

# Texas Commission on Environmental Quality Waste Permits Division Correspondence Cover Sheet

Date: <u>09/2024</u> Facility Name: <u>Polk County Landfill</u> Permit or Registration No.: <u>1384A</u>	Nature of Correspondence:  Initial/New Response/Revision to TCEQ Tracking No.: (from subject line of TCEQ letter regarding initial submission)
Affix this cover sheet to the front of your submission to for type of correspondence. Contact WPD at (512) 239  Table 1 - Municipal Solid	-2335 if you have questions regarding this form.
Applications	Reports and Notifications
New Notice of Intent	Alternative Daily Cover Report
☐ Notice of Intent	Closure Report
☐ New Permit (including Subchapter T)	☐ Compost Report ☐ Groundwater Alternate Source Demonstration
New Registration (including Subchapter T)	Groundwater Alternate Source Demonstration
Major Amendment	
Minor Amendment	Groundwater Monitoring Report
☐ Limited Scope Major Amendment  ☐ Notice Modification	Groundwater Background Evaluation
	Landfill Gas Corrective Action
Non-Notice Modification	Landfill Gas Monitoring
☐ Transfer/Name Change Modification	Liner Evaluation Report
☐ Temporary Authorization	☐ Soil Boring Plan
☐ Voluntary Revocation	Special Waste Request
☐ Subchapter T Disturbance Non-Enclosed Structure	Other:
Other:	
Table 2 - Industrial & Hazard	ous Waste Correspondence
Applications	Reports and Responses
□ New	☐ Annual/Biennial Site Activity Report
Renewal	☐ CPT Plan/Result
Post-Closure Order	☐ Closure Certification/Report
☐ Major Amendment	☐ Construction Certification/Report
☐ Minor Amendment	☐ CPT Plan/Result
☐ CCR Registration	☐ Extension Request
CCR Registration Major Amendment	☐ Groundwater Monitoring Report
CCR Registration Minor Amendment	☐ Interim Status Change
Class 3 Modification	☐ Interim Status Closure Plan
Class 2 Modification	☐ Soil Core Monitoring Report
Class 1 ED Modification	☐ Treatability Study
Class 1 Modification	☐ Trial Burn Plan/Result
Endorsement	☐ Unsaturated Zone Monitoring Report
☐ Temporary Authorization	☐ Waste Minimization Report
☐ Voluntary Revocation	Other: RECEIVED
335.6 Notification	
Other Action Id	SEP 2 0 2024

WASTE PERMITS DIVISION TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Page 1 of 1



#### Sustainability in Action

September 18, 2024

Ms. Lindsay Ross
MC 124
Municipal Solid Waste Permits Section
Texas Commission on Environmental Quality
P. O. Box 13087
Austin, Texas 78711-3087

Re: Permit Modification
2024 GCCS Expansion
Polk County Landfill – Permit No. MSW-1384A
Polk County, Texas
CN 602807695/RN 102668654

RECEIVED

SEP 20 2024

WASTE PERMITS DIVISION TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Dear Ms. Ross:

The purpose of this permit modification prepared by Weaver Consultants Group, LLC (WCG) is to modify the site's existing Attachment 14 – Landfill Gas Management Plan (LGMP) to incorporate the recently installed 2024 landfill gas collection and control system (GCCS) expansion into the existing LGMP for the Polk County Landfill. This permit modification is being submitted as a public notice permit modification in accordance with Title 30 of the Texas Administrative Code (30 TAC), §305.70(k)(3) as requested by the Texas Commission on Environmental Quality (TCEQ) in a letter dated July 30, 2024.

Additional/replacement pages for the site's Attachment 14 – LGMP are included in Attachment 1. The following summarizes the changes made to the site's existing LGMP.

- A second cover page has been added to be placed behind the Attachment 14 LGMP original cover page. The purpose of this page is to provide a continuous record of modifications to LGMP and to clearly identify the responsible engineer for each.
- Page ii of the Table of Contents has been revised to indicate the addition of Appendix C.
- Appendix C has been added to the LGMP to describe the site's recent remediation measures. In addition, Appendix C-1: Remediation Measures Drawing has been added to include the as-built drawing of the installed remediation measures.

Ms. Lindsay Ross September 18, 2024 Page 2

#### **System Description**

The primary purpose of the 2024 GCCS expansion is to collect landfill gas (LFG) from the landfill for environmental control and to minimize the potential for offsite migration.

The GCCS expansion included the installation of nine LFG extraction wells (7 new and 2 re-drills), conversion of three passive vents to active vents, LFG collection piping, LFG collection piping, associated new LFG system components, and abandonments of existing well and lateral piping as shown on Drawing 14C-1. In addition, to assist in extracting LFG from the landfill as well as to help prevent potential odors at the site, a toe drain was installed as shown on Drawing 14C-1.

Each vertical extraction well, converted active vent, and toe drain connection were fitted with a wellhead valve assembly. The wellhead is equipped with an adjustment valve to regulate the applied vacuum and flow of LFG. The wellhead is also equipped with monitoring ports to enable the system operator to measure gas composition, pressure, flow rate, and temperature. The wellheads were connected to lateral piping, which conveys the flow of LFG into the lateral/header pipe and then to the existing blower/flare facility for combustion. In addition, LFG isolation valve was also installed along the new piping to provide the ability to isolate portions of the system.

#### **Permit Modification Justification**

The site understands the importance of maintaining effective environmental controls at the landfill. Please process this permit modification request per 30 TAC §305.70(k)(3). It is our understanding that public notice will be required for this permit modification. Please note that an adjacent property owner's map, along with a list of the property owners' names and addresses, are included in Attachment 3. An applicant certification consistent with 30 TAC §305.44 and §305.70(f) is included on Page 5 of the TCEQ-20650 Form in Attachment 4 of this submittal. In accordance with Title 30 TAC §330.59(h)(1), a \$150 application fee has been submitted to TCEQ as documented on Page 1 of the TCEQ-20650 Form.

One original and one copy of this permit modification are provided for your use and distribution. To facilitate your review, we have included copies of the LGMP revisions in both clean and redline/strikeout formats. In addition, one copy of this submittal has been provided to the TCEQ Region 10 office. A copy of this submittal was also placed in the site operating record.

Ms. Lindsay Ross September 18, 2024 Page 2

If you have any questions or comments regarding this submittal, please do not hesitate to contact us.

Sincerely,

**Polk County Landfill** 

Tyler Tandy

**Environmental Manager** 

Attachments: Attachment 1 – Attachment 14 Revision Pages (Redline/Strikeout Format)

Attachment 2 – Attachment 14 Revision Pages (Clean Format)

Attachment 3 – Property Owners List and Map

Attachment 4 - TCEQ-20650 Form

cc: TCEQ Region 10 Office

Judge Sydney Murphy, Polk County Judge

Scott Trebus, Republic Services

Colin McInnes, P.E., Weaver Consultants Group

#### **ATTACHMENT 1**

ATTACHMENT 14 REVISION PAGES (REDLINE/STRIKEOUT FORMAT)

#### (CONTINUED)

#### **ATTACHMENT 14**

#### LANDFILL GAS MANAGEMENT PLAN

FOR

POLK COUNTY LANDFILL POLK COUNTY, TEXAS MSW PERMIT NO. 1384A

#### PERMIT MODIFICATIONS

Revision 3: September 2024

Prepared by:
Colin McInnes, P.E.
Weaver Consultants Group, LLC
TBPE Registration No. F-3727
6420 Southwest Boulevard, Suite 206
Fort Worth, Texas 76 109
817-735-9770



#### Attachment 14 – Landfill Gas Management Plan Polk County Regional Waste Management Facility, Permit No. MSW-1384A

#### **ATTACHMENT 14**

# LANDFILL GAS MANAGEMENT PLAN POLK COUNTY REGIONAL WASTE MANAGEMENT FACILITY POLK COUNTY, TEXAS PERMIT 1384A

#### **TABLE OF CONTENTS (continued)**

#### **TABLES**

Table ATT14-1	Minimum Water Levels
T 11 ATT140	0 14 1 0 1 0 0

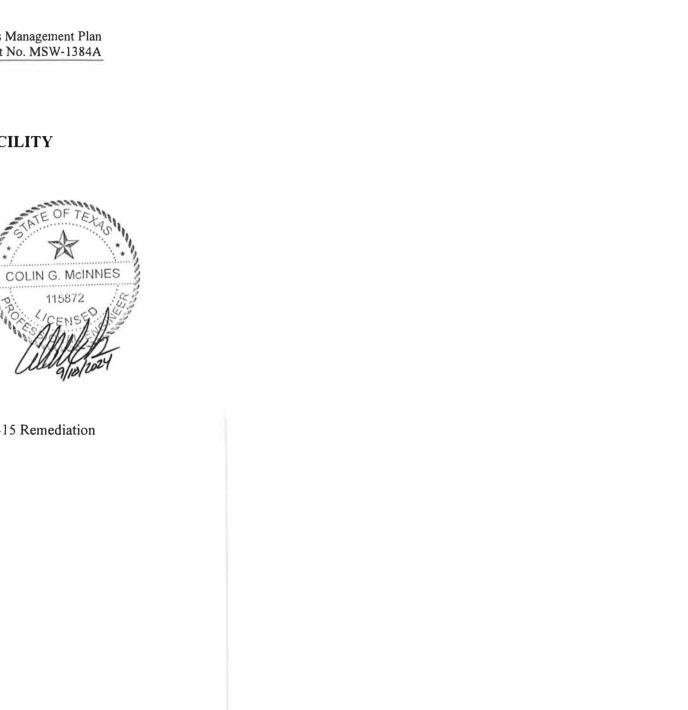
Table ATT14-2 Gas Monitor Probe Data Summary

#### **FIGURES**

Figure ATT14-1	General Location Map	Mallolio
Figure ATT14-2	Existing and Proposed Gas Monitoring System	9/10/0
Figure ATT14-3	Typical Gas Monitoring Probe Detail	
Figure ATT14-4	Proposed Methane Remediation Plan for GMP-15	
Figure ATT14-5	Plate IV Schematic of Methane Extraction System for GMP	-15 Remediation
Figure ATT14-6	GMP-3 Landfill Gas Remediation Plan	

#### **APPENDICES**

Appendix A	Gas Monitoring Data Form
Appendix B	Previous Plans and Report
Appendix C	Remediation Measures



## APPENDIX C REMEDIATION MEASURES

#### **Remediation Measures**

**2024 Remediation Measures:** The 2024 remediation measures included expanding the site's existing landfill gas (LFG) collection and control system (GCCS) to minimize the potential for offsite migration. The 2024 GCCS expansion included installation of nine LFG extraction wells (7 new and 2 re-drills), conversion of three passive vents to active vents, gas collection piping, toe drain horizontal, associated new LFG system components, and abandonments of existing wells/piping as shown in attached Drawing 14C-1.

### APPENDIX C-1 REMEDIATION MEASURES DRAWING

TBPE REGISTRATION NO. F-3727

DRAWING 14C-1

WWW.WCGRP.COM

# ATTACHMENT 2 ATTACHMENT 14 REVISION PAGES (CLEAN FORMAT)

#### (CONTINUED)

#### **ATTACHMENT 14**

#### LANDFILL GAS MANAGEMENT PLAN

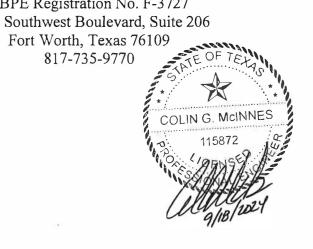
**FOR** 

POLK COUNTY LANDFILL **POLK COUNTY, TEXAS** MSW PERMIT NO. 1384A

#### **PERMIT MODIFICATIONS**

Revision 3: September 2024

Prepared by: Colin McInnes, P.E.
Weaver Consultants Group, LLC
TBPE Registration No. F-3727 6420 Southwest Boulevard, Suite 206



#### **ATTACHMENT 14**

#### LANDFILL GAS MANAGEMENT PLAN POLK COUNTY REGIONAL WASTE MANAGEMENT FACILITY POLK COUNTY, TEXAS PERMIT 1384A

TABLE OF CONTENTS (continued)

#### **TABLES**

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#### FIGURES

<u> </u>		CENSE IN
Figure ATT14-1	General Location Map	A MARINE
Figure ATT14-2	Existing and Proposed Gas Monitoring System	Miller
Figure ATT14-3	Typical Gas Monitoring Probe Detail	aliale
Figure ATT14-4	Proposed Methane Remediation Plan for GMP-1	5
Figure ATT14-5	Plate IV Schematic of Methane Extraction System	m for GMP-15 Remediation
Figure ATT14-6	GMP-3 Landfill Gas Remediation Plan	

#### **APPENDICES**

Appendix A	Gas Monitoring Data Form
Appendix B	Previous Plans and Report
Appendix C	Remediation Measures

July 2002 December 2002 (Revision 1) February 2003 (Revision 2) November 2015 (Revision 3)

115872

September 2024 (Revision 4)

Q: ALLIED POLK COUNTY 2024 GCCS PERMIT MODATT 14 -CLEAN.DOC

ii



## APPENDIX C REMEDIATION MEASURES

#### **Remediation Measures**

**2024 Remediation Measures:** The 2024 remediation measures included expanding the site's existing landfill gas (LFG) collection and control system (GCCS) to minimize the potential for offsite migration. The 2024 GCCS expansion included installation of nine LFG extraction wells (7 new and 2 re-drills), conversion of three passive vents to active vents, gas collection piping, toe drain horizontal, associated new LFG system components, and abandonments of existing wells/piping as shown in attached Drawing 14C-1.

September 2024 Attachment 14

### APPENDIX C-1 REMEDIATION MEASURES DRAWING

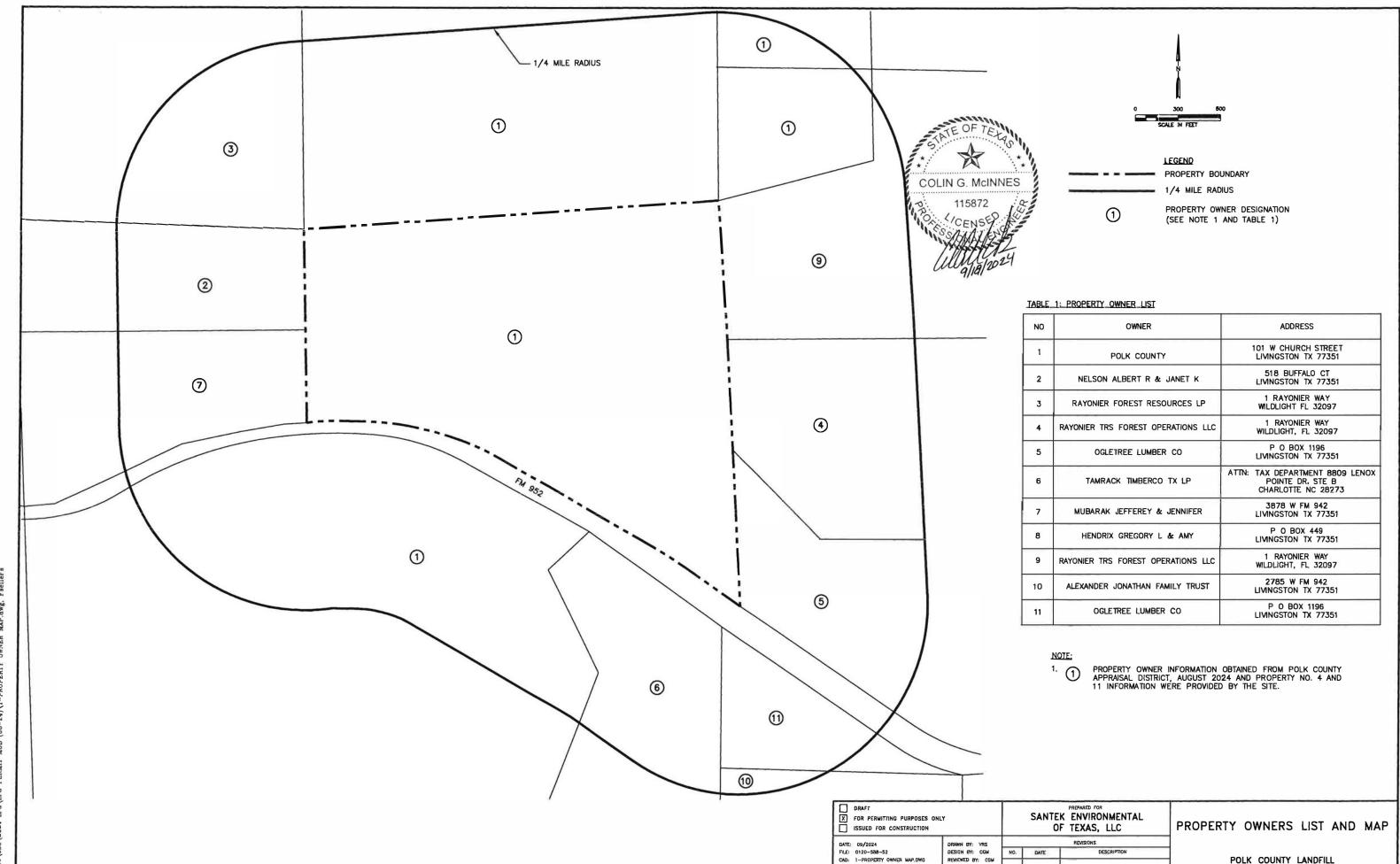
TBPE REGISTRATION NO. F-3727

WWW.WCGRP.COM

DRAWING 14C-1

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## ATTACHMENT 3 PROPERTY OWNERS LIST AND MAP



Weaver Consultants Ground

POLK COUNTY, TEXAS

20\588\2024 LFG\LFG PERMIT MOD (08-24)\1-PROPERTY OWNED MAP 4--



# Texas Commission on Environmental Quality Application Form for Municipal Solid Waste Permit or Registration Modification or Temporary Authorization

#### **Application Tracking Information**

Facility Name: Polk County La	ndfill		
Permittee or Registrant Name: Santek Environmental of Texas, LLC			
MSW Authorization Number: 1384A			
Initial Submission Date: 9/20	24		
Revision Date:	<del></del>		
questions, contact the Munici	his form are provided in <u>form TCEQ-20650-instr</u> <sup>1</sup> . If you have ipal Solid Waste Permits Section by email to 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			
■ Modification with Public No	otice  Modification without Public Notice		
☐ Temporary Authorization (	(TA)  Modification for Name Change or Transfer		
4. Application Fee			
Amount			
The application fee for a mod	lification or temporary authorization is \$150.		
Payment Method			
☐ Check			
■ Online through ePay porta	www3.tceq.texas.gov/epay/		
	<u> </u>		

TCEQ-20650 (rev. 05-06-24) Page 1 of 8 Application Form for MSW Permit or Registration Modification or Temporary Authorization



<sup>1</sup> www.tceq.texas.gov/downloads/permitting/waste-permits/msw/forms/20650-instr.pdf

5. Electronic versions of Application
For modifications that require notice (other than those for arid exempt landfills), TCEQ will publish electronic versions of the application online. Applicants must provide a clean copy of the administratively complete application and technically complete application. TCEQ will also publish electronic versions of NOD responses online.
6. Party Responsible for Mailing Notice
For modifications that require notice, indicate who will be responsible for mailing notice:
☐ Applicant ☐ Agent in Service ☐ Consultant
Contact Name: Colin McInnes
Title: Senior Project Director
Email Address:
Zman riadi ess y
7. 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."
8. Facility General Information
Facility Name: Polk County Landfill
Contact Name: Tyler Tandy Title: Environmental Manager
MSW Authorization Number (if existing): 1384A
Regulated Entity Reference Number: RN 102668654
Physical or Street Address: 3477 FM 942
City: Livingston County: Polk State: TX Zip Code: 77351
Phone Number: (713) 676-7644
Latitude (Degrees, Minutes, Seconds): N 30°49' 54.96"
Longitude (Degrees, Minutes, Seconds): W 94° 55 25.64 ' '
9. Facility Types
■ Type I

TCEQ-20650 (rev. 05-06-24) Page 2 of 8 Application Form for MSW Permit or Registration Modification or Temporary Authorization

#### 10. Description of the Revisions to the Facility

Provide a brief description of revisions to permit or registration conditions and supporting documents referred to by the permit or registration, and a reference to the specific provisions under which the modification or temporary authorization application is being made. Also, provide an explanation of why the modification or temporary authorization is needed:

The purpose of this permit modification is to modify the site's existing Attachment 14 - Landfill Gas Management Plan (LGMP) to incorporate 2024 GCCS expansion into the site permit.

11. Facility Contact	Information				
Site Operator (Permit	tee or Registrant)				
Name: Santek Environmen	ntal of Texas, LLC		_		
Customer Reference Nur	mber: <b>CN</b> <u>602807695</u>				
Contact Name: Tyler Tan	dy	Title: Er	Title: Environmental Manager		
Mailing Address: 5757 A		10755			
City: Houston	County: Harris		State: TX	Zip Code: <u>77078</u>	
Phone Number: (713) 67					
Email Address:					
Texas Secretary of State	e (SOS) Filing Number: _				
Operator (if different	from <i>Site Operator</i> )				
Name:			_		
Customer Reference Nur	mber: <b>CN</b>				
Contact Name:		Title:			
Mailing Address:					
City:	County:		State:	Zip Code:	
Phone Number:					
Email Address:					
Texas Secretary of State	(SOS) Filing Number:				

TCEQ-20650 (rev. 10-06-22) Page 3 of 8 Application Form for MSW Permit or Registration Modification or Temporary Authorization

Consultant (if applicable)
Firm Name: Weaver Consultants Group, LLC
Consultant Name: Colin McInnes, P.E.
Texas Board of Professional Engineers Firm Registration Number: F-3727
Contact Name: Colin McInnes, P.E. Title: Senior Project Director
Mailing Address: 6420 Southwest Boulevard, Suite 206
City: Fort Worth County: Tarrant State: TX Zip Code: 76109
Phone Number: 817-735-9770
Email Address:
Agent in Service (required for out-of-state applicants)
Name:
Mailing Address:
City:         County:         State: TX         Zip Code:
Phone Number:
Email Address:
12. Ownership Status of the Facility
Is this a modification that changes the legal description, the property owner, or the Site Operator (Permittee or Registrant)?
☐ Yes ■ No
If the answer is "No", skip this section.
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:
Phone Number:
Email Address:

TCEQ-20650 (rev. 05-06-24) Page 4 of 8 Application Form for MSW Permit or Registration Modification or Temporary Authorization

#### 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: Tyler Tandy	Title: Environmental Manager
Signature:	Date: 9/18/24
Operator or Principal Executive Officer Design	gnation of Authorized Signatory
To be completed by the operator if the applicatio for the operator.	n is signed by an authorized representative
I hereby designate and hereby authorize said representative to sign information as may be requested by the Commis or before the Texas Commission on Environment for a Texas Water Code or Texas Solid Waste Dis I am responsible for the contents of this application authorized representative in support of the applicant conditions of any permit which might be issued to provide the contents of the support of the applicant conditions of any permit which might be issued to provide the contents of the support of the applicant conditions of any permit which might be issued to provide the contents of the contents of the contents of the applicant conditions of any permit which might be issued to provide the contents of the conten	any application, submit additional sion; and/or appear for me at any hearing al Quality in conjunction with this request sposal Act permit. I further understand that ion, for oral statements given by my cation, and for compliance with the terms ared based upon this application.
Email Address:	
Signature:	Date:
Notary	
SUBSCRIBED AND SWORN to before me by the s	aid Tyler Tandy
On this 18 day of Sept , 2021	
My commission expires on the 3 day of Mo	M, 2026
Notary Public in and for  County, Texas	P RENEE WEINFUSS Notary ID #12261483 My Commission Expires March 3, 2025

TCEQ-20650 (rev. 10-06-22)

Application Form for MSW Permit or Registration Modification or Temporary Authorization

Note: Application Must Bear Signature and Seal of Notary Public

### Attachments for Permit or Registration Modification with Public Notice

Refer to instruction document **200650-instr** for professional engineer seal requirements.

#### Attachments Table 1. Required attachments.

Required Attachments	Attachment Number		
Land Ownership Map	3		
Landowners List	3		
Marked (Redline/Strikeout) Pages	1		
Unmarked Revised Pages	2		

#### Attachments Table 2. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
☐ TCEQ Core Data Form(s)	
☐ Signatory Authority Delegation	
☐ Fee Payment Receipt	
Confidential Documents	

TCEQ-20650 (rev. 05-06-24) Page 6 of 8
Application Form for MSW Permit or Registration Modification or Temporary Authorization

### Attachments for Permit or Registration Modification without Public Notice, or Temporary Authorization

Refer to instruction document 200650-instr for professional engineer seal requirements.

#### Attachments Table 3. Required attachments for modifications.

Required Attachments for Modification	Attachment Number
Marked (Redline/Strikeout) Pages	
Unmarked Revised Pages	

### Attachments Table 4. Additional attachments for modifications and temporary authorizations, as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number		
☐ TCEQ Core Data Form(s)			
☐ Signatory Authority Delegation			
☐ Fee Payment Receipt			
☐ Confidential Documents			

TCEQ-20650 (rev. 05-06-24) Page 7 of 8
Application Form for MSW Permit or Registration Modification or Temporary Authorization

### **Attachments for Permit or Registration Name Change or Transfer Modification**

Refer to instruction document **200650-instr** for professional engineer seal requirements.

#### Attachments Table 5. Required attachments.

Required Attachments	Attachment Number
TCEQ Core Data Form(s)	
Property Legal Description	
Property Metes and Bounds Description	
Metes and Bounds Drawings	
On-Site Easements Drawing	
Land Ownership Map	
Land Ownership List	
Property Owner Affidavit	
Verification of Legal Status	
Evidence of Competency	

#### Attachments Table 6. Additional attachments as applicable.

Additional Attachments as Applicable (select all that apply and add others as needed)	Attachment Number
☐ Signatory Authority Delegation	
☐ Fee Payment Receipt	
☐ Confidential Documents	
☐ Final Plat Record of Property	
Assumed Name Certificate	

TCEQ-20650 (rev. 05-06-24) Page 8 of 8 Application Form for MSW Permit or Registration Modification or Temporary Authorization

