SCS ENGINEERS

February 21, 2022 SCS Project No. 16216088.00

Mr. Eric Clegg Municipal Solid Waste Permits Section Waste Permits Division (MC-126) Texas Commission on Environmental Quality 12100 Park 35 Circle, Bldg. F Austin, TX 78753

Re: Proposed City of Waco Landfill - McLennan and Limestone Counties, Texas Municipal Solid Waste - Permit Application No. 2400 New Permit Application – Response to February 10, 2022 Information Request on December 2021 Supplemental Submittal Tracking No. 23201563 [25533209/25817489]; RN110471307/CN600131940

Dear Mr. Clegg:

On behalf of the City of Waco, SCS Engineers (SCS) has prepared the following response to the Texas Commission on Environmental Quality's (TCEQ's) February 10, 2022 New Permit Application, Information Request letter/email, related to the December 2021 Supplemental Submittal for a permit application for the proposed City of Waco Landfill, TCEQ Permit No. MSW-2400.

The original comment received in your February 10, 2022 information request is provided below, followed by the City's response in bold/italics:

1. Revise the existing Drawing 6A.3 to identify the two EDA culverts that are identified in the revised Drawings 6A.5 and 6A.14.

As discussed and agreed with TCEQ on February 17, 2022, we have revised Drawings 6A.3A (in lieu of Drawing 6A.3) to identify by name consistent with Drawings 6A.5 and 6A.14 the locations of the two sets of culverts for the EDA perimeter drainage system. We have also similarly identified the WDA culverts in the perimeter drainage system on this drawing as well for consistency.

2. The newly added contents, which are either direct quotes from or based on the flowage easement instrument, will authorize the easement holder "unrestricted" access into the landfill site, inconsistent with the access control measures contained in Part IV, SOP. Revise Section 3 to add provisions that the access by the flowage easement holder will follow the access control requirements included in Part IV, SOP; or, delete the added contents (so the flowage easement holder will follow the same access control measures as other easement holders).

As discussed and agreed with TCEQ on February 17, 2022, Part IV – SOP, Section 4.1.1 has been revised to clarify that the Tehuacana Creek Water Control and Improvement District (WCID) Number One (1) of Leroy, Texas will have access to the flowage easement using the access routes and points from adjacent City-owned property consistent with Parts I/II, Section 3 and depicted on Drawings 3.1A (Attachment 3) and 6A.3A (Attachment 6A).

Mr. Eric Clegg February 21, 2022 Page 2

Additionally, we have also revised Section 4.1.1 to clarify the time/day of access and applicable access control measures for the time/day of access for Techaucana WCID and other easement holders in this section.

Additionally, attached to this response letter, we have included one original and two (2) unmarked copies, and one marked copy of all revised pages for use as replacement pages in the permit application. Where possible, we have identified proposed changes from the existing permit application in a redline/strike-out version (i.e., marked version). Additionally, we have included a new revision date and revision number on pages that have been revised as part of this information request. Furthermore, we have attached a signed Part 1 Form, and posted this response on the publically accessible internet website http://www.waco-texas.com/landfill-application-process.asp.

We trust that our responses will assist you in the completion of your technical review. If you have any questions or need additional information, please do not hesitate to contact Ryan Kuntz, P.E. at (817) 358-6117.

Sincerely,

Ryan Kuntz, P.E. Vice President/Satellite Office Manager SCS Engineers TBPE Registration No. F-3407

Attachments: as described herein

cc: Mr. Charles Dowdell, City of Waco Mr. Jeffrey Reed, Lloyd Gosselink Rochelle & Townsend, P.C. TCEQ PART 1 FORM FOR NEW PERMIT FOR A MSW FACILITY (TCEQ-0650)

Facility Name: City of Waco Landfill Permittee/Registrant Name: City of Waco MSW Authorization #:2400 Initial Submittal Date: 8/7/2018 Revision Date: 2/18/2022

Texas Commission on Environmental Quality



Part I Form for New Permit/Registration and Amendment Applications for an MSW Facility

1.	. Reason for Submittal			
	Initial Submittal	Notice of Deficie	ency (NOD) Response	
2.	Authorization Type			
	🛛 Permit	Registration		
3.	Application Type			
	🛛 New	Major Amendme	ent	
		Major Amendme	ent (Limited Scope)	
4.	Application Fees			
	Pay by Check	🛛 Online Payment		
	If paid online, e-Pay Confirmat	ion Number: 582EA	000311862	
5.	Application URL			
	Is the application submitted fo	r Type I Arid Exempt	(AE) and/or Type IV AE facility?	
	If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted. http://http://www.waco-texas.com/landfill-application-process.asp			
6.	. Application Publishing			
	Party Responsible for Publishin	g Notice:		
	Applicant Applicant	gent in Service	🛛 Consultant	
	Contact Name: Ryan R. Kunt Director	z, P.E.	Title: Vice President /Project	

7. Alternative Language Notice

Is an alternative language notice required for this application? (For determination refer to Alternative Language Checklist on the Public Notice Verification Form TCEQ-20244-Waste)

Yes

8. Public Place Location of Application

🛛 No

Name of the Public Place: Waco-McLennan County Central Library / Gibbs

Memorial Library

Physical Address: 1717 Austin Avenue / 305 East Rusk Street

City: Waco / Mexia County: McLennan / Limestone State: TX Zip Code: 76701 76667

(Area code) Telephone Number: 254.750.5941 / 254.562.3231

9. Consolidated Permit Processing Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33? □ Yes □ Not Applicable If "Yes", state the other TCEQ program authorizations requested:

10. Confidential Documents

Does the application contain confidential documents?

🗌 Yes 🛛 🖾 No

If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."

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

Permit or Approval	Received	Pending	Not Applicable
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act			\boxtimes
Dredge or Fill Permits under the CWA			\boxtimes
Licenses under the Texas Radiation Control Act			\boxtimes
Other (describe)			

12. General Facility Information			
Facility Name: City of Waco Landfill			
Contact Name: Charles Dowdell	Title: Director of Solid		
Waste			
MSW Authorization No. (if available): 2400			
Regulated Entity Reference No. (if issued)*: RN1104713	07		
Physical or Street Address (if available): 4730 T K Parkv	vay		
City: Axtell County: McLennan & Limestone State:	TX Zip Code: 76624		
(Area Code) Telephone Number: (254) 750-1601			
Latitude (Degrees, Minutes Seconds): N 31° 41' 54.23"			
Longitude (Degrees, Minutes Seconds): W 96° 55' 43.89	? "		
Benchmark Elevation (above mean sea level): 541.15 ft.			
Provide a description of the location of the facility with res identifiable landmarks: approximately 0.4 mile south o Parkway and State Highway 31 in McLennan County	pect to known or easily of the intersection of TK		
Detail access routes from the nearest United States or sta approximately 0.4 mile south of the intersection of 1 Highway 31 in McLennan County	te highway to the facility: FK Parkway and State		
*If this number has not been issued for the facility, complete a TCEQ Consubmit it with this application. List the Facility as the Regulated Entity.	re Data Form (TCEQ-10400) and		

13. Facility Type(s)			
⊠ Type I □ Type I AE	Type IV Type IV AE	☐ Type V ☐ Type VI	

14. Activities Conducted at the Facility			
Storage	Processing	🛛 Disposal	

15. Facility Waste Management Unit(s)		
🛛 Landfill Unit(s)	Incinerator(s)	
Class 1 Landfill Unit(s)	Autoclave(s)	
Process Tank(s)	Refrigeration Unit(s)	
Storage Tank(s)	Mobile Processing Unit(s)	
Tipping Floor	Type VI Demonstration Unit	
Storage Area	Compost Pile(s) and/or Vessel(s)	
Container(s)	Other (Specify)	
Roll-off Boxes	Other (Specify)	
Surface Impoundment	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.

Proposed Type I Municipal Solid Waste Landfill located on 502.5 acres of land in McLennan and Limestone Counties, designed in accordance with Title 30, Texas Administrative Code, Chapter 330. The primary purpose of this landfill is to serve as a replacement for the current City of Waco landfill (MSW Permit No. 948A). The landfill will provide disposal capacity for residences, businesses, and industries primarily in the communities of McLennan and Limestone Counties and other nearby counties. Includes submittal of Parts III and IV of the permit application, and responses to technical notice of deficiency letters dated 11/19/18, 2/14/19, 8/19/2020, 11/9/2020, 1/21/2021, 4/19/2021, 5/26/2021, and 2/10/2022.

17. Facility Contact Information

Site Operator (Permittee/Registrant) Name: City of Waco

Customer Reference No. (if issued)*: CN600131940

Contact Name: Charles Dowdell

Title: Director of Solid

Waste

Mailing Address: 501 Schroeder Drive

City: Waco County: McLennan State: TX Zip Code: 76710

(Area Code) Telephone Number: (254) 750-1601

Email Address: charlesd@wacotx.gov

TX Secretary of State (SOS) Filing Number:

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

	Operator Name ¹ : same as Permittee				
	Customer Reference No. (if issued)*:				
	Contact Name:	Title	:		
	Mailing Address:				
	City: County:	State:	Zip Cod	e:	
	(Area Code) Telephone N	lumber:			
	Email Address:				
	TX SOS Filing Number:				
	¹ If the Operator is the same as *If the Operator does not have with this application. List the O	Site Operator/Permittee this number, complete perator as the customer	e type "Same a: a TCEQ Core Da	s "Site Operator (Permittee/Registrant)" ata Form (TCEQ-10400) and submit it	
	Consultant Name (if a	pplicable): SCS E	ngineers, T	BPE Registration No. F-3407	
	Texas Board of Professio	nal Engineers Firm	Registration	Number:	
	Contact Name: Ryan R.	Kuntz, P.E.	Tit	le: Vice Pres., Pr. Director	
	Mailing Address: 1901	Central Drive, Sui	te 550		
	City: Bedford County:	Tarrant State: T	X Zip Code	: 76021	
	(Area Code) Telephone N	lumber: 817.358.	6117		
	E-Mail Address: rkuntz	@scsengineers.co	m		
	Agent in Service Name	e (required only f	or out-of-st	ate):	
	Mailing Address:				
	City: County:	State:	Zip Cod	e:	
	(Area Code) Telephone N	lumber:			
	E-Mail Address:				
					_
18	8. Facility Supervisor's	License			
	Select the Type of Licens Chapter 30, Occupationa facility operations.	e that the Solid Wa I Licenses and Regi	iste Facility S strations, wi	Supervisor, as defined in 30 TAC Il obtain prior to commencing	
	Class A	is B			
19	9. Ownership Status of	the Facility			
	Corporation	Limited Partners	ship 🗌	Federal Government	
	Individual	🛛 City Governmer	nt 🗌	Other Government	
	Sole Proprietorship	County Governr	nent 🗌	Military	

General Partnership State Government

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?
🛛 Yes 🗌 No
If "No", provide the information requested below for any additional ownership.
Owner Name:
Street or P.O. Box:
City: County: State: Zip Code:
(Area Code) Telephone Number:
Email Address (optional):
20. Other Governmental Entities Information
Texas Department of Transportation District: Waco
District Engineer's Name: Stanley Swiatek, P.E.
Street Address or P.O. Box: 100 S. Loop Drive
City: Waco County: McLennan State: TX Zip Code: 76704-2858
(Area Code) Telephone Number: (254) 867-2700
E-Mail Address (optional):
The Local Governmental Authority Responsible for Road Maintenance (if applicable): N.A.
Contact Person's Name:
Street Address or P.O. Box:
City: County: State: Zip Code:
(Area Code) Telephone Number:
E-Mail Address (optional):
City Mayor Information
City Mayor's Name: Dillion Meek
Office Address: 300 Austin Ave
City: Waco County: McLennan State: TX Zip Code: 76702
(Area Code) Telephone Number: (254) 750-5750
E-Mail Address (optional): dillon.meek@wcotx.gov
City Health Authority: Waco-McLennan County Public Health District
Contact Person's Name: Dr. Brenda Gray, Director
Street Address or P.O. Box: 225 W. Waco Drive
City: Waco County: McLennan State: TX Zip Code: 76707
(Area Code) Telephone Number: (254) 750-5450
E-Mail Address (optional):

County Judge Information

County Judge's Name: Scott M. Felton Street Address or P.O. Box: 501 Washington Ave, Room 214 City: Waco County: McLennan State: TX Zip Code: 76701 (Area Code) Telephone Number: (254) 757-5049 E-Mail Address (optional):

County Health Authority: Waco-McLennan County Public Health District Contact Person's Name: E. Farley Verner, M.D. Street Address or P.O. Box: 7030 New Sanger Road, Suite 202 City: Waco County: McLennan State: TX Zip Code: 76712 (Area Code) Telephone Number: (254) 855-9790

E-Mail Address (optional): farleyverner@gmail.com

State Representative Information

District Number: **12** State Representative's Name: **Kyle Kacal** District Office Address: **3000 Briarcrest Dr., Ste 203** City: **Bryan** County: **Brazos** State: **TX** Zip Code: **77802** (Area Code) Telephone Number: **979-774-7276** E-Mail Address (optional):

State Senator Information

District Number: 22 State Senator's Name: The Honorable Brian Birdwell District Office Address: 900 Austin Ave, Suite 500 City: Waco County: McLennan State: TX Zip Code: 76701 (Area Code) Telephone Number: (254) 772-6225 E-Mail Address (optional):

Council of Government (COG) Name: Heart of Texas COG Representative's Name: Falen Bohannon COG Representative's Title: Solid Waste Program Manager Street Address or P.O. Box: 1514 S. New Road City: Waco County: McLennan State: TX Zip Code: 76711 (Area Code) Telephone Number: (254)292-1800 E-Mail Address (optional): Falen.Bohannon@hot.cog.tx.us

County Judge Information

County Judge's Name: Limestone County Judge: Honorable Richard Duncan Street Address or P.O. Box: 200 W. State ST., Ste 101 City: Groesbeck County: Limestone State: TX Zip Code: 76642 (Area Code) Telephone Number: 254-729-3810 E-Mail Address (optional):

County Health Authority: Limestone Medical Center

Contact Person's Name: Dr. Jeffrey Rettig

Street Address or P.O. Box: 204 W. Trinity Street

City: Groesbeck County: Limestone State: TX Zip Code: 76642

(Area Code) Telephone Number: 254-729-3740

E-Mail Address (optional):

State Representative Information

District Number: **12** State Representative's Name: **Kyle Kacal** District Office Address: **3000 Briarcrest Dr., Ste 203** City: **Bryan** County: **Brazos** State: **TX** Zip Code: **77802** (Area Code) Telephone Number: **979-774-7276** E-Mail Address (optional):

State Senator Information

District Number: 5 State Senator's Name: Charles Schwertner District Office Address: 3000 Briarcrest Drive, Suite 202 City: Bryan County: Brazos State: TX Zip Code: 77802 (Area Code) Telephone Number: 979-776-0222 E-Mail Address (optional):

Council of Government (COG) Name: Heart of Texas COG Representative's Name: Falen Bohannon COG Representative's Title: Solid Waste Program Manager Street Address or P.O. Box: 1514 S. New Road City: Waco County: McLennan State: TX Zip Code: 76711 (Area Code) Telephone Number: (254)292-1800 E-Mail Address (optional): Falen.Bohannon@hot.cog.tx.us

River Basin Authority Name: Brazos River Authority			
Contact Person's Name: Phil Ford			
Watershed Sub-Basin Name:			
Street Address or P.O. Box: 4600 Cobbs Drive			
City: Waco County: McLennan State: TX Zip Code: 76710			
(Area Code) Telephone Number: (888) 922-6272			
E-Mail Address (optional):			
Coastal Management Program			
Is the facility within the Coastal Management Program boundary?			
🗌 Yes 🛛 No			
U.S. Army Corps of Engineers			
The facility is located in the following District of the U.S. Army Corps of Engineers:			
Albuquerque, NM Galveston, TX			
Ft. Worth, TX 🗌 Tulsa, OK			
Local Government Jurisdiction			
Within City Limits of:			
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			
(If "Yes", provide a copy of the ordinance or order as an attachment):			

Facility Name: City of Waco Landfill MSW Authorization #: 2400

Initial Submittal Date: 8/7/2018 Revision Date: 2/18/2022

Signature Page

I, Bradley Ford

(Site Operator (Permittee/Registrant)'s Authorized Signatory)

<u>City Manager</u>, (Title)

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.

Signature:

TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, _____, hereby designate _____ (Print or Type Operator Name) (Print or Type Representative Name)

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.

Printed or Typed Name of Operator or Principal Executive Officer

Signature	
SUBSCRIBED AND SWORN to before me by the said	Ford
On this 21 day of Pob, 2022	
My commission expires on the (a) day of (a) , (a)	and the second second
Allelander	ASHLEY ELISE SNYDER
Notary Public in and for	Notary Public, State of Texas
McLehnan County, Texas	Notary ID 131884344
(Note: Application Must Bear Signature & Seal of Notary Public)	

Part I Attachments

(See Instructions for P.E. seal requirements.)

Required Attachments	Attachment No.
Supplementary Technical Report	Х
Property Legal Description	Х
Property Metes and Bounds Description	Х
Facility Legal Description	Х
Facility Metes and Bounds Description	Х
Metes and Bounds Drawings	Х
On-Site Easements Drawing	Х
Land Ownership Map	Х
Land Ownership List	Х
Electronic List or Mailing Labels	Х
Texas Department of Transportation (TxDOT) County Map	Х
General Location Map	Х
General Topographic Map	Х
Verification of Legal Status	Х
Property Owner Affidavit	Х
Evidence of Competency	Х
Additional Attachments as Applicable- Select all those apply	and add as necessary
🛛 TCEQ Core Data Form(s)	Х
Signatory Authority Delegation	Х
🛛 Fee Payment Receipt	Х
Confidential Documents	
Waste Storage, Processing and Disposal Ordinances	
Final Plat Record of Property	
Certificate of Fact (Certificate of Incorporation)	
Assumed Name Certificate	

MARKED VERSION

M:\Projects\Waco\16216088.00 New LF(T-140 Part III & IV App)Supplemental 4\Response to TCEQ Comments\L2022.02.17 Waco Landfill, MSW-2400, TCEQ Information Request on Dec 2021 Supp.docx

CITY OF WACO LANDFILL TCEQ PERMIT NO. MSW-2400 McLENNAN AND LIMESTONE COUNTIES, TEXAS

PART III – SITE DEVELOPMENT PLAN ATTACHMENT 6A SURFACE WATER DRAINAGE PLAN

Prepared for:

CITY OF WACO



Solid Waste Services 501 Schroeder Drive Waco, TX 76710



Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407 Dallas/Fort Worth Office 1901 Central Drive, Suite 550 Bedford, Texas 76021 817/571-2288

> Revision 0 – April 2020 Revision 1 – October 2020 Revision 2 – June 2021 Revision 3 – December 2021 <u>Revision 4 – February 2022</u> SCS Project No. 16216088.00

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Drawings

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- 6A.3A Flowage Easement Access Route Plan
- 6A.4 Channel Profile Channel 1A1 to Channel 1A4
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- 6A.12 Drainage Swale Details
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- 6A.15 Specifications for Silt Fences and Hay Bales
- 6A.16 Specifications for Sediment Traps and Check Dams
- 6A-E.1 Final Cover Drainage Swale Areas
- 6A-E.2 Final Cover Downchute Areas
- 6A-E.3 Intermediate Cover Typical Swale/Downchute Layout I
- 6A-E.4 Intermediate Cover Typical Swale/Downchute Layout II
- 6A-E.5 Intermediate Cover Downchute Areas

(Drawings 6A-E.1 through 6A-E.5 are provided in Appendix 6A-E)

Appendices

- 6A-A HEC-HMS Input Parameters
- 6A-B HEC-HMS Pre-Development Output Files
- 6A-C HEC-HMS Post-Development Input/Output Files
- 6A-D Discharge Hydrographs
- 6A-E Hydraulic Analysis
- 6A-F Soil Loss Analysis
- 6A-G Erosion and Sedimentation Control Inspection and Maintenance Form



SCS Engineers TBPE Reg. # F-3407

DRAWINGS

6A.1A through 6A.16



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LIMITS OF WASTE	72 UF		OARD (
SECTOR BOUNDARY	V DA		SXAS B
COUNTY LINE		1999	
× EXISTING FENCE (SCREENED)			
100-year flood plain (see note 2)		: ب ا	ÄTI
100-YEAR STORM EVENT WATER SURFACE	LAN		PLIC
	MEN-		AF
	ASE		M
	ν B R	MAC	
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ACCESS ROAD/	AC F	<u>≻</u> §	NSN
FLOWAGE EASEMENT ACCESS ROUTE (SEE NOTE 6)			-
(SEE NOTE 6)	AWING	OUECT	Υ ^μ
	DR/	РК	-
		S	
NGVD 29 CONTOUR)		Ü	
NOTE:		S ∑	
1. THE EXISTING TOPOGRAPHY SHOWN ON THIS PLAN WAS DEVELOPED BY DAS GEOSPACIAL FROM AERIAL PHOTOGRAPHY FLOWN JULY 03, 2018.		SE NAC	
 100-YEAR FLOOD PLAIN IS DESIGNATED AS ZONE A, BASED ON FIRM PANEL 48293C0125C, DATED 09/16/11 (LIMESTONE COUNTY), AND FIRM PANEL 48309C0250D, DATED 12/20/19 (MCLENNAN COUNTY). 		ASTE	
3. ELEVATIONS SHOWN ON THIS DRAWING ARE TOP OF FINAL COVER ELEVATIONS IN FEET MEAN SEA LEVEL (FT MSL).		£ ≶	
4. USGS MAP AXTELL, TEXAS (1956) IS SHOWN ON THIS EXHIBIT.			
5. IN ACCORDANCE WITH "AN INTENSIVE CULTURAL RESOURCES		SC	
PROJECT," PREPARED BY HORIZON ENVIRONMENTAL SERVICES,	CLIENT		
25-FOOT CONSTRUCTION BUFFER WILL BE MAINTAINED AROUND TK CEMETERY TO PROTECT ANY POTENTIAL UNMARKED GRAVES			
OUTSIDE THE PRESENT MODERN DAY CEMETERY BOUNDARIES AND FENCING.		76021 *:	RR RR
6. FLOWAGE EASEMENT ACCESS WILL BE PROVIDED TO THE TECHUACANA CREEK WATER CONTROL AND IMPROVEMENT DISTRICT NUMPER (1) BY	ŝ	tD, TX A RVW B	P. BY:
THE ACCESS ROUTES DELINEATED. WITH THE EXCEPTION OF DEFINED LANDFILL ACCESS ROADS, THESE ACCESS ROUTES WILL BE CLEARED		tEDFOF. 1-2188 ⊲∕.	٩
AND MAINTAINED CLEAR OF VEGETATION OR OTHER OBSTRUCTIONS FOR A MINIMUM 20-FOOT WIDTH. LANDFILL ACCESS ROADS WILL BE MAINTAINED CONSISTENT WITH DADT V. SECTION 4.12		RS : 550, B 817) 57	~ _
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CITY OF WACO LANDFILL TCEQ PERMIT NO. MSW-2400 McLENNAN AND LIMESTONE COUNTIES, TEXAS

PART IV SITE OPERATING PLAN

Prepared for:

CITY OF WACO



Solid Waste Services 501 Schroeder Drive Waco, TX 76710



Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407 Dallas/Fort Worth Office

1901 Central Drive, Suite 550 Bedford, Texas 76021 817/571-2288

Revision 0 - April 2020 Revision 1 – October 2020 Revision 2 – June 2021 Revision 3 – October 2021 <u>Revision 4 – February 2022</u> SCS Project No. 16216088.00

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4 OPERATIONAL PROCEDURES

4.1 ACCESS CONTROL (30 TAC §330.131)

Access to the landfill will be limited to the gated landfill entrance off of T K Parkway (also referred to as Farm-to-Market [FM] 939, approximately 0.4 miles south of the intersection of State Highway 31 and FM 939. The Gate Attendant will control access and monitor all vehicles entering and exiting the site.

4.1.1 Site Security

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry.

Unauthorized entry into the site is minimized by controlling access to the landfill site with the perimeter fence and entrance gates. The perimeter fence will consist of either barbed wire, 6-foot chain link fencing, or 8-foot privacy fencing at the locations depicted on Part III, Attachment 1, Drawing 1.2.

Additionally, the fence on the southern portion of the property will be installed at the approximate locations shown on Part III, Attachment 1 – Site Layout Plans. The Soil Conservation Services (SCS), Reservoir 19 intersects the southern property boundary at the confluence with Horse Creek. This reservoir has a normal pool elevation of 520.2 feet above mean sea level (ft MSL), associated with the elevation of the primary outlet structure, which provides a natural barrier to access. Therefore, the perimeter fence along the southern portion of the property will be terminated at approximately elevation 520 ft MSL at the confluence with Horse Creek, and then extended an additional 200 feet north of this confluence. Additionally, signs will be posted along this section of fence indicating "No Trespassing, City of Waco Property" or similar wording to discourage trespassing onto the property.

The site entrance will be secured by two gates (primary and secondary entrance gates). The primary entrance gate will be opened at 5:30 AM on days that the facility is in operation to minimize queuing on FM 939, as described in the Transportation Impact Analysis (Part I/II, Appendix I/IID-2) The secondary entrance gate will remain locked outside operating hours to prevent unauthorized vehicle access to the landfill. Additionally, other gates may be installed on the east-perimeter for access to other property owned by the Owner, which will be accessible to landfill personnel and authorized persons only, including the Tehuacana Creek Water Control and Improvement District (WCID) Number One (1) of Leroy, Texas (hereafter, "Tehuacana Creek WCID). The Tehuacana Creek WCID will have access to the flowage easement using the access routes and points from adjacent City-owned property consistent with Parts I/II, Section 3 and depicted on Drawings 3.1A (Attachment 3) and 6A.3A (Attachment 6A). The time/day of access to the landfill property by Tehuacana Creek WCID and other easement holders will be consistent with the existing easement instrument and coordination with the Landfill Manager, unless for waste disposal, in which case access will be through the primary entrance gate and time/day consistent with Section 4.3.

The perimeter fence and gates will be inspected monthly. Repairs and maintenance will be performed consistent with §330.131. If the perimeter fence or gates have been damaged (i.e., breached), the TCEQ region office and any local pollution agency with jurisdiction, that has requested to be notified, will be notified within 24 hours of detection. The breach will be temporarily repaired within a 24-hour period (weather permitting), and will be permanently repaired within the timeframe approved by the TCEQ region office. Once permanent repairs are complete, the TCEQ region office will be notified. If the breach can be permanently repaired within 8 hours of detection, then a notice to the TCEQ region office is not required. Documentation of perimeter fence and gates inspections and breaches will be maintained in the Site Operating Record. Refer to Table 4.1 of this SOP for the site inspection and maintenance schedule.

The Owner will permit entry to the landfill to designated landfill personnel, solid waste haulers authorized to use the facility, TCEQ personnel, and properly identified persons whose entry is authorized by the Landfill Manager or designee. The Owner reserves the right to deny access to the landfill to persons not demonstrating a legitimate purpose for visiting. Visitors will be allowed on the active disposal area of the landfill only when accompanied by the Landfill Manager or designee.

4.1.2 Traffic Control

Access to the landfill will be provided via the primary entrance gate located off FM 939. The site entrance is detailed on Attachment 1, Drawing 1.5 - Entrance Facility Plan. The site entrance consists of an all-weather road, site entrance gates, scale house, and scales (initially one inbound and one outbound scale). The site entrance will also include two inbound queue lanes that provide approximately 3,300 feet of queuing length from the scales back to FM 939. Furthermore, at some point in the future, an additional inbound scale may be installed to accommodate increases in the waste acceptance rate over the site operating life. The Gate Attendant controls access and monitors all vehicles entering and exiting the site.

The site entrance road will be an asphalt or concrete paved roadway, or other suitable material that transitions into onsite access roads, including perimeter and interior haul roads. The perimeter and interior haul roads will be constructed of crushed stone, concrete rubble, masonry demolition debris, gravel, caliche, concrete paving, asphalt paving, or other suitable material and will provide access from the site entrance road to the active fill area(s) and CCS. The perimeter and interior haul roads will be maintained in an all-weather condition and will be freely draining, and kept free of excessive ruts and potholes, as described in Section 4.12.

The approach to the working face will be maintained such that two or more vehicles may safely unload side-by-side. A vehicle turn-around area large enough to enable vehicles to arrive and turn around safely will be provided adjacent to the working face. The vehicles will back to a vacant area near the working face to unload. Upon completion of the unloading operation, the transportation vehicles will leave the working face area. Landfill personnel will direct traffic, as necessary, to expedite safe movement of vehicles.

Loitering will not be permitted at the landfill working face.



Within the site, signs will be placed along the landfill entrance and onsite access roads at a frequency adequate for users to understand where disposal areas are and which roads are to be used. No private or commercial solid waste vehicles will be allowed access to any areas other than the active portion of the landfill. Roads not being used for access to disposal areas will be blocked or otherwise marked for no entry.

4.2 UNLOADING WASTES (30 TAC §330.133)

This landfill is authorized to dispose of municipal solid waste and those special solid wastes allowable under 30 TAC §330.171. The categories of wastes that are not authorized for disposal at this site by state [specifically, 30 TAC §330.15(e)] and federal regulations are discussed in Section 5 of this SOP. Special wastes that are accepted at the landfill are described in Section 4.20.

The landfill will have a CCS to reduce traffic at the working face of the landfill. This CCS will be used for the acceptance and storage of waste, which will be disposed at the working face, and acceptance and storage of recyclables for transport to an authorized recycling or disposal facility. The CCS will only accept the waste streams authorized for disposal at the landfill and the types of recyclables described in Section 4.2.2. The unloading of waste in unauthorized areas are prohibited under 30 TAC §330.133(b).

Solid waste dumping will be controlled to prevent disposal in locations other than those specified by landfill management. Any waste deposited in an unauthorized area will be immediately removed and disposed of properly at the working face or CCS. Any unauthorized waste identified will be handled in accordance with Section 5. Landfill personnel will report questionable waste materials or other issues of concern immediately to the Landfill Manager or designee.

Signs with directional arrows and portable traffic barricades will restrict traffic to designated disposal locations. Waste hauling vehicles will be directed by signs placed along the onsite landfill access roads to the designated disposal areas. In addition, rules for waste disposal and unauthorized waste will be prominently displayed on signs near the site entrance.

4.2.1 Unloading Wastes for Disposal at the Working Face

The typical size of the working face(s) (i.e. solid waste unloading areas) at the landfill will be approximately 20,000 square feet. The maximum size of the working face(s) will be 30,000 square feet. The working face(s) will be confined to a minimum area consistent with the incoming waste stream. Typically, there will be one working face during dry weather, however there may be two working faces during wet weather, if necessary, to accommodate the efficient operation of the landfill. Also, during the initial disposal in a newly constructed cell the Owner may operate two working faces to prevent disposal of large items directly over a newly constructed liner. However, the maximum combined size of the both working faces will not exceed 30,000 square feet.

As discussed in Section 2, trained personnel will monitor the incoming waste. Additionally, the Gate Attendant will direct citizens with small or light vehicles to unload waste at the CCS, as described in Section 4.2.2, which reduces small vehicular traffic at the working face. In addition, Spotter(s) will be at the working face during operating hours to direct and observe the unloading

of waste that is disposed at the landfill (see Section 5 of this SOP). These personnel will have a basic understanding of Class 1 industrial waste, hazardous wastes, and other unauthorized wastes, which are excluded from this facility. After communicating with the Landfill Manager or designee, landfill personnel will have authority and responsibility to (1) reject unauthorized loads, (2) have unauthorized material removed by the transporter or by onsite personnel, and (3) access appropriate surcharges.

4.2.2 Unloading Wastes at the Citizens' Collection Station (CCS)

The Gate Attendant will direct citizens with small or light vehicles to unload waste at the CCS into clearly identified containers (i.e., roll-offs). Trained personnel will monitor the incoming waste on the trucks. Roll-offs containing food waste will typically be removed from the CCS by the end of each day of operation, but will not be stored (i.e., maintained within containers) at the CCS longer than 48 hours following receipt of said waste. As described in Section 3, all solid waste containing food waste shall be stored in covered or closed containers that are leak-proof, durable, and designed for safe handling and easy cleaning.

The landfill may also receive recyclable materials at the CCS in accordance with Chapter 328, related to waste minimization and recycling. The CCS will be comprised of an elevated deck area with an all-weather surface, with collection containers situated behind a retaining wall for drop-off of waste and recyclables, such as aluminum, glass, plastic, cardboard/newspapers, and scrap-metal. Other recyclables will have dedicated drop-off and/or storage areas, as described below. The recyclable materials that may be accepted at the CCS are described below, in addition to the mechanism for storage of said materials:

- Aluminum, glass, plastic, cardboard/newspaper, and scrap metal: These materials will be unloaded into containers or bins (i.e., roll-offs, dumpsters, etc.) for either mixed or segregated recycling of aluminum, glass, plastic, cardboard/newspaper, or scrap metal.
- Large items and/or white goods: Large items and white goods may be accepted and stored at the CCS, as described in Section 4.9.
- Whole used or scrap tires: In accordance with §328.54(c), whole used, scrap tires, or tire pieces will be stored at the CCS in quantities not to exceed 500 used or scrap tires (or weight equivalent thereof) on the ground or 2,000 used or scrap tires (or weight equivalent thereof) in enclosed and lockable containers/trailers. The facility will maintain records of the number or weight of tires received, stored, and transported offsite to assist with the manifest system requirements for the transport of tires or tire pieces diverted from the landfill and transported offsite will be maintained in the Site Operating Record.

Each container or unloading area for waste or recyclables will be clearly identified. Containers used at the CCS will be inspected and maintained in accordance with Section 3. A Spotter will direct citizens to appropriate locations for unloading materials at the CCS and observe that the respective materials are unloaded in the correct bin or container. Maintenance Workers, designated as Spotters, will be trained to recognize unauthorized waste, the procedures if unauthorized waste is detected, and fire protection procedures. Fire protection procedures for the CCS are described in Section 6.1.

UNMARKED VERSION

CITY OF WACO LANDFILL TCEQ PERMIT NO. MSW-2400 McLENNAN AND LIMESTONE COUNTIES, TEXAS

PART III – SITE DEVELOPMENT PLAN ATTACHMENT 6A SURFACE WATER DRAINAGE PLAN

Prepared for:

CITY OF WACO



Solid Waste Services 501 Schroeder Drive Waco, TX 76710



Prepared by:

SCS ENGINEERS

Texas Board of Professional Engineers, Reg. No. F-3407 Dallas/Fort Worth Office 1901 Central Drive, Suite 550 Bedford, Texas 76021 817/571-2288

> Revision 0 – April 2020 Revision 1 – October 2020 Revision 2 – June 2021 Revision 3 – December 2021 Revision 4 – February 2022 SCS Project No. 16216088.00

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PART IV SITE OPERATING PLAN

Prepared for:

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4 OPERATIONAL PROCEDURES

4.1 ACCESS CONTROL (30 TAC §330.131)

Access to the landfill will be limited to the gated landfill entrance off of T K Parkway (also referred to as Farm-to-Market [FM] 939, approximately 0.4 miles south of the intersection of State Highway 31 and FM 939. The Gate Attendant will control access and monitor all vehicles entering and exiting the site.

4.1.1 Site Security

Site security measures are designed to prevent unauthorized persons from entering the site, to protect the facility and its equipment from possible damage caused by trespassers, and to prevent disruption of facility operations caused by unauthorized site entry.

Unauthorized entry into the site is minimized by controlling access to the landfill site with the perimeter fence and entrance gates. The perimeter fence will consist of either barbed wire, 6-foot chain link fencing, or 8-foot privacy fencing at the locations depicted on Part III, Attachment 1, Drawing 1.2.

Additionally, the fence on the southern portion of the property will be installed at the approximate locations shown on Part III, Attachment 1 – Site Layout Plans. The Soil Conservation Services (SCS), Reservoir 19 intersects the southern property boundary at the confluence with Horse Creek. This reservoir has a normal pool elevation of 520.2 feet above mean sea level (ft MSL), associated with the elevation of the primary outlet structure, which provides a natural barrier to access. Therefore, the perimeter fence along the southern portion of the property will be terminated at approximately elevation 520 ft MSL at the confluence with Horse Creek, and then extended an additional 200 feet north of this confluence. Additionally, signs will be posted along this section of fence indicating "No Trespassing, City of Waco Property" or similar wording to discourage trespassing onto the property.

The site entrance will be secured by two gates (primary and secondary entrance gates). The primary entrance gate will be opened at 5:30 AM on days that the facility is in operation to minimize queuing on FM 939, as described in the Transportation Impact Analysis (Part I/II, Appendix I/IID-2) The secondary entrance gate will remain locked outside operating hours to prevent unauthorized vehicle access to the landfill. Additionally, other gates may be installed on the perimeter for access to other property owned by the Owner, which will be accessible to landfill personnel and authorized persons only, including the Tehuacana Creek Water Control and Improvement District (WCID) Number One (1) of Leroy, Texas (hereafter, "Tehuacana Creek WCID). The Tehuacana Creek WCID will have access to the flowage easement using the access routes and points from adjacent City-owned property consistent with Parts I/II, Section 3 and depicted on Drawings 3.1A (Attachment 3) and 6A.3A (Attachment 6A). The time/day of access to the landfill property by Tehuacana Creek WCID and other easement holders will be consistent with the existing easement instrument and coordination with the Landfill Manager, unless for waste disposal, in which case access will be through the primary entrance gate and time/day consistent with Section 4.3.

The perimeter fence and gates will be inspected monthly. Repairs and maintenance will be performed consistent with §330.131. If the perimeter fence or gates have been damaged (i.e., breached), the TCEQ region office and any local pollution agency with jurisdiction, that has requested to be notified, will be notified within 24 hours of detection. The breach will be temporarily repaired within a 24-hour period (weather permitting), and will be permanently repaired within the timeframe approved by the TCEQ region office. Once permanent repairs are complete, the TCEQ region office will be notified. If the breach can be permanently repaired within 8 hours of detection, then a notice to the TCEQ region office is not required. Documentation of perimeter fence and gates inspections and breaches will be maintained in the Site Operating Record. Refer to Table 4.1 of this SOP for the site inspection and maintenance schedule.

The Owner will permit entry to the landfill to designated landfill personnel, solid waste haulers authorized to use the facility, TCEQ personnel, and properly identified persons whose entry is authorized by the Landfill Manager or designee. The Owner reserves the right to deny access to the landfill to persons not demonstrating a legitimate purpose for visiting. Visitors will be allowed on the active disposal area of the landfill only when accompanied by the Landfill Manager or designee.

4.1.2 Traffic Control

Access to the landfill will be provided via the primary entrance gate located off FM 939. The site entrance is detailed on Attachment 1, Drawing 1.5 - Entrance Facility Plan. The site entrance consists of an all-weather road, site entrance gates, scale house, and scales (initially one inbound and one outbound scale). The site entrance will also include two inbound queue lanes that provide approximately 3,300 feet of queuing length from the scales back to FM 939. Furthermore, at some point in the future, an additional inbound scale may be installed to accommodate increases in the waste acceptance rate over the site operating life. The Gate Attendant controls access and monitors all vehicles entering and exiting the site.

The site entrance road will be an asphalt or concrete paved roadway, or other suitable material that transitions into onsite access roads, including perimeter and interior haul roads. The perimeter and interior haul roads will be constructed of crushed stone, concrete rubble, masonry demolition debris, gravel, caliche, concrete paving, asphalt paving, or other suitable material and will provide access from the site entrance road to the active fill area(s) and CCS. The perimeter and interior haul roads will be maintained in an all-weather condition and will be freely draining, and kept free of excessive ruts and potholes, as described in Section 4.12.

The approach to the working face will be maintained such that two or more vehicles may safely unload side-by-side. A vehicle turn-around area large enough to enable vehicles to arrive and turn around safely will be provided adjacent to the working face. The vehicles will back to a vacant area near the working face to unload. Upon completion of the unloading operation, the transportation vehicles will leave the working face area. Landfill personnel will direct traffic, as necessary, to expedite safe movement of vehicles.

Loitering will not be permitted at the landfill working face.

Within the site, signs will be placed along the landfill entrance and onsite access roads at a frequency adequate for users to understand where disposal areas are and which roads are to be used. No private or commercial solid waste vehicles will be allowed access to any areas other than the active portion of the landfill. Roads not being used for access to disposal areas will be blocked or otherwise marked for no entry.

4.2 UNLOADING WASTES (30 TAC §330.133)

This landfill is authorized to dispose of municipal solid waste and those special solid wastes allowable under 30 TAC §330.171. The categories of wastes that are not authorized for disposal at this site by state [specifically, 30 TAC §330.15(e)] and federal regulations are discussed in Section 5 of this SOP. Special wastes that are accepted at the landfill are described in Section 4.20.

The landfill will have a CCS to reduce traffic at the working face of the landfill. This CCS will be used for the acceptance and storage of waste, which will be disposed at the working face, and acceptance and storage of recyclables for transport to an authorized recycling or disposal facility. The CCS will only accept the waste streams authorized for disposal at the landfill and the types of recyclables described in Section 4.2.2. The unloading of waste in unauthorized areas are prohibited under 30 TAC §330.133(b).

Solid waste dumping will be controlled to prevent disposal in locations other than those specified by landfill management. Any waste deposited in an unauthorized area will be immediately removed and disposed of properly at the working face or CCS. Any unauthorized waste identified will be handled in accordance with Section 5. Landfill personnel will report questionable waste materials or other issues of concern immediately to the Landfill Manager or designee.

Signs with directional arrows and portable traffic barricades will restrict traffic to designated disposal locations. Waste hauling vehicles will be directed by signs placed along the onsite landfill access roads to the designated disposal areas. In addition, rules for waste disposal and unauthorized waste will be prominently displayed on signs near the site entrance.

4.2.1 Unloading Wastes for Disposal at the Working Face

The typical size of the working face(s) (i.e. solid waste unloading areas) at the landfill will be approximately 20,000 square feet. The maximum size of the working face(s) will be 30,000 square feet. The working face(s) will be confined to a minimum area consistent with the incoming waste stream. Typically, there will be one working face during dry weather, however there may be two working faces during wet weather, if necessary, to accommodate the efficient operation of the landfill. Also, during the initial disposal in a newly constructed cell the Owner may operate two working faces to prevent disposal of large items directly over a newly constructed liner. However, the maximum combined size of the both working faces will not exceed 30,000 square feet.

As discussed in Section 2, trained personnel will monitor the incoming waste. Additionally, the Gate Attendant will direct citizens with small or light vehicles to unload waste at the CCS, as described in Section 4.2.2, which reduces small vehicular traffic at the working face. In addition, Spotter(s) will be at the working face during operating hours to direct and observe the unloading

of waste that is disposed at the landfill (see Section 5 of this SOP). These personnel will have a basic understanding of Class 1 industrial waste, hazardous wastes, and other unauthorized wastes, which are excluded from this facility. After communicating with the Landfill Manager or designee, landfill personnel will have authority and responsibility to (1) reject unauthorized loads, (2) have unauthorized material removed by the transporter or by onsite personnel, and (3) access appropriate surcharges.

4.2.2 Unloading Wastes at the Citizens' Collection Station (CCS)

The Gate Attendant will direct citizens with small or light vehicles to unload waste at the CCS into clearly identified containers (i.e., roll-offs). Trained personnel will monitor the incoming waste on the trucks. Roll-offs containing food waste will typically be removed from the CCS by the end of each day of operation, but will not be stored (i.e., maintained within containers) at the CCS longer than 48 hours following receipt of said waste. As described in Section 3, all solid waste containing food waste shall be stored in covered or closed containers that are leak-proof, durable, and designed for safe handling and easy cleaning.

The landfill may also receive recyclable materials at the CCS in accordance with Chapter 328, related to waste minimization and recycling. The CCS will be comprised of an elevated deck area with an all-weather surface, with collection containers situated behind a retaining wall for drop-off of waste and recyclables, such as aluminum, glass, plastic, cardboard/newspapers, and scrap-metal. Other recyclables will have dedicated drop-off and/or storage areas, as described below. The recyclable materials that may be accepted at the CCS are described below, in addition to the mechanism for storage of said materials:

- Aluminum, glass, plastic, cardboard/newspaper, and scrap metal: These materials will be unloaded into containers or bins (i.e., roll-offs, dumpsters, etc.) for either mixed or segregated recycling of aluminum, glass, plastic, cardboard/newspaper, or scrap metal.
- Large items and/or white goods: Large items and white goods may be accepted and stored at the CCS, as described in Section 4.9.
- Whole used or scrap tires: In accordance with §328.54(c), whole used, scrap tires, or tire pieces will be stored at the CCS in quantities not to exceed 500 used or scrap tires (or weight equivalent thereof) on the ground or 2,000 used or scrap tires (or weight equivalent thereof) in enclosed and lockable containers/trailers. The facility will maintain records of the number or weight of tires received, stored, and transported offsite to assist with the manifest system requirements for the transport of tires or tire pieces diverted from the landfill and transported offsite will be maintained in the Site Operating Record.

Each container or unloading area for waste or recyclables will be clearly identified. Containers used at the CCS will be inspected and maintained in accordance with Section 3. A Spotter will direct citizens to appropriate locations for unloading materials at the CCS and observe that the respective materials are unloaded in the correct bin or container. Maintenance Workers, designated as Spotters, will be trained to recognize unauthorized waste, the procedures if unauthorized waste is detected, and fire protection procedures. Fire protection procedures for the CCS are described in Section 6.1.