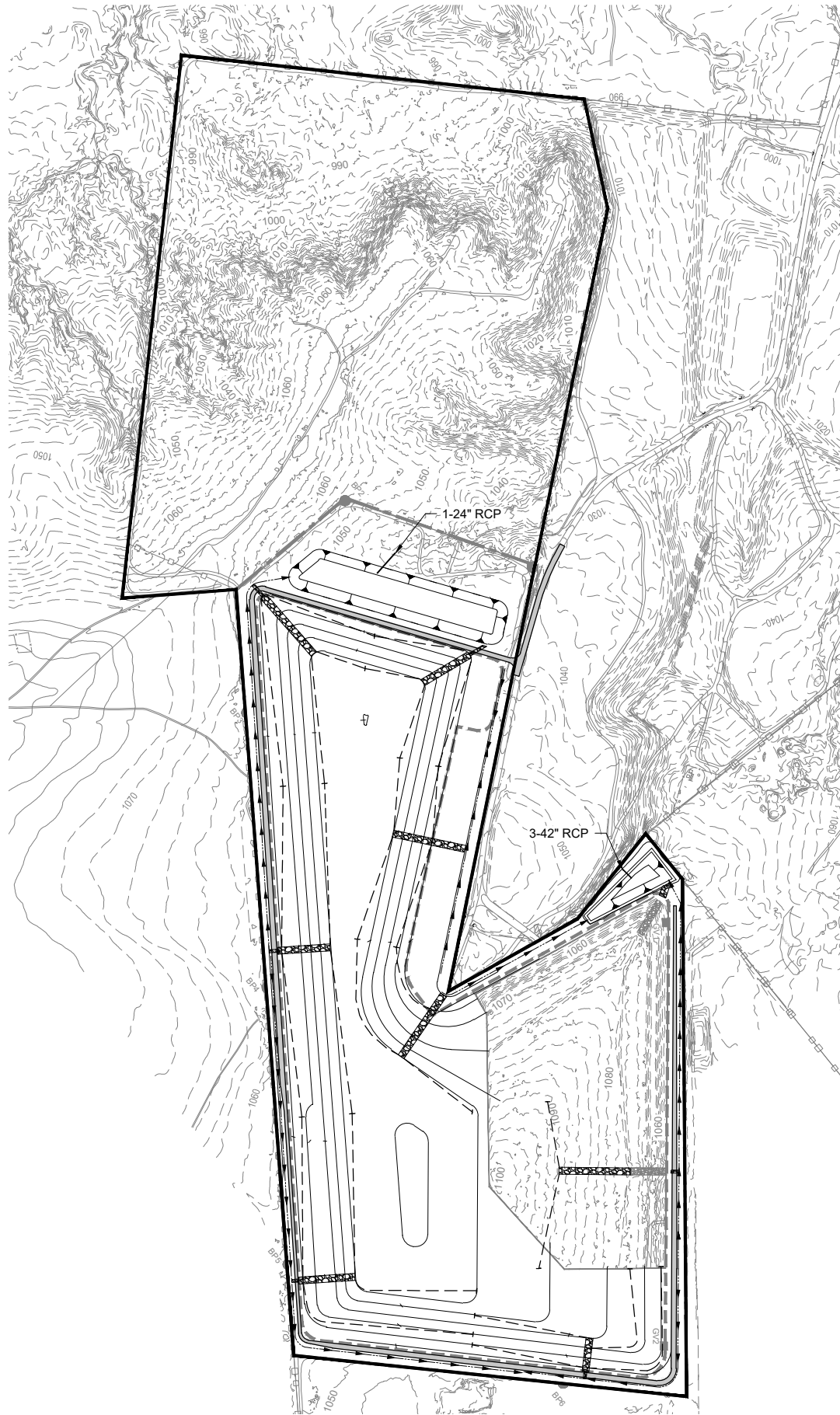
In accordance with Title 30 TAC §330.57(1), a complete copy of this permit application will be posted to the internet at the following publicly accessible website: <http://www.cpypermits.com>. All future revisions or supplements to this permit application will also be posted at the same location. This internet posting is for informational purposes only.

2.7 Existing Permits/Authorizations

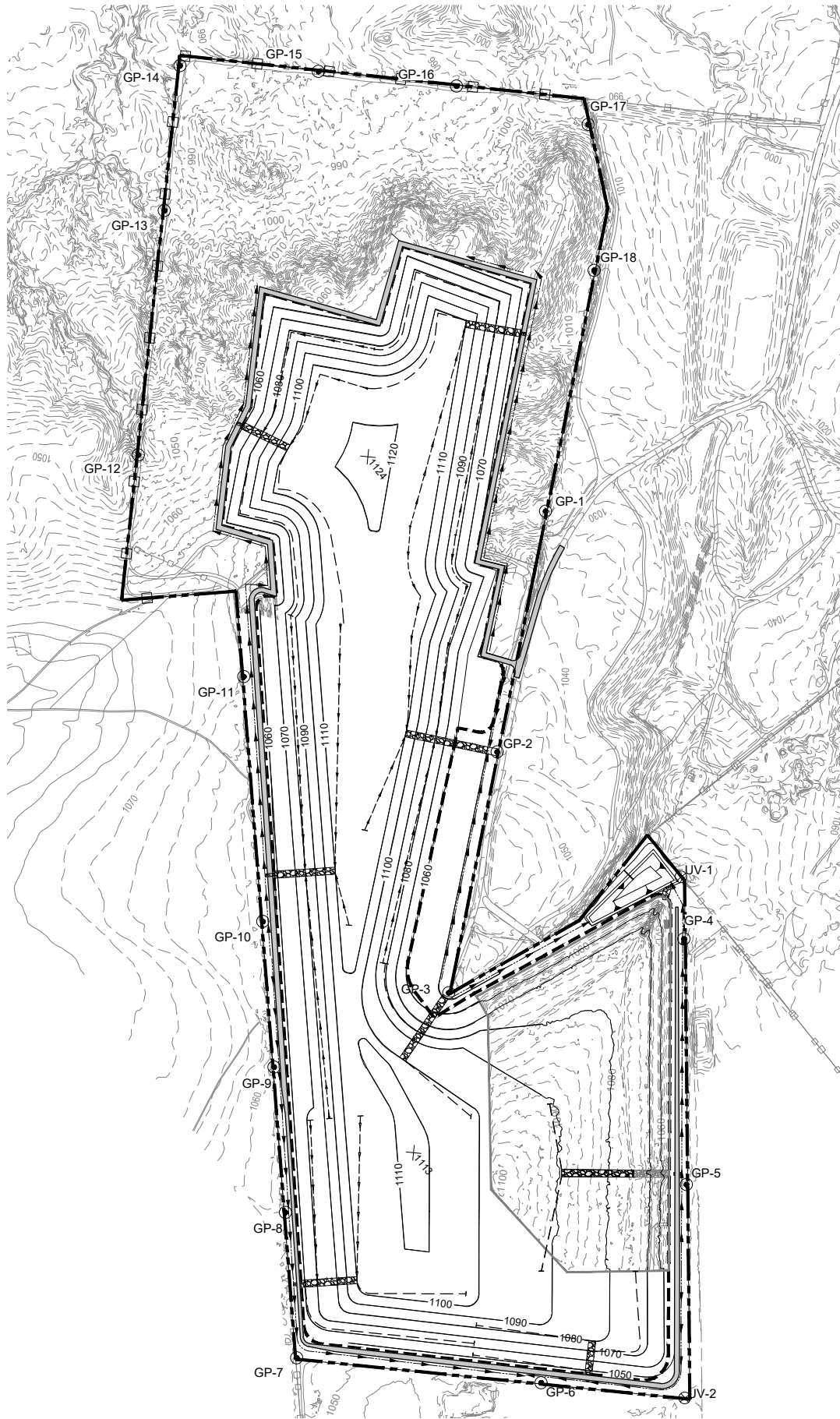
In accordance with Title 30 TAC §305.45(a)(7), the existing permits and authorizations for the facility are summarized in Table 2-4.

Table 2-4 Existing Permits/Authorizations

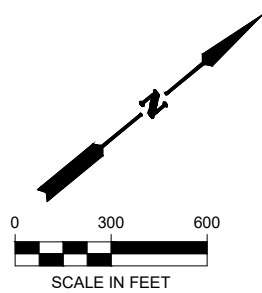
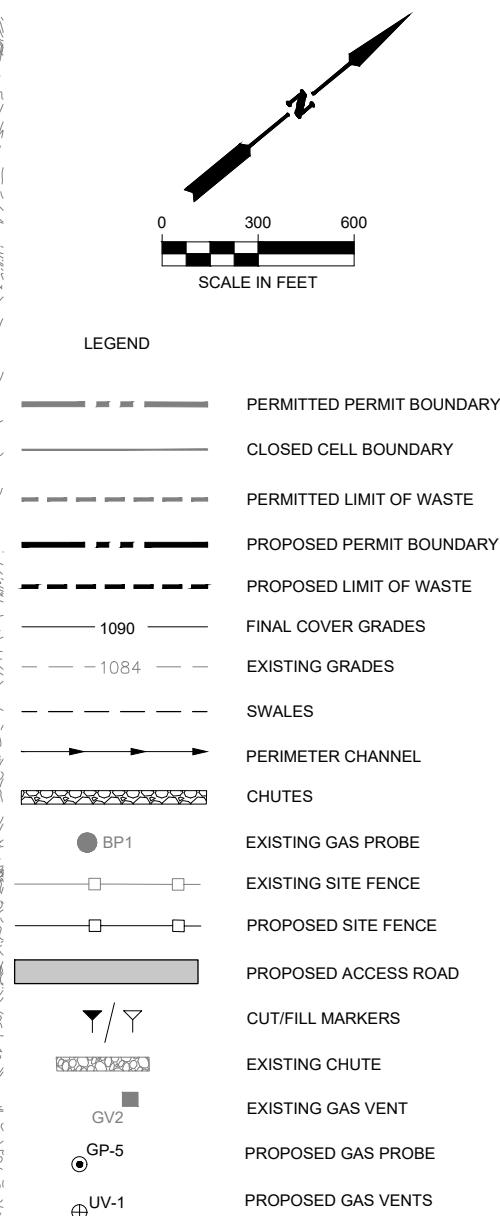
Description	Status
Hazardous Waste Management program under the Texas Solid Waste Disposal Act	No submittal is required nor has been applied for under the Hazardous Waste Management Program under the Texas Solid Waste Disposal Act.
Texas Pollutant Discharge Elimination System (TPDES) program under the Federal Clean Water Act (CWA) and Waste Discharge program under the Texas Water Code, Chapter 26	Refer to Appendix I/IID for more information regarding the site's Multi-Sector Stormwater Permit (TCEQ Permit No. TXR05BY31).
Prevention of Significant Deterioration (PSD) Program under the Federal Clean Air Act	No submittal for a Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA) is required or has been applied for.
Nonattainment Program under the Federal Clean Air Act (FCAA)	No submittal for a non-attainment permit under the FCAA is required or has been applied for.
National Emission Standards for Hazardous Pollutants (NESHAPS) preconstruction approval under the FCAA	No submittal is required nor been applied for under the NESHAPS preconstruction approval under the FCAA.
Ocean dumping permits under the Marine Protection Research and Sanctuaries Act	No submittal is required nor have ocean dumping permits been applied for under the Marine Protection Research and Sanctuaries Act.
Dredge or fill permits under the Federal Clean Water Act	No dredge permits are required under the Federal Clean Water Act. Refer to Parts I/II - Section 11 for additional information.
TCEQ Air Quality Permit or Registration	The emission sources at the landfill are currently authorized by 30 TAC 330, Subchapter U Air Standard Permit, No. 163965 issued on February 25, 2021. The air authorization will be updated and revised as needed.






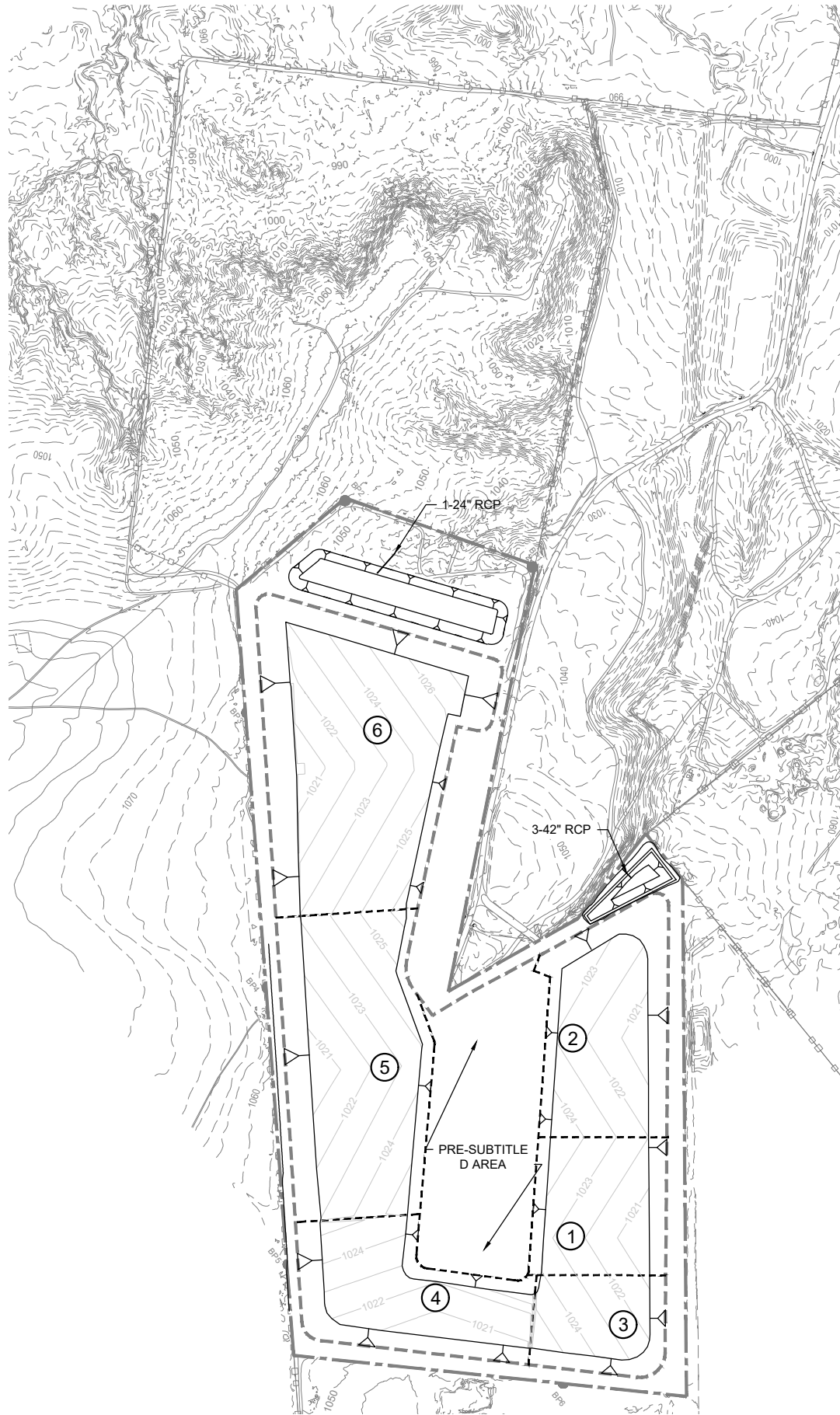
PERMITTED LANDFILL COMPLETION PLAN



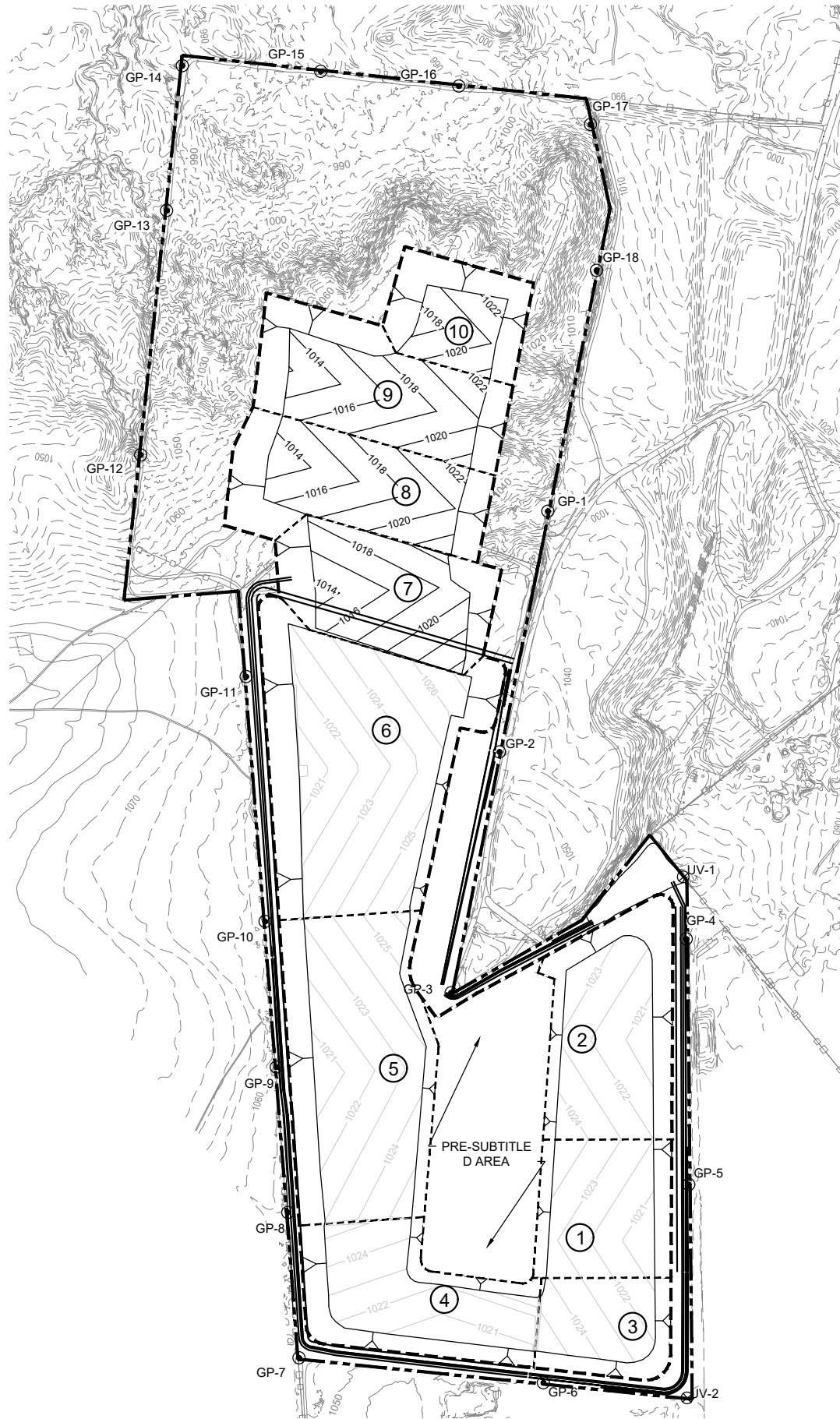
PROPOSED LANDFILL COMPLETION PLAN
(TCEQ PERMIT NO. MSW-207C)



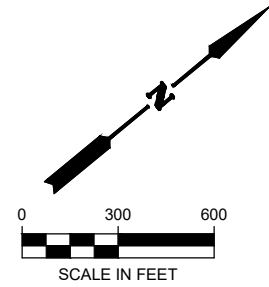
 TEXAS REGISTERED ENGINEERING FIRM TBPE F-1741	
	
	
NO.	REVISION
BY	DATE
VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET. 0 1" AND ADJUST SCALE ACCORDINGLY.	
CITY OF DEL RIO LANDFILL NO. 207C MAJOR PERMIT AMENDMENT	
PERMITTED AND PROPOSED LANDFILL COMPLETION PLAN	
DESIGN: T. METAFERIA DRAWN: T. METAFERIA REVIEW: B. HINDMAN CP&Y: DELR200302 CLIENT: CITY OF DEL RIO	
FIGURE I/II-2.1	



PERMITTED LANDFILL EXCAVATION PLAN




PROPOSED LANDFILL EXCAVATION PLAN
(TCEQ PERMIT NO. MSW-207C)




LEGEND			
---	---	---	PERMITTED PERMIT BOUNDARY
---	---	---	PROPOSED PERMIT BOUNDARY
---	---	---	PERMITTED LIMIT OF WASTE
---	---	---	PROPOSED LIMIT OF WASTE
---	---	---	PERMITTED EXCAVATION GRADES
---	---	---	PROPOSED EXCAVATION GRADES
---	---	---	EXISTING GRADES
---	---	---	EXISTING SITE FENCE
---	---	---	PROPOSED SITE FENCE
---	---	---	CUT/FILL MARKERS
---	---	---	EXISTING GAS PROBE
---	---	---	PROPOSED GAS VENTS
---	---	---	PROPOSED GAS PROBE
---	---	---	CELL DESIGNATION


FOR PERMITTING PURPOSES ONLY



TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



DEL RIO, TEXAS



STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
113866
09/31/2023

NO.	REVISION	BY	DATE

VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET. 0 1" AND ADJUST SCALE ACCORDINGLY.

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

PERMITTED AND PROPOSED
LANDFILL EXCAVATION PLAN

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II-2.2

3.0 EXISTING CONDITIONS SUMMARY

3.1 Site History

The site is an existing 105.6-acre municipal solid waste facility in Val Verde County. An existing site plan is shown on Figure I/II-1.1. The permitted excavation plan and final contour plan are reproduced in Figures I/II-3.1 and I/II-3.2.

The site was originally permitted by the Texas Department of Health in 1972. Since 1972 the original permit has been amended in:

- 1989 to expand the landfill by 105.6 acres to the existing landfill area;
- 1994 to obtain approval for an alternative liner and a waiver for groundwater monitoring;
- 1998 to increase the top of waste and final cover grades by 10 feet; and
- 2020 a permit amendment application was submitted to vertically expand the landfill.

3.2 Existing Liner System

The filled areas of the existing landfill were constructed consistent with the permit requirements in effect at that time. The existing site consists of approximately 12.3 acres of pre-Subtitle D area and 66.7 acres of Subtitle D lined area. Cells 1 through 6 are constructed to Subtitle D standards. Each Subtitle D cell has a liner system consisting of 2 feet of compacted clay liner, drainage geocomposite, and a protective cover layer.

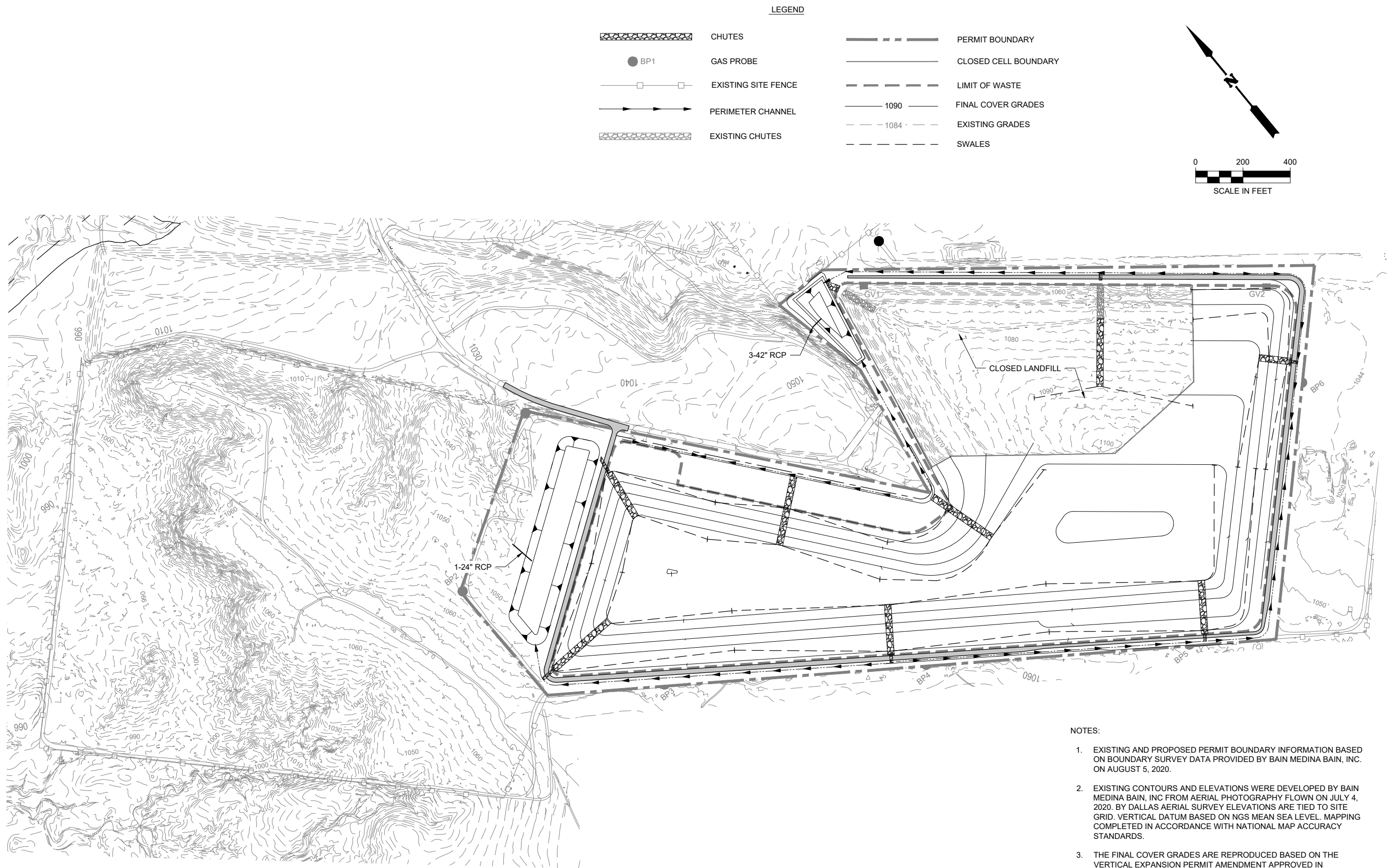
The existing leachate collection systems for the Subtitle D lined areas consist of a geocomposite (single-sided on the floor grades and double-sided on the sideslopes). The leachate collection layer slopes to drain toward perforated leachate collection pipes surrounded by drainage stone. The leachate collection pipes convey leachate to the leachate sumps. Leachate from the leachate collection sumps is pumped into trucks periodical and disposed at an off-site permitted location.

3.3 Landfill Gas Monitoring System

The existing, TCEQ-approved landfill gas monitoring system consists of six gas probes (BP-1 through BP-6) located along the existing permit boundary as shown in Figure I/II-1.1. Monitoring of these probes is conducted quarterly. Refer to Appendix IIIM for additional information on the gas system.

3.4 Groundwater Monitoring System

The site currently has groundwater monitoring waiver and does not currently conduct any groundwater monitoring. Refer to Appendix III I and IIIN in Part III for more information.



- NOTES:
1. EXISTING AND PROPOSED PERMIT BOUNDARY INFORMATION BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
 2. EXISTING CONTOURS AND ELEVATIONS WERE DEVELOPED BY BAIN MEDINA BAIN, INC FROM AERIAL PHOTOGRAPHY FLOWN ON JULY 4, 2020. BY DALLAS AERIAL SURVEY ELEVATIONS ARE TIED TO SITE GRID. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL. MAPPING COMPLETED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS.
 3. THE FINAL COVER GRADES ARE REPRODUCED BASED ON THE VERTICAL EXPANSION PERMIT AMENDMENT APPROVED IN NOVEMBER 2022.

PERMITTED LANDFILL COMPLETION PLAN

FOR PERMITTING PURPOSES ONLY

NO.	REVISION	BY	DATE

VERIFY SCALE
 0 1
 BAR LENGTH EQUALS ONE INCH ON ORIGINAL
 DRAWING. VERIFY LENGTH ON THIS SHEET
 AND ADJUST SCALE ACCORDINGLY.

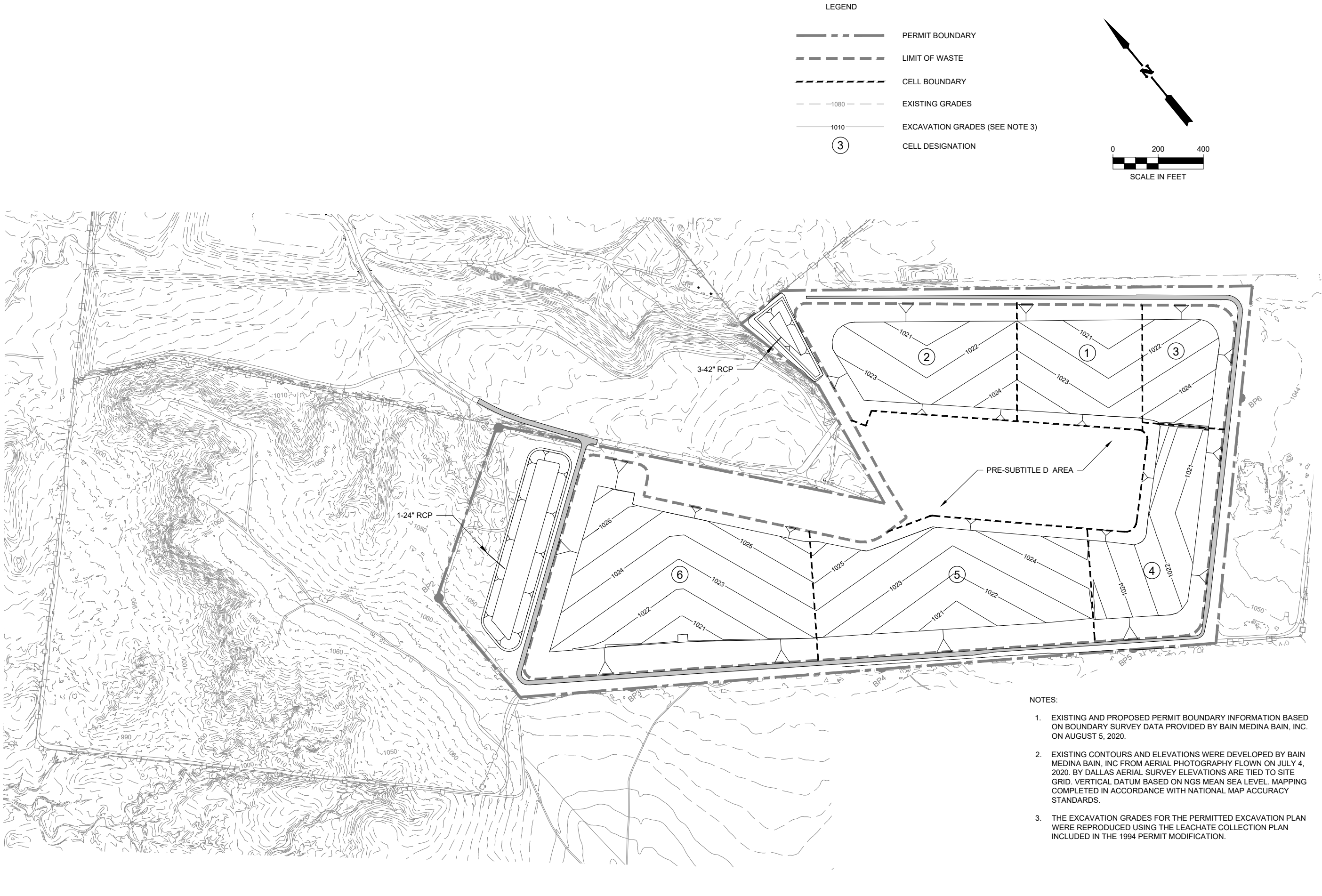
CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

PERMITTED FINAL COVER PLAN

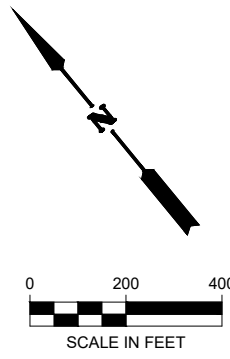
DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II-3.1


PRINTED BY: Metaferia T DATE: 7/2/2023
FILE PATH: c:\pwworking\stvw_st\johnson\td942002\DEL200302 Figure I&II-3.2.dwg




- LEGEND
- PERMIT BOUNDARY
 - LIMIT OF WASTE
 - CELL BOUNDARY
 - EXISTING GRADES
 - EXCAVATION GRADES (SEE NOTE 3)
 - CELL DESIGNATION




- NOTES:
- EXISTING AND PROPOSED PERMIT BOUNDARY INFORMATION BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
 - EXISTING CONTOURS AND ELEVATIONS WERE DEVELOPED BY BAIN MEDINA BAIN, INC FROM AERIAL PHOTOGRAPHY FLOWN ON JULY 4, 2020. BY DALLAS AERIAL SURVEY ELEVATIONS ARE TIED TO SITE GRID. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL. MAPPING COMPLETED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS.
 - THE EXCAVATION GRADES FOR THE PERMITTED EXCAVATION PLAN WERE REPRODUCED USING THE LEACHATE COLLECTION PLAN INCLUDED IN THE 1994 PERMIT MODIFICATION.



TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741





09/31/2023

NO.	REVISION	BY	DATE

VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL
DRAWING. VERIFY LENGTH ON THIS SHEET
0 1" AND ADJUST SCALE ACCORDINGLY.

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

PERMITTED EXCAVATION PLAN

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II - 3.2

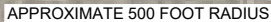
FOR PERMITTING PURPOSES ONLY

4.0 MAPS

A site location map and general topographic map are presented on Figures I/II-4.1 and I/II-4.2. Structures and inhabitable buildings located within 500 feet, as well as the nearest residence, schools, and churches are shown on Figure I/II-4.3.



Figure I/II-4.1 and Figure I/II-4.2 show surface water bodies in accordance with Title 30 TAC §330.59(c)(1) and §305.45(a)(6)(A). Refer to Section 7.7 for water wells.





SCALE IN FEET

LEGEND

-  PROPERTY BOUNDARY
 LIMITS OF WASTE
 BUILDING

NOTE:

1. AERIAL PHOTOGRAPHY PROVIDED BY GOOGLE
JANUARY 19, 2017.

NO.	REVISION	BY	DATE

VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.

0 1"

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

STRUCTURES AND INHABITABLE
BUILDING WITHIN 500 FEET

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II-4.3

5.0 PROPERTY OWNERS LIST AND MAP

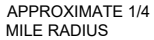
The following list and figure provide the names, mailing addresses, and locations of the "Adjacent and Potentially Affected Landowners" within 1/4 mile of the City of Del Rio Landfill. The numbers on the landowner list correspond to the numbers listed on Figure I/II-5.1. The list is based on records of the Val Verde County Appraisal Districts as of June 2020. Refer to Figure I/II-5.1, Property Owners Map, for location of the properties. Easement holders and mineral interest owners in accordance with Title 30 TAC §330.59(c)(3) are also listed in Table 5-1.

Table 5-1 Property Owners List

- | | |
|---|--|
| 1. Franklin Claude Hargrove
P.O. Box 420124
Del Rio, TX 78840 | 12. Nicolas & Antonia G. Lozano
732 Las Palmas Drive
Del Rio, TX 78840 |
| 2. Val Verde County Trustee
P.O. Box 1368
Del Rio, TX 78841-1368 | 13. Luis A. Fernandez Jr.
908 Ave R
Del Rio, TX 78840 |
| 3. City of Del Rio
109 W Broadway St
Del Rio, TX 78840 | 14. Esther C Monsivais
103 B West 7th St
Del Rio, TX 78840 |
| 4. Fua Investments LLC
101 Chardonnay Way
Del Rio, TX 78840 | 15. Red River Service Corp
4004 East Hwy 290 W
Dripping Springs, TX 78620 |
| 5. Mirador INC
708G Suite C
Del Rio, TX 78840 | 16. Adolfo Angel & Bianca Yasmeen De La Cruz
908 Ave R
Del Rio, TX 78840 |
| 6. Cerna Rosedel
841 Las Palmas Drive
Del Rio, TX 78840 | 17. Maricel Del La Luz Jimenez Rodriguez
501 W Chapoy St
Del Rio, TX 78840 |
| 7. Jose Angel & Vernice Arroyo
810 Las Palmas Drive
Del Rio, TX 78840 | 18. Carkos & Macaria Riojas
P.O. Box 2204
Del Rio, TX 78840 |
| 8. Jose Luis & Alva E. Nieto
737 Las Palmas Drive
Del Rio, TX 78840 | 19. Jose R. Garcia
2201 Beaumont St
Grand Prairie, TX 78840 |
| 9. Juan Jr. Martinez
846 Las Palmas Drive
Del Rio, TX 78840 | 20. Alfredo & Roas Maria Sifuentes
605 East Bean
Del Rio, TX 78840 |
| 10. Juan R. Martinez
810 Las Palmas Drive
Del Rio, TX 78840 | 21. Eagle Pass Hill Land Group LLC
P.O. Box 420577
Del Rio, TX 78842 |
| 11. Confidential Owner | 22. These parcels have the message "Property
Not Found" on the Val Verde Appraisal
District website. |

Table 5-2 Easement Holders Associated within The Permit Boundary

1. West Texas Gas Utility LLC
303 Veterans Airpark Park Ln. Ste 5000
Midland, TX 79705
2. Central Power and Light Company
1005 Congress Ave Ste. 550
Austin, TX 78701-2491
3. AEP Texas Central Company
P.O. Box 420579
Del Rio, TX 78842



N

SCALE IN FEET

3

PROPERTY BOUNDARIES

- NOTES:
1. REFER TO LANDOWNERS LISTED ON LANDOWNERS LIST IN SECTION 5, LANDOWNERS LIST AND MAP.
 2. THE LINE REPRESENTS A 1/4 MILE DISTANCE FROM THE LIMIT OF THE PERMIT BOUNDARY.
 3. LANDOWNERS AND MINERAL RIGHTS OWNERS LIST WAS DEVELOPED FROM DECEMBER 2022 VAL VERDE COUNTY APPRAISAL DISTRICT RECORDS.

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

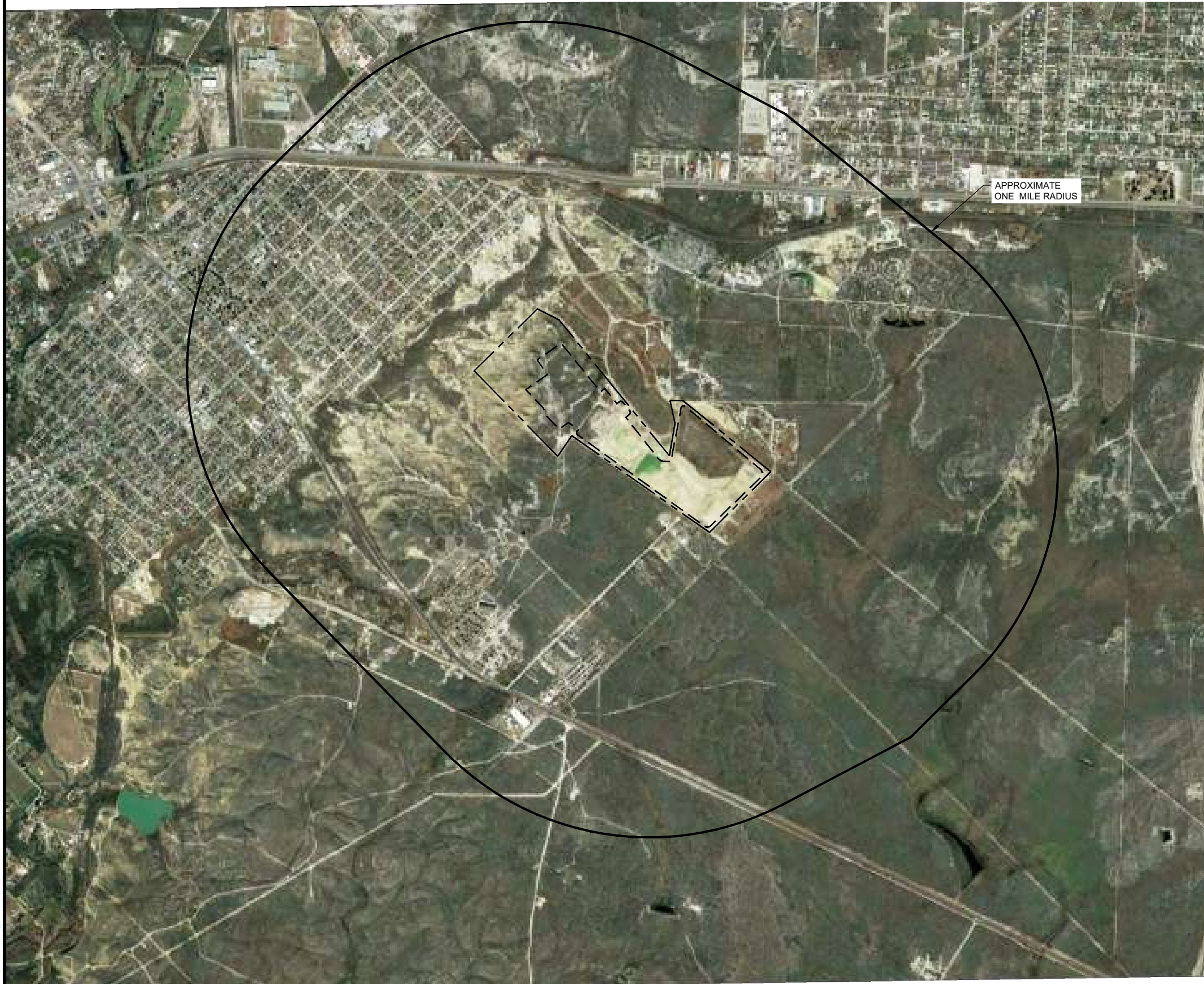
FIGURE
I/II-5.1

FOR PERMITTING PURPOSES ONLY



6.0 AERIAL PHOTOGRAPH

An aerial photograph of the site and the surrounding area (minimum of one-mile radius from the site) is presented on Figure I/II-6.1



7.0 LAND USE

7.1 Character of Surrounding Land and Land Use

A desktop land use evaluation was performed for the area within one mile of the City of Del Rio Landfill permit boundary. Growth trends within 5 miles of the facility were also evaluated. Land use information is summarized on the following five maps.

- Figure I/II-7.1 (Land Use Map - Aerial). This map highlights land use within a one-mile radius of the site on an aerial photograph.
- Figure I/II-7.2 (Land Use Map). This map indicates major land uses within a one-mile of the site.
- Figure I/II-7.3 (Cities within 5 Miles - Aerial). This map is used to show area cities within five-mile and to summarize growth trends.
- Figure I/II-7.4 Water Well Map – This map is used to show the water wells within a one-mile radius.
- Figure I/II-7.5 Zoning Map – This map is used to show the different zoning for the surrounding areas.

7.2 Location and Zoning

The landfill is located on the east side of the City of Del Rio. According to the City's website, the existing landfill site is currently zoned as R-S – Single-Family District. The 75-acre expansion area is located outside the limits of the City of Del Rio and does not have any zoning requirements. As mentioned in Section 3 above, the City of Del Rio Landfill has been in operation for over 30 years. The existing zoning does not affect the landfill or its expansion.

7.3 Surrounding Land Use

As shown on Figures I/II-7.1 and I/II-7.2, land use within one mile of the site consists of predominantly open space land that contains scattered residence (approximately 16 percent of area within a mile of the permit boundary). There is a residential development located northwest of the site within a 1-mile radius of the permit boundary. Roadways comprise less than 4 percent of the area within a mile of the site. US 90, US 277 and several city roads are within a mile of the permit boundary.

7.4 Growth Trends of the Nearest Communities

As shown on Figure I/II-7.3, with the exception of the expansion area, the site is located within the city limits of Del Rio. Besides the residential area located northwest of the site most of the surrounding communities are scattered rural residential areas. There are no known future developments or growth trends for the area within a five-mile radius of the facility. Therefore, census data and population growth projections are used to determine the growth trend of the City of Del Rio, as well as Val Verde County. The census information and growth trends for these communities are presented in Table I/II-7.1, Population Growth Trends. The population projections were obtained from the Texas Water Development Board.

Table 7-1 Population Growth Trends

Entity	2000 Census	2010 Census	Growth Rate			
			2020	2030	2040	2050
Del Rio	33,867	37,024	38,083	40,524	42,887	45,315
Val Verde County	44,856	51,312	54,694	60,389	65,902	71,566

7.5 Proximity to Residences and Other Uses

The nearest residence is approximately 250 feet from the southwestern portion of the permit boundary (300 feet from the limits of waste - refer to Figure I/II-7.1).

There are three schools within a one-mile radius (San Felipe Memorial Middle School, Bible Way Christian Academy, and Ruben Chavira Elementary School). There are three religious buildings within a one-mile radius of the site (Bible Way Church of Our Lord, Iglesia de Cristo, and Ruben Kikes P). The Simply Kids Learning Center is a day care facility within one mile of the site. There are no hospitals, cemeteries, archaeologically significant sites, historical sites, or sites of exceptional aesthetic quality within one-mile of the permit boundary. The proximity of residences and other uses are shown on the Land Use Map - Aerial (Figure I/II-7.1).

7.6 Land Use Conclusions

The use of the existing and expansion area land for a municipal solid waste site represents a compatible land use for the following reasons.

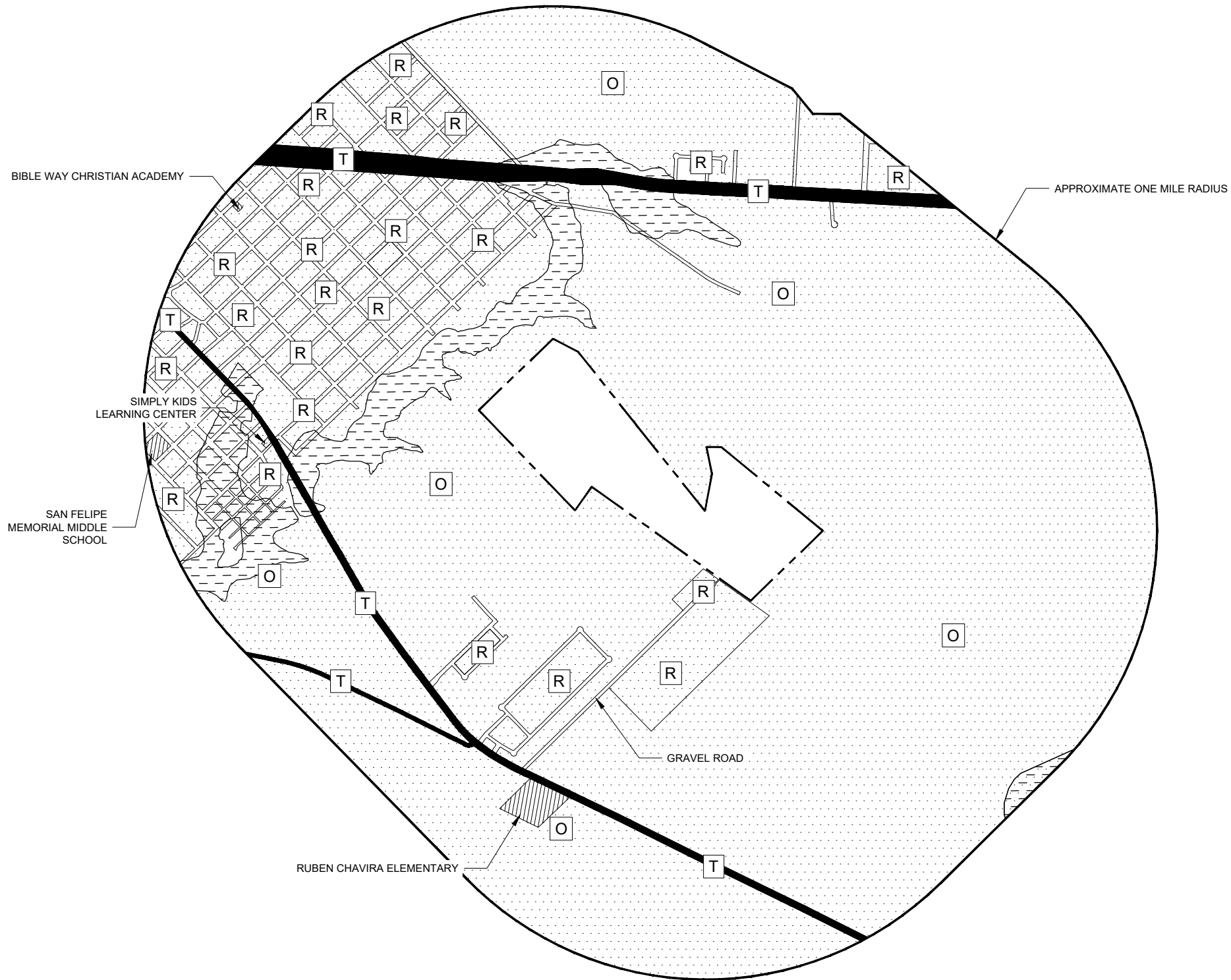
- The site has been permitted as a landfill since 1972. Prior to the operation of this facility, an adjacent property was used as a landfill.
- The landfill waste placement footprint is considerably buffered from nearby uses.
- The site has not and will not affect area growth trends.
- The generally undeveloped nature of the existing land uses in the area is compatible with the proposed expansion.

In summary, the existing site has long been established as a disposal facility. The expansion of the City of Del Rio Landfill will provide extended waste disposal for area communities at a facility that will continue to be developed to meet or exceed all regulatory requirements. The facility will cause no likely adverse impact on the City, communities, property owners or individuals. There are currently no windbreaks, greenbelt, or visual screening utilized by the facility.

7.7 Water Wells Within 500 Feet

A water well search was conducted by Environmental Risk Information Services (ERIS) in December 2022. The results from the search are included in Appendix IIIJ-A. The search included a review of records from the TWDB and the TCEQ database. The search results show that there are no known active water wells located within 500 feet of the permit boundary. There are abandoned monitoring wells within the permit boundary from the 1989, 1994, and 2020 geotechnical investigations. Figure I/II-7.4 shows the registered water wells within a one-mile radius of the permit boundary.

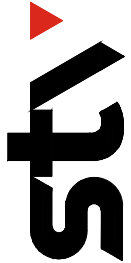
PRINTED BY: Metaferia T DATE: 7/2/2023
FILE PATH: c:\pwworking\st\pww_st\johnson\40942002\DELR2000302 Figure I&II-7.2.dwg




LAND USE WITHIN 1 MILE OF PERMIT BOUNDARY	
DEL RIO LANDFILL PERMIT BOUNDARY	4.50%
RESIDENTIAL	16.20%
OPEN SPACE (INCLUDING SCATTERED RESIDENCES)	71.20%
FLOODPLAIN	5.30%
TRANSPORTATION CORRIDOR	2.50%
SCHOOL	0.30%
TOTAL	100%


- NOTES:
- REFER TO FIGURE I/II-7.1 FOR LOCATION OF RESIDENCES.
 - ALL ROADS WITHIN ONE MILE OF THE LANDFILL ARE ASPHALT EXCEPT AS NOTED ON THE SITE PLAN.

FOR PERMITTING PURPOSES ONLY




TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741





NO.	REVISION	BY	DATE

VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET: 1" AND ADJUST SCALE ACCORDINGLY.

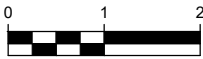
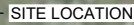


CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

LAND USE MAP

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II-7.2



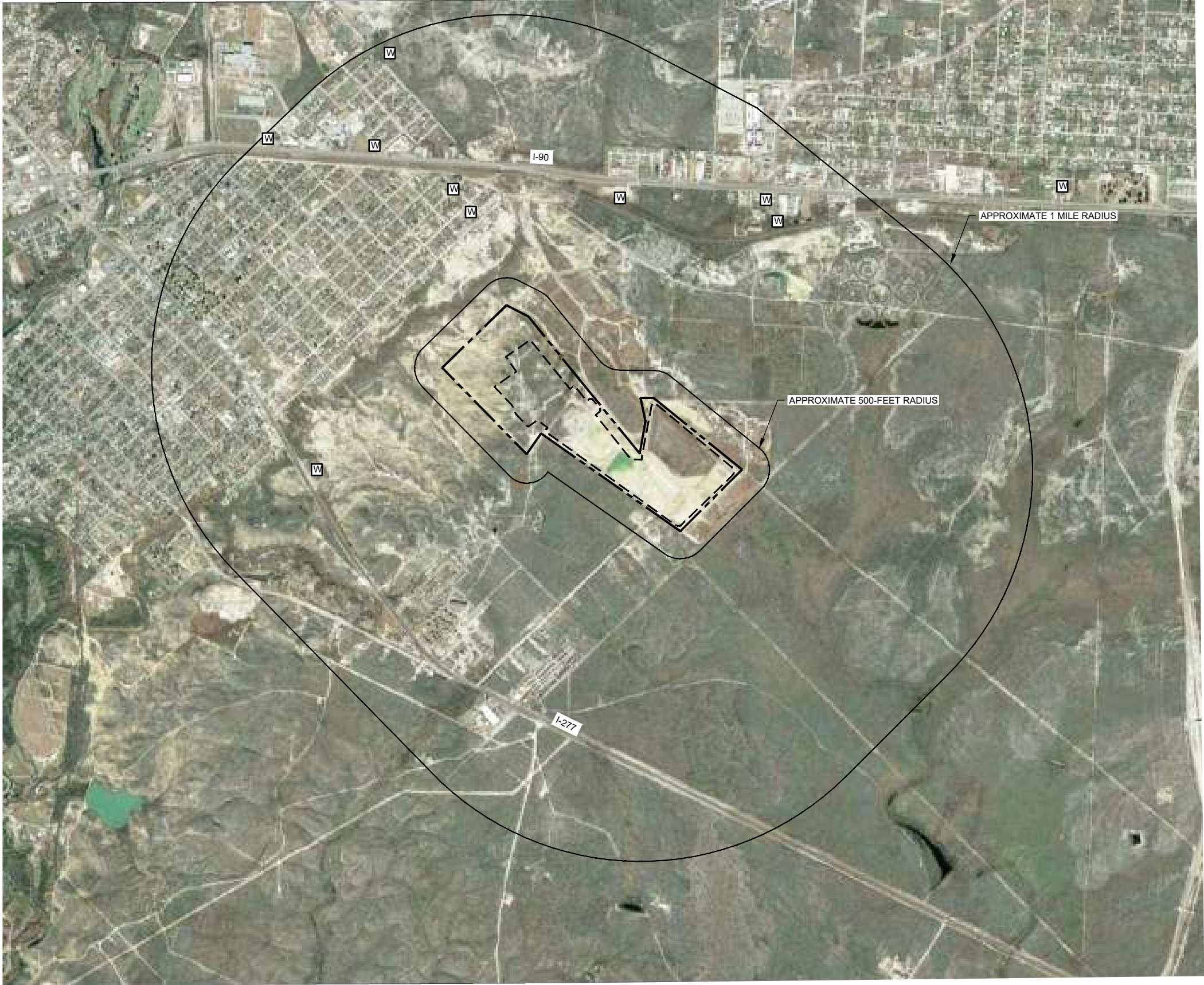
PROPERTY BOUNDARY

1. AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH DATED JANUARY 19, 2017.

VERIFY SCALE
0 1"

CITIES WITHIN 5 MILE RADIUS

FIGURE
I/II-7.3






LEGEND

---	PROPERTY BOUNDARY
- - -	LIMITS OF WASTE
W	WATER WELLS

0 1,000 2,000
SCALE IN FEET

N

















- NOTES:
1. AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH, DATED JANUARY 19, 2017.
 2. WATER WELLS SHOWN WITHIN THE ONE-MILE BOUNDARY OF THE SITE ARE BASED ON THE ERIS SEARCH CONDUCTED IN DECEMBER 16, 2022.

 TEXAS REGISTERED ENGINEERING FIRM TBPE F-1741																																									
																																									
																																									
<table><tr><td>NO.</td><td>REVISION</td><td>BY</td><td>DATE</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>		NO.	REVISION	BY	DATE																																				
NO.	REVISION	BY	DATE																																						
CITY OF DEL RIO LANDEILL NO. 207C MAJOR PERMIT AMENDMENT																																									
WATER WELL MAP																																									
DESIGN: T. METAFERIA DRAWN: T. METAFERIA REVIEW: B. HINDMAN CP&Y: DELR200302 CLIENT: CITY OF DEL RIO																																									
FIGURE I/II-7.4																																									



1. ZONING MAP WAS REPRODUCED USING THE CITY OF DEL RIO PLANNING AND ZONING MAP.



-  City Limits
 Railroad
 Roads.shp
 Parcels.shp
 Stream
 Block Circles
 AGRICULTURE
 C-1
 C-1-H
 C-2-A
 C-2-B
 I
 R-220
 R-M
 R-S
 R-S-O

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

ZONING MAP

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II-7.5

FOR PERMITTING PURPOSES ONLY

NO.	REVISION	BY	DATE

8.0 TRANSPORTATION

8.1 Traffic Information

8.1.1 Availability and Adequacy of Roads

The City of Del Rio Landfill is located within the City of Del Rio in Val Verde County, Texas. The site entrance is located approximately 2.5 miles west of the intersection of US-90 and Loop 79, and approximately 2.3 miles east of the intersection of US-90 and US-277. Trucks hauling waste will use US-90 before turning on to Railway Avenue to access the site. The proposed landfill expansion does not include a change to the location of the site entrance.

Table 8-1 presents a summary of the existing and estimated proposed traffic patterns and vehicle counts for the access roads within one mile of the site. The existing traffic volume for US-90 was obtained using the TxDOT Traffic Web Viewer for the Laredo District published in August 2020. Traffic associated with the landfill is based the daily traffic volume of the landfill.

Table 8-1 Traffic Growth Trends

Existing Traffic Volume					
2021					
Average Daily			Peak Hour ³		
LF Trips ⁴	Non-LF Trips ¹	Total	LF Trips	Non-LF Trips	Total
224	18,623	18,399	22	1,862	1,835
Projected Traffic Volume ²					
2069					
Average Daily			Peak Hour ³		
LF Trips	Non-LF Trips	Total	LF Trips	Non-LF Trips	Total
362	30,169	29,807	36	3,017	2,981

Notes:

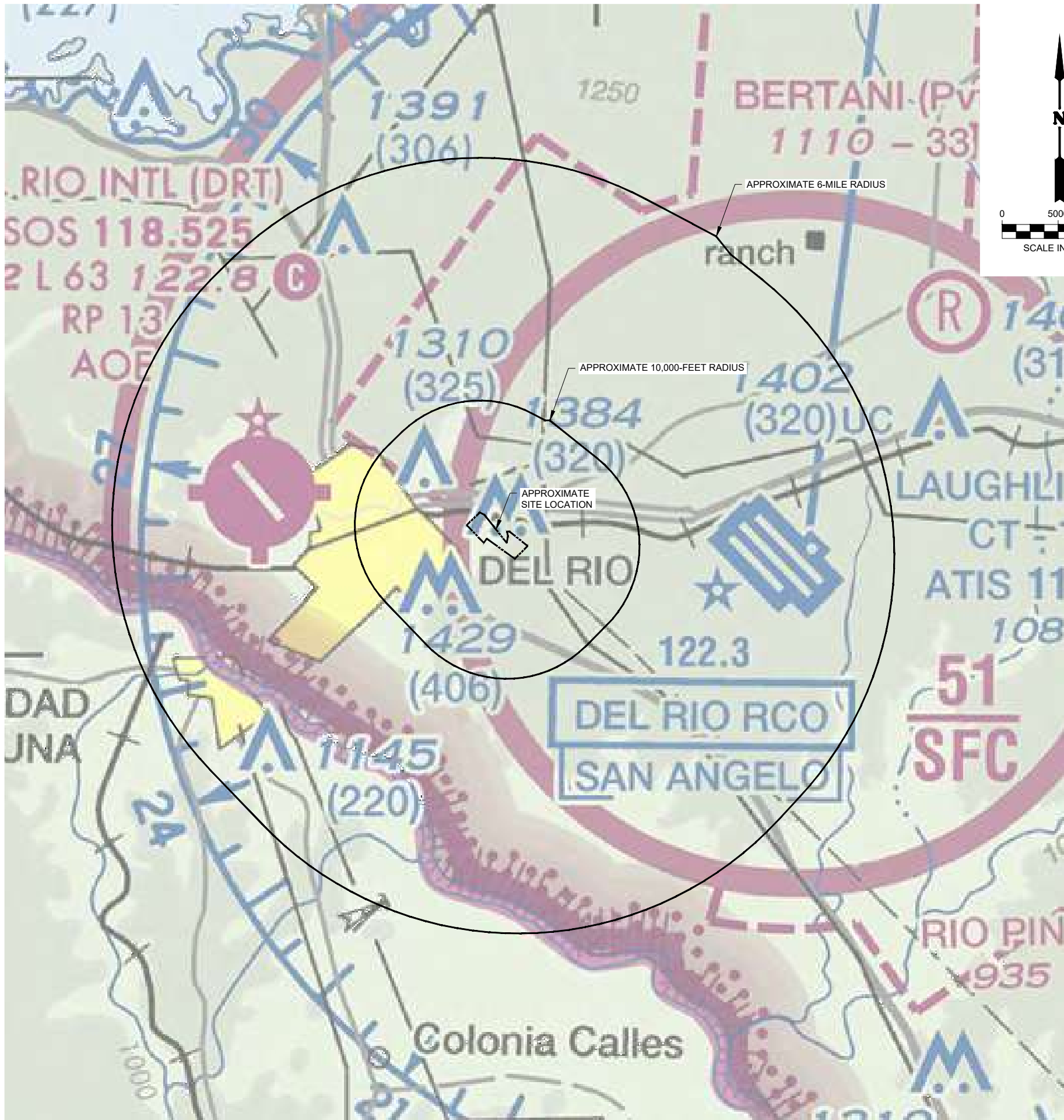
1. Traffic count data was obtained from 2021 District Traffic Web Viewer.
2. The projected traffic volumes were obtained using projected growth rates for the surrounding area growth rate (non-Landfill vehicles). The growth rates were obtained from the Texas Water Development Board, Regional Water Plan. The annual population increase for 2021-2030 is 14.95%, 2031-2040 is 10.41%, 2041-2050 is 9.31%, 2051-2060 is 8.59%, and 2061-site closure is 7.54%.
3. Peak hour volumes are assumed to be ten percent of total daily traffic.
4. Landfill trips are estimated based on the current truck counts provided by the City.

Although there is an increase in the amount of landfill trips, the landfill trips account for less than 2 percent of the overall traffic. Therefore, the increase in the landfill traffic will have minimal effect on the overall capacity of the access roadway. US-90 is an asphalt paved four-lane (12-foot lane width) highway with a middle turning lane and 10-foot-wide shoulders on each side. The direct site access road, Railway Avenue is a two-lane (12-foot lane width) asphalt paved road. The existing roads are adequate for the landfill traffic and will continue to provide adequate access to the site throughout the life of the facility. Coordination with TxDOT regarding traffic and location restrictions is included in Appendix I/IIB.

8.2 Airport Impact

TCEQ distance restrictions set forth in Title 30 TAC §330.545 require municipal solid waste disposal facilities to be located no closer than 10,000 feet to any runway end used by turbojet aircraft or no closer than 5,000 feet to any runway end used by piston-engine aircraft. As shown on Figure I/II-8.1, no airports (privately-owned or general service) are identified within the 10,000-foot radius of the landfill. The Airport Safety Location Restriction is included in Appendix I/IIC.

Figure I/II-8.1 shows there are two airports located within the 6-mile radius of the landfill. The Del Rio International Airport is located approximately 4 miles northwest of the landfill, and is a publicly owned, general use airport. The Laughlin Air Force Base is a military airport facility operated by the United States Air Force and is located approximately 4 miles east of the landfill. As required by Title 30 TAC §330.545(b) the Del Rio International Airport, Laughlin Air Force Base, and the FAA have been notified about the lateral expansion at the City of Del Rio Landfill. The coordination letter are included in Appendix I/IIB.



SAN ANTONIO
LEGEND

Airports having Control Towers are shown in Blue, all others in Magenta. Consult Chart Supplement for details involving airport lighting, navigation aids, and services. All times are local. For additional symbol information refer to the Chart User's Guide.

AIRPORTS

- Other than hard-surfaced runways
- Hard-surfaced runways 1800 ft. to 6000 ft. in length
- Hard-surfaced runways greater than 6000 ft. or some multiple runways less than 6000 ft.
- Open dot within hard-surfaced runway configuration indicates approximate VOR, VOR-DME, DME or VORTAC location.
- All recognizable hard-surfaced runways, including those closed, are shown for visual identification. Airports may be public or private.

ADDITIONAL AIRPORT INFORMATION

- Private "Pvt" - Non-public use having emergency or landmark value
- Military - Other than hard-surfaced; all military airports are identified by abbreviations AFB, NAS, AAF, etc.
- Helipad Selected
- Unsurfaced
- Abandoned - paved having landmark value, 3000 ft. or greater
- Unlighted Flight Park Selected
- Fuel - available Mon thru Fri 1000 A.M. to 400 P.M. depicted by use of stars around basic airport symbol. Consult Supplement for details and for availability at airports with hard-surfaced runways greater than 6000 ft.

AIRPORT DATA

Box indicates FAR 93 FSS NO SVFR Location Identifier
Special Air Traffic Rules & Airport Traffic Patterns
Runways with Right Traffic Patterns (public use)
* RP Special conditions code - see Supplement
FSS - Flight Service Station AOE - Airport of Entry
NO SVFR - Fixed-wing special VFR flight is prohibited.
CT - 118.3 - Control Tower (CT) - primary frequency
* - Star indicates operation part-time. See tower frequencies tabulation for hours of operation.

Follows the Common Traffic Advisory Frequency (CTAF)
ATIS 123.6 - Automatic Terminal Information Service (ATIS)
AFIS 135.2 - Automatic Flight Information Service (AFIS)
ASOS/AWOS 125.42 - Automated Surface Weather Observing Systems (shown where full-time ATIS not available). Some ASOS/AWOS facilities may not be located at airports.
UNICOM - Aeronautical advisory station
VFR Advisory - VFR Advisory Service shown where full-time ATIS not available and frequency is other than primary CT frequency.
255 - Elevation in feet
L - Lighting in operation Sunset to Sunrise
*L - Lighting Emissions end; refer to Supplement.
72 - Length of longest runway in hundreds of feet; usable length may be less.

When information is lacking, the respective character is replaced by a dash. Lighting codes refer to runway edge lights and may not represent the longest runway or full length lighting.

★ Rotating airport beacon in operation Sunset to Sunrise
OBJECTIONABLE - Airport may adversely affect airspace use.

AIRPORT TRAFFIC SERVICE AND AIRSPACE INFORMATION

Only the controlled and reserved airspace effective below 16,000 ft. MSL are shown.

- Class B Airspace
- Class C Airspace (Mode C - see FAR 91.215/AM)
- Class D Airspace
- Class E Airspace with floor 700 ft. above surface that laterally abuts Class Q Airspace.
- Class E Airspace with floor 700 ft. above surface that laterally abuts Class Q Airspace.
- Class E Airspace with floor 1000 ft. or greater above surface that laterally abuts Class Q Airspace.
- Class E Airspace with floor 1000 ft. or greater above surface that laterally abuts Class Q Airspace.

COMMUNICATION BOXES

Underline indicates no voice on frequency.
Crosshatch indicates shutdown status.
* Operates less than continuous or On-Request.

RADIO AIDS TO NAVIGATION

- VOR OMNI RANGE (VOR)
- VOR-DME
- Non-Directional Radio Beacon (NDB)
- VORTAC
- Other facilities, i.e., FSS Outlet, RCO, WX CAM (AQ) (see Supplement), etc.
- NDB - DME

OBSTRUCTIONS

1000 ft and higher AGL
Above 200 ft & below 1000 ft AGL (above 200 ft AGL in urban area)
Obstruction with high-intensity lighting may operate part-time

MISCELLANEOUS

- STADIUM
- Intermittent TFR etc (within 5 NM, up to 1 Ind 3000' AGL)
- Marine Light
- VPXYZ
- VFR Waypoints (See chart tabulation for latitude/longitude).
- Space Launch Activity Area (See Supplement)
- Isogonic Line (2016 VALUE)
- NAME (VPXYZ)

TOPOGRAPHIC INFORMATION

- Power Transmission Line
- Aerial Cable
- Lookout Tower 618 (Elevation Base of Tower)
- Mountain Pass 11223 (Elevation of Pass)
- Pass symbol does not indicate a recommended route or direction of flight and pass elevation does not indicate a recommended clearance altitude. Hazardous flight conditions may exist within and near mountain passes.

- NOTES:
- THIS MAP IS REPRODUCED FROM THE FAA SAN ANTONIO SECTION AERONAUTICAL CHARTS DATED APRIL 20, 2023.
 - THERE ARE NO PUBLIC AIRPORTS WITHIN A 10,000 FOOT RADIUS OF THE SITE.
 - THERE IS ONE INTERNATIONAL AIRPORT, AND ONE AIR FORCE BASE WITHIN A 6-MILE RADIUS OF THE SITE.

FOR PERMITTING PURPOSES ONLY

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

del Rio TEXAS

NO.	REVISION	DATE

CITY OF DEL RIO LANDELL NO. 207C
MAJOR PERMIT AMENDMENT

AREA AIRPORTS

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
1/II-8.1

9.0 GENERAL GEOLOGY AND SOILS STATEMENT

9.1 Geology and Soils

The present operational area of the landfill is situated within the Del Rio Clay. A thin veneer of Buda Limestone crops out along the southwestern boundary. The Del Rio Clay at the site is characterized by a gradational weathered zone ranging in depths between 35 to 60 feet. This weathered stratum consists of blocky, fractured and fissured clay/shales interbedded with siltstone and limestone beds. The weathered strata exhibit various colors described as brown, tan, greenish-gray and reddish-brown resulting from oxidation of minerals in the clays. Gypsum filled fractures and slickensides are common. The unweathered zone in the Del Rio Clay is gray to blue-gray with scattered, very tight, nearly vertical fractures.

9.2 Fault Lines

City of Del Rio Landfill and the surrounding area were examined for the presence of geologic faulting in conformance with Title 30 TAC §330.555 criteria. This included a review of previous fault investigations, available literature and maps, and a current aerial photograph. The previous studies indicated that there are no faults at the landfill site. The 1994 fault study involved an extensive site inspection along outcrops and creek beds, evaluation of possible fault lineations on aerial photographs for the years 1947 (scale: 1 inch = 1000 feet), 1983 (Scale: 1 inch = 300 feet) and 1990 (Scale: 1 inch = 1000 feet) and review of geologic maps of the area. Only one possible fault was identified within 1 mile of the site located about 3/4 of a mile to the west along Highway 277. Several small displacement faults (less than 25 feet) were located in the vicinity (outside of one mile) during the previous study.

The faults in the area are believed to be associated with the Balcones Fault Zone. Faulting occurred throughout most of the Cretaceous Period and continued into early Tertiary time. Faulting along the Balcones Fault Zone has been inactive since Pleistocene time, some two million years ago.

Therefore, the site is in compliance with the fault areas location restriction. The certification of compliance with the fault area location restriction is presented in Appendix I/IIC.

9.3 Seismic Impact Zone

The seismic impact zone location restriction defined by Title 30 TAC §330.557 is an area with a 10 percent or greater probability that the maximum horizontal acceleration in rock, expressed as a percentage of the earth's gravitational pull, will exceed 0.10g in 250 years. According to the USGS earthquake hazard data, the site-specific maximum horizontal seismic acceleration estimated at a 10 percent probability of exceedance in a 250-year time period is 0.095g (9.5 percent of the force of gravity). As such, the USGS-derived site-specific horizontal acceleration is lower than the 10 percent of the force of gravity or greater horizontal acceleration required for seismic impact zone classification. Drawing I/IIC-3 in Appendix I/IIC is a USGS seismic impact zone map of Texas. As shown on this drawing, the site is not located within a seismic impact zone. For these reasons, the City of Del Rio Landfill is in compliance with the seismic impact zone location restriction. The seismic impact zone location restriction demonstration is included in Appendix I/IIC.

9.4 Unstable Areas

Title 30 TAC §330.559 notes that an unstable area is defined to be a location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all of a landfill's structural components responsible for preventing releases from the landfill: unstable areas can include poor

foundation conditions, areas susceptible to mass movement, and karst terrains. As discussed in Appendix I/IIC, Section 10, the soils at the landfill site provide suitable characteristics for a stable foundation and the soils are not susceptible to settlement conditions. The soils have an expansive character; however, the depth of the excavations and engineering design incorporating recompacted clay liners will limit shrink/swell movements that could effect containment integrity. Clay liners will be protected from shrinkage by prompt placement of waste debris, daily soil cover and final cover. The unstable areas location restriction demonstration is included in Appendix I/IIC.

10.0 GROUNDWATER AND SURFACE WATER STATEMENT

10.1 Groundwater Statement

The City of Del Rio Landfill doesn't have or operate a groundwater monitoring system. A waiver was originally requested and granted in the 1994 Alternative Liner Demonstration. The 2020 the permit was amended to expand the landfill vertically and the City was able to obtain an extension to the existing groundwater waiver. The City is requesting to extend the waiver as part of this Major Permit Amendment Application.

The pervious waivers were granted based on geotechnical investigation findings. The initial investigation (1986) for the permit amendment concluded that there was no shallow groundwater system in the Del Rio clay. The eight piezometers installed in March 1994 to monitor the groundwater activities around the site were all dry on drilling and remained dry over the observation period. In the 2020 geotechnical investigation, 17 borings were drilled in the expansion area and 9 of the borings were turned into piezometers. Water was encountered only in three of the piezometers. It was determined that the water encountered in the three piezometers are perched water and not part of a groundwater system. Based on three geotechnical investigations, the soil characterization of the Del Rio clay and the dry climate in the region it was concluded that there is no shallow groundwater at the site in the weathered-unweathered Del Rio Clay transition.

10.2 Surface Water Statement

The permit boundary encompasses approximately 180.6 acres located southeast of Calaveras Creek. A portion of the site drains to northwest to Calaveras Creek. The other portion of the site drains southeast to the Zorro Creek. Both the Calaveras and Zorro Creeks discharge into the Rio Grande.

For the proposed expansion, the final cover system will include erosion control structures to effectively minimize erosion of final cover soils. The proposed drainage system also includes a perimeter channel system that will convey stormwater collected from the landfill area to the detention ponds or directly into existing drainage channels that feeds the Calaveras and Zorro Creeks. The stormwater detention ponds are designed to attenuate stormwater flow before stormwater is discharged into existing drainage features located downstream of the site. As discussed in Appendix IIH the site's stormwater management system is designed to not adversely alter existing permitted drainage patterns or have any adverse impact on offsite drainage features.

The facility has been designed to prevent discharge of pollutants into waters of the State or waters of the United States, as defined by the Texas Water Code and the Federal Clean Water Act, respectively. The City of Del Rio Landfill has a current Texas Pollution Discharge Elimination System (TPDES) multi-sector general permit (MSGP) for industrial activity as stipulated under Section 402 of the Clean Water Act and under Chapter 26 of the Texas Water Code, the TPDES program. A copy of the multi-sector permit is included in Parts I/II, Appendix I/IID. Any stormwater that has become contaminated by contact with the working face or with leachate will be handled in accordance with Appendix IIIC - Leachate and Contaminated Water Management Plan. The facility maintains a current Stormwater Pollution Prevention Plan prepared consistent with the provisions of TPDES MSGP (Permit No. TXR05BY31). Given the above, the applicant is in full compliance with TPDES under the Clean Water Act, Section 402, as amended. The facility's construction and operations shall not cause or contribute to violations of any applicable state water quality standard, violation of any applicable toxic effluent standard or prohibition under the Clean Water Act §307; jeopardize the continued existence of endangered or threatened species or result in the

destruction or adverse modification of a critical habitat, protected under the Endangered Species Act of 1973, or violate any requirement under the Marine Protection, Research, & Sanctuaries Act of 1972 for the protection of marine sanctuary.

11.0 FLOODPLAINS AND WETLANDS STATEMENT

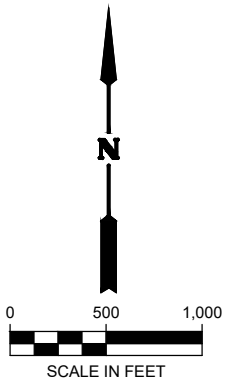
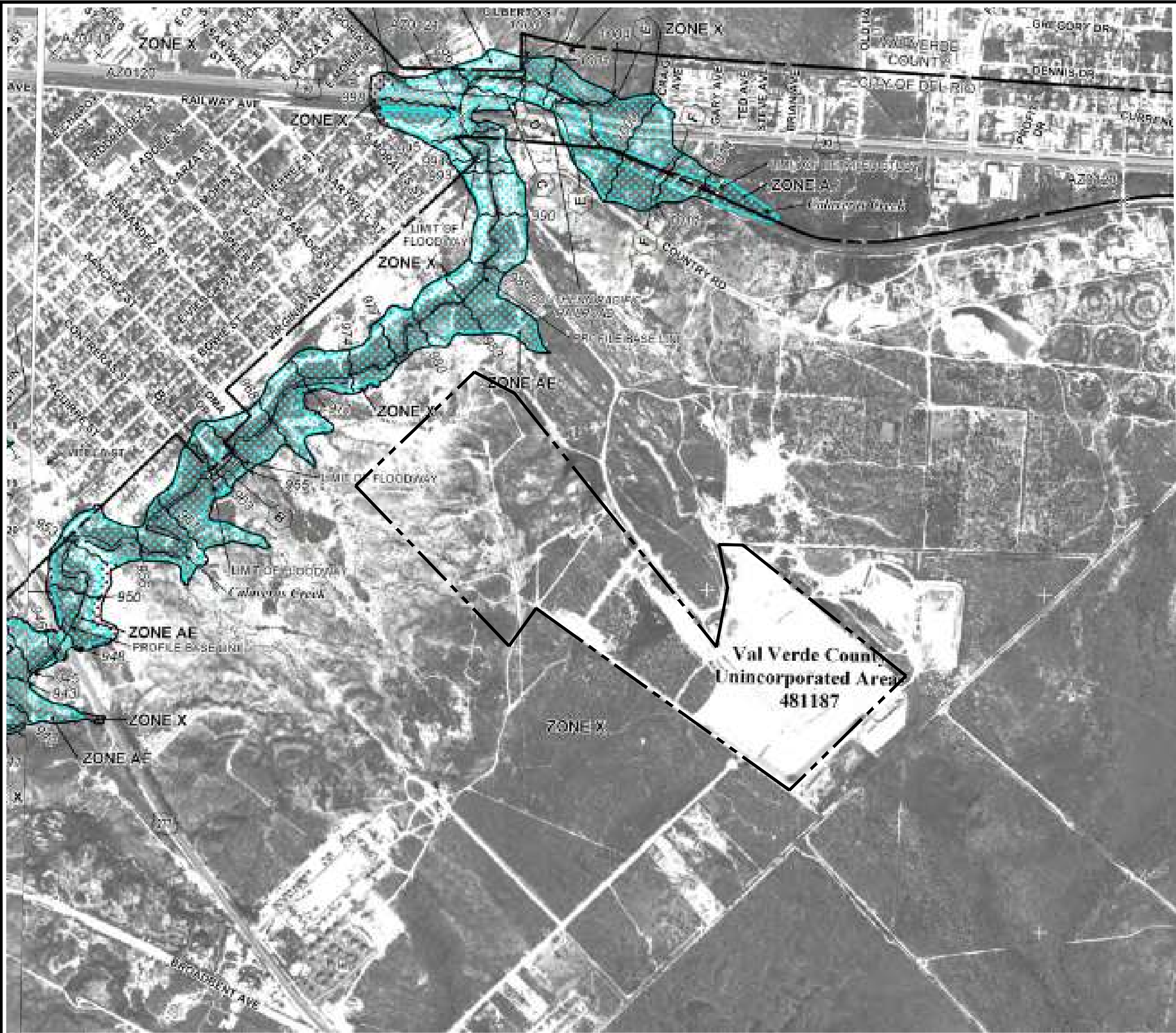
11.1 Floodplains Statement

As shown on Figure I/II-11.1, the existing landfill permit boundary is not located within the 100-year floodplain as defined by the Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM) for Val Verde County, Texas and incorporated areas.

Compliance with the floodplain location restriction is further discussed in Appendix I/II.C.

11.2 Wetlands Statement

The area within the permit boundary of the City of Del Rio Landfill was evaluated for compliance with wetlands provisions, including the determination and identification requirements in Title 30 TAC §330.61(m)(2) and (3) and the wetlands location restriction in §330.553(b). Although there are wetlands within the permit boundary of the City of Del Rio Landfill, the limit of waste is not located in wetlands. There will be some areas of the wetlands that will be filled for channel and road grading. The wetland areas that will be filled will be less than tenth of an acre and will be covered under a 404 Nation Wide permit during construction. No waste will be placed within the wetland areas, therefore the site is in compliance with the wetlands location restriction.




LEGEND
--- PERMIT BOUNDARY





- NOTE:
1. REPRODUCED FROM FEMA FIRM NUMBERS 48465C1755D FOR DEL RIO, TEXAS AND INCORPORATED AREAS, EFFECTIVE DATE JULY 22, 2010.

FOR PERMITTING PURPOSES ONLY



TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741





NO.	REVISION	BY	DATE

CITY OF DEL RIO LADELL NO. 207C
MAJOR PERMIT AMENDMENT

FLOOD INSURANCE RATE MAP (FIRM)

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/II-11.1

12.0 PROTECTION OF ENDANGERED SPECIES

A written request regarding endangered or threatened species or their critical habitat with respect to the site was sent to the U.S. Fish and Wildlife Service (FWS) and the Texas Parks and Wildlife Department (TPWD). Correspondence with the FWS and TPWD is included in Appendix I/IIB. In addition, a site specific threatened and endangered species habitat assessment was completed by CP&Y (refer to the TPWD and FWS in Appendix I/IIB). This study concluded that the area within the landfill permit boundary does not provide habitat for nor has critical habitat been designated in the project area for any federally listed threatened or endangered species. Therefore, it is concluded that the expansion of the City of Del Rio Landfill will not result in the destruction or adverse modification of the critical habitat of any federally listed threatened or endangered species, or cause or contribute to the taking of any federally listed threatened or endangered species. Given the above, the facility is in compliance with all applicable federal, state, and local laws regarding threatened or endangered species.

13.0 LEGAL DESCRIPTION

A legal description of the 180.6-acre permit boundary is included on the following pages. This area is shown on the attached drawing.

The City of Del Rio has 100% ownership of the landfill. Current ownership records for the property may be found in Val Verde County Real Property records.

LEGAL DESCRIPTION
For a 180.650 Acre Tract of Land

BEING A 180.650 ACRE TRACT OF LAND OUT OF THE S. BARTON SURVEY NO. 604, ABSTRACT NO. 1831, JESSE ROBINSON SURVEY NO. 764, ABSTRACT NO. 1332, NANCY C. JONES SURVEY NO. 941, ABSTRACT NO. 1275, AND THE NANCY C. JONES SURVEY NO. 941-1/2, ABSTRACT NO. 1276, VAL VERDE COUNTY, TEXAS, ALSO BEING COMPRISED OF THE FOLLOWING TWO (2) TRACTS CONVEYED TO THE CITY OF DEL RIO, TEXAS, BY THE FOLLOWING DEEDS: 1) ALL OF A 75.00 ACRE TRACT RECORDED IN VOLUME 871, PAGE 116, OFFICIAL PUBLIC RECORDS OF VAL VERDE COUNTY, TEXAS (O.P.R.V.V.C.T.), AND 2) PART OF A 179.924 ACRE TRACT RECORDED IN VOLUME 500, PAGE 222, DEED RECORDS OF VAL VERDE COUNTY, TEXAS (D.R.V.V.C.T.); SAID 180.650 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING at a 1/2" iron rod found on the northwest line of a 1734.90 acre tract called "Tract 1" as described in a General Warranty Deed dated October 30, 2019 to Val Verde County, Texas, recorded in Document No. 00316621 of said O.P.R.V.V.C.T., being the south corner of said 179.924 acre tract and the east corner of Lot 19, Las Palmas Subdivision Unit 2, a subdivision recorded in Slide 332, Side B, Map Records of Val Verde County, Texas;

THENCE, N. 54°52'40" W., with the common line between said 179.924 acre tract and said Lot 19 of Las Palmas Subdivision Unit 2, a distance of **381.58 feet** to a 1/2" iron rod with orange plastic cap stamped "BAIN MEDINA BAIN INC. PROPERTY CORNER" set (N=7,640.72, E=9,104.06), for the south corner and **POINT OF BEGINNING** of the herein described tract;

THENCE, N. 54°52'40" W., continuing with the southwest line of said 179.924 acre tract, the northeast line of Las Palmas Subdivision Unit 2, and the northeast line of the remaining portion of a 644.30 acre tract described in a Warranty Deed dated October 12, 1995 to Mirador, Inc, recorded in Volume 628, Page 126 of said O.P.R.V.V.C.T., a distance of **3088.95 feet** to a 1/2" iron rod found, being the southwest corner of said 179.924 acre tract and an angle point on the southeast line of said 75.00 acre tract, for an interior corner of the herein described tract;

THENCE, with the southeast and southwest lines of said 75.00 acre tract, the following two (2) courses:

- 1) **S. 35°06'39" W.**, a distance of **460.06 feet** to a 1/2" iron rod found, being the south corner of said 75.00 acre tract, for a corner the herein described tract;
- 2) **N. 44°19'42" W.**, a distance of **2196.56 feet** to a 1/2" iron rod found on the southeast line of a 74.7 acre tract described in a General Warranty Deed dated April 6, 2012 to Red River Service Corporation, recorded in Document No. 00270188 of said O.P.R.V.V.C.T., being the west corner of said 75.00 acre tract, for the west corner the herein described tract;

THENCE, N. 45°40'01" E., with the northwest line of said 75.00 acre tract and the southeast line of said 74.7 acre tract, a distance of **1629.51 feet** to a 1/2" iron rod found, being the north corner of said 75.00 acre tract and a west corner of a 102.56 acre tract described in a General Warranty Deed dated December 15, 1969 to the City of Del Rio, Texas, recorded in Volume 214, Page 351 of said D.R.V.V.C.T., for the north corner of the herein described tract;

THENCE, leaving the southeast line of said 74.7 acre tract, with the northeast line of said 75.00 acre tract and said 179.924 acre tract, and the southwest line of said 102.56 acre tract, the following three (3) courses:

- 1) **S. 62°38'37" E.**, a distance of **451.66 feet** to a 1" iron pipe found for an angle point;
- 2) **S. 39°01'45" E.**, a distance of **1461.95 feet** to a 1/2" iron rod found, being the east corner of said 75.00 acre tract and the most northerly northwest corner of said 179.924 acre tract, for an angle point;
- 3) **S. 39°05'27" E.**, a distance of **1748.16 feet** to a concrete monument with 3" brass disk found, being an interior corner of said 179.924 acre tract and the south corner of said 102.56 acre tract, for an interior corner of the herein described tract;

THENCE, Northerly, with the common line between said 179.924 acre tract and said 102.56 acre tract, the following two (2) courses:

- 1) **N. 10°09'53" E.**, a distance of **594.10 feet** to a 12" cedar fence post found for an angle point;
- 2) **N. 11°50'14" W.**, a distance of **439.95 feet** to a 1/2" iron rod with yellow plastic cap stamped "CDS MUERY" found, being a northwest corner of said 179.924 acre tract and the most southerly southwest corner of a 316.38 acre tract described in a Warranty Deed dated June 22, 2018 to FUA Investments, LLC, recorded in Document No. 00308515 of said O.P.R.V.V.C.T., for a corner of the herein described tract;

THENCE, S. 89°27'40" E., leaving the east line of said 102.56 acre tract, with the common line between said 179.924 acre tract and said 316.38 acre tract, a distance of **236.59 feet** to a 1/2" iron rod with orange plastic cap stamped "BAIN MEDINA BAIN INC. PROPERTY CORNER" set for an angle point, from said point, a 2-1/2" iron pipe found on the northwest line of said 1734.90 acre tract, being the northeast corner of said 179.924 acre tract and the southeast corner of said 316.38 acre tract, bears **S. 89°27'40" E.**, **3446.04 feet**;

THENCE, leaving the south line of said 316.38 acre tract, across said 179.924 acre tract, the following two (2) courses:

- 1) **S. 51°00'16" E.**, a distance of **2078.93 feet** to a 2-1/2" iron pipe found for the east corner of the herein described tract;
- 2) **S. 45°22'36" W.**, at **1583.08 feet**, pass a railroad spike found in concrete, and continuing a total distance of **1588.37 feet** to the **POINT OF BEGINNING** and containing 180.650 acres of land.

Property Owner Name: City of Del Rio, Texas

Bearings and coordinates are based on the City of Del Rio Landfill Coordinate System.

This property description is accompanied by a separate plat of even date.

Surveyed on the ground the 31st day of July 2020.




Gregorio Lopez, Jr., RPLS #5272

SURVEY PLAT SHOWING

A 180.650 ACRE TRACT OF LAND OUT OF THE S. BARTON SURVEY NO. 604, ABSTRACT NO. 1831, JESSE ROBINSON SURVEY NO. 764, ABSTRACT NO. 1332, NANCY C. JONES SURVEY NO. 941, ABSTRACT NO. 1275, AND THE NANCY C. JONES SURVEY NO. 941-1/2, ABSTRACT NO. 1276, VAL VERDE COUNTY, TEXAS, ALSO BEING COMPRISED OF THE FOLLOWING TWO (2) TRACTS CONVEYED TO THE CITY OF DEL RIO, TEXAS, BY THE FOLLOWING DEEDS: 1) ALL OF A 75.00 ACRE TRACT RECORDED IN VOLUME 871, PAGE 116, OFFICIAL PUBLIC RECORDS OF VAL VERDE COUNTY, TEXAS, AND 2) PART OF A 179.924 ACRE TRACT RECORDED IN VOLUME 500, PAGE 222, DEED RECORDS OF VAL VERDE COUNTY, TEXAS.

WILLIAM H. DANGERFIELD SURVEY NO. 477
ABSTRACT NO. 1621

I. & G. N. R. R. CO. SURVEY NO. 9
ABSTRACT NO. 1207

RED RIVER SERVICE CORPORATION
(74.7 ACRES)
DOC. NO. 00270188, O.P.R.V.V.C.T.

NANCY C. JONES SURVEY NO. 941
ABSTRACT NO. 1275

CITY OF DEL RIO, TEXAS
(75.00 ACRES)
VOL.871, PG.116, O.P.R.V.V.C.T.

CITY OF DEL RIO, TEXAS
(102.56 ACRES)
VOL.214, PG.351, D.R.V.V.C.T.

NANCY C. JONES SURVEY NO. 941-1/2
ABSTRACT NO. 1276

JESSE ROBINSON SURVEY NO. 764
ABSTRACT NO. 1332

FUA INVESTMENTS, LLC
(316.38 ACRES)
DOC. NO. 00308515, O.P.R.V.V.C.T.

180.650 ACRES

CITY OF DEL RIO, TEXAS
(179.924 ACRES)
VOL.500, PG.222, D.R.V.V.C.T.

CITY OF DEL RIO, TEXAS
(179.924 ACRES)
VOL.500, PG.222, D.R.V.V.C.T.

MIRADOR, INC.
REMAINDER OF (644.30 ACRES)
VOL.628, PG.126, O.P.R.V.V.C.T.

S. BARTON SURVEY NO. 604
ABSTRACT NO. 1831

MIRADOR, INC.
REMAINDER OF (644.30 ACRES)
VOL.628, PG.126, O.P.R.V.V.C.T.

CITY OF DEL RIO, TEXAS
(179.924 ACRES)
VOL.500, PG.222, D.R.V.V.C.T.

ERASTUS SMITH SURVEY NO. 153
ABSTRACT NO. 1338

VAL VERDE COUNTY, TEXAS
TRACT 1 (1734.90 ACRES)
DOC. NO. 00316621, O.P.R.V.V.C.T.

LEGEND

- 1/2" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
- 2-1/2" GALVANIZED IRON PIPE FOUND (UNLESS OTHERWISE NOTED)
- 1/2" IRON ROD WITH ORANGE PLASTIC CAP STAMPED "BAIN MEDINA BAIN, INC. PROPERTY CORNER" SET
- D.R.V.V.C.T. DEED RECORDS OF VAL VERDE COUNTY, TEXAS
- M.R.V.V.C.T. MAP RECORDS OF VAL VERDE COUNTY, TEXAS
- O.P.R.V.V.C.T. OFFICIAL PUBLIC RECORDS OF VAL VERDE COUNTY, TEXAS
- () RECORD INFORMATION

BEARING BASIS:
THE BEARINGS SHOWN HEREON ARE BASED ON THE DEL RIO LANDFILL COORDINATE SYSTEM. DISTANCES SHOWN ARE SURFACE DISTANCES.

THIS SURVEY PLAT IS ACCOMPANIED BY A LEGAL DESCRIPTION OF EVEN DATE.

STATE OF TEXAS }
COUNTY OF BEXAR }

THIS SURVEY PLAT WAS PREPARED FROM AN ACTUAL SURVEY MADE ON THE GROUND UNDER MY SUPERVISION, THIS 31ST DAY OF JULY, 2020 A.D.

Gregorio Lopez, Jr.
GREGORIO LOPEZ, JR.
REGISTERED PROFESSIONAL LAND SURVEYOR
NO. 5272 - STATE OF TEXAS



DEL RIO LANDFILL SITE
180.650 ACRES

PREPARED BY:
BAIN MEDINA BAIN
ENGINEERS & SURVEYORS
7073 San Pedro
San Antonio, Texas 78216
210-454-7223
TEPE NO. F-1712
TLEP REG. NO. 100206-00

DESIGNED BY:	XX
DRAWN BY:	G.L.
APPROVED BY:	G.L.
DATE:	08-04-2020
JOB NO.:	S-0893.02
PAGE	4 OF 4

14.0 PROPERTY OWNER AFFIDAVIT

The property owner affidavit from City of Del Rio, with attached legal description is included on the following pages.

PROPERTY OWNER’S AFFIDAVIT

On this day, _____, appeared before me, the undersigned notary public, and after I administered an oath to him, upon this oath he said:

“My name is _____. I am the City Manager of the City of Del Rio, and I am authorized to make the following statements on behalf of the City of Del Rio.

The City of Del Rio is the owner of certain real property in Val Verde County, Texas, included the tract(s) described in Exhibit A attached hereto (“the Property”), which is included in the permitted area of its Del Rio Landfill municipal solid waste landfill facility (“the Facility”), pursuant to amendment of Texas Commission on Environmental quality Permit No. MSW-207B.

The City of Del Rio hereby acknowledges that the State of Texas may hold the property owner of record either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the Facility on the Property.

The City of Del Rio hereby acknowledges that the owner of the Property has the responsibility to file in the deed records of Val Verde County an affidavit to the public advising that the Property will be used for a solid waste facility prior to the time that the Facility actually begins operating as a municipal solid waste landfill facility on the Property, and to file a final recording upon completion of disposal operations and closure of the landfill units on the Property in accordance with 30 TAC §330.19.

The City of Del Rio hereby acknowledges that the Facility owner or operator and the State of Texas shall have access to the Property during the active life and post-closure care of the Facility for the purpose of inspection and maintenance.

John A. Sheedy IV
City Manager
City of Del Rio

SWORN TO AND SUBSCRIBED before me by _____ on the _____ day
of _____, 2023.

Notary Public

15.0 LEGAL AND SIGNATORY AUTHORITY

The applicant and owner of the landfill is the City of Del Rio. Since the applicant is a municipality §330.59(e) is not applicable.

The certificate of signatory authority is provided on the following page and meets the requirements of Title 30 TAC 305.443)(b).

DELEGATED SIGNATORY AUTHORITY

Tony Baker
Executive Director
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Dear Mr. Baker:

I am an Authorized Agent of the City of Del Rio.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

John A. Sheedy IV
City Manager

SWORN TO AND SUBSCRIBED BEFORE ME by _____ on the _____ day
of _____, 2023, which witness my hand and seal of office.

Notary Public in and for the State of Texas

Printed Name

My Commission Expires _____

16.0 EVIDENCE OF COMPETENCY

16.1 Experience

The City of Del Rio Landfill is owned by the City of Del Rio and currently being operated by Platform Waste Solutions LLC. The contractor, or his successor is referred to as the “Landfill Operator” in this plan. The Landfill operator is responsible for the day-to-day operation of the landfill.

The City has owned and successfully managed the City of Del Rio Landfill for over 30 years. The City does not own, operate or have direct financial interest in other solid waste sites within Texas, other states, territories, or countries. The City of Del Rio Landfill is the only site that Platform Waste Solutions LLC operates in Texas. Platform Waste Solutions LLC does not have any financial interest in the City of Del Rio Landfill. Platform Waste Solutions LLC does not own, operate or have direct financial interest in any solid waste sites within Texas now.. Below is a list of sites that Platform Waste Solutions LLC has operated within the past 10 years in other states, territories, or countries.

1. Blackhills Environmental Partners, LLC (BHEP)

Location:

22297 149th Ave

Box Elder, SD 57719

Operating Dates:

October 2012 - Dec 2016

Name of Regulatory Agency:

South Dakota Department of Environment and Natural Resources(DENR)

523 E Capital Ave

Pierre, SD 57501

2. Fort Knox Refuse and Landfill Services

Location:

Fort Knox Landfill

Baker Rd

Fort Knox, KY 40121

Operating Dates:

April 2014 – April 2019

April 2020 – Current

Name of Regulatory Agency:

Environment Management Division

US Army Fort Knox, KY

16.2 City of Del Rio Landfill Key Personnel

The principals and supervisors for the owner and operator of the facility do not have any previous affiliations with other solid waste organizations. The key personnel involved in the management and operations of the City of Del Rio Landfill are:

16.2.1 John A. Sheedy IV, City Manager

The Responsibility for overall facility management and operation rests with the Del Rio City Council. The Council working through the City Manager is responsible for assuring adequate personnel and equipment are available for facility operation in accordance with the landfill permit. The City Manager delegates responsibility to the City's Public Works Director/City Engineer for directing the activities of the City of Del Rio Landfill.

16.2.2 Alberto Quintanilla P.E., Public Works Director/City Engineer

The Public Works Director/City Engineer is designated as the contact person for matters related to regulatory compliance and management of the refuse collection and Landfill Operator. Public Works Director/City Engineer plans, organizes, directs, and controls the activities of the department, and specifically supervises the Refuse Department (waste collection and disposal). The Public Works Director/City Engineer has project management responsibility for the landfill, a long-term civil project, including working with outside consulting engineers on landfill construction and planning projects. The Public Works Director/City Engineer oversees landfill development, operation performance of mandated controls, and permit compliance; ensures the timely preparation of recurring reports, such as reports to regulatory agencies; and administers contracts. The Public Works Director/City Engineer studies new regulations, outlining proposed compliance plans, studies and reports of new procedures and equipment, implementation of control procedures including personnel training, and provides administrative continuity in the absence of the Director.

16.2.3 Rene Maldonado, Landfill Coordinator

Duties include supervising landfill crews, coordinating with the Landfill Contractor (Platform Waste Solutions LLC) on the planning, organizing, and direct daily oversight of landfill operations; conducting a variety of technical tasks including scheduling of City's manpower and equipment; assigning and prioritizing work assignments for the City landfill crews; managing waste disposal and diversion; supervising the construction of earthwork projects (levees, berms, ditches, stockpiles, etc.) with onsite labor and equipment; coordinating with other departments and contract construction crews as needed; ensure that the landfill is operating within the local, state, and federal regulations pertaining to solid waste; managing concerns and complaints from citizens and other landfill users, providing and coordinating City staff training and discipline procedures, and maintaining thorough effective communications with the Landfill Contractor. A high school diploma or equivalent, four years increasingly responsible experience and a Class B Texas driver's license is required for the position. Additional experience in landfill work, computer usage, and supervision is preferred. The Landfill Coordinator shall possess a TCEQ issued Class A License prescient to 30 TAC Chapter 30, Subsection F, and a waste screening certificate.

16.2.4 Chris Bix, Chief Executive Officer – Platform Diversified Logistics

Chris Bix joined Platform Capital in 2021, serving as CEO of Platform Logistics. Mr. Bix holds a BS degree in Engineering Management from Missouri University of Science and Technology. Mr. Bix is a seasoned executive with President, Chief Operating Officer and Chief Information Officer experience in Mid-Market and private equity owned arenas. Known for learning the business at the ground level, building teams and developing talent. Mr. Bix has successfully executed 3 acquisitions and 2 private equity sales processes. Mr. Bix's career has included building high performing teams in Transportation, Retail, Tax Software and IT Consulting for both Mid-Market companies and Fortune 500 companies. Experience includes Team DriveAway, Beauty Brands, HR Block, and Accenture. Known for building high performing teams through positive, servant leadership which translates across all industries.

16.2.5 Tim Giardina, Chief Operating Officer – Platform Waste Solutions

Mr. Giardina is a high energy executive with proven track record of successfully transforming underperforming businesses for national companies. Forward thinking, results oriented, focused with proven analytical ability. A business growth-oriented change leader experienced in safety and compliance, customer service, sales, employee relations, maintenance, profit and loss, forecasting, and performance management responsibilities. Mr. Giardina has over 37 years' landfill, hauling and MRF experience in the waste industry with national providers of waste services.

16.2.6 Kenny McCarty, Sr. Operations Manager – Platform Waste Solutions

Mr. McCarty is a 35-year veteran of the solid waste industry and assists with oversight over all operational programs within the Company. A graduate of Western Kentucky University, Mr. McCarty joined Browning-Ferris Industry in the Washington, D.C. market and later directed the company's fleet operations for the Northeast US and Canada. In addition to overseeing all equipment maintenance programs, he also assisted in design / build projects for recycling processing as well as medical waste autoclaving and incineration plants. Leaving the Corporate environment, he later started and grew his own solid waste operations becoming the largest independent full-service hauler in his marketplace. After selling his operations to Veolia Waste, Mr. McCarty assumed regional management positions for industry leaders Waste Management and Advanced Disposal. Just prior to joining Platform Waste Solutions, he served as Corporate Fleet Director for Meridian Waste

16.2.7 Jose Huerta, General Manager – Platform Waste Solutions, Del Rio Office

Mr. Huerta is a 16-year veteran of the waste and recycle industry. He is the General Manager for the hauling and landfill operations in Del Rio. Mr. Huerta started his career working for crown recycling as a machine operator and moved his way up to General Manager of Platform Waste. Mr. Huerta oversees the day-to-day operation of all landfill and hauling operations in compliance with federal, state and local laws.

16.3 Equipment

The equipment listed in Part IV, Site Operating Plan is used to operate this site. Additional or different units of equipment may be provided as necessary to enhance operational efficiency. Other equivalent types of equipment may be substituted for this equipment on an as-needed basis.

CITY OF CITY OF DEL RIO LANDFILL

**VAL VERDE COUNTY, TEXAS
TCEQ PERMIT NO. MSW-207C**

MAJOR PERMIT AMENDMENT APPLICATION PARTS I/II – GENERAL APPLICATION REQUIREMENTS

APPENDIX I/II A FACILITY LAYOUT FIGURES

Prepared for
City of Del Rio

September 2023

Prepared by
STV Inc.
TPBE Registration No. F-1741
1820 Regal Row, Suite 200
Dallas, TX 75235
214-638-0500

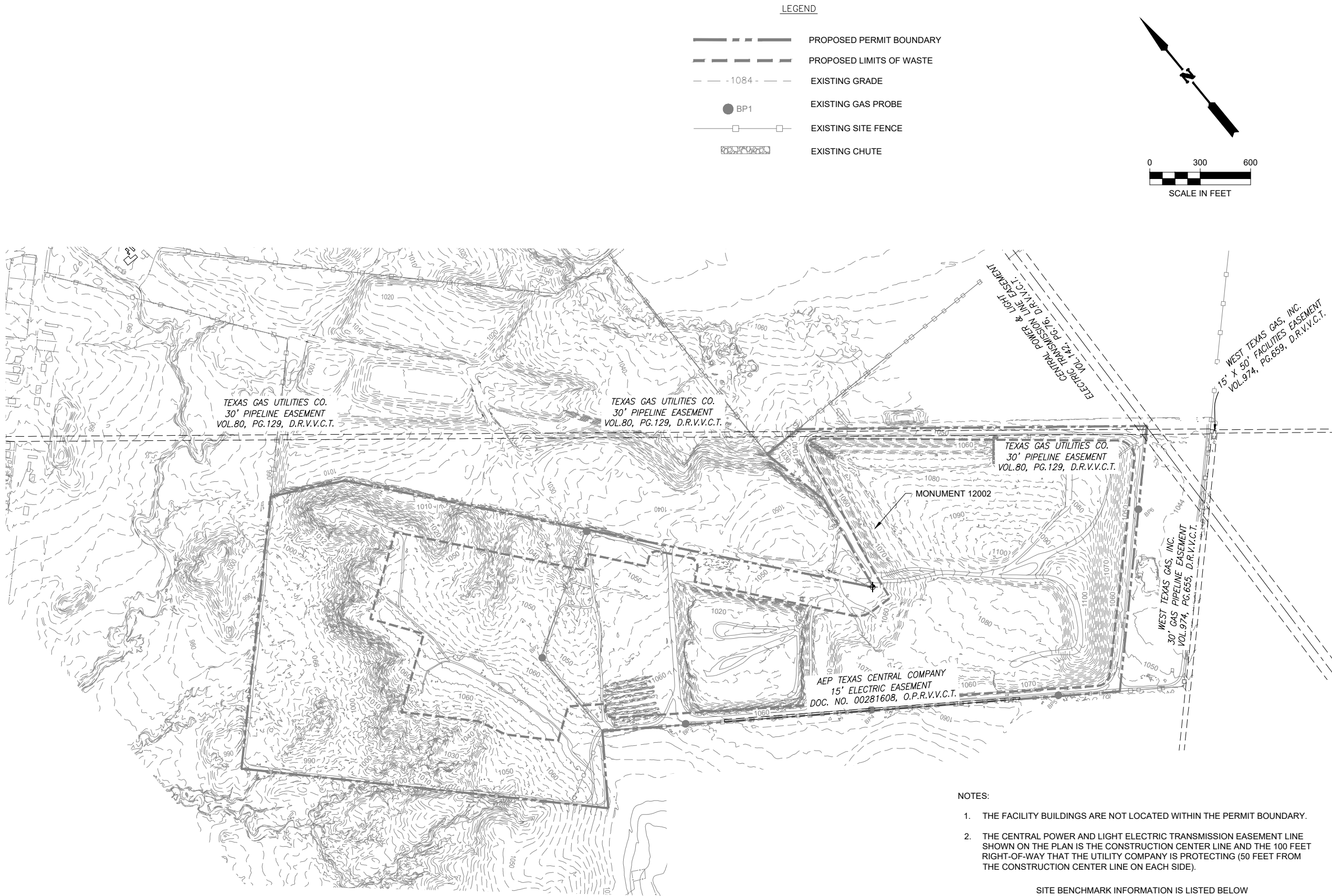


This document is intended for permitting purposes only.

TABLE OF CONTENTS

Figure I/IIA.1	General Site Plan
Figure I/IIA.2	Sector Development Plan
Figure I/IIA.3	Excavation Plan
Figure I/IIA.4	Sector Development Sequence
Figure I/IIA.5	Landfill Completion Plan
Figure I/IIA.6	Cross Section A
Figure I/IIA.7	Access Control Plan






- NOTES:
- THE FACILITY BUILDINGS ARE NOT LOCATED WITHIN THE PERMIT BOUNDARY.
 - THE CENTRAL POWER AND LIGHT ELECTRIC TRANSMISSION EASEMENT LINE SHOWN ON THE PLAN IS THE CONSTRUCTION CENTER LINE AND THE 100 FEET RIGHT-OF-WAY THAT THE UTILITY COMPANY IS PROTECTING (50 FEET FROM THE CONSTRUCTION CENTER LINE ON EACH SIDE).


SITE BENCHMARK INFORMATION IS LISTED BELOW


SITE BENCHMARK INFORMATION			
MONUMENT	NORTHING	EASTING	ELEVATION (FT-MSL)
12002	13681568.26	1378001.94	1051.10

FOR PERMITTING PURPOSES ONLY



TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741





NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL	
	DRAWING	VERIFY LENGTH ON THIS SHEET	
		1" AND ADJUST SCALE ACCORDINGLY.	

CITY OF DEL RIO LANDELL NO. 207C
MAJOR PERMIT AMENDMENT

GENERAL SITE PLAN

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

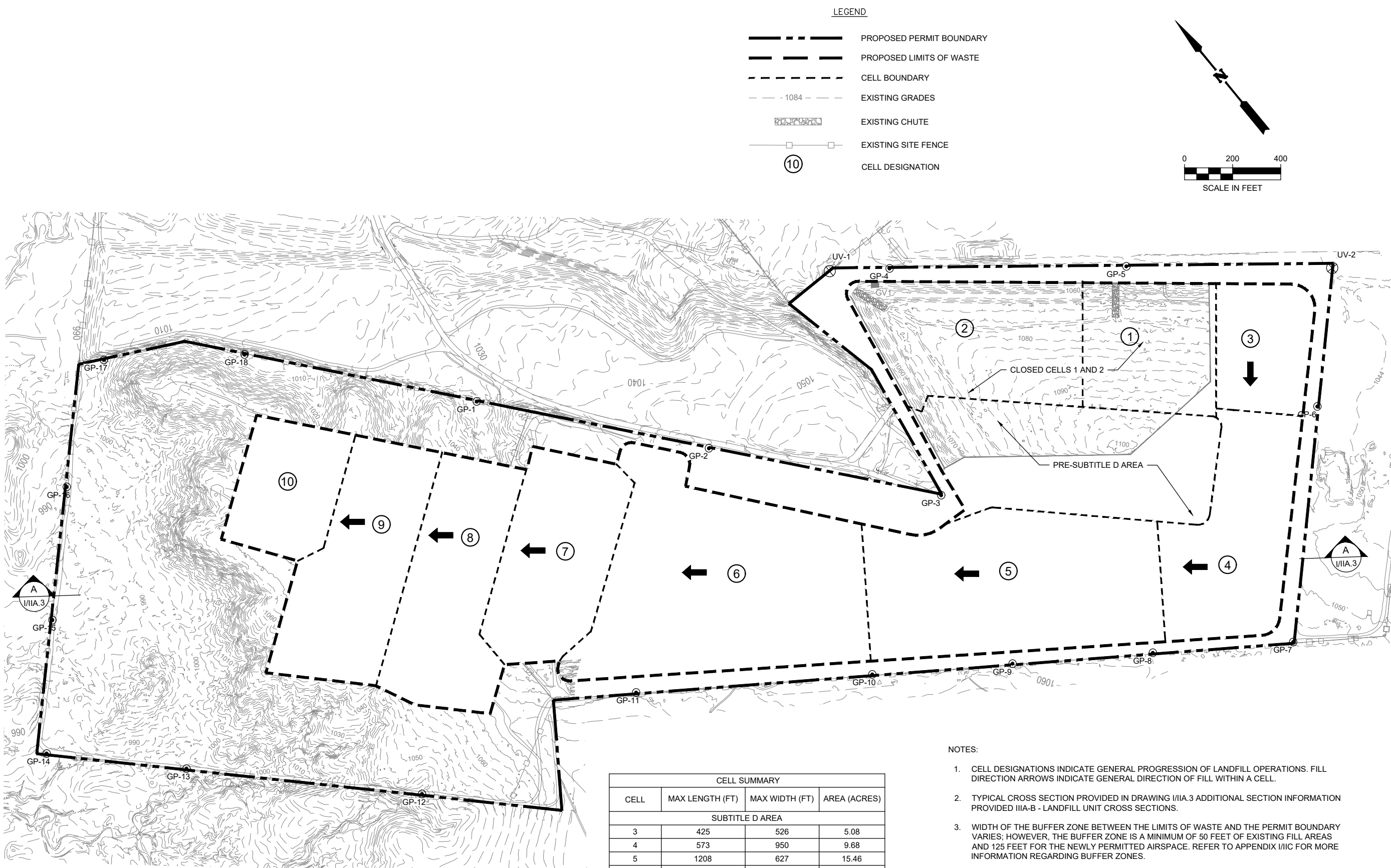
FIGURE
I/IIA.1

NO.	REVISION	BY	DATE

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

SECTOR DEVELOPMENT PLAN

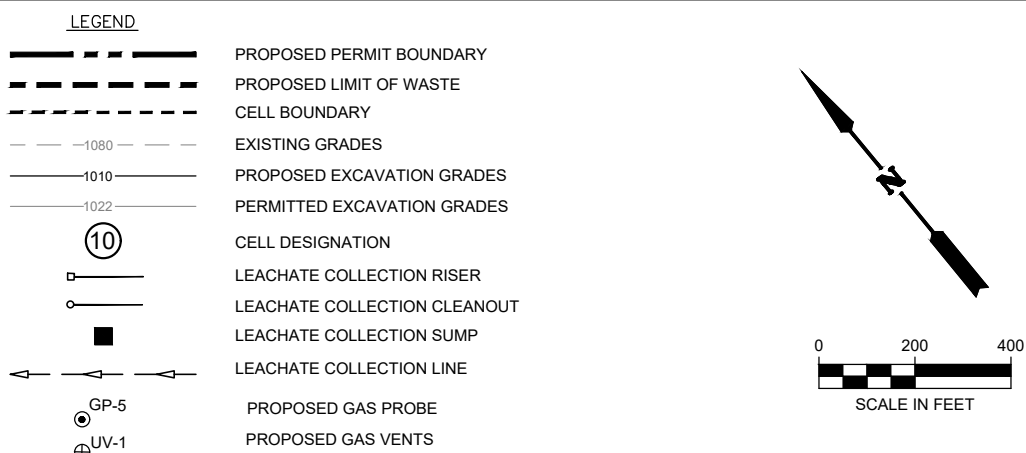
DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIA.2

CELL SUMMARY			
CELL	MAX LENGTH (FT)	MAX WIDTH (FT)	AREA (ACRES)
SUBTITLE D AREA			
3	425	526	5.08
4	573	950	9.68
5	1208	627	15.46
6	945	1064	18.95
7	881	446	8.67
8	1050	489	9.30
9	1028	455	9.66
10	545	419	5.23

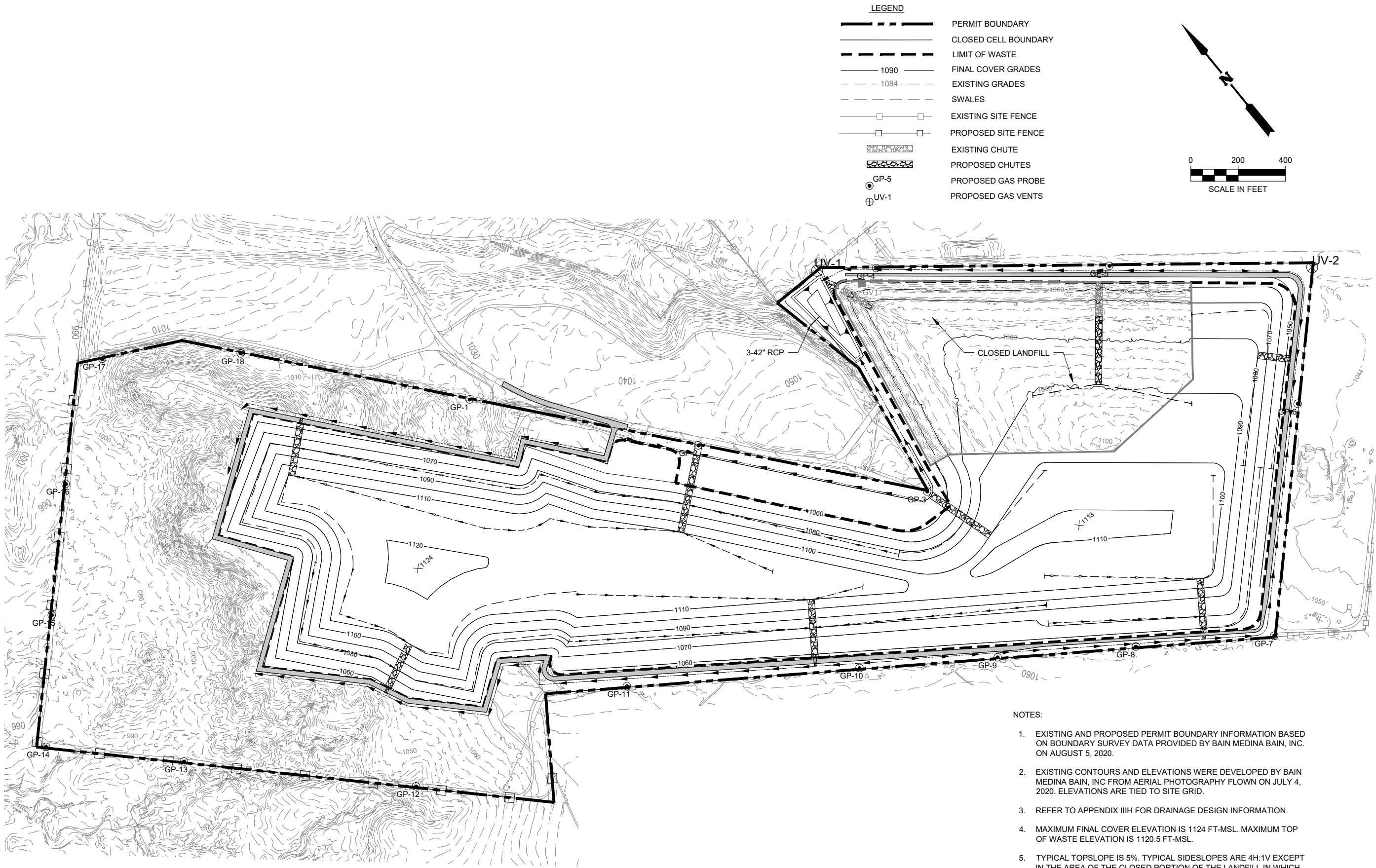
- NOTES:
1. CELL DESIGNATIONS INDICATE GENERAL PROGRESSION OF LANDFILL OPERATIONS. FILL DIRECTION ARROWS INDICATE GENERAL DIRECTION OF FILL WITHIN A CELL.
 2. TYPICAL CROSS SECTION PROVIDED IN DRAWING I/IIA.3 ADDITIONAL SECTION INFORMATION PROVIDED IIIA-B - LANDFILL UNIT CROSS SECTIONS.
 3. WIDTH OF THE BUFFER ZONE BETWEEN THE LIMITS OF WASTE AND THE PERMIT BOUNDARY VARIES; HOWEVER, THE BUFFER ZONE IS A MINIMUM OF 50 FEET OF EXISTING FILL AREAS AND 125 FEET FOR THE NEWLY PERMITTED AIRSPACE. REFER TO APPENDIX I/IIIC FOR MORE INFORMATION REGARDING BUFFER ZONES.
 4. EACH CELL, INCLUDING THE PRE-SUBTITLE D FILL AREA, WILL ACCEPT MUNICIPAL SOLID WASTE RESULTING FROM, OR INCIDENTAL TO, MUNICIPAL, COMMUNITY, COMMERCIAL, INSTITUTIONAL, RECREATIONAL AND INDUSTRIAL ACTIVITIES, INCLUDING DEAD ANIMALS, ABANDONED AUTOMOBILES, CONSTRUCTION-DEMOLITION WASTE, YARD WASTE, CLASS 2 NON-HAZARDOUS INDUSTRIAL SOLID WASTE, CLASS 3 NON-HAZARDOUS INDUSTRIAL SOLID WASTE, AND CERTAIN SPECIAL WASTES.

FOR PERMITTING PURPOSES ONLY



- NOTES:
1. EXISTING AND PROPOSED PERMIT BOUNDARY INFORMATION BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
 2. EXISTING CONTOURS AND ELEVATIONS WERE DEVELOPED BY BAIN MEDINA BAIN, INC. FROM AERIAL PHOTOGRAPHY FLOWN ON JULY 4, 2020. BY DALLAS AERIAL SURVEY ELEVATIONS ARE TIED TO SITE GRID. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL. MAPPING COMPLETED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS.
 3. THE EXCAVATION GRADES FOR THE PERMITTED EXCAVATION PLAN WERE REPRODUCED USING THE LEACHATE COLLECTION PLAN INCLUDED IN THE 1994 PERMIT MODIFICATION.
 4. EXCAVATION SLOPES ARE TYPICALLY 3H:1V.
 5. MINIMUM EXCAVATION ELEVATION IS 1007 FT-MSL AND IS LOCATED IN THE LEACHATE SUMP.
 6. LINER AND LEACHATE COLLECTION SYSTEM DETAILS ARE INCLUDED IN APPENDIX IIIA-A.


FOR PERMITTING PURPOSES ONLY




NOTES:

- EXISTING AND PROPOSED PERMIT BOUNDARY INFORMATION BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
- EXISTING CONTOURS AND ELEVATIONS WERE DEVELOPED BY BAIN MEDINA BAIN, INC FROM AERIAL PHOTOGRAPHY FLOWN ON JULY 4, 2020. ELEVATIONS ARE TIED TO SITE GRID.
- REFER TO APPENDIX IIIH FOR DRAINAGE DESIGN INFORMATION.
- MAXIMUM FINAL COVER ELEVATION IS 1124 FT-MSL. MAXIMUM TOP OF WASTE ELEVATION IS 1120.5 FT-MSL.
- TYPICAL TOPSLOPE IS 5%. TYPICAL SIDESLOPES ARE 4H:1V EXCEPT IN THE AREA OF THE CLOSED PORTION OF THE LANDFILL IN WHICH THE SIDESLOPES ARE 5H:1V.


FOR PERMITTING PURPOSES ONLY



TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741



DEL RIO
TEXAS



CHARLES M. JOHNSON
REGISTERED PROFESSIONAL ENGINEER
CIVIL
123183
09/03/2023

NO.	REVISION	BY	DATE

VERIFY SCALE: BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET 0 1" AND ADJUST SCALE ACCORDINGLY.











CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

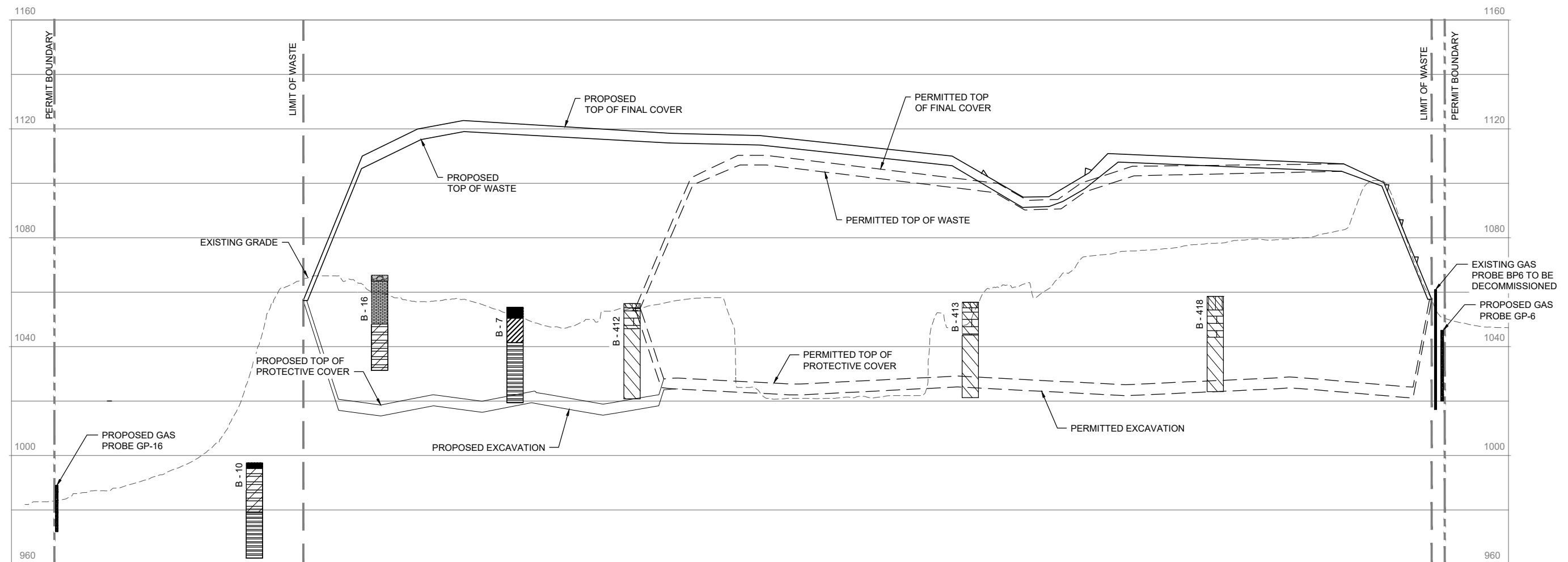
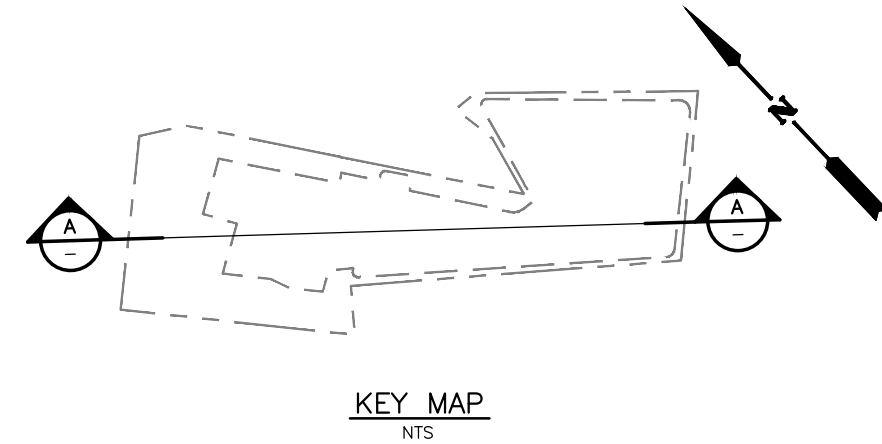
LANDFILL COMPLETION PLAN

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIA.5

1. TOPOGRAPHIC MAP WAS COMPLETED FROM PHOTOGRAMMETRIC METHODS BY DALLAS AERIAL SURVEY. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL. MAPPING COMPLETED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS.
2. REFER TO APPENDIX IIIA-A FOR LINER, LEACHATE COLLECTION, AND FINAL COVER SYSTEM DETAILS.
3. SEE APPENDIX IIIJ FOR BORING DATA. BORINGS PROJECTED INTO THE LINE OF SECTION.
4. AS SHOWN IN APPENDIX I/IC, THE BUFFER ZONES VARY AROUND THE PERIMETER OF THE SITE, BUT IN NO CASE ARE THEY LESS THAN 50-FEET FOR EXISTING WASTE.
5. REFER TO APPENDIX IIIM, FOR DETAILS OF THE LANDFILL GAS MANAGEMENT PLAN.
6. DRAINAGE DESIGN INFORMATION IS PROVIDED IN APPENDIX IIH-SURFACE WATER DRAINAGE PLAN.
7. MAXIMUM TOP OF FINAL COVER ELEVATION IS 1124 FT-MSL.
8. REFER TO APPENDIX IIIC FOR LEACHATE COLLECTION SYSTEM (LCS) INFORMATION.
9. THE SITE DOES NOT HAVE ANY GROUNDWATER MONITORING WELLS. GROUNDWATER HAS NOT BEEN ENCOUNTERED IN OF THE BORINGS OR DURING CONSTRUCTION OF CELLS 1 THROUGH 6.
10. THIS SITE DOES NOT ACCEPT ANY CLASS I WASTE.

	PERMIT BOUNDARY
	LIMIT OF WASTE
	CLAY
	CLAY AND CALICHE
	SILTY CLAY
	CLAYEY GRAVEL
	CLAY
	FAT CLAY
	WEATHERED CLAY-SHALE
	CLAY-SHALE



A SECTION
1/IIA.2

0 200 400
SCALE IN FEET (HORIZONTAL)

0 20 40
SCALE IN FEET (VERTICAL)



TEXAS REGISTERED ENGINEERING FIRM
TYPE F-1741



NO.	REVISION	BY	DATE

VERIFY SCALE BAR LENGTH EQUALS ONE INCH ON ORIGINAL
DRAWING. VERIFY LENGTH ON THIS SHEET
0 1" AND ADJUST SCALE ACCORDINGLY.

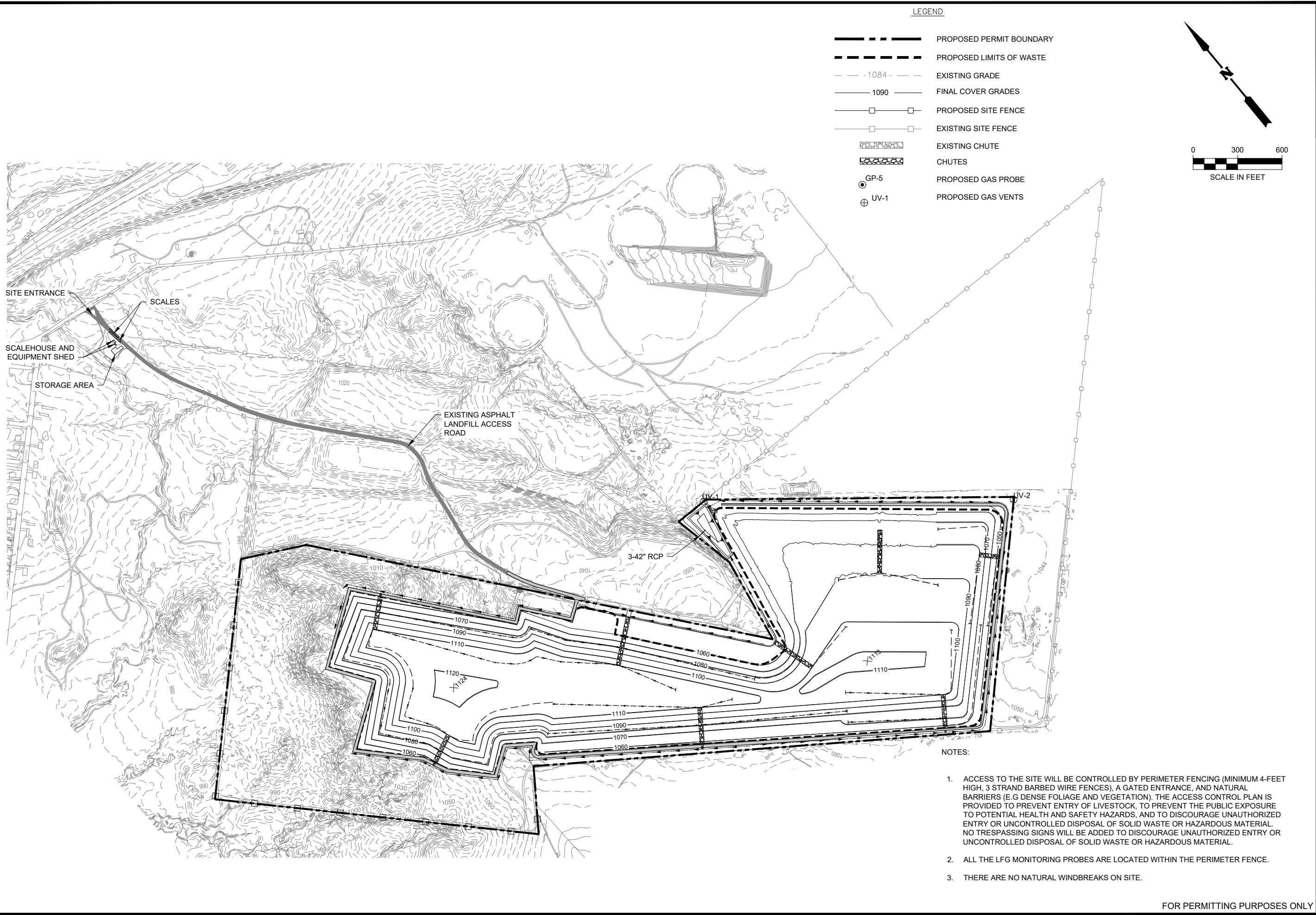
CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

CROSS SECTION A

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIA.6

PRINTED BY: MetafeT DATE: 7/2/2023
FILE PATH: c:\pwworking\stvpw_st\johnson\d0942002\IDELR2000302 Figure 1&11-A.6.dwg



st^{va}

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

del rio

TEXAS

Professional Engineer
123183
09/31/2023

NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET.	
	1"	AND ADJUST SCALE ACCORDINGLY.	

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

ACCESS CONTROL PLAN

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIA.7

FOR PERMITTING PURPOSES ONLY

CITY OF CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION PARTS I/II – GENERAL APPLICATION REQUIREMENTS

APPENDIX I/II B COORDINATION DEMONSTRATION

- Coordination with Federal Aviation Administration
- Coordination with Texas Historical Commission
- Coordination with Texas Department of Transportation
- Coordination with Texas Parks and Wildlife Department
- Coordination with U.S. Army Corps of Engineers
- Coordination with U.S. Department of the Interior Fish and Wildlife Service
- Coordination with Middle Rio Grande Development Council



COORDINATION WITH FEDERAL AVIATION ADMINISTRATION

- _____ FAA Determination of No Hazard to Air Navigation Letters.
- _____ Request for Review Letter regarding hazards to air navigation and hazards to air traffic due to birds.

COORDINATION WITH TEXAS HISTORICAL COMMISSION

- _____, THC conclusion that no historic properties are affected by landfill expansion.
- _____, Letter requesting THC concurrence that no historic properties are affected by the landfill.

COORDINATION WITH TEXAS DEPARTMENT OF TRANSPORTATION

- _____, TXDOT conclusion of no objections or concerns with potential traffic impact.
- _____, Request for Review Letter.

COORDINATION WITH TEXAS PARKS AND WILDLIFE DEPARTMENT

- _____, TPWD conclusion of no anticipated significant adverse impacts to rare, threatened or endangered species or other fish and wildlife resources.
- _____, Request for Review Letter.

COORDINATION WITH U.S. ARMY CORPS OF ENGINEERS

- _____, USAGE determination that authorization pursuant to Section 404 is not required.
- _____, Request for Review Letter.

**COORDINATION WITH
U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE**

- _____, U.S. Department of the Interior Fish and Wildlife Service conclusion of no impact on Fish and Wildlife.
- _____, Request for Review Letter.

COORDINATION WITH MIDDLE RIO GRANDE DEVELOPMENT COUNCIL

- _____ letter requesting MRGDC concurrence that the landfill expansion is consistent with the Regional Solid Waste Plan

CITY OF CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION PARTS I/II – GENERAL APPLICATION REQUIREMENTS

APPENDIX I/II C LOCATION RESTRICTION DEMONSTRATION

Prepared for
City of Del Rio

September 2023

Prepared by
STV Inc.

TPBE Registration No. F-1741
1820 Regal Row, Suite 200
Dallas, TX 75235
214-638-0500



This document is intended for permitting purposes only.

TABLE OF CONTENT

1.0	INTRODUCTION	I/IIC-1
2.0	EASEMENTS AND BUFFER ZONES.....	I/IIC-2
3.0	AIRPORT SAFETY	I/IIC-3
4.0	FLOODPLAINS	I/IIC-4
5.0	GROUNDWATER	I/IIC-5
6.0	ENDANGERED OR THREATENED SPECIES.....	I/IIC-6
7.0	WETLANDS	I/IIC-7
8.0	FAULT AREAS	I/IIC-8
9.0	SEISMIC IMPACT ZONES	I/IIC-9
10.0	UNSTABLE AREAS.....	I/IIC-10
11.0	COASTAL AREAS.....	I/IIC-12
12.0	TYPE I AND TYPE IV LANDFILL PERMIT ISSUANCE PROHIBITED	I/IIC-13

LIST OF TABLES

4-1 Floodplain Location Restriction Requirements

I/IIC-4

LIST OF FIGURES

Figure I/IIC 2.1 Buffer Zone Plan

Figure I/IIC 7.1 US Waters and Wetlands

Figure I/IIC 8.1 USGS Quaternary Fault Zone

Figure I/IIC 9.1 Seismic Impact Zone Map



1.0 INTRODUCTION

The purpose of this report is to provide demonstrations of the location restrictions for the City of Del Rio Landfill. Title 30 Texas Administrative Code (TAC) §330, Subchapter M identifies eleven location restrictions for the protection of human health and the environment. The eleven location restrictions include easements and buffer zones, airports, floodplains, groundwater, endangered or threatened species, wetlands, fault areas, seismic impact zones, unstable areas, coastal areas, and Type I and Type IV landfill permit issuance prohibited areas.

The Subtitle D regulations also require that the owner of a site must demonstrate either that the location restrictions do not apply or that the landfill, while located in a restricted area, is designed, and operated in such a way that it protects human health and the environment.

2.0 EASEMENTS AND BUFFER ZONES

The easement and buffer zone location restrictions within Title 30 TAC §330.543 require that:

1. No solid waste disposal unloading, storage, or processing operation shall occur within 25 feet of the center line of any utility line or pipeline easement but no closer than the easement, unless otherwise authorized by the Executive Director,
2. All pipeline and utility easements shall be clearly marked with posts that extend at least six feet above ground level, spaced at intervals no greater than 300 feet.
3. The owner or operator shall establish and maintain a 125-foot buffer zone for any newly permitted airspace (vertical or lateral expansion).

The easements within and around the permit boundary of the landfill are shown on Figure I/IIC 2.1. No solid waste disposal will occur within 25 feet of the centerline of any easement. The following are the three easements within the permit boundary.

- A 30-foot Texas Gas Utilities Co. easement runs along the northeast permit boundary. A letter from the owner of the easement, West Texas Gas Utility, LLC, that approves the channel grading work within the easement is included on page I/IIC-2A.
- A 15-foot AEP Texas Central Company electric easement is also associated with the permit boundary. This easement allows for electrical service to the site's leachate pumps.
- There is a Central Power and Light Easement that clips the northeast corner of the permit boundary. The center line in the easement represents the H-Frame 138kV Transmission Line. The easement protects 100 feet of right-of-way from the center line, 50 feet on each side of the transmission line.

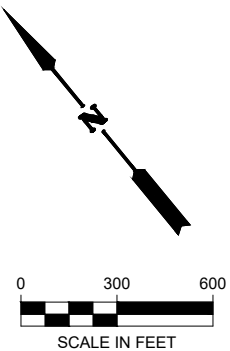
The proposed buffer zones for the site are also shown on Figure I/IIC 2.1. As shown on Figure I/IIC 2.1, a buffer zone of at least 125 feet is maintained between the expansion permit boundary and the proposed limits of waste. In addition, a minimum 125-foot buffer zone is maintained for vertical expansion in the permitted areas of the landfill.

All utility line and pipeline easements will be clearly marked in accordance with the Site Operating Plan. Given the above, the site is in compliance with the easements and buffer zone location restrictions.

DATE: 7/2/2023



EXPANSION AREA



SCALE IN FEET

TEXAS GAS UTILITIES CO.
30' PIPELINE EASEMENT
VOL.80, PG.129, D.R.V.V.C.T.

TEXAS GAS UTILITIES CO.
30' PIPELINE EASEMENT
VOL.80, PG.129, D.R.V.V.C.T.

2 LIGHT EASEMENT

WEST TEXAS GAS, INC.
30' GAS PIPELINE EASEMENT
VOL. 974, PG. 655, D.R.V.V.C.T.

AEP TEXAS CENTRAL COMPANY
15' ELECTRIC EASEMENT
DOC. NO. 00281608, O.P.R.V.V.C.T.

NOTES:

1. EXISTING AND PROPOSED PERMIT BOUNDARY AND EASEMENT INFORMATION IS BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
2. WIDTH OF THE BUFFER ZONE BETWEEN THE LIMITS OF WASTE AND THE PERMIT BOUNDARY VARIES. HOWEVER, THE BUFFER ZONE IS A MINIMUM OF 125 FEET FOR PROPOSED FILL AREAS.
3. THE CENTRAL POWER AND LIGHT ELECTRIC TRANSMISSION EASEMENT LINE SHOWN ON THE PLAN IS THE CONSTRUCTION CENTER LINE AND THE 100 FEET RIGHT-OF-WAY THAT THE UTILITY COMPANY IS PROTECTING (50 FEET FROM THE CONSTRUCTION CENTER LINE ON EACH SIDE).

CITY OF DEL RIO LANDFILL NO. 207C
MAJOR PERMIT AMENDMENT

BUFFER ZONE PLAN

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIC 2.1

FOR PERMITTING PURPOSES ONLY



TEXAS REGISTERED ENGINEERING FIRM

3.0 AIRPORT SAFETY

The Airport Safety Location Restrictions within Title 30 TAC §330.545 require that airports within the vicinity of the landfill site be identified. The regulation states that land disposal sites located within 10,000 feet of an airport runway end used by turbojet aircraft or within 5,000 feet of an airport runway end used by piston-type aircraft shall demonstrate that the unit is designed and operated so that the landfill does not pose a bird hazard to aircrafts.

Title 30 TAC §330.545(b) requires that small general service airports located within a six-mile radius of a lateral expansion be notified of the proposed expansion. Title 30 TAC §330.545(b) also requires that large general public commercial airports located within a five-mile radius of a lateral expansion be notified of the proposed expansion. As shown on Figure I/II-8.1 in Parts I/II, there are two airports located within the 6-mile radius of the landfill. The Del Rio International Airport is located approximately 4 miles northwest of the landfill, and is a publicly owned, general use airport. The Laughlin Air Force Base is a military airport facility operated by the United States Air Force and is located approximately 4 miles east of the landfill. As required by Title 30 TAC §330.545(b), the Del Rio International Airport, Laughlin Air Force Base, and the FAA have been notified about the lateral expansion at the City of Del Rio Landfill. The coordination letter are included in Appendix I/IIB..

Given the above, the site is in compliance with the Airport Location Restriction.

4.0 FLOODPLAINS

Title 30 TAC §330.547 prohibits waste disposal operations located in the 100-year floodway as defined by FEMA, requires that new expansion areas not restrict the flow of the 100-year flood, reduce the temporary water stage capacity of the floodplain, or result in washout of solid waste; and requires storage and processing facilities to be located outside of the 100-year floodplain. The floodplain is shown on Figure I/II-11.1 in Parts I/II. As shown on Figure I/II-11.1, the site is not located within the floodplain.

Supporting floodplain information is included in Parts I/II, Section 11.1. Compliance with each floodplain location/coordination regulation is listed in Table 4-1.

Table 4-1 Floodplain Location Restriction Requirements

Regulatory Citation	Regulation Summary	How Regulation is Addressed
330.547(a)	No disposal operations located in a 100-year floodway.	As shown on Figure I/II-11.1, no disposal operations are located in a 100-year floodway.
330.547(b)	Proposed developments shall not restrict the flow of the 100- year flood, reduce floodplain storage capacity, or result in solid waste washout	No proposed developments are located within the 100-year floodplain (refer to the effective FIRM on Figure I/II-11.1). rainfall event
330.547(c)	Storage and processing facilities located outside of 100-year floodplain unless facilities prevent washing during 100-year event	There are no proposed facilities within the limits of the 100-year floodplain.

5.0 GROUNDWATER

The groundwater location restriction within Title 30 TAC §330.549 prohibits a Type I or Type IAE landfill on the recharge zone of the Edwards Aquifer. Given that the City of Del Rio Landfill is not located on the recharge zone of the Edwards Aquifer, the site is in compliance with the groundwater location restriction.

6.0 ENDANGERED OR THREATENED SPECIES

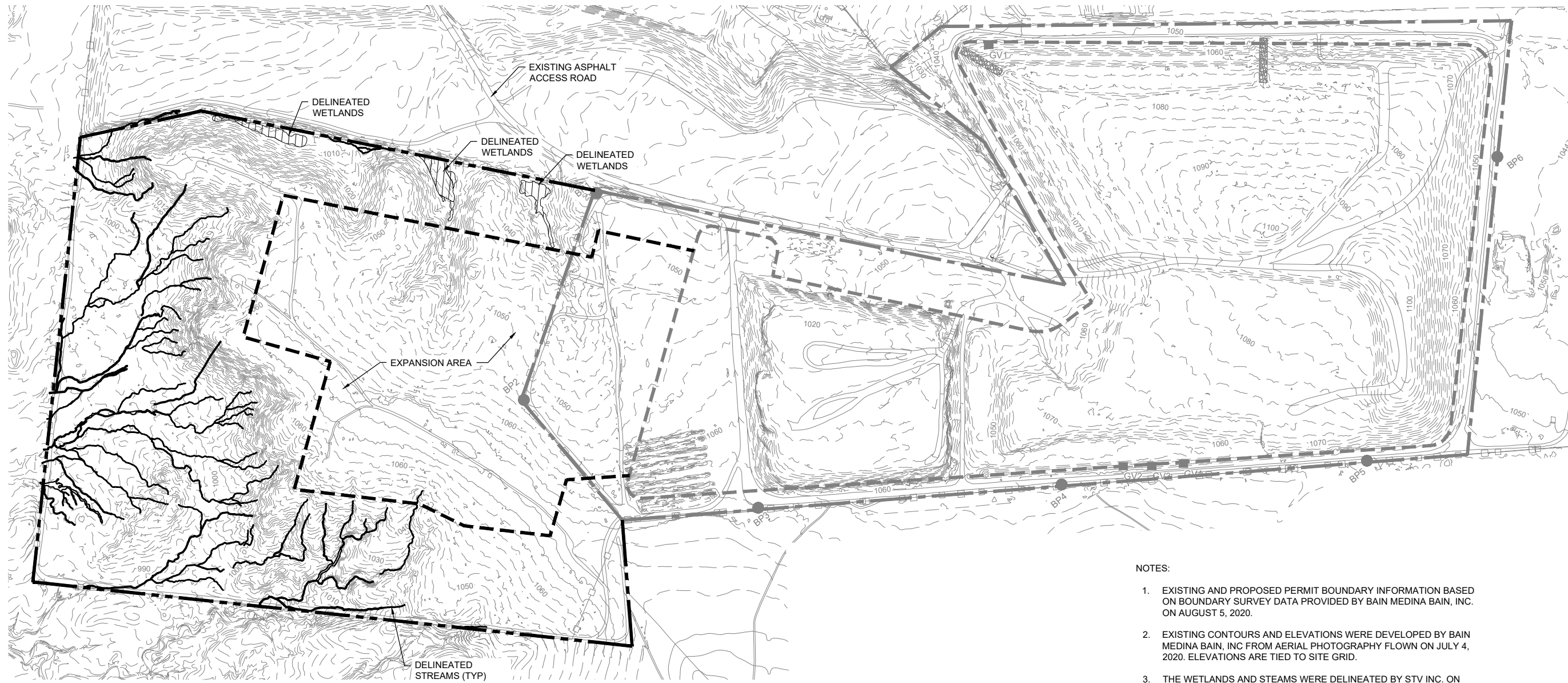
The endangered or threatened species location restrictions within Title 30 TAC §330.551 require that the facility and the operation of the facility not result in the destruction or adverse modification of the critical habitat of endangered or threatened species or contribute to the taking of any endangered or threatened species. The U.S. Fish and Wildlife Services (FWS) and Texas Parks and Wildlife Department (TPWD) were contacted to request information regarding endangered or threatened species or their critical habitat with respect to the site. In addition, a site specific threatened and endangered species habitat assessment was completed by CP&Y, Inc. (refer to the TPWD and FWS tabs in Appendix I/IIB). This study concluded that the area within the landfill permit boundary does not provide habitat for nor has critical habitat been designated in the project area for any federally threatened or endangered species. Therefore, it is concluded that the expansion of the City of Del Rio Landfill will not result in the destruction or adverse modification of the critical habitat of any federally threatened or endangered species, or cause or contribute to the taking of any federally threatened or endangered species.

Given the above, the site is in compliance with the endangered or threatened species location restrictions.










7.0 WETLANDS

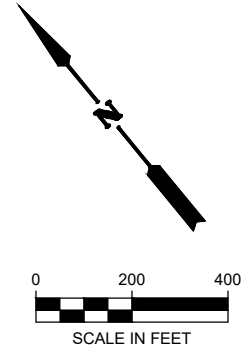
The area within the existing permit boundary of the City of Del Rio Landfill was evaluated for compliance with wetlands provisions, including the determination and identification requirements in Title 30 TAC §330.61(m)(2) and (3) and the wetlands location restriction in §330.553(b). The wetland delineation is shown on Figure I/IIC 7.1. Although there are wetlands within the permit boundary of the City of Del Rio Landfill, the limit of waste is not located in wetlands. There will be some areas of the wetlands that will be filled for perimeter channel and road grading. The area of wetland that will be filled will be less than tenth of an acre and will be covered under a 404 Nation Wide permit during construction. No waste will be placed within the wetlands, therefore the site is in compliance with the wetlands location restriction.

DATE: 6/21/2023



LEGEND

- | | |
|---|--------------------------|
|  | PROPOSED PERMIT BOUNDARY |
|  | PROPOSED LIMITS OF WASTE |
|  | EXISTING PERMIT BOUNDARY |
|  | EXISTING LIMITS OF WASTE |
|  | EXISTING GRADES |
|  BP1 | GAS PROBE |
|  GV1 | GAS VENT |
|  | EXISTING SITE FENCE |
|  | EXISTING CHUTES |



- NOTES:

1. EXISTING AND PROPOSED PERMIT BOUNDARY INFORMATION BASED ON BOUNDARY SURVEY DATA PROVIDED BY BAIN MEDINA BAIN, INC. ON AUGUST 5, 2020.
2. EXISTING CONTOURS AND ELEVATIONS WERE DEVELOPED BY BAIN MEDINA BAIN, INC FROM AERIAL PHOTOGRAPHY FLOWN ON JULY 4, 2020. ELEVATIONS ARE TIED TO SITE GRID.
3. THE WETLANDS AND STEAMS WERE DELINEATED BY STV INC. ON MAY 2023. SUPPORTING INFORMATION IS INCLUDED IN THE SUBMITTAL TO THE USAGE IN APPENDIX I/III.

FOR PERMITTING PURPOSES ONLY

CITY OF DEENING LANDFILL NO. 2070
MAJOR PERMIT AMENDMENT

US WATERS AND WETLANDS

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
P&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIC 7.1



0 1" DRAWING. VERIFY LENGTH ON THIS SHEET AND ADJUST SCALE ACCORDINGLY.

○

DRAWING. VI
AND ADJUST

GLY HIS

E



8.0 FAULT AREAS

The City of Del Rio Landfill and the surrounding area were examined for indications of the presence of Holocene time geologic faulting in accordance with §330.555 criteria. The study was conducted by Trinity Engineering Testing Corporation, reviewing available literature, published topographic and geologic maps. The following is a summary of the findings from the references as part of the determination for these fault areas:

- Quaternary Fault and Fold Database for the United States, 2015, US Geological Survey and Texas Bureau of Economic Geology. Drawing I/IIC 8.1 -USGS Quaternary Fault Zones presents a USGS Quaternary fault database map that indicates no Quaternary faults are located within 0.5 miles of the site.
- City of Del Rio Landfill and the surrounding area were examined for the presence of geologic faulting in conformance with Title 30 TAC §330.555 criteria. This included a review of previous fault investigations, available literature and maps, and a current aerial photograph. The previous studies indicated that there are no faults at the landfill site. The 1994 fault study involved an extensive site inspection along outcrops and creek beds, evaluation of possible fault lineations on aerial photographs for the years 1947 (scale: 1 inch = 1000 feet), 1983 (Scale: 1 inch = 300 feet) and 1990 (Scale: 1 inch = 1000 feet) and review of geologic maps of the area. Only one possible fault was identified within 1 mile of the site located about 3/4 of a mile to the west along Highway 277. Several small displacement faults (less than 25 feet) were located in the vicinity (outside of one mile) during the previous study.

The faults in the area are believed to be associated with the Balcones Fault Zone. Faulting occurred throughout most of the Cretaceous Period and continued into early Tertiary time. Faulting along the Balcones Fault Zone has been inactive since Pleistocene time, some two million years ago.

The above published sources of potential fault information indicated no known active geologic faults are present within 0.5 miles of the facility. Therefore, the site complies with §330.555(b) which requires the site must be investigated for unknown faults when an active fault is known to exist within 0.5 miles of the site.

As no evidence of Holocene faulting within 200 feet of the site was identified, the site complies with the fault area location restriction listed in §330.555(a).

PRINTED BY: Torres,U DATE: 6/21/2023
FILE PATH: c:\pwworking\stvw_st\johnson\09420020\DEL200302 Figure 8.1-C 8.1.dwg

U.S. Geological Survey Quaternary Faults



8/24/2020, 4:55:06 PM

Fault Areas:

- Hayward (< 100 years)
- Latest Quaternary (< 10,000 years)
- Late Quaternary (< 100,000 years)
- Mostly pre-Late Quaternary (< 170,000 years)
- Unlabeled Quaternary (> 1.8 million years)

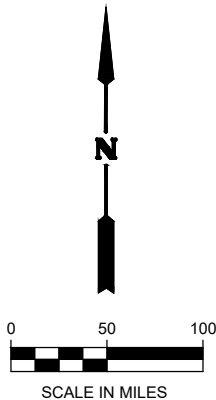
Quaternary Fault Definition

- Hayward (< 100 years), well constrained location
- Hayward (< 100 years), moderately constrained location
- Hayward (< 100 years), inferred location
- Latest Quaternary (< 10,000 years), well constrained location
- Latest Quaternary (< 10,000 years), moderately constrained location
- Latest Quaternary (< 10,000 years), inferred location

- Late Quaternary (< 100,000 years), well constrained location
- Late Quaternary (< 100,000 years), moderately constrained location
- Late Quaternary (< 100,000 years), inferred location
- Mostly and late Quaternary (< 170,000 years), well constrained location
- Mostly and late Quaternary (< 170,000 years), moderately constrained location
- Mostly and late Quaternary (< 170,000 years), inferred location

USGS, National Geographic, Esri, Garmin, HERE, UNEP-WRDC, USGS, NASA, ESA, METI, INRA, IGN, GEBCO, NOAA, Swiremap, P. Corp.

USGS
National Geographic, Esri, Garmin, HERE, UNEP-WRDC, USGS, NASA, ESA, METI, INRA, IGN, GEBCO, NOAA, Swiremap, P. Corp. (1993)



NOTE:

1. QUATERNARY FAULT MAPS REPRODUCED FROM USGS AND TEXAS BUREAU OF ECONOMIC GEOLOGY DATA, 2018, QUATERNARY FAULT AND FOLD DATABASE FOR THE UNITED STATES USING THE INTERACTIVE USGS MAPPING TOOL.



NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET	
	0	1"	AND ADJUST SCALE ACCORDINGLY.

CITY OF DEL RIO LADEILL NO. 207C
MAJOR PERMIT AMENDMENT

USGS QUATERNARY FAULT ZONES

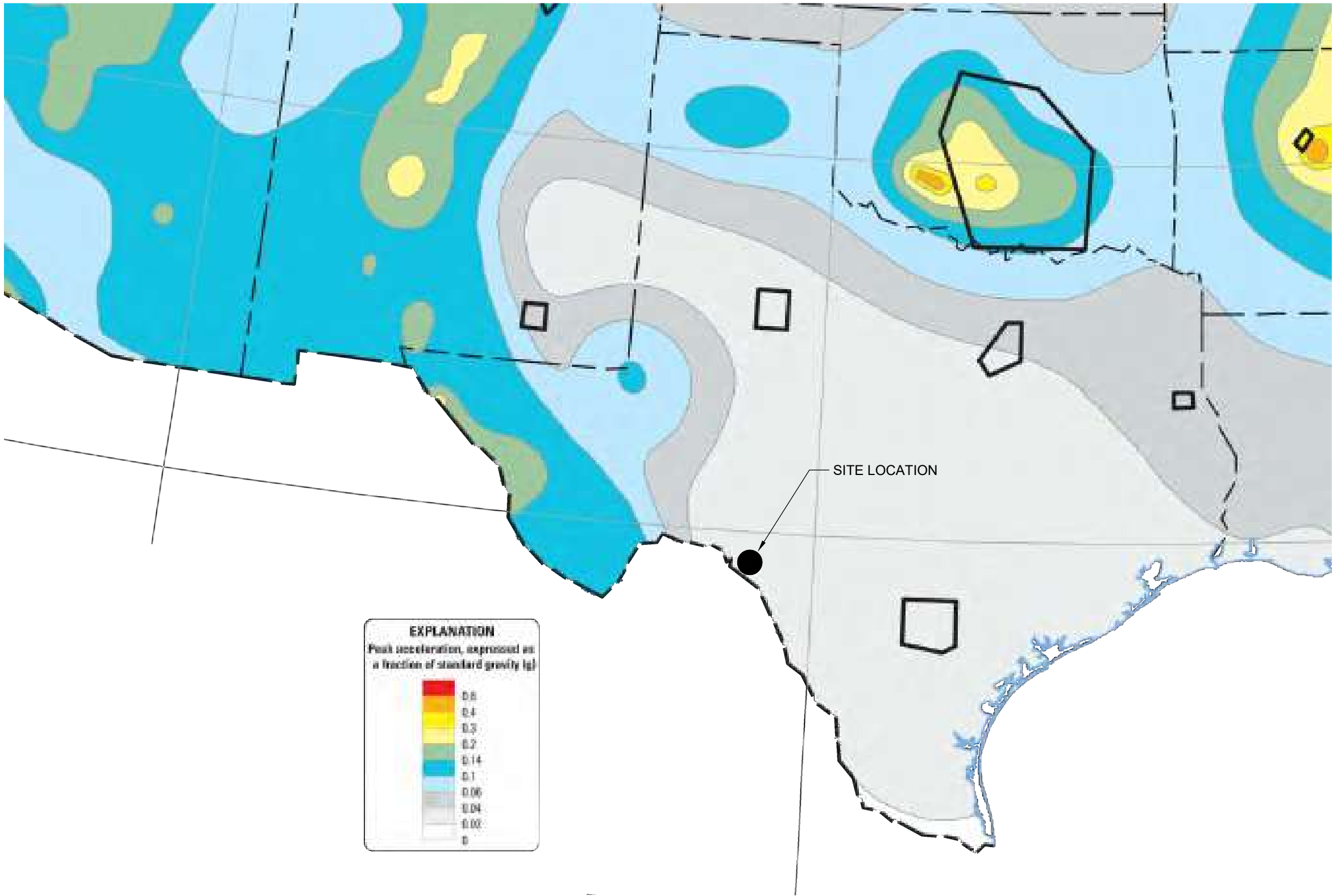
DESIGN: T. METAERIA
DRAWN: T. METAERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIC 8.1

FOR PERMITTING PURPOSES ONLY

9.0 SEISMIC IMPACT ZONES

The seismic impact zone location restriction defined by Title 30 TAC §330.557 is an area with a 10 percent or greater probability that the maximum horizontal acceleration in rock, expressed as a percentage of the earth's gravitational pull, will exceed 0.10 g in 250 years. Drawing I/IIC 9.1 is a seismic impact zone map of Texas adapted from USGS seismic hazard maps for peak ground acceleration with a 2 percent in 50 years return period (USGS, 2002). According to the USGS, a 10 percent probability in 250 years is equivalent to a 2 percent probability in 50 years. As shown in this figure, the site is not within a 10 percent in 250 year probability seismic impact zone and the seismic impact zone location restriction does not apply.



NOTE:
1. SEISMIC IMPACT ZONE MAP MODIFIED FROM
USGS EARTHQUAKE HAZARDS PROGRAM
MAPPING OF 2.0% PROBABILITY OF
EXCEEDENCE IN 50 YEARS OF PEAK GROUND
ACCELERATION. USGS MAP OBTAINED FROM
NATIONAL SEISMIC HAZARD MAPPING
PROJECT WEBSITE.

FOR PERMITTING PURPOSES ONLY

st^v

TEXAS REGISTERED ENGINEERING FIRM
TBPE F-1741

del rio

TEXAS

Professional Engineer
123183
09/31/2023

NO.	REVISION	BY	DATE
	VERIFY SCALE	BAR LENGTH EQUALS ONE INCH ON ORIGINAL DRAWING. VERIFY LENGTH ON THIS SHEET	
	0	1"	AND ADJUST SCALE ACCORDINGLY.

CITY OF DEL RIO LANDELL NO. 207C
MAJOR PERMIT AMENDMENT

SEISMIC IMPACT ZONE MAP

DESIGN: T. METAFERIA
DRAWN: T. METAFERIA
REVIEW: B. HINDMAN
CP&Y: DELR200302
CLIENT: CITY OF DEL RIO

FIGURE
I/IIC 9.1

10.0 UNSTABLE AREAS

10.1 Introduction

The location restriction criteria in Title 30 TAC §330.559 require engineering measures to be incorporated into the design of a disposal unit located in an unstable area to ensure that the integrity of the structural components of the disposal unit will not be disrupted. Unstable areas, by definition, are areas susceptible to natural or human-induced events or forces that are capable of impairing the integrity of some or all structural components (i.e., liner systems, leachate collection systems, and final cover systems) of a disposal unit. Unstable areas can include poor foundation conditions, areas susceptible to mass movement, or karst terrain.

These three potential unstable area conditions are discussed in the following three subsections.

10.2 Foundation Conditions

10.2.1 Bottom Liner Foundation Condition

A foundation settlement analysis is included in Appendix IIIL to verify that the amount of consolidation of the natural soils below the site will not adversely affect the integrity of the existing and future liner systems. As noted in Appendix IIIE, the strain on both liner systems caused by differential settlement is within acceptable limits for the liner system materials. In addition, the bottom liner leachate collection system design, included in Appendix IIIC, has been developed to account for settlement. As demonstrated in Appendix IIIC, the leachate collection system will function as designed after the final settlement of the foundation soils has occurred.

There is no significant potential for landfill subsidence due to groundwater withdrawal.

Given the above, it is concluded that no naturally induced event or forces will adversely affect the landfill or the landfill components.

10.2.2 Final Cover Foundation Condition

The geotechnical design in Appendix IIIL includes demonstrations that the proposed final cover system will function as designed after the final settlement of waste placed below the final cover area is complete. The demonstrations also include a strain analysis showing that the differential settlement of waste will not be detrimental to the final cover system and the maximum estimated strain will be below allowable strain values for each final cover system component.

10.3 Mass Movement

The geotechnical design in Appendix IIIL includes an analysis that the mass movement of natural soils and the landfill will not occur at the site. A detailed summary of the slope stability analyses is provided in Section 6 of Appendix IIIL. The analyses show that the excavated and constructed slopes will be stable. The analyses incorporate various interim fill conditions and the final configuration condition of the landfill. The results of the stability analyses indicate that the proposed excavation, constructed liner, interim waste fill slopes, and final configuration slopes are stable under the conditions analyzed. The results of the stability analyses demonstrate that the calculated factor of safety values are higher than the recommended minimum factors of safety. The recommended minimum factors of safety for the conditions analyzed were determined using recommendations from the USACE "Design and Construction

of Levees" manual (EM1110-2-1913) and the EPA's "Technical Guidance Manual for Design of Solid Waste Disposal Facilities." The results of the generalized slope stability analysis indicate that the landfill and its components will be geotechnically stable as designed.

Furthermore, to ensure interface stability of the landfill components, the minimum interface strength requirements have been incorporated into the Appendix IIID Liner Quality Control Plan for future bottom construction and Appendix IIID-A - Final Cover System Quality Control Plan for the future final cover system.

10.4 Karst Terrain

The review of area topographic maps indicates no karst topography or sinkholes exist in the site vicinity. The USGS 7.5-minute topographic maps reviewed included the Commerce, Texas (2016), and Cumby, Texas (2016) quadrangle maps.

Karst terrain formation requires thickly-bedded, fractured water-soluble rocks to be present in the near surface. Potentially karstic-producing weatherable rocks include limestone, gypsum, and halite. Where the dissolution cavities become large enough, the roof of the cavity may collapse, forming a sinkhole. In a karst terrain, sinkholes may be indicated on topographic maps as circular to sub-rounded (often concentric) closed topographic contour lines that spatially may have a sponge-like texture on the topographic map. A vanishing stream or lack of developed surface drainage on a topographic map may also indicate the presence of karst conditions. Based on the USGS topographic maps and determined that no characteristic karstic map features were present. No surface indications of karstic sinkholes were observed. Based on borehole evidence and regional stratigraphy, the conditions necessary for karst development (e.g., shallow unit of fractured or elevated porosity limestone) is not present beneath the landfill permit boundary.

10.5 Summary

In summary, the soils at the landfill site provide suitable characteristics for a stable foundation and the soils are not susceptible to settlement conditions. In addition, the final cover is designed to ensure that the integrity of these systems will be maintained. The stability analysis shows that each landfill component will be stable and no mass movements will occur. *Finally, there is no potential for karst development to occur.*

Given the above, it is concluded that no naturally induced event or forces will adversely affect the landfill or the landfill components. This conclusion is based on a review of the site in its current state, *the expected groundwater usage* and development around the site, and the facility operations itself; *there are no onsite local soil conditions, geologic conditions, geomorphologic features, or potential for karst development to occur* as well as no human induced features or events (both surface and subsurface) that would result in significant differential settlement or other unstable conditions. Therefore, the site meets the requirements of Title 30 TAC §330.559. The site is and will continue to be in compliance with this location restriction.

11.0 COASTAL AREAS

The coastal areas location restriction within Title 30 TAC §330.561 requires that a new landfill cell or expansion of an existing cell of a landfill managing Class 1 Industrial Solid Waste not be located on a barrier island or peninsula or within 1,000 feet of an active coastal shoreline erosion.

The City of Del Rio Landfill does not accept Class 1 Industrial Solid Waste and is located more than 1,000 feet from the nearest coastal shoreline, therefore the site is in compliance with the coastal areas location restriction.

12.0 TYPE I AND TYPE IV LANDFILL PERMIT ISSUANCE PROHIBITED

The Type I and Type IV Landfill Permit Issuance Prohibited location restriction within Title 30 TAC §330.563 prohibits the issuance of a permit for a Type IV landfill that is located within 100 feet of a canal that is used as a public drinking water source or for irrigation of crops used for human or animal consumption or that is located in a county with a population of more than 225,000 that is located adjacent to the Gulf of Mexico. The location restriction also prohibits the issuance of a permit for a new Type I or Type IV landfill or a permit amendment authorizing the conversion of a Type IV landfill to a Type I landfill only if the landfill is located adjacent to a county with a population of more than 3.3 million and inside the boundaries of a national forest, as designated by the United States Forest Service, on public or private land.

The City of Del Rio Landfill is a Type I landfill and is not located inside the boundaries of a national forest, so the site is complying with the Type I and Type IV Landfill Permit Issuance Prohibited location restriction.

CITY OF CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION PART I/II – GENERAL APPLICATION REQUIREMENTS

APPENDIX I/II D

TPDES PERMIT



Water Quality General Permits Search

Summary of Authorization TXR05BY31

Permit Number: TXR05BY31
Authorization Status: ACTIVE
Date Coverage Began: 11/15/2013
Date Coverage Ended:

Authorization Details

Site Name on Permit: CITY OF DEL RIO LANDFILL
Authorization Type: INDUSTRIAL
Primary SIC Code: 4953
Activity Code : LF
Facility Operational Status : ACTIVE
Hazardous Metals Waiver : NO
Msw Landfill Closed : NO
Sector : L

Outfall Number : 001
 SEGMENT NUMBER - 2304
 RECEIVING WATER BODY - CALAVERAS CREEK
 OUTFALL LATITUDE - 29.36695
 OUTFALL LONGITUDE - (-100.86107)
 DISCHARGE TO MARINE OR FRESH - FRESH WATER

Outfall Number : 002
 SEGMENT NUMBER - 2304
 RECEIVING WATER BODY - CALAVERAS CREEK
 OUTFALL LATITUDE - 29.36417
 OUTFALL LONGITUDE - (-100.86021)
 DISCHARGE TO MARINE OR FRESH - FRESH WATER

Outfall Number : 003
 SEGMENT NUMBER - 2304
 RECEIVING WATER BODY - CALAVERAS CREEK
 OUTFALL LATITUDE - 29.35288
 OUTFALL LONGITUDE - (-100.84884)
 DISCHARGE TO MARINE OR FRESH - FRESH WATER

Permittee Information

Operator: CN600756290 - CITY OF DEL RIO
Address: 1897 RAILWAY DEL RIO TX 78840
Annual Fee Billing Address: ALEJANDRO GARCIA
 114 W MARTIN ST DEL RIO TX 78840 5501

Permitted Site Information

RN: RN102143294
RE Name: CITY OF DEL RIO MUNICIPAL LANDFILL
Site Location: 1897 RAILWAY AVE DEL RIO TX 78840
County: VAL VERDE
TCEQ Region: REGION 16 - LAREDO
Latitude: 29.35583
Longitude: -100.85389

Regulated Entity Site Information

RE Name: CITY OF DEL RIO LANDFILL
Site Location: 1897 RAILWAY DEL RIO TX 78840
County: VAL VERDE
TCEQ Region: REGION 16 - LAREDO
Latitude: 29.35583
Longitude: -100.85389

Application History for this Authorization

Application Type	Status	Received Date	Final Action Date
NOTICE OF INTENT	APPROVED	11/15/2013	11/15/2013
NOI-RENEWAL	APPROVED	10/28/2016	03/14/2017
NOI-RENEWAL	APPROVED	11/11/2021	11/11/2021

CITY OF CITY OF DEL RIO LANDFILL

VAL VERDE COUNTY, TEXAS

TCEQ PERMIT NO. MSW-207C

MAJOR PERMIT AMENDMENT APPLICATION PART I/II – GENERAL APPLICATION REQUIREMENTS

**APPENDIX I/II E
WASTE ACCEPTANCE PLAN**

TCEQ FORM 20873





Texas Commission on Environmental Quality

Waste Acceptance Plan Form Type I and Type IAE Landfill Facilities

This form is designed to address the requirements for Waste Acceptance Plans in Part II of an application, as required by Title 30 Texas Administrative Code, Chapter 330, §330.61(b)(1). Rules are from Chapter 330 unless otherwise specified. If more space is needed for a line item or table item, include the information on a separate sheet and reference the line or table item.

A. Applicant Information

1. Facility Name: _____
2. MSW Permit No.: _____

B. Waste Generation Areas and Population Estimates

Table 1. Areas contributing waste to the facility and estimate of population or population equivalent served by the facility. Values are estimates, not permit limits.

Waste Generation Area	Estimate of Population or Population Equivalent Served in each Area

Estimated population or population equivalent served by the facility

C. General Sources and Types of Waste to be Accepted at the Facility

General sources of waste to be received (household, commercial, industrial, etc.).

2. Types of Waste to be Accepted for Disposal at the Facility

a. Indicate whether the following wastes will be accepted for disposal (check "Yes" for will accept or "No" for will not accept).

- i. ☐ Yes ☐ No Municipal solid waste [§330.3(88)]
- ii. ☐ Yes ☐ No Construction or demolition waste [§330.3(33)]
- iii. ☐ Yes ☐ No Brush [§330.3(18)]
- iv. ☐ Yes ☐ No Rubbish [§330.3(130)]
- v. ☐ Yes ☐ No Used or scrap tires that have been processed (such as by splitting, shredding, quartering or sidewall removal) in a manner acceptable to the executive director [§330.3(130)]
- vi. ☐ Yes ☐ No Class 2 nonhazardous industrial solid waste [§330.3(22), §330.173(i)]
- vii. ☐ Yes ☐ No Class 3 nonhazardous industrial solid waste [§330.3(23), §330.173(j)]

b. Indicate whether the following special wastes will be accepted for disposal. These wastes must have been or are to be treated and the treated materials have been tested and are certified to contain no free liquids.

- i. ☐ Yes ☐ No Municipal wastewater treatment plant sludge. [§330.3(148)(D), §330.171(c)(7)]
- ii. ☐ Yes ☐ No Other types of domestic sewage treatment plant sludge [§330.3(148)(D), §330.171(c)(7)]
- iii. ☐ Yes ☐ No Municipal water-supply treatment plant sludge. [§330.3(148)(D), §330.171(c)(7)]
- iv. ☐ Yes ☐ No Septic tank pumping waste [§330.171(c)(7)]
- v. ☐ Yes ☐ No Grease trap waste. [§330.3(59), §330.171(c)(7)]
- vi. ☐ Yes ☐ No Grit trap waste [TAC §330.3(60), §330.171(c)(7)]
- vii. ☐ Yes ☐ No Waste from commercial or industrial wastewater treatment plants [§330.3(148)(G), §330.171(b)]
- viii. ☐ Yes ☐ No Other liquid waste. Explain _____
[§330.171(c)(7)]
- ix. Specify other special wastes to be accepted for disposal that are not listed above and for which free liquids may be an issue.

c. Indicate whether the following Special Wastes will be accepted for disposal.

- i. ☐ Yes ☐ No Municipal hazardous waste from conditionally exempt small quantity generators [§330.171(c)(6), §330.3(32)].
- ii. ☐ Yes ☐ No Class 1 industrial nonhazardous solid waste (excluding waste that is Class 1 only because of asbestos content). May be accepted only at Type I landfills with a Class 1 cell [§330.3(21), §330.171(b), §330.3(148)(B), §330.173]; may not be accepted at arid exempt [AE] landfills [§330.173(a)].
- iii. ☐ Yes ☐ No Waste that is Class 1 only because of asbestos content [§330.3(21), §330.171(b), §330.3(148)(B), §330.171(c)(3)(I), 30 TAC §330.171(c)(3)]

- iv. ☐ Yes ☐ No Waste from commercial air pollution control devices [§330.171(b), §330.3(148)(G), §330.331(e)]
- v. ☐ Yes ☐ No Tanks, drums, or containers that were used for shipping or storing any material that has been listed as a hazardous constituent in 40 CFR Part 261, Appendix VII but has not been listed as a commercial chemical product in 40 CFR §261.33(e) or (f) [§330.171(b), §330.3(148)(G)]
- vi. ☐ Yes ☐ No Drugs, other than those contained in normal household waste [§330.171(b), §330.3(148)(J)]
- vii. ☐ Yes ☐ No Contaminated foods, other than those contained in normal household waste [§330.171(b), §330.3(148)(J)]
- viii. ☐ Yes ☐ No Contaminated beverages, other than those contained in normal household waste [§330.171(b), §330.3(148)(J)]
- ix. ☐ Yes ☐ No Empty containers that have been used for pesticide, herbicide, fungicide, or rodenticide, that have been triple-rinsed before receipt at the landfill, are rendered unusable before receipt or on arrival, and are covered by the end of the same working day they are received [§330.171(c)(5)(A)]
- x. ☐ Yes ☐ No Empty containers for which triple-rinsing is not feasible or practical (e.g. paper bags, cardboard containers) that are managed as a municipal hazardous waste from a conditionally exempt small quantity generator or in accordance with requirements for disposal of industrial wastes [§330.171(c)(5)(B), §330.171(c)(6), §330.173]
- xi. ☐ Yes ☐ No Regulated asbestos-containing material (RACM) [40 CFR 261, §330.171(c)(3), §330.3(126)]
- xii. ☐ Yes ☐ No Non-regulated asbestos-containing material (non-RACM) [40 CFR 261, §330.171(c)(4), §330.3(93)]
- xiii. ☐ Yes ☐ No Incinerator ash [§330.3(148)(M), §330.171(b)]
- xiv. ☐ Yes ☐ No Soil contaminated by petroleum products, crude oils, or chemicals in concentrations of greater than 1,500 mg/kg total petroleum hydrocarbons; or contaminated by constituents of concern that exceed the concentrations listed in §335.521(a)(1) [§330.3(148)(N), §330.171(b)(4)] (may be accepted at Type I landfills with Class 1 cells. [§330.331(e)] (Excluded from Type I AE. [§330.173(a)])
- xv. ☐ Yes ☐ No Household-generated used oil filters that have been crushed to less than 20% of original volume or processed by a method other than crushing to remove all free-flowing used oil. The processing method may include (1) having the filter separated into component parts and free-flowing used oil removed from the filter element by compression; (2) having a replaceable filter medium that has been compressed to remove free-flowing used oil; **or** (3) having a housing that has been punctured and the filter drained for at least 24 hours. [§330.171(d)].
- xvi. ☐ Yes ☐ No Waste from oil, gas, and geothermal activities subject to regulation by the Railroad Commission of Texas) [§330.171(b), §330.3(148)(P)]

- xvii. ☐ Yes ☐ No Waste generated outside the boundaries of Texas that contains any industrial waste; any waste associated with oil, gas, and geothermal exploration; or any of the special wastes that are indicated in §330.3(148) [§330.171(b), §330.3(148)(Q)]
- xviii. ☐ Yes ☐ No Dead animals [§330.171(c)(2)]
- xix. ☐ Yes ☐ No Slaughterhouse wastes [§330.171(c)(2)]
- xx. ☐ Yes ☐ No Treated medical waste from health care-related facilities. [§330.3(85), §326.75(r)]
- xxi. Specify other special wastes to be accepted for disposal that are not listed above:
-
-

D. Waste Prohibited from Disposal

The following wastes are prohibited from disposal.

- Any waste not authorized for disposal above, including those for which “No” has been indicated.
- Untreated medical waste. This prohibition may be superseded by the executive director in writing when disposal of untreated medical waste is required to protect human health and the environment from the effects of a natural or man-made disaster. [§330.171(c)(1), §330.3(85)]
- Lead-acid storage batteries. [§330.15(e)(1)]
- Used motor vehicle oil. [§330.15(e)(2)]
- Used oil filters from internal combustion engines except for used oil filters from households that have been processed as described in §330.171(d). [§330.15(e)(3)]
- Whole used or scrap tires. [§330.15(e)(4)]
- Items containing CFCs that have not been handled in accordance with 40 CFR §82.156(f). [§330.15(e)(5)]
- Bulk or noncontainerized liquid waste unless the waste is household waste other than septic waste and as defined by the Paint Filter Test, EPA Method 9095. [§330.15(e)(6), §330.3(81)]
- Containers holding liquids unless: the container is similar in size to those found in household waste, the container is designated to hold liquids for other than storage, **or** the waste is household waste. [§330.15(e)(6), §330.3(81)]
- Regulated hazardous waste [40 CFR §261.3] that is not excluded from regulation as a hazardous waste [40 CFR §261.4(b)] or that was not generated by a conditionally exempt small-quantity generator. [§330.15(e)(7), §330.3(127)]
- Waste that exhibits the characteristics for hazardous waste [40 CFR §261.3] from oil, gas, and geothermal activities subject to regulation by the Railroad Commission of Texas. [§330.15(e)(7)]
- Polychlorinated biphenyl (PCB) wastes, [40 CFR Part 761] unless authorized by the United States Environmental Protection Agency. [§330.15(e)(8)]
- Radioactive materials, [Chapter 336] except as authorized in Chapter 336 or that are subject to an exemption of the Department of State Health Services. [§330.15(e)(9)]

Specify any other wastes to be prohibited for disposal that are not listed above.

E. Material Recovery

Will the facility recover materials from incoming waste? ☐ Yes ☐ No

If yes, provide a descriptive narrative describing the percentage of incoming waste, if applicable, that must be recovered and its intended use.

**F. Estimated Maximum Annual Waste Acceptance Rate Projected for Five Years
[§330.61(b)(1)(C)]**

Provide an **estimated** maximum annual waste acceptance rates at the facility, projected for five years. These rates are not permit limitations.

Table 1. Five-Year Projection for Waste Acceptance.

Year	Estimated Maximum Annual Waste Acceptance Rate

G. Storage and Processing Units

Indicate units that will store or process waste at the facility. Describe the wastes that will be stored or processed in these units. Provide the final disposition or use (e.g., landfill disposal, composting) of the processed materials. **Waste storage and processing authorized separately (such as a registered transfer station within the permit boundary of a landfill) should not be included on this form.**

Storage and processing units must be illustrated (or locations described) on site layout figures in Part II of the application.

Examples:

1. Unit: liquid stabilization unit, Purpose: process, Waste Type: liquid waste, Disposition: solidified material to be disposed in a properly authorized landfill; or
2. Unit: grease separation and dewatering unit, Purpose: process, Disposition: water to WWTP and grease to composter or Type I landfill.

Table 1. Waste storage and processing units.

Unit	Purpose	Waste Type Stored or Processed	Final Disposition or Use
	<input type="checkbox"/> Store <input type="checkbox"/> Process		
	<input type="checkbox"/> Store <input type="checkbox"/> Process		
	<input type="checkbox"/> Store <input type="checkbox"/> Process		
	<input type="checkbox"/> Store <input type="checkbox"/> Process		
	<input type="checkbox"/> Store <input type="checkbox"/> Process		
	<input type="checkbox"/> Store <input type="checkbox"/> Process		

H. Prohibited from Processing

The following wastes are prohibited from processing:

- Any wastes not authorized for processing above.
- Lead-acid storage batteries may not be incinerated. [§330.15(e)(1)]
- Used motor vehicle oil may not be incinerated. [§330.15(e)(2)]
- Regulated hazardous waste [40 CFR §261.3] that is not excluded from regulation as a hazardous waste [40 CFR §261.4(b)] or that was not generated by a conditionally exempt small-quantity generator. [§330.15(e)(7), §330.3(127)]

Specify any other wastes to be prohibited for storage or processing that are not listed above.

I. Special Waste Acceptance Plan [§330.171(b)(2)]

Does this application include an **optional** Special Waste Acceptance Plan?

☐ Yes ☐ No

If yes, please provide its location in the application.

J. Limiting Parameters [§330.61(b)(1)]

1. Regulated Hazardous Waste

MSW landfills may not accept regulated hazardous waste [§330.3(127)] for processing or disposal. The presence or characteristic of any material meeting the definition of a regulated hazardous waste is a limiting parameter for waste disposal or processing.

2. Free Liquids

The presence of free liquids, as defined by the Paint Filter Test, EPA Method 9095, in waste, but not household waste and not liquid in containers similar in size to those found in household waste, is a limiting parameter for waste disposal. [§330.15(e)(6), §330.3(81)]

3. PCBs

The presence of polychlorinated biphenyls (PCB) wastes [40 CFR Part 761] unless authorized by the United States Environmental Protection Agency is a limiting parameter for waste disposal or processing. [§330.15(e)(8)]

4. Radioactive Materials

The presence of radioactive materials [Chapter 336], except as authorized in Chapter 336 or that are subject to an exemption of the Department of State Health Services, is a limiting parameter for waste disposal or processing. [§330.15(e)(9)]

5. Class 1 Solid Waste

For all Type I AE landfills and for Type I landfills that do not have a Class 1 cell [330.331(e)] or have chosen to excluded Class 1 industrial nonhazardous solid waste, 1,500 mg/kg TPH and the concentrations in 30 TAC §335.521(a)(1) are limiting parameters for waste disposal.

6. Other limitations:
