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August 26, 2011  
Project No. 0620-01-14-08-04

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

Re: Revised LFG Remediation Plan/Permit Modification  
City of Fredericksburg Closed Landfill - TCEQ Permit No. MSW-40  
Gillespie County, Texas

Dear Mr. Yadav:

On behalf of the City of Fredericksburg (City), Weaver Boos Consultants, LLC--Southwest (WBC) is submitting this Landfill Gas (LFG) Remediation Plan/Permit Modification with notice to the Texas Commission on Environmental Quality (TCEQ). This permit modification replaces (in its entirety) the previously submitted June 18, 2007 LFG Remediation Plan describing passive vent/wind turbine installations to remediate LFG exceedances at the closed City of Fredericksburg Landfill. Due to LFG exceedances in temporary gas monitoring points TMP-8 and TMP-10, and LFG impacts to groundwater quality in monitor wells MW-3 and MW-22, the City installed four LFG cutoff trench/passive vents in February and April, 2011 to mitigate LFG migration at the site. This latest LFG Remediation Plan/Permit Modification presents locations and specifications for the installed cutoff trench/passive vent units. Also included are the closed site LFG monitoring reports, a methane measurement summary table, and an accompanying time series methane concentration summary graph which demonstrate the effectiveness of this remedy.

## Background

The City of Fredericksburg Landfill consists of two adjacent and permitted Type I municipal solid waste (MSW) disposal areas. An active landfill operating under TCEQ Permit No. MSW-1995 and an older, closed, pre-Subtitle D area permitted under TCEQ Permit No. MSW-40. In November 2004, the City submitted a Remediation Plan for the installation of three passive LFG cut-off trenches for the remediation of methane migration from both the active and closed landfills. In a December 28, 2004 Notice of Deficiency letter, the TCEQ indicated separate permit modifications would be required for

Mr. Chandra Yadav  
August 26, 2011  
Page 2

each landfill and there was a need to further investigate the extent of methane migration along the boundary of the closed landfill. Following the installation of two remedial trenches adjacent to the closed landfill, the City submitted an assessment report in August 2005 that presented the findings from a bar hole migration assessment conducted by WBC along the closed landfill permit boundary. The TCEQ's October 2005 response to the bar hole survey report requested the City perform a deep LFG migration assessment along the permit boundary of the closed landfill.

In March 2006, ten temporary monitoring points (TMPs) were installed approximately 500 feet apart along the southern, eastern, and northern permit boundary of the closed landfill. The 10 perimeter TMPs were installed to a depth of 15 feet (the deepest reported depth of waste in the closed landfill). As requested by the TCEQ and to provide baseline monitoring data, additional interior temporary monitoring points TMP-11 through TMP-15 were installed in waste within the interior of the landfill. During each closed site routine LFG monitoring event since 2006, all 15 temporary monitoring points were checked quarterly for gas composition and static pressure using a portable Landtec GEM infrared LFG analyzer that was field calibrated to known gas standards.

In a November 2006 effort to remediate pockets of LFG accumulation, the City converted six temporary monitoring points to dual-use, passive, turbine ventilator-equipped vent/monitoring points. The November 2006 construction included all five interior points screened in waste (TMP-11, TMP-12, TMP-13, TMP-14 and TMP-15) and perimeter monitoring point TMP-8. Due to elevated May 2007 methane readings, two additional perimeter temporary monitoring points (TMP-6 and TMP-7) were equipped with turbine ventilators in early June 2007. To facilitate LFG monitoring in the passive vents, each turbine ventilator-equipped monitoring point has a PVC end cap to temporarily replace the turbine at least 48 hours prior to the scheduled LFG measurements.

Monthly monitoring of temporary monitoring points TMP-6, TMP-7, TMP-8, TMP-9 and TMP-10 began in December 2006. In November 2008, the City submitted a LFG Remediation Plan Progress Report documenting the monthly LFG monitoring results and requesting that all TMPs be monitored on a quarterly basis. In a January 15, 2009 letter, the TCEQ recommended that LFG monitoring for all TMPs be performed quarterly, and in the event of exceedance, the affected probe be monitored on a monthly basis until the methane concentrations return to compliant status for three consecutive monthly monitoring events before returning to a quarterly LFG monitoring frequency.

Due to repeated methane exceedance in TMP-8, TMP-9 and TMP-10, the TCEQ requested additional remedial measures to control methane. In a September 20, 2010 letter, the TCEQ requested that in the event of methane exceedance, six consecutive monthly methane reading below the compliance threshold be achieved in order to return a

perimeter TMP to quarterly monitoring status. Currently, all TMPs are in quarterly monitoring status except TMP-8.

## **Permit Modification Purpose**

The purpose of this latest TCEQ Permit MSW-40 Revised Remediation Plan/Permit Modification is to report the installation of four LFG cutoff trenches equipped with passive vents and wind turbines adjacent to perimeter temporary monitoring points TMP-8 and TMP-10, and adjacent to groundwater monitor wells MW-3 and MW-22 – all due to recent methane exceedances or LFG-sourced VOC impacts to groundwater. Although the wind turbine installations on top of temporary monitoring points have generally reduced methane measurements, the installation of LFG cutoff trenches and associate wind turbine passive vents near TMP-8 and TMP-10 was necessary to achieve methane concentration compliance. The trenches installed in 2011 are consistent in construction details with those of the older three effective cutoff trenches. The locations and details for the constructed cutoff installations are presented in the figures included in Attachment 2.

## **2011 Cutoff Trench Installations**

To mitigate LFG migrations and groundwater VOC impacts, the City has installed four cutoff trenches. The locations of the four trenches are shown on Figure 1 in Attachment 2. Two of the cutoff trenches are installed between temporary LFG points TMP-8 and TMP-10 and the adjacent limits of waste in the closed landfill. Routine and monthly methane measurements from these probes have indicated methane compliance limit exceedance during the last two years. Two additional cutoff trenches were installed adjacent to groundwater monitor wells MW-3 and MW-22 at locations between the wells and adjacent limits of waste. The trench and vent system details are shown on Figure 3 in Attachment 2.

The trenches were excavated to a depth of 12 to 15 feet below grade, are 3 feet wide and 60 to 100 feet in length. The probe side of the cutoff trench was lined with 80-mil HDPE liner materials prior to backfilling the trench with coarse, rounded river gravels. The gravel fill extended to within about 4 feet below surface grade. The HDPE side wall liner was folded over to cover the top of gravel backfill and silty clay soil was used to fill the residual trench to surface grade. A wind turbine ventilator is secured to the top of the trench's three 6-inch inside diameter, PVC riser vents. The vent pipes rise to 8-13 feet above grade and have field fabricated well screens as shown on Figure 2 in Attachment 2.

## **LFG Monitoring Results**

LFG monitoring has been performed at the closed facility by WBC personnel since 2006. A summary table listing historical methane concentrations from the past two years of quarterly and monthly LFG monitoring and an accompanying time series methane concentration summary graph are presented in Attachment 1. In summary, perimeter temporary monitoring points TMP-1 through TMP-5 (adjacent to older waste in the northern half of the landfill) have yielded no detectable methane during any LFG monitoring events. Currently, all perimeter TMPs are in quarterly monitoring status. Perimeter TMP-8 was being monitored monthly due to repeated methane concentration exceedances recorded prior to the 2011 cutoff trench unit installations. No methane has been detected in TMP-8 since the cutoff trench and vent unit was installed near TMP-8 in late February 2011. The August 2011 monthly methane measurement at TMP-8 was the sixth monthly compliant methane measurement in this probe. In accordance with TCEQ request and this Remediation Plan, TMP-8 will now return to quarterly methane monitoring frequency in conjunction with the other TMPs.

## **Proposed Remedial Activities and Schedule**

Due to the effectiveness of the remediation activities, the City proposes the following:

- Continue turbine passive venting LFG extraction remediation.
- Due to the effectiveness of the LFG remediation, keep the facility's perimeter temporary monitoring points in quarterly LFG monitoring with quarterly reports to the TCEQ in conjunction with the City's active landfill quarterly LFG compliance monitoring.
- In the event of a methane exceedance in a closed facility perimeter temporary monitoring point, the affected probe will be monitored on a monthly basis until the methane concentrations return to compliant status for six consecutive monthly monitoring events. At that time, the probe will return to a quarterly LFG monitoring schedule following TCEQ notification.
- To move the site toward completion of post closure care activities, LFG monitoring will cease at the closed facility after two years of compliant methane gas readings in the temporary perimeter monitoring points and following TCEQ approval.
- The City will maintain the closed facility passive vent turbines until the TCEQ approves their removal.

Mr. Chandra Yadav

August 26, 2011

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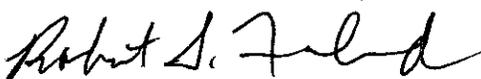
## Permit Modification Justification

The City of Fredericksburg understands the importance of maintaining effective environmental controls at its landfills. The purpose of the installed remediation systems is to abate apparent localized accumulations of LFG and prevent LFG movement past the permit boundary. As such, please process this permit modification request per 30 TAC §305.70(k)(3). It is our understanding that public notice for this modification is required. Please note that a surrounding landowner's map, along with the list of property owner's names and addresses, is included in Attachment 5. In addition, an applicant certification consistent with 30 TAC §305.70(e) and §305.44 has been prepared and is included as the last page of TCEQ Form 0650 in Attachment 4. As indicated on the form, the TCEQ-required \$150.00 permit modification fee has been paid via ePay.

One original and one copy of this permit modification are provided for your use and distribution. In addition, one copy has been provided to the appropriate regional office and a copy of this submittal was placed in the site operating record. If you have any questions or comments regarding this submittal, please do not hesitate to contact us.

Sincerely,

**Weaver Boos Consultants, LLC--Southwest**



Robert S. Ferbend, P.G.  
Senior Hydrogeologist



Matt Stutz, P.E.  
Senior Engineer

- Attachments: Attachment 1: Table 1 – Methane Measurement Summary  
Methane Concentration Summary Graph  
Attachment 2: Figure 1 – LFG Cutoff Trench and Passive Vent Location Map  
Figure 2 – Probe and Vent System Details  
Figure 3 – Trench and Vent System Details  
Attachment 3: Landfill Gas Monitoring Reports  
Attachment 4: TCEQ Form 0650  
Attachment 5: Adjacent Landowner Map and List

cc: TCEQ Region 13 San Antonio Office  
Mike Hartmann, City of Fredericksburg  
Craig Wallendorf, P.E., City of Fredericksburg  
Alan Saenger, City of Fredericksburg

**ATTACHMENT 1**

**TABLE 1 – SUMMARY OF METHANE MEASUREMENTS**

**METHANE CONCENTRATION SUMMARY GRAPH**

**Table 1 - Methane Measurement Summary  
City of Fredericksburg Landfill (TCEQ Permit No. MSW-40)**

Temporary LFG Probe #	Jul-09 <sup>1</sup>	Oct-09 <sup>1</sup>	Nov-09 <sup>2</sup>	Dec-09 <sup>2</sup>	Jan-10 <sup>3</sup>	Feb-10 <sup>2</sup>	Mar-10 <sup>2</sup>	Apr-10 <sup>3</sup>	May-10 <sup>2</sup>	Jun-10 <sup>2</sup>	Jul-10 <sup>4</sup>	Aug-10 <sup>2</sup>
TMP-6	0.0	0.0	NA	NA	1.1	NA	NA	7.4	1.2	1.1	0.0	0.3
TMP-7	0.0	0.0	NA	NA	6.2	10.3	0.0	13.5	2.3	0.2	0.0	0.2
TMP-8	3.7	<b>26.1</b>	<b>9.4</b>	<b>35.0</b>	11.7	<b>41.2</b>	<b>36.9</b>	<b>44.4</b>	<b>13.9</b>	<b>9.7</b>	4.4	3.7
TMP-9	0.0	0.1	NA	NA	<b>20.6</b>	<b>14.5</b>	<b>8.4</b>	<b>16.6</b>	<b>8.2</b>	<b>7.4</b>	0.0	0.1
TMP-10	0.0	<b>26.8</b>	0.9	<b>17.2</b>	0.8	<b>24.5</b>	<b>21.7</b>	<b>42.3</b>	4.8	3.1	2.8	0.5

Notes: Above methane concentrations listed as percent by volume in air.

NA - Not Applicable, monthly LFG probe monitoring not required.

<sup>1</sup> - Indicates routine quarterly LFG monitoring event.

<sup>2</sup> - Indicates remediation plan monthly LFG monitoring event.

<sup>3</sup> - Indicates combined routine quarterly and remediation plan monthly LFG monitoring event.

<sup>4</sup> - July 2010 event measurements delayed until August 3, 2010 due to weather conditions.

<sup>5</sup> - Due to weather conditions, the December 2010 monthly TMP-8 measurement was delayed and taken in conjunction with the first quarterly 2011 LFG monitoring event on January 4, 2011 due to weather conditions.

<sup>6</sup> - January 2011 monthly TMP-8 measurement taken January 29, 2011.

Methane concentrations listed in **bold** type face exceed compliance threshold of 5% methane by volume in air.

**Table 1 - Methane Measurement Summary (continued)**  
**City of Fredericksburg Landfill (TCEQ Permit No. MSW-40)**

Temporary LFG Probe #	Sep-10 <sup>2</sup>	Oct-10 <sup>3</sup>	Nov-10 <sup>2</sup>	Dec-10 <sup>5</sup>	Jan-11 <sup>3</sup>	Feb-11 <sup>2</sup>	Mar-11 <sup>2</sup>	Apr-11 <sup>3</sup>	May-11 <sup>2</sup>	Jun-11 <sup>2</sup>	Jul-11 <sup>3</sup>	Aug-11 <sup>2</sup>
TMP-6	NA	0.0	NA	NA	0.8	NA	NA	0.0	NA	NA	0.0	NA
TMP-7	NA	0.0	NA	NA	0.1	NA	NA	0.0	NA	NA	0.0	NA
TMP-8	4.5	<b>34.4</b>	3.7	2.2	3.3 <sup>6</sup>	<b>8.3</b>	0.0	0.0	0.0	0.0	0.0	0.0
TMP-9	0.1	0.2	NA	NA	0.6	NA	NA	0.0	NA	NA	0.0	NA
TMP-10	NA	0.6	NA	NA	4.4	NA	NA	0.0	NA	NA	0.0	NA

Notes: Above methane concentrations listed as percent by volume in air.

NA - Not Applicable, monthly LFG probe monitoring not required.

<sup>1</sup> - Indicates routine quarterly LFG monitoring event.

<sup>2</sup> - Indicates remediation plan monthly LFG monitoring event.

<sup>3</sup> - Indicates combined routine quarterly and remediation plan monthly LFG monitoring event.

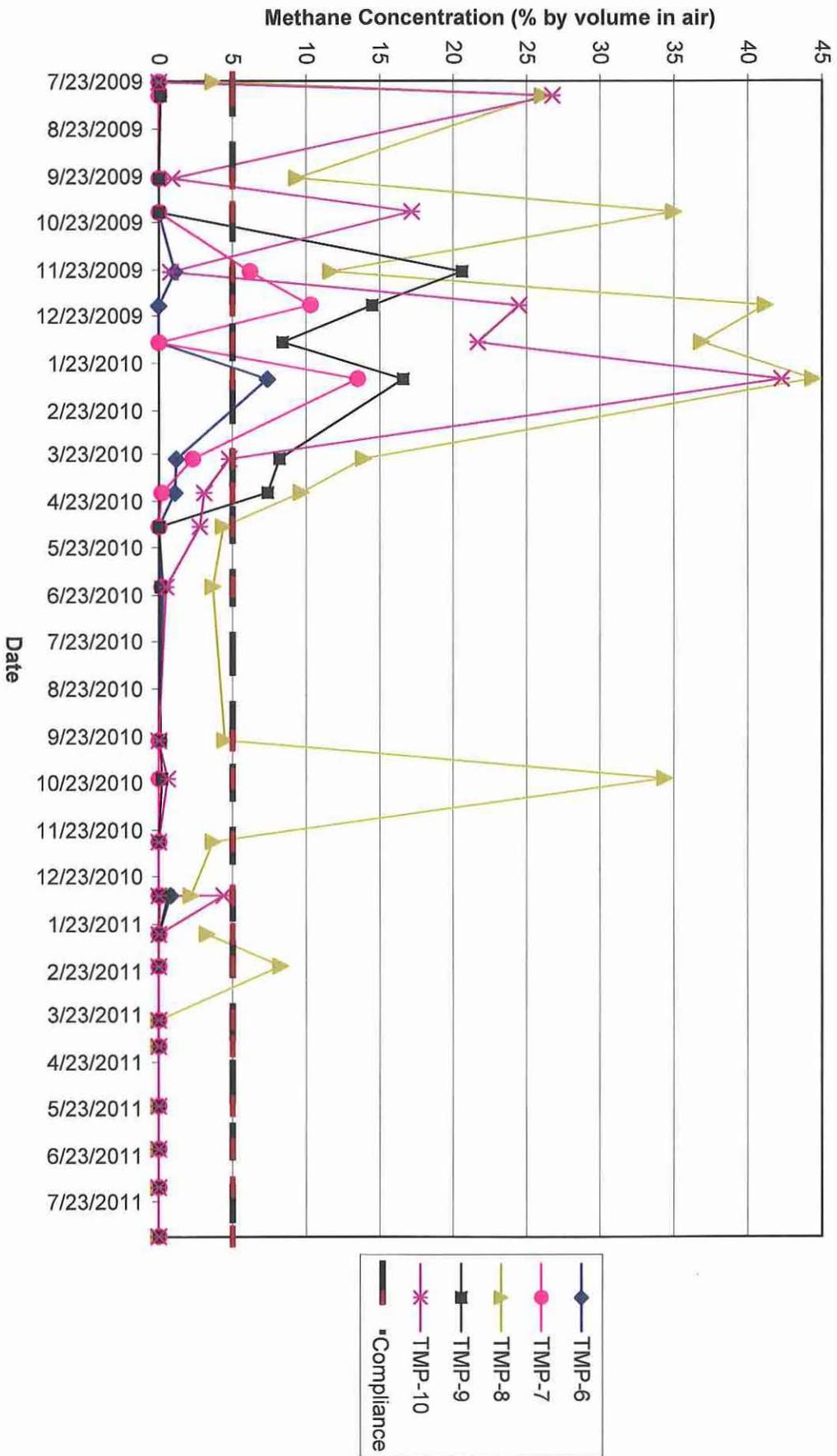
<sup>4</sup> - July 2010 event measurements delayed until August 3, 2010 due to weather conditions.

<sup>5</sup> - Due to weather conditions, the December 2010 monthly TMP-8 measurement was delayed and taken in conjunction with the first quarterly 2011 LFG monitoring event on January 4, 2011 due to weather conditions.

<sup>6</sup> - January 2011 monthly TMP-8 measurement taken January 29, 2011.

Methane concentrations listed in **bold** type face exceed compliance threshold of 5% methane by volume in air.

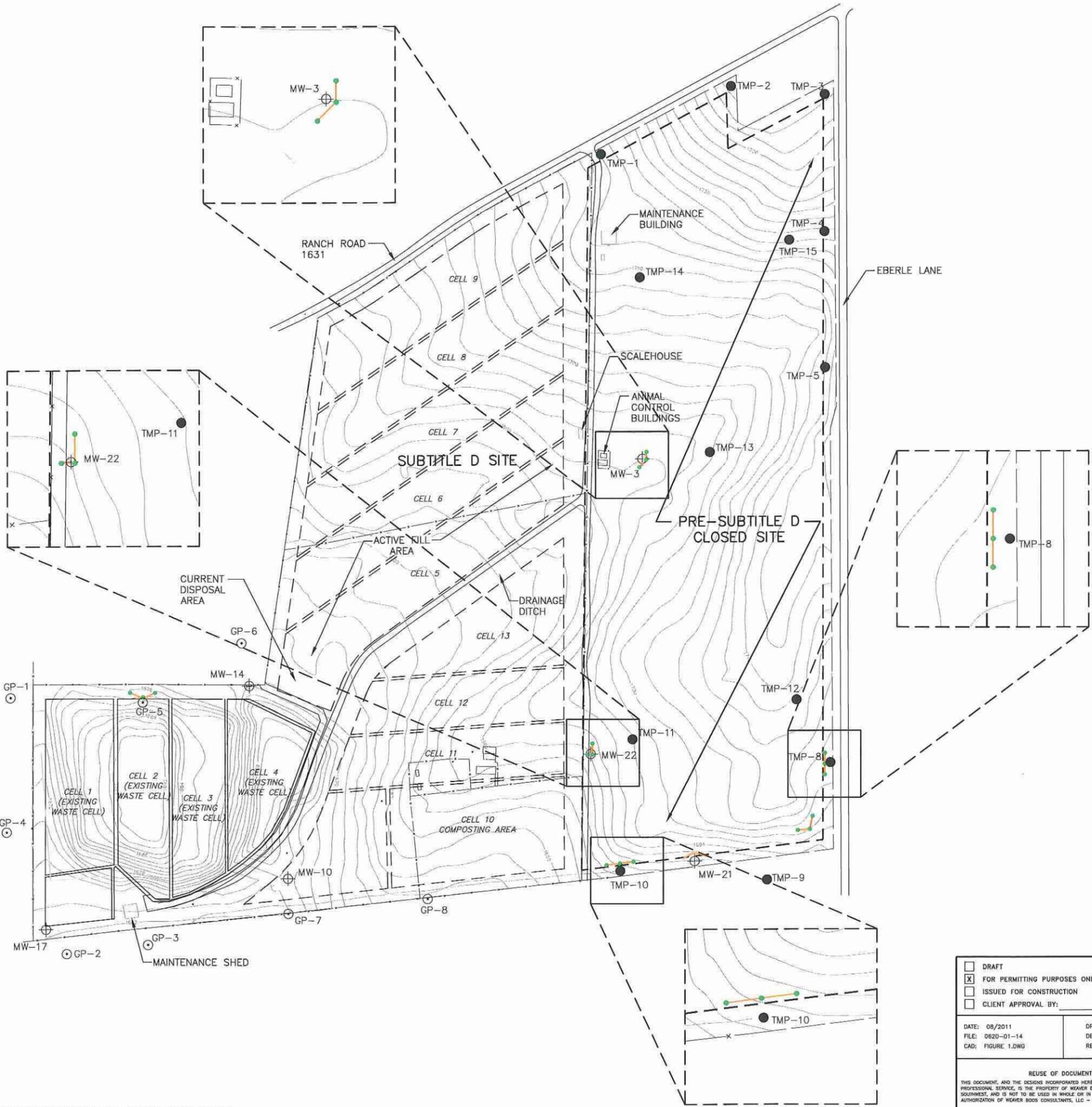
Methane Concentration Summary Graph  
(July 2009 through August 2011)



**ATTACHMENT 2**

**FIGURES**

C:\0620\01\LFG REMEDIATION (2011)\FIG 1-PASSIVE VENT LOC MAP.dwg, 7/28/2011 4:36:28 PM, fsellers

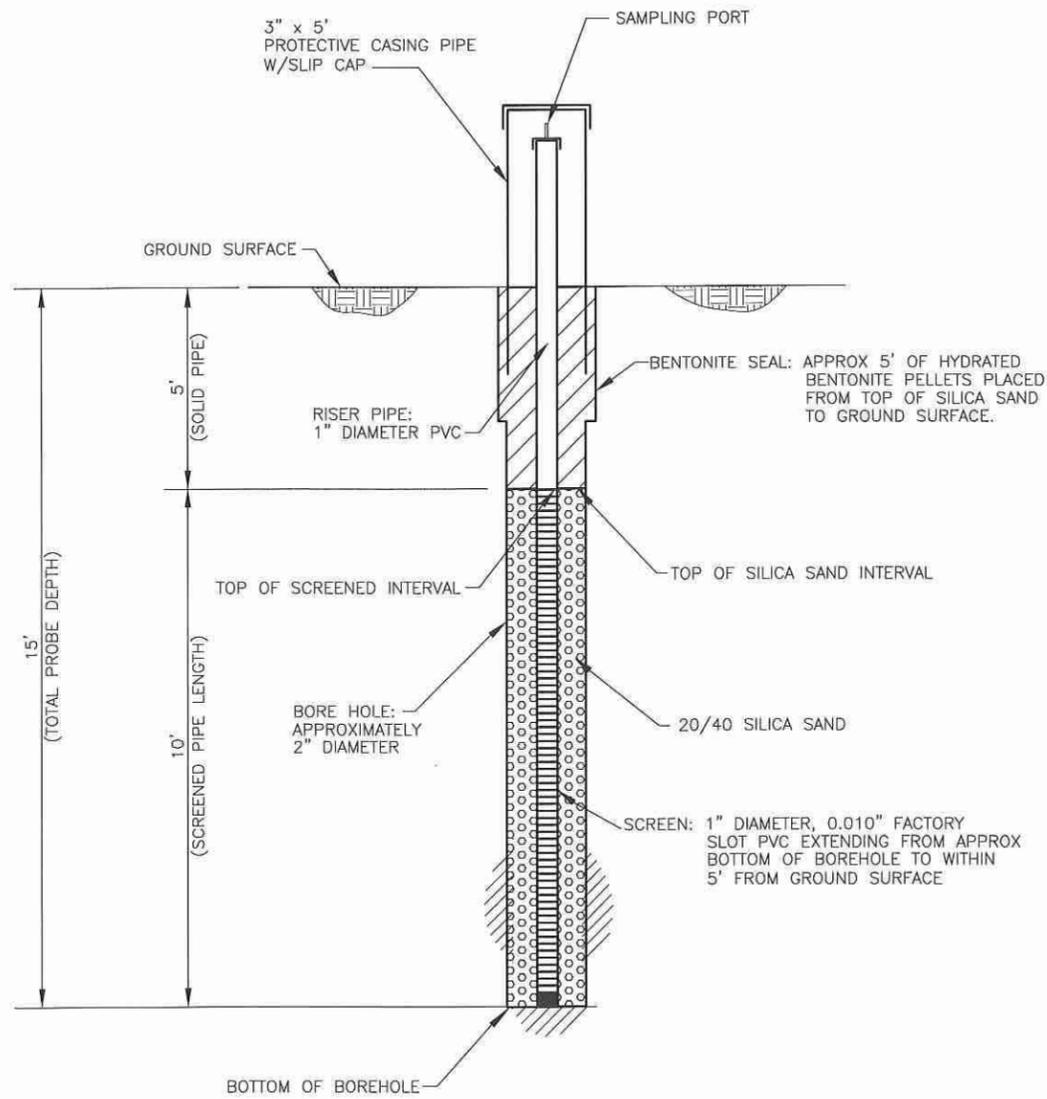


- LEGEND**
- LANDFILL FENCE
  - - - - - APPROXIMATE LIMITS OF CLOSED SITE WASTE
  - ⊕ MW-2 EXISTING SHALLOW ZONE SCREENED MONITORING WELL
  - ⊙ GP-1 SUBTITLE D LANDFILL GAS MONITORING PROBE
  - TMP-5 LANDFILL GAS TEMPORARY MONITORING PROBE
  - EXISTING LFG CUTOFF TRENCH
  - EXISTING PASSIVE VENT

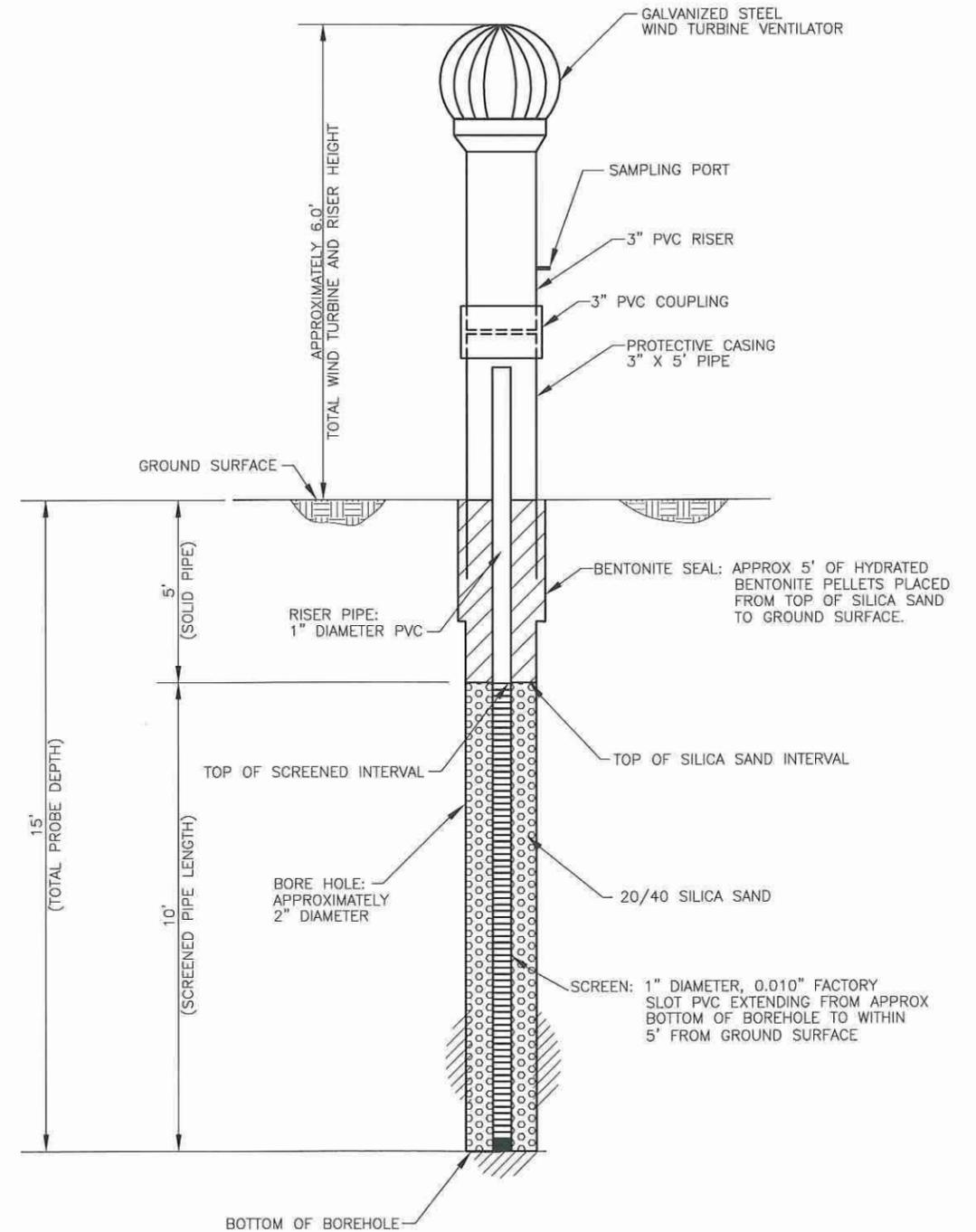
**NOTE:**  
 1. EXISTING TOPOGRAPHY, MONITORING WELL LOCATIONS AND FEATURES PROVIDED BY THE CITY OF FREDERICKSBURG. WELL LOCATIONS AT THE CLOSED SITE ARE APPROXIMATE.

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY: _____	PREPARED FOR <b>CITY OF FREDERICKSBURG</b>		<b>REVISED LFG REMEDIATION PLAN          LFG CUTOFF TRENCH AND          PASSIVE VENT LOCATION MAP</b> CITY OF FREDERICKSBURG LANDFILL GILLESPIE COUNTY, TEXAS <i>Weaver Boos Consultants</i> TBPE REGISTRATION NO. F-3727											
	DATE: 08/2011 FILE: 0620-01-14 CAD: FIGURE 1.DWG	DRAWN BY: VRS DESIGN BY: AKE REVIEWED BY: MKS		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION							
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			<b>FIGURE 1</b>											

O:\0620\01\LFG REMEDIATION (2011)\FIG 3-PROBE AND VENT DETAILS.dwg, 7/28/2011 4:12:34 PM, rsellers



EXISTING TEMPORARY MONITORING POINT DETAIL

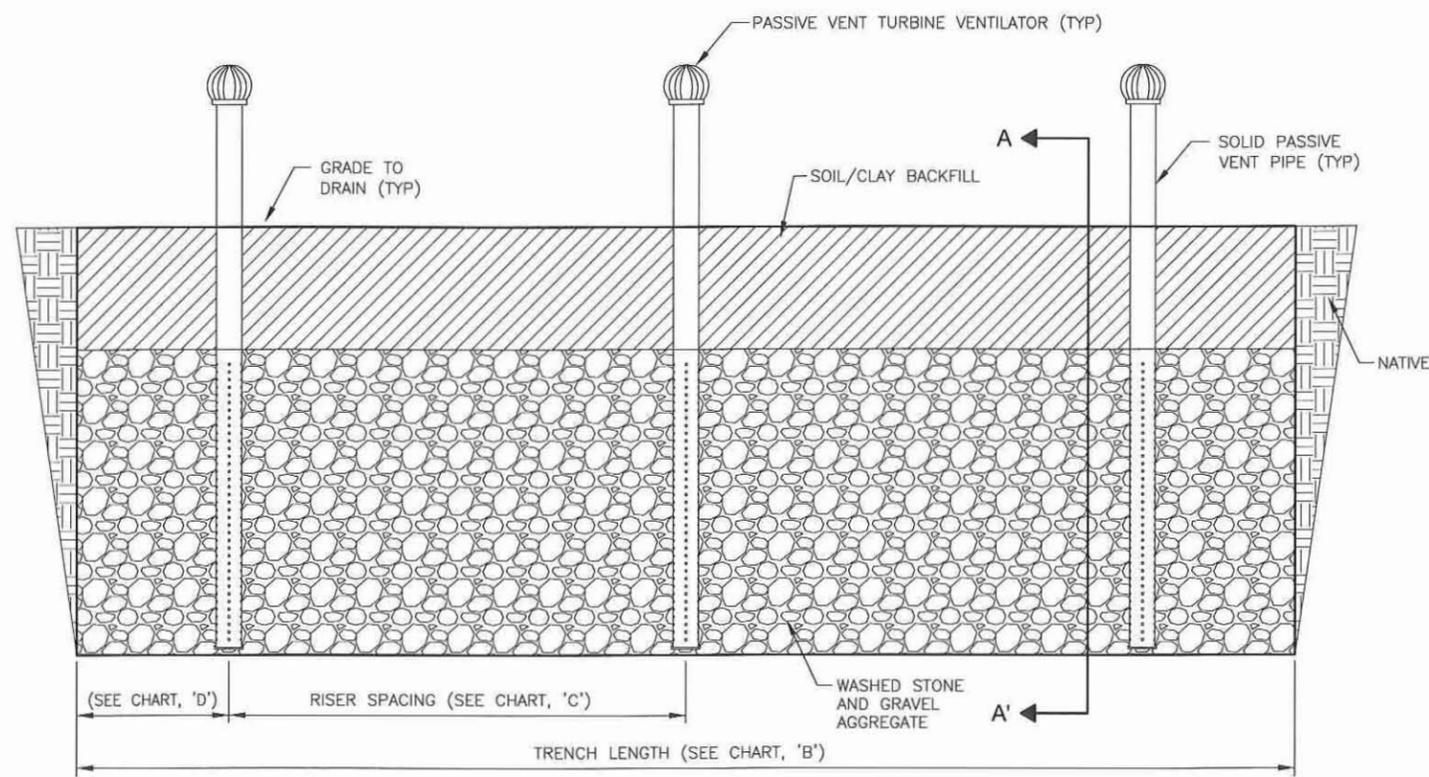
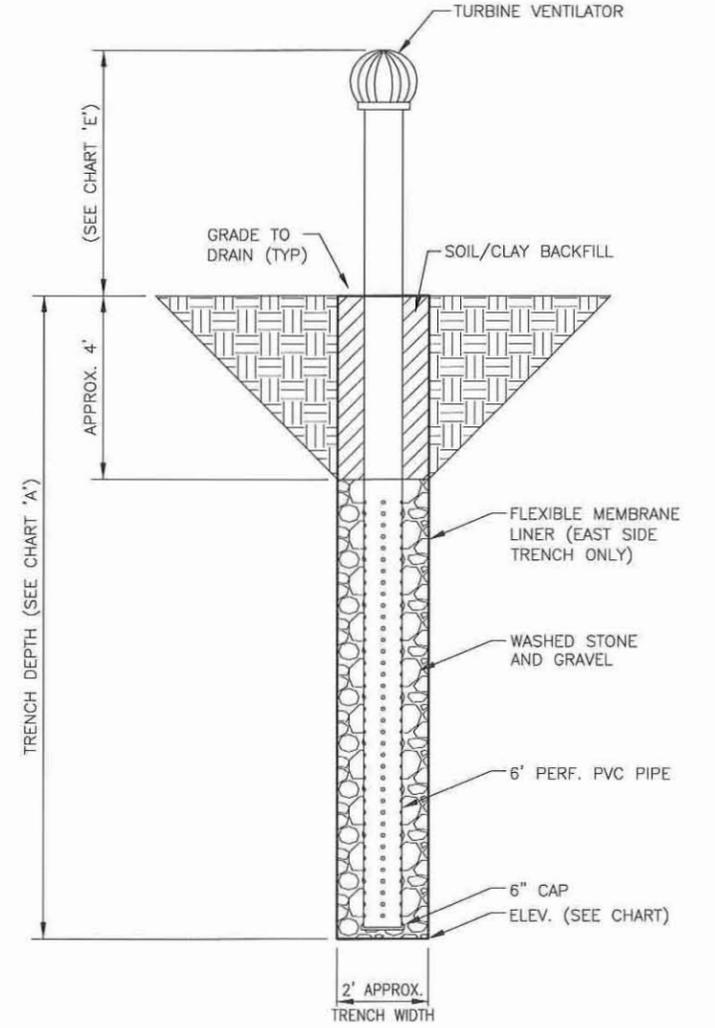
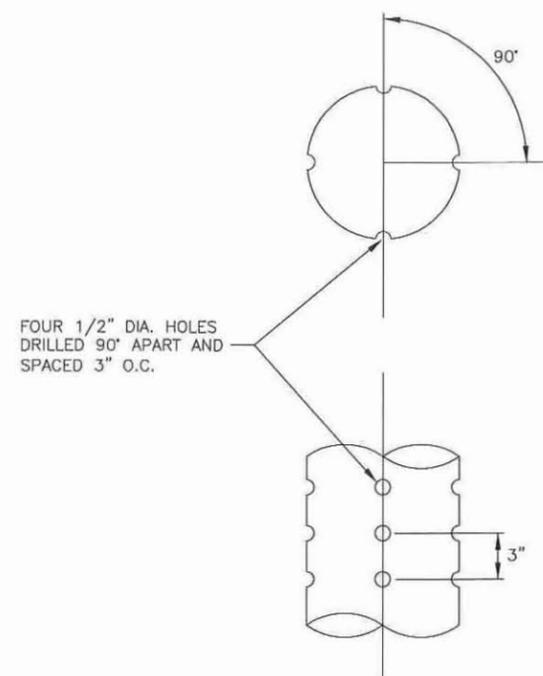


EXISTING WIND TURBINE PASSIVE VENT WITH TEMPORARY MONITORING POINT DETAIL

<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> FOR PERMITTING PURPOSES ONLY <input type="checkbox"/> ISSUED FOR CONSTRUCTION <input type="checkbox"/> CLIENT APPROVAL BY:	PREPARED FOR <b>CITY OF FREDERICKSBURG</b>	<b>REVISED LFG REMEDIATION PLAN          EXISTING PROBE AND VENT          SYSTEM DETAILS</b> CITY OF FREDERICKSBURG LANDFILL GILLESPIE COUNTY, TEXAS											
	DATE: 08/2011 FILE: 0620-01-14 CAD: FIGURE 2.DWG		REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION							
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EXISTING PASSIVE LFG TRENCH AND VENT SYSTEM

TRENCH	BOTTOM ELEV. (FT.)	DEPTH OF TRENCH BELOW GROUND LEVEL 'A'	TRENCH LENGTH 'B'	RISER SPACING 'C'	RISER SET BACK 'D'	PASSIVE VENT PIPE DIAMETER	VENTILATOR HEIGHT 'E'
LFG TRENCH 1 (MW-21)	1670.0	30 FEET	100 FEET	45 FEET	5 FEET	10"	10 FEET
LFG TRENCH 2 (SE CORNER)	1681.0	16 FEET	100 FEET	45 FEET	5 FEET	10"	10 FEET
LFG TRENCH 3 (GP-5)	1659.6	12 FEET	154 FEET	65 FEET	12 FEET	10"	17 FEET
LFG TRENCH 4 (TMP-8)	1702.0	16 FEET	100 FEET	45 FEET	5 FEET	6"	8 FEET
LFG TRENCH 5 (TMP-10)	1686.0	15 FEET	100 FEET	38 FEET	12 FEET	6"	8 FEET
LFG TRENCH 6 (MW-22)	1690.0	16 FEET	100 FEET	40 FEET	10 FEET	6"	13 FEET
LFG TRENCH 7 (MW-3)	1692.0	12 FEET	60 FEET	19/41 FEET	10/9 FEET	6"	12 FEET



STATE OF TEXAS  
MATT K. STUTZ  
93662  
PROFESSIONAL ENGINEER  
LICENSED  
8/26/11

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DATE: 09/2011 FILE: 0620-01-14 CAD: 3-TRENCH DETAILS.DWG	DRAWN BY: VRS DESIGN BY: AKE REVIEWED BY: MKS	REVISIONS NO. DATE DESCRIPTION
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		FORT WORTH, TX (817) 735-9770 GRIFFITH, IN SOUTH BEND, IN SPRINGFIELD, IL ST. LOUIS, MO
		FIGURE 3

O:\0620\01\LFG REMEDIATION (2011)\FIG 3-TRENCH AND VENT DETAILS.dwg, 7/29/2011 4:19:49 PM, r.seller

**ATTACHMENT 3**  
**LANDFILL GAS MONITORING REPORTS**

**MONTHLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Aaron Evans  
 Date: 11/30/2010  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-500  
 Temperature: 55° F, Barometric Pressure @ 28.15" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	3.7	74.0	3.8	0.0
TMP-9	NA	NA	NA	NA
TMP-10	NA	NA	NA	NA
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**QUARTERLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Aaron Evans  
 Date: 1/4/2011  
 Weather: Overcast  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 58° F, Barometric Pressure @ 28.20" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	0.0	0.0	16.0	0.00
TMP-2	0.0	0.0	19.0	0.00
TMP-3	0.0	0.0	17.2	0.00
TMP-4	0.0	0.0	16.1	0.00
TMP-5	0.0	0.0	16.9	0.01
TMP-6	0.8	16.0	16.7	0.00
TMP-7	0.1	2.0	18.2	0.07
TMP-8	2.2	44.0	2.4	0.04
TMP-9	0.6	12.0	16.2	0.00
TMP-10	4.4	88.0	14.3	0.01
TMP-11*	64.2	>100	0.0	0.21
TMP-12*	0.2	4.0	15.6	0.01
TMP-13*	60.4	>100	0.6	0.39
TMP-14*	6.5	>100	13.5	0.02
TMP-15*	0.2	4.0	16.0	0.08

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.

**MONTHLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Bob Ferbend  
 Date: 1/29/2011  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 72° F, Barometric Pressure @ 28.21" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	3.3	66.0	6.2	0.0
TMP-9	NA	NA	NA	NA
TMP-10	NA	NA	NA	NA
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**MONTHLY LANDFILL GAS MONITORING REPORT**  
**TEMPORARY MONITORING POINTS**  
**CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Bob Ferbend  
 Date: 2/19/2011  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 66° F, Barometric Pressure @ 28.35" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	8.3	>100	0.2	0.1
TMP-9	NA	NA	NA	NA
TMP-10	NA	NA	NA	NA
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**MONTHLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Bob Ferbend  
 Date: 3/26/2011  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 76° F, Barometric Pressure @ 27.96" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (Inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	0.0	0.0	18.4	0.0
TMP-9	NA	NA	NA	NA
TMP-10	NA	NA	NA	NA
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**QUARTERLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Aaron Evans  
 Date: 4/12/2011  
 Weather: Sunny, clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 55° F, Barometric Pressure @ 28.29" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	0.0	0.0	18.5	0.00
TMP-2	0.0	0.0	18.4	0.00
TMP-3	0.0	0.0	18.5	0.01
TMP-4	0.0	0.0	17.6	0.00
TMP-5	0.0	0.0	17.2	0.01
TMP-6	0.0	0.0	16.9	0.00
TMP-7	0.0	0.0	18.4	0.07
TMP-8	0.0	0.0	16.6	0.04
TMP-9	0.0	0.0	18.1	0.00
TMP-10	0.0	0.0	17.6	0.01
TMP-11*	58.5	>100	0.0	0.14
TMP-12*	0.5	10.0	13.3	0.02
TMP-13*	18.1	>100	11.5	0.04
TMP-14*	4.4	88.0	11.4	0.02
TMP-15*	0.0	0.0	15.9	0.00

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.

**MONTHLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Bob Ferbend  
 Date: 5/21/2011  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-500  
 Temperature: 90° F, Barometric Pressure @ 29.85" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL    Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol.    Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	0.0	0.0	20.7	0.0
TMP-9	NA	NA	NA	NA
TMP-10	0.0	0.0	20.7	0.0
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**MONTHLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Bob Ferbend  
 Date: 6/18/2011  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 85° F, Barometric Pressure @ 28.13" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	0.0	0.0	17.0	0.0
TMP-9	NA	NA	NA	NA
TMP-10	0.0	0.0	18.1	0.0
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**QUARTERLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Aaron Evans  
 Date: 7/13/2011  
 Weather: Sunny, clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 85° F, Barometric Pressure @ 28.14" Hg

**CALIBRATION**

**First Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

**Second Reading**

Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	0.0	0.0	18.9	0.00
TMP-2	0.0	0.0	18.4	0.00
TMP-3	0.0	0.0	18.1	0.01
TMP-4	0.0	0.0	12.7	0.01
TMP-5	0.0	0.0	17.1	0.01
TMP-6	0.0	0.0	14.8	0.02
TMP-7	0.0	0.0	16.4	0.07
TMP-8	0.0	0.0	16.3	0.04
TMP-9	0.0	0.0	17.8	0.00
TMP-10	0.0	0.0	17.9	0.01
TMP-11*	34.5	>100	5.7	0.06
TMP-12*	0.4	8.0	14.3	0.02
TMP-13*	34.2	>100	4.2	0.11
TMP-14*	6.7	>100	6.9	0.05
TMP-15*	0.0	0.0	16.9	0.07

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.

**MONTHLY LANDFILL GAS MONITORING REPORT  
 TEMPORARY MONITORING POINTS  
 CITY OF FREDRICKSBURG LANDFILL - TCEQ Permit No. MSW-40**

Sampled by: Aaron Evans  
 Date: 8/6/2011  
 Weather: Clear  
 Monitoring Equipment: Landtec GEM-2000  
 Temperature: 90° F, Barometric Pressure @ 30.08" Hg

**CALIBRATION**

First Reading  
 Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

Second Reading  
 Standard Concentration: 50.0 % LEL Instrument Reading: 50.0 % LEL  
 Standard Concentration: 2.5 % by vol. Instrument Reading: 2.5 % by vol.

Test #	Methane Concentration (% by Volume)	Methane Concentration (% LEL)	Oxygen Concentration (% by Volume)	Static Pressure (inches W.C.)
TMP-1	NA	NA	NA	NA
TMP-2	NA	NA	NA	NA
TMP-3	NA	NA	NA	NA
TMP-4	NA	NA	NA	NA
TMP-5	NA	NA	NA	NA
TMP-6	NA	NA	NA	NA
TMP-7	NA	NA	NA	NA
TMP-8	0.0	0.0	17.8	0.0
TMP-9	NA	NA	NA	NA
TMP-10	NA	NA	NA	NA
TMP-11*	NA	NA	NA	NA
TMP-12*	NA	NA	NA	NA
TMP-13*	NA	NA	NA	NA
TMP-14*	NA	NA	NA	NA
TMP-15*	NA	NA	NA	NA

Notes: \* These temporary monitoring points installed into waste materials within the landfill footprint.  
 W.C. - water column.  
 NA = not applicable, no reading required.

**ATTACHMENT 4**

**TCEQ FORM 0650**



# Texas Commission on Environmental Quality

## Permit or Registration Application for Municipal Solid Waste Facility

### Part I

#### A. General Information

Facility Name:	City of Fredericksburg Landfill – MSW Permit No. 40		
Physical or Street Address (if available):	FM 16631		
(City) (County)( State)( Zip Code):	Fredericksburg	Gillespie	TX 78624-3708
(Area Code) Telephone Number:	(830) 997-3459		
Charter Number:			

If the application is submitted on behalf of a corporation, provide the Charter Number as recorded with the Office of the Secretary of State for Texas.

Operator Name <sup>1</sup> :	City of Fredericksburg		
Mailing Address:	126 West Main Street		
(City) (County)( State)( Zip Code):	Fredericksburg	Gillespie	TX 78624-3708
(Area Code) Telephone Number:	(830) 997-3459		
(Area Code) FAX Number:	(830) 997-5449		
Charter Number:			

If the permittee is the same as the operator, type "Same as Operator".

Permittee Name:	Same as Operator		
Physical or Street Address (if available):			
(City) (County)( State)( Zip Code):			TX
(Area Code) Telephone Number:			
Charter Number:			

If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas Secretary of State's office and provide a complete mailing address for the agent. The agent must be a Texas resident.

Agent Name:			
Mailing Address:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

#### Application Type:

<input type="checkbox"/> Permit	<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Minor Amendment
<input type="checkbox"/> Registration	<input checked="" type="checkbox"/> Modification	<input type="checkbox"/> Temporary Authorization
	<input checked="" type="checkbox"/> w/Public Notice	
	<input type="checkbox"/> w/out Public Notice	<input type="checkbox"/> Notice of Deficiency Response

<sup>1</sup> The operator has the duty to submit an application if the facility is owned by one person and operated by another [30 TAC 305.43(b)]. The permit will specify the operator and the owner who is listed on this application [Section 361.087 Texas Health and Safety Code].

Facility Classification:

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

Activities covered by this application (check all that apply):

<input type="checkbox"/> Storage	<input type="checkbox"/> Processing	<input checked="" type="checkbox"/> Disposal
----------------------------------	-------------------------------------	--

Waste management units covered by this application (check all that apply):

<input type="checkbox"/> Containers	<input type="checkbox"/> Tanks	<input type="checkbox"/> Surface Impoundments	<input checked="" type="checkbox"/> Landfills
<input type="checkbox"/> Incinerators	<input type="checkbox"/> Composting	<input type="checkbox"/> Type IV Demonstration Unit	<input type="checkbox"/> Type IX Energy/Material Recovery
<input type="checkbox"/> Other (Specify)		<input type="checkbox"/> Other (Specify)	
<input type="checkbox"/> Other (Specify)		<input type="checkbox"/> Other (Specify)	

Is this submittal part of a Consolidated Permit Processing request, in accordance with 30 TAC Chapter 33?

Yes  No

If yes, state the other TCEQ program authorizations requested.

Provide a brief description of the portion of the facility covered by this application. For amendments, modifications, and temporary authorizations, provide a brief description of the exact changes to the permit or registration conditions and supporting documents referenced by the permit or registration. Also, provide an explanation of why the amendment, modification, or temporary authorization is requested.

Revision of Landfill Gas Remediation Plan

Does the application contain confidential Material?  Yes  No

If yes, cross-reference the confidential material *throughout the application* and submit as a separate document or binder conspicuously marked "CONFIDENTIAL."

Alternative Language Notice Instructions

For certain permit applications, public notice in an alternate language is required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, trigger a bilingual education program to apply to an entire school district should the requisite alternative language speaking student population exist. However, there may not exist any bilingual students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as a part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program on-site, or has students who attend such a program at another location in satisfaction of the school's obligation to provide such a program as a member of a triggered district.

If it is determined that an alternative language notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language. Electronic versions of the Spanish template examples are available from the TCEQ to help the applicant complete the publication in the alternative language.

Alternative Language Notice Application Form:

Alternative language notice confirmation for this application:

1. Is a bilingual program required by the Texas Education Code in the school district where the facility is located?  YES  NO

(If NO, alternative language notice publication not required)

2. If YES to question 1, are students enrolled in a bilingual education program at either the elementary school or the middle school nearest to the facility?  YES  NO

(If YES to questions 1 and 2, alternative language publication is required; If NO to question 2, then consider the next question)

3. If YES to question 1, are there students enrolled at either the elementary school or the middle school nearest to the facility who attend a bilingual education program at another location?  YES  NO

(If Yes to questions 1 and 3, alternative language publication is required; If NO to question 3, then consider the next question)

4. If YES to question 1, would either the elementary school or the middle school nearest to the facility be required to provide a bilingual education program but for the fact that it secured a waiver from this requirement, as available under 19 TAC '89.1205(g)?  YES  NO

(If Yes to questions 1 and 4, alternative language publication is required; If NO to question 4, alternative language notice publication not required)

If a bilingual education program(s) is provided by either the elementary school or the middle school nearest to the facility, which language(s) is required by the bilingual program?

Note: Applicants for new permits and major amendments must make a copy of the administratively complete application available at a public place in the county where the facility is, or will be, located for review and copying by the public.

Public place where administratively complete permit application will be located.			
Public Place (e.g., public library, county court house, city hall, etc.):	Not Applicable		
Mailing Address:			
(City) (County) ( State) ( Zip Code):			
(Area Code) Telephone Number:			

**B. Facility Location**

Except for Type I AE and Type IV AE landfill facilities, for permits, registrations, amendments, and modifications requiring public notice, provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.  
[www.fbgtx.org/pdf/LFGRemPlan8-11.pdf](http://www.fbgtx.org/pdf/LFGRemPlan8-11.pdf)

Local Government Jurisdiction:	
Within City Limits of:	
Within Extraterritorial Jurisdiction of City of:	
Is the proposed municipal or industrial solid waste disposal or processing facility located in an area in which the governing body of the municipality or county has prohibited the disposal or processing of municipal or industrial solid waste? (If YES, provide a copy of the ordinance or order):	
<input type="checkbox"/> YES <input type="checkbox"/> NO	

Provide a description of the location of the facility with respect to known or easily identifiable landmarks.

Detail the access routes from the nearest United States or state highway to the facility.  
 Not Applicable

Provide the latitudinal and longitudinal geographic coordinates of the facility.

Latitude	<b>N</b>
Longitude	<b>W</b>
Elevation (above msl)	

Is the facility within the Coastal Management Program boundary?     Yes     No

Texas Department of Transportation District Location:

TXDOT District Name & Number:	Not Applicable		
District Engineer's Name:			
Street or P. O. Box:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

The local governmental authority or agency responsible for road maintenance:

Agency Name	Not Applicable		
Contact Person's Name:			
Street or P. O. Box:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

State Representative:

District Number:	Not Applicable		
State Representative's Name:			
District Office Address:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

State Senator:

District Number:	Not Applicable		
State Senator's Name:			
District Office Address:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

Council of Government (COG) Information:

COG Name:	Not Applicable		
COG Representative's Name:			
COG Representative's Title:			
Street or P. O. Box:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

River Basin Information:

River Authority:	Not Applicable		
Contact Person's Name:			
Watershed Sub-Basin Name:			
Street or P. O. Box:			
(City) (County)( State)( Zip Code):			
(Area Code) Telephone Number:			
(Area Code) FAX Number:			

This site is located in the following District of the U.S. Army Corps of Engineers:			
<input type="checkbox"/> Albuquerque, NM	<input type="checkbox"/> Ft. Worth, TX	<input type="checkbox"/> Galveston, TX	<input type="checkbox"/> Tulsa, OK

C. Maps

General

For permits, registrations, and amendments only, submit a topographic map, ownership map, county highway map, or a map prepared by a registered professional engineer or a registered surveyor which shows the facility and each of its intake and discharge structures and any other structure or location regarding the regulated facility and associated activities. Maps must be of material suitable for a permanent record, and shall be on sheets 8-1/2 inches by 14 inches or folded to that size, and shall be on a scale of not less than one inch equals one mile. The map shall depict the approximate boundaries of the tract of land owned or to be used by the applicant and shall extend at least one mile beyond the tract boundaries sufficient to show the following:

each well, spring, and surface water body or other water in the state within the map area;

the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands such as residential, commercial, agricultural, recreational, undeveloped, etc;

the location of any waste disposal activities conducted on the tract not included in the application; and

the ownership of tracts of land adjacent to the facility and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity.

### General location maps

For permits, registrations, and amendments only, submit at least one general location map at a scale of one-half inch equals one mile. This map shall be all or a portion of a county map prepared by Texas Department of Transportation (TxDOT). If TxDOT publishes more detailed maps of the proposed facility area, the more detailed maps shall also be included in Part I. Use the latest revision of all maps.

### Land ownership map

Provide a map that locates the property owned by adjacent and potentially affected landowners. The maps should show all property ownership within 1/4 mile of the facility, on-site facility easement holders, and all mineral interest ownership under the facility.

### Landowners list

Provide the adjacent and potentially affected landowners' list, keyed to the land ownership map with each property owner's name and mailing address. The list shall include all property owners within 1/4 mile of the facility, easement holders, and all mineral interest ownership under the facility. Provide the property, easement holders', and mineral interest owners' names and mailing addresses derived from the real property appraisal records as listed on the date that the application is filed. Provide the list in electronic form, as well.

## **D. Property owner information**

For permits, registrations, amendments, and modifications that change the legal description, a change in owner, or a change in operator only, provide the following:

(1) the legal description of the facility;

- (A) the abstract number as maintained by the Texas General Land Office for the surveyed tract of land;
- (B) the legal description of the property and the county, book, and page number or other generally accepted identifying reference of the current ownership record;
- (C) for property that is platted, the county, book, and page number or other generally accepted identifying reference of the final plat record that includes the acreage encompassed in the application and a copy of the final plat, in addition to a written legal description;
- (D) a boundary metes and bounds description of the facility signed and sealed by a registered professional land surveyor;
- (E) on-site easements at the facility, and
- (F) drawings of the boundary metes and bounds description; and

(2) a property owner affidavit signed by the owner.

## **E. Legal authority**

Provide verification of the legal status of the owner and operator, such as a one-page certificate of incorporation issued by the secretary of state. List all persons having over a 20% ownership in the proposed facility.

Indicate Ownership status of the facility:									
<input type="checkbox"/>	Private	<input type="checkbox"/>	Corporation	<input type="checkbox"/>	Partnership	<input type="checkbox"/>	Proprietorship	<input type="checkbox"/>	Non-Profit Organization
<input type="checkbox"/>	Public	<input type="checkbox"/>	Federal	<input type="checkbox"/>	Military	<input type="checkbox"/>	State	<input type="checkbox"/>	Regional
<input type="checkbox"/>	County	<input checked="" type="checkbox"/>	Municipal	<input type="checkbox"/>	Other (Specify)				

Does the operator own the facility units and the facility property?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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If "No," for permits, registrations, amendments, and modifications that changes the legal description, a change in owner, or a change in operators submit a copy of the lease for the use of or the option to buy the facility units or facility property, as appropriate, and identify:

Owner Name:	Not Applicable
Street or P. O. Box:	
(City) (County) ( State) ( Zip Code):	
(Area Code) Telephone Number:	
(Area Code) FAX Number:	
Charter Number:	

**F. Evidence of competency**

For permits, registrations, amendments, and modifications that change the legal description, a change in owner, or a change in operators submit a list of all Texas solid waste sites that the owner and operator have owned or operated within the last ten years.

Site Name	Site Type	Permit/Reg. No.	County	Dates of Operation
Not Applicable				

Submit a list of all solid waste sites in all states, territories, or countries in which the owner and operator have a direct financial interest.

Site Name	Location	Dates of Operation	Regulatory Agency (Name & Address)
Not Applicable			

A licensed solid waste facility supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations will be employed before commencing facility operation.

Provide the names of the principals and supervisors of the owner's and operator's organization, together with previous affiliations with other organizations engaged in solid waste activities.

Name	Previous Affiliation	Other Organization
Not Applicable		

For landfill permit applications only, evidence of competency to operate the facility shall also include landfilling and earthmoving experience if applicable, and other pertinent experience, or licenses as described in 30 TAC Chapter 30 possessed by key personnel. The number and size of each type of equipment to be dedicated to facility operation will be specified in greater detail on Part IV of the application within the site operating plan.

Landfilling/Earthmoving Equipment Types	Personnel Experience or Licenses
Not Applicable	

For mobile liquid waste processing units, submit a list of all solid waste, liquid waste, or mobile waste units that the owner and operator have owned or operated within the past five years. Submit a list of any final enforcement orders, court judgments, consent decrees, and criminal convictions of this state and the federal government within the last five years relating to compliance with applicable legal requirements relating to the handling of solid or liquid waste under the jurisdiction of the commission or the United States Environmental Protection Agency. Applicable legal requirement means an environmental law, regulation, permit, order, consent decree, or other requirement.

Solid waste, liquid waste, or mobile waste units owned or operated within past 5 years	Texas and federal final enforcement orders, court judgments, consent decrees, and criminal convictions
Not Applicable	

### G. Appointments

Provide documentation that the person signing the application meets the requirements of 30 TAC §305.44, Signatories to Applications. If the authority has been delegated, provide a copy of the document issued by the governing body of the owner or operator authorizing the person that signed the application to act as agent for the owner or operator.

### H. Application Fees

For a new permit, registration, amendment, modification, or temporary authorization, submit a \$150 application fee.

For authorization to construct an enclosed structure over an old, closed municipal solid waste landfill in accordance with 30 TAC 330 Subchapter T, submit a \$2,500 application fee.

If paying by check, send payment to:

Texas Commission on Environmental Quality  
 Financial Administration Division, MC 214  
 P. O. Box 13087  
 Austin, Texas 78711-3087

Payment maybe made online using TCEQ e-pay at <a href="http://www.tceq.state.tx.us/e-services/">www.tceq.state.tx.us/e-services/</a>	
E-pay confirmation number	582EA000104033

**PROPERTY OWNER AFFIDAVIT**

"I, \_\_\_\_\_,  
(property owner)

acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the facility. For a facility where waste will remain after closure, I acknowledge that I have a responsibility to file with the county deed records an affidavit to the public advising that the land 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, and to file a final recording upon completion of disposal operations and closure of the landfill units in accordance with Title 30 Texas Administrative Code §330.19, Deed Recordation. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active life and post-closure care period, if required, after closure for the purpose of inspection and maintenance."

\_\_\_\_\_  
(Owner signature)

\_\_\_\_\_  
(Date)

Signature Page

I, Craig Wallendorf, P.E., Director of Public Works, City of Fredericksburg  
(Operator) (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: *Craig Wallendorf* Date: 8-26-11

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.

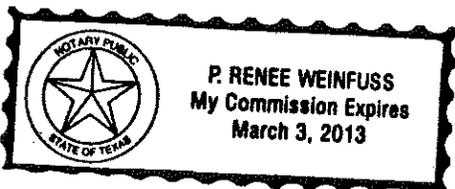
\_\_\_\_\_  
Printed or Typed Name of Operator or Principal Executive Officer

\_\_\_\_\_  
Signature

SUBSCRIBED AND SWORN to before me by the said Craig Wallendorf

On this 26 day of August, 2011

My commission expires on the 3 day of March, 2013



*P. Renee Weinfuss*  
Notary Public in and for  
Tarrant County, Texas

(Note: Application Must Bear Signature & Seal of Notary Public)

**ATTACHMENT 5**  
**ADJACENT LANDOWNERS MAP AND LIST**

**Legend**

-  ROW / Property Line
-  Landfill
-  1/4 Mile Notification Area
-  Edge of Pavement

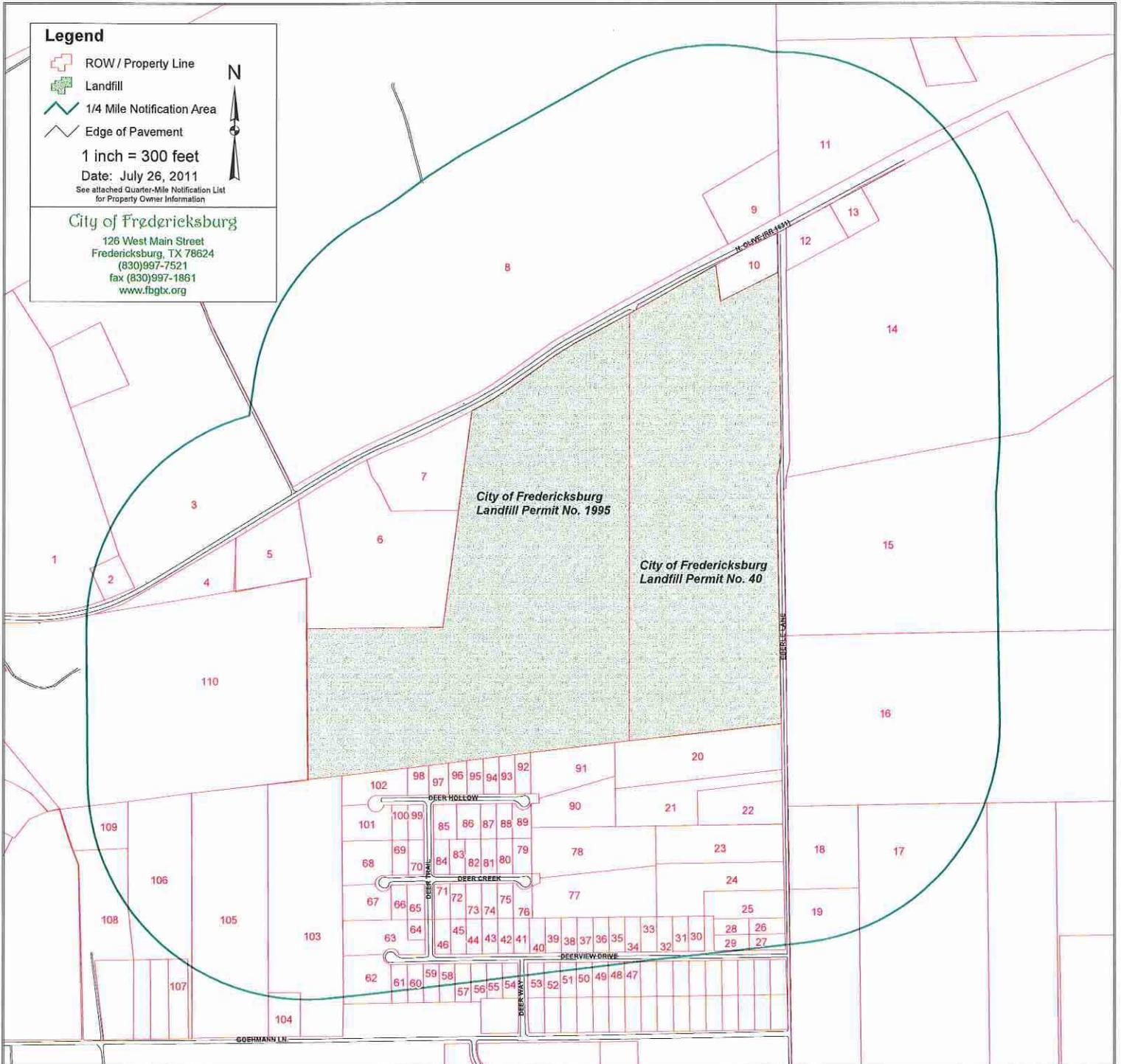


1 inch = 300 feet  
Date: July 26, 2011

See attached Quarter-Mile Notification List  
for Property Owner Information

**City of Fredericksburg**

126 West Main Street  
Fredericksburg, TX 78624  
(830)997-7521  
fax (830)997-1861  
www.fbgtx.org



City of Fredericksburg Landfill Quarter-Mile Notification List  
Owners current as of January 2011

# 1 WILLIAM M & SALLY CLARK  
207 W TRAVIS  
FREDERICKSBURG, TX 78624

# 2 ISRAEL HERNANDEZ & ORALIA REZA  
796 RANCH RD 1631  
FREDERICKSBURG, TX 78624

# 3 CLINGINGSMITH FARMS & ORCHARD  
% E W HALLFORD  
283 HALLFORD LN  
FREDERICKSBURG, TX 78624

# 4 DAVID E SIDLO  
547 SMITH RD  
FREDERICKSBURG, TX 78624

# 5 GERALD E HOWARD  
2004 N ADAMS  
FREDERICKSBURG, TX 78624

# 6 RAY RANDOLPH & CHANDLAR DIETRICH  
PO BOX 328  
FREDERICKSBURG, TX 78624

# 7 SUNDAY HOUSE FELLOWSHIP  
PO BOX 1307  
FREDERICKSBURG, TX 78624

# 8 VICKY J SCHMIDT, ETAL  
PO BOX 61  
FREDERICKSBURG, TX 78624

# 9 DORMAN R & VICKI SCHMIDT  
PO BOX 61  
FREDERICKSBURG, TX 78624

# 10 SHIRLEY ANN TIPTON  
1669 RANCH ROAD 1631  
FREDERICKSBURG, TX 78624

# 11 ALTON IMMEL  
PO BOX 191  
FREDERICKSBURG, TX 78624

# 12 ALTON IMMEL  
PO BOX 191  
FREDERICKSBURG, TX 78624

# 13 ALTON IMMEL  
PO BOX 191  
FREDERICKSBURG, TX 78624

# 14 ALTON IMMEL  
PO BOX 191  
FREDERICKSBURG, TX 78624

# 15 ALTON M & FLORINE F DEIKE  
% DENNY & DENISE DEIKE  
305 EBERLE LN  
FREDERICKSBURG, TX 78624

# 16 RUDY R H AHRENS  
487 EBERLE LN  
FREDERICKSBURG, TX 78624

# 17 ROMAN MAURER -LIFE ESTATE-  
% LINDA COTTLE ETAL  
1692 GOEHMANN LN  
FREDERICKSBURG, TX 78624

# 18 JOSEPH MICHAEL FLEURY  
735 EBERLE LN  
FREDERICKSBURG, TX 78624

# 19 CHARLES H EBERLE  
873 EBERLE LN  
FREDERICKSBURG, TX 78624

# 20 J JESUS & MARIA O PRECIADO  
597 HOLLMIG LN  
FREDERICKSBURG, TX 78624

# 21 RUBIN & SILBIA AGUILAR  
113 SHAW AVE  
FREDERICKSBURG, TX 78624

# 22 ANTONIO & BEATRIZ RODRIGUEZ  
668 EBERLE LN  
FREDERICKSBURG, TX 78624

# 23 PAUL III & VICKY HARTCRAFT  
752 EBERLE LN  
FREDERICKSBURG, TX 78624

# 24 SILVESTRE CASTRUITA  
& EDITH ZAMUDIO  
PO BOX 202  
FREDERICKSBURG, TX 78624

# 25 JUAN RAMIREZ  
1127 FAWN DR  
FREDERICKSBURG, TX 78624

# 26 JOAQUIN & PETRA ROJAS  
2146 STANLEY BLVD  
PORT ARTHUR, TX 77642

# 27 SILBIA AGUILAR  
113 SHAW AVE  
FREDERICKSBURG, TX 78624

# 28 ROBERTO RUBIO  
1128 FAWN ROAD  
FREDERICKSBURG, TX 78624

# 29 RONALD D & SYLVIA M CONATSER  
626 DEERVIEW  
FREDERICKSBURG, TX 78624

# 30 JAVIER S & MARIA HOLGUIN  
622 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 31 ANTONIO R & GRACIELA NERI  
620 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 32 ROMELIA ARIAS & SANTOS PRIETO  
1059 KERR RD  
FREDERICKSBURG, TX 78624

# 33 MAYOLO & TELLE ALBITER  
614 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 34 MAYOLO ALBITER  
PO BOX 1432  
FREDERICKSBURG, TX 78624

# 35 TOMAS ALBITER JARAMILLO JR &  
BEATRIZ ZAMORA DE ALBITER  
612 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 36 FERNANDO HERNANDEZ  
610 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 37 BERTHA DUARTE  
PO BOX 1546  
FREDERICKSBURG, TX 78624

# 38 JOSH KRAMER &  
ALVELINO PEREZ  
105 ITZ-BRITZ RD  
FREDERICKSBURG, TX 78624

# 39 FRANCISCO R VILLAGRANA  
604 DEERVIEW  
FREDERICKSBURG, TX 78624

# 40 JAMES NEUTZE  
203 GOLD SCHAEFER RD  
FREDERICKSBURG, TX 78624

# 41 MARIA & ALICIA CASTILLO  
% BIERSCHWALE CREDIT & LENDING  
518 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 42 JAVIER RIVERA  
508 W COLLEGE  
FREDERICKSBURG, TX 78624

# 43 SILVIA DELUNA  
514 DEERVIEW  
FREDERICKSBURG, TX 78624

# 44 JOVITA RESENDIZ  
512 DEERVIEW  
FREDERICKSBURG, TX 78624

# 45 JESSE ALEMAN  
510 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 46 ALBERT M & VIVIENNE JONES  
508 DEERVIEW DR.  
FREDERICKSBURG, TX 78624

# 47 MAURILIO RESENDIZ  
613 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 48 COSME & RUBEN AGUILAR  
113 SHAW AVE  
FREDERICKSBURG, TX 78624

# 49 LUIS PEREZ  
% JOHN EDWIN BOMER  
609 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 50 TOMAS ALBITER &  
& BEATRIZ ZAMORA DE ALBITER  
607 DEERVIEW DR.  
FREDERICKSBURG, TX 78624

# 51 JOHN J ESCAMILLA JR  
307 E COLLEGE  
FREDERICKSBURG, TX 78624

# 52 PAULO TOCA  
% SCHMID, SANFORD  
250 S MAIN  
LA GRANGE, TX 78945

# 53 ERNEST & MARY NICHOLS  
1202 DEERWAY  
FREDERICKSBURG, TX 78624

# 54 GERHARD JUESTEN  
29 COUNTY ROAD 416  
ROCHELLE, TX 78872

# 55 JESUS & MARIA LINDO  
515 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 56 CONTRERAS CIRO MARTINEZ  
513 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 57 JERONIMO A ARIAS  
511 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 58 ALFONSO SOSA  
509 DEERVIEW  
FREDERICKSBURG, TX 78624

# 59 MICHAEL W & CONNIE HOPPENRATH  
507 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 60 CRESENCIANO & MARIA GALINDO  
505 DEERVIEW  
FREDERICKSBURG, TX 78624

# 61 ROJELIO BARCENAS  
503 DEERVIEW DR  
FREDERICKSBURG, TX 78624

# 62 FRANTI AGUILAR  
501 DEERVIEW  
FREDERICKSBURG, TX 78624

# 63 REFUGIO & JOSEFINA OLAGUEZ  
220 GREEN MEADOWS LN  
FREDERICKSBURG, TX 78624

# 64 AQUA UTILITIES INC  
1106 CLAYTON LN STE 400 W  
AUSTIN, TX 78723

# 65 JAMES J DEWHIRST  
1127 DEER TRL  
FREDERICKSBURG, TX 78624

# 66 HILDEGARD HARDY  
503 DEERCREEK  
FREDERICKSBURG, TX 78624

# 67 JUAN V ZEPEDA  
501 DEER CREEK  
FREDERICKSBURG, TX 78624

# 68 WALTER L & GAY WALLS  
504 DEERCREEK  
FREDERICKSBURG, TX 78624

# 69 WALTER L & GAY WALLS  
504 DEERCREEK  
FREDERICKSBURG, TX 78624

# 70 JUAN & MARIA ZEPEDA  
501 DEER CREEK  
FREDERICKSBURG, TX 78624

# 71 LUIS & CONCEPCION CHAVARRIA  
1128 DEER TRAIL  
FREDERICKSBURG, TX 78624

# 72 JOSE LUIS & CONCEPCION CHAVARRIA  
1128 DEER TRAIL  
FREDERICKSBURG, TX 78624

# 73 ALAN R BARRERA  
PO BOX 1066  
FREDERICKSBURG, TX 78624

# 74 FILIBERTO & ELIZABETH CHAVARRIA  
513 DEERCREEK  
FREDERICKSBURG, TX 78624

# 75 LORENA GURROLA &  
MARIA DELAPAZ NERI  
515 DEER CREEK  
FREDERICKSBURG, TX 78624

# 76 CHARLES M & KAREN A HOLT  
517 DEERCREEK  
FREDERICKSBURG, TX 78624

# 77 DANIEL & ALMA CASTANEDA  
519 DEER CREEK  
FREDERICKSBURG, TX 78624

# 78 RAFAEL & JUANA TAMAYO  
520 DEERCREEK  
FREDERICKSBURG, TX 78624

# 79 VICTOR HERNANDEZ  
518 DEERCREEK  
FREDERICKSBURG, TX 78624

# 80 KATHLYN E DUECKER  
156 HENRY DUECKER RD  
FREDERICKSBURG, TX 78624

# 81 MIGUEL A & ANNA CHAVARRIA  
514 DEERCREEK  
FREDERICKSBURG, TX 78624

# 82 IMELDA LUYCX & ARTURO ROBLES  
512 DEER CREEK  
FREDERICKSBURG, TX 78624

# 83 JULIO C & MARY G MARTINEZ  
510 DEERCREEK  
FREDERICKSBURG, TX 78624

# 84 ORALIA RENOSO  
508 DEER CREEK  
FREDERICKSBURG, TX 78624

# 85 MAURILLO RESENDIZ & MARIA RIOS  
1124 DEER TRAIL  
FREDERICKSBURG, TX 78624

# 86 SILBIA AGUILAR  
113 SHAW AVE  
FREDERICKSBURG, TX 78624

# 87 AQUA UTILITIES INC  
1106 CLAYTON LN STE 400 W  
AUSTIN, TX 78723

# 88 AQUA UTILITIES INC  
1106 CLAYTON LN STE 400 W  
AUSTIN, TX 78723

# 89 RICHARD III & LINDA NEFFENDORF  
517 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 90 HEATH W & LISA PETSCH  
519 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 91 ERNESTO HERNANDEZ, ETAL  
113 SHAW AVE  
FREDERICKSBURG, TX 78624

# 92 TRACY LYNN FEUGE  
518 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 93 JAMES B & JEANETTE FIELDS  
516 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 94 FEDERAL NATIONAL MORTGAGE ASSOC  
13150 WORLDGATE DR  
HERNDON, VA 20170

# 95 PEDRO & GLORIA VILLAGRANA  
% BIERSCHWALE CREDIT & LENDING  
512 DEERHOLLOW  
FREDERICKSBURG, TX 78624

# 96 ART & JOYCE ESENSEE  
510 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 97 JOSE CADENA  
508 DEERHOLLOW  
FREDERICKSBURG, TX 78624

# 98 MARY ELLEN NIETO  
506 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 99 SIXTO & MARIA OCAMPO  
P O BOX 1182  
FREDERICKSBURG, TX 78624

# 100 JAIME A & MARIA L LOPEZ  
P O BOX 811  
FREDERICKSBURG, TX 78624

# 101 CAROL E WEBB  
501 DEER HOLLOW  
FREDERICKSBURG, TX 78624

# 102 ORALIA RIVERA  
502 DEERHOLLOW  
FREDERICKSBURG, TX 78624

# 103 MARK MUDD  
438 GOEHMANN LN  
FREDERICKSBURG, TX 78624

# 104 JAMES A PREJEAN, ETUX  
448 GOEHMANN LN  
FREDERICKSBURG, TX 78624

# 105 MARK MUDD  
438 GOEHMANN LN  
FREDERICKSBURG, TX 78624

# 106 MELVIN H & MATHILDA ITZ  
1504 N MILAM ST  
FREDERICKSBURG, TX 78624

# 107 GARY NEAL BURRER, ETUX  
422 GOEHMANN LN  
FREDERICKSBURG, TX 78624

# 108 TEXAS ALPENLAND LP  
80 NEFFENDORF TRL  
FREDERICKSBURG, TX 78624

# 109 MELVIN H & MATHILDA ITZ  
1504 N MILAM ST  
FREDERICKSBURG, TX 78624

# 110 LESTER E THEIS  
18840 REDLAND RD #2  
SAN ANTONIO, TX 78259