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BOOS
CONSULTANTS
LLC
SOUTHWEST

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February 27, 2012 Project No. 0628-001-52-00-03

Christine M. Bergren MC 124 Section Manager Municipal Solid Waste Permits Section Texas Commission on Environmental Quality 12100 Park 35 Circle, Bldg. F Austin, Texas 78753

Re: Permit Modification/Landfill Gas Remediation Plan Landfill Gas System Expansion City of Grand Prairie Landfill - TCEQ MSW Permit No. 996C Dallas County, Texas

Dear Ms. Bergren:

The purpose of this Permit Modification/Landfill Gas Remediation Plan, submitted on behalf of our client, the City of Grand Prairie (City), is to modify the site's existing Attachment 14 – Landfill Gas Management Plan (LGMP) to incorporate an expansion of the facility's existing landfill gas (LFG) collection and control system (GCCS). The purpose of this GCCS expansion is to mitigate LFG migration in the vicinity of perimeter gas monitoring probe GMP(R)-11 and to improve LFG collection in the vicinity of groundwater monitoring well MW-9 to mitigate potential gas-related groundwater impacts. 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).

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

- The second cover page has been updated to reflect the revision date of February 2012.
- Page 14-ii in the Table of Contents was revised to update the page number for Section 6.6.
- Section 6.2 was expanded to describe the proposed 2012 GCCS Expansion.

Ms. Christine Bergren February 27, 2012 Page 2

- An updated existing site plan, along with a drawing of the proposed 2012 GCCS expansion, was added to Appendix 14A. The replacement/additional drawings include:
 - Drawing 14A-5: Existing GCCS Plan [Updated]
 - o Drawing 14A-6C: 2012 GCCS Expansion [Added]

Proposed Remediation Plan

LFG Extraction Wells

As shown on Drawing 14A-6C, the proposed GCCS expansion will include seven additional LFG extraction wells along the northeast side of the landfill and seven redrilled wells to replace collapsed wells in the vicinity of GMP(R)-11. These additional LFG extraction wells will relieve pressure build up within the landfill. The elevated LFG pressures are due to waste decomposition and are the driving force for LFG migration. Each LFG extraction well will be installed in vertical borings drilled into the waste as shown on Drawing 14A-3 of the approved LGMP.

Collection Piping

Each LFG extraction well will be fitted with a wellhead valve assembly. The wellhead will be equipped with an adjustment valve to regulate the applied vacuum and flow of LFG. The wellhead will also be equipped with monitoring ports to enable the system operator to measure gas composition, pressure, flow rate, and temperature. The wellheads will be connected to lateral piping, which will convey the flow of LFG into the main header pipe or selected low points.

Condensate Management

The GCCS piping will be graded to enable LFG condensate to gravity drain into the existing GCCS. The condensate generated in the existing GCCS previously approved by the TCEQ drains into existing condensate sumps. The condensate generated from the new LFG extraction wells will be disposed of along with rest of the condensate and the leachate from the landfill.

System Operations

Once the GCCS expansion has been installed, operation and monitoring of the new LFG extraction wells will be initiated. The expanded system will be routinely monitored at

Ms. Christine Bergren February 27, 2012 Page 3

each of the wellheads and the flare station. During the initial startup of the expanded system, frequent monitoring and adjustments to the wells will be required. The perimeter gas probe monitoring data will continue to be assessed to determine how effectively the GCCS is mitigating the LFG migration.

Once the system is balanced, operational activities for the GCCS will include periodic system monitoring and maintenance. Monitoring and necessary adjustments will continue to be made to the LFG extraction wells to maintain optimum performance.

Schedule/Monitoring

As the GCCS expansion is being installed for remediation purposes, the City is making preparations for the system installation. Contract award and construction commencement is anticipated during the first or second quarter of 2012.

It could take several months for the expanded GCCS to achieve steady-state operating conditions and effectively mitigate LFG migration. The City will continue to monitor the affected LFG perimeter probe GMP(R)-11 monthly until the monitoring data indicates methane levels at the affected probes are below the regulatory limit (5 percent methane by volume in air) for three consecutive months. At that time, the City will submit a written request along with the LFG monitoring report to the TCEQ requesting that the frequency of LFG perimeter probe monitoring return to quarterly. The LFG monitoring results will be submitted to the TCEQ each month. However, if methane levels in the probe remain above the regulatory limit for 9 months after installation, the City will contact the TCEQ to discuss further remediation options.

Permit Modification Justification

The City understands the importance of maintaining effective environmental controls at the landfill. The primary purpose of the expansion of the existing GCCS is to further remediate LFG migration at the site. As such, 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 a surrounding landowners map, along with a list of the property owners' names and addresses, is included in Attachment 2. In addition, an applicant certification consistent with 30 TAC §305.70(f) and §305.44 is included on Page 10 of the Part I Form in Attachment 3. In accordance with Title 30 TAC §330.59(h)(1), a \$150.00 application fee has been submitted to the TCEQ as documented on Page 8 of the Part I Form in Attachment 3. This application will be posted on the internet at (http://www.gptx.org/index.aspx?page=124) consistent with Title 30 TAC §330.57(i)(1).

Ms. Christine Bergren February 27, 2012 Page 4

One original and one copy of the permit modification are provided for your use and distribution. To facilitate your review, we have included copies of the LGMP revisions in both a clean and redline/strikeout format. In addition, one copy of this permit modification has been provided to the appropriate regional office. A copy of this submittal was also 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

J. Heath Parker, P.E.

Project Engineer

Attachments: Attachment 1 - Attachment 14 Revisions Pages

Attachment 2 - Landowners List and Map

Attachment 3 – TECQ Permit Application Part I Form

Attachment 4 – Attachment 14 Revisions Pages (Redline/Strikeout Format)

cc: TCEQ Region 4 Office

Patricia Redfearn, City of Grand Prairie Ruth Bracken, City of Grand Prairie Dusty Wilson, City of Grand Prairie

ATTACHMENT 1 ATTACHMENT 14 REVISION PAGES

CITY OF GRAND PRAIRIE LANDFILL DALLAS COUNTY, TEXAS TCEQ PERMIT APPLICATION NO. MSW-996C

PART III – SITE DEVELOPMENT PLAN ATTACHMENT 14 LANDFILL GAS MANAGEMENT PLAN

PERMIT MODIFICATIONS

Revised June 2009 Revised December 2009

Revised February 2012

Prepared by

Weaver Boos Consultants, LLC-Southwest

TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770



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6.2.4 2012 GCCS Expansion

The proposed 2012 GCCS Expansion includes the installation of seven additional LFG extraction wells, the abandonment and redrill of seven LFG extraction wells (EW-28, EW-29, EW-30, EW-31, EW-32, EW-49, and EW-50), and related piping as shown on Drawing 14A-6C.

6.3 GCCS Expansion for Vertical Expansion

The proposed vertical expansion for the City of Grand Prairie Landfill consists of an overlay of additional waste placed over a portion of the existing landfill footprint. As the expansion is developed, additional vertical wells will be incrementally installed to provide LFG collection and control from the additional waste materials. As the landfill develops and waste placement approaches the existing wells, the well will either be extended vertically, or the valve will be relocated horizontally to a location that is outside of the waste fill or the well will be redrilled after waste filling is completed. locations of the proposed extraction wells are shown on Drawing 14A-2. The collection points will be connected to the existing GCCS for discharge to the existing LFG flare facility.

Future LFG Control Capacity 6.4

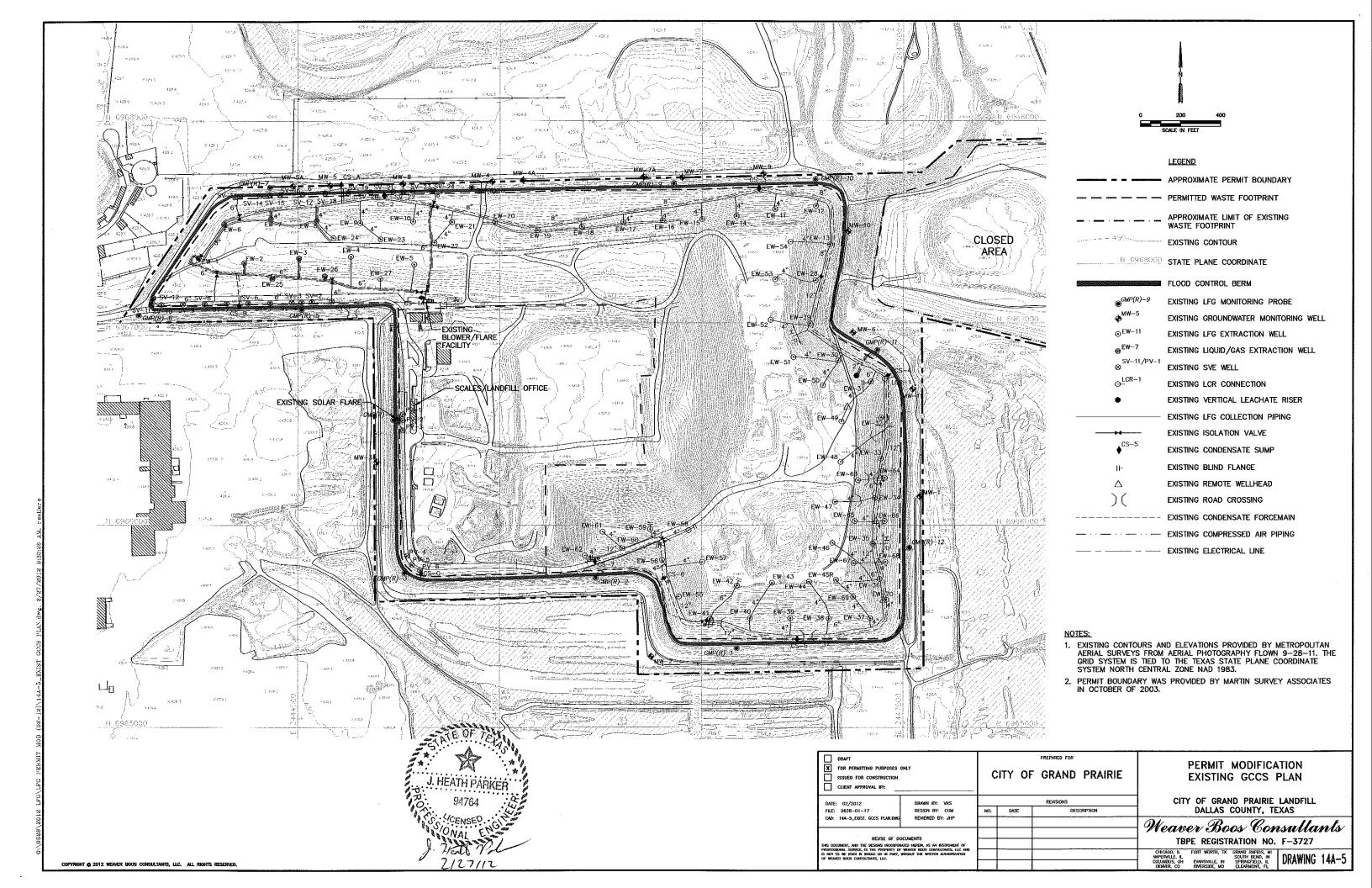
Using the EPA Landfill Gas Emissions Model, it is estimated that the site will generate a maximum of approximately 2,740 standard cubic feet per minute (scfm) of LFG (Appendix 14D). As such, additional collection and control equipment will be installed to provide the vacuum and capacity needed to handle the predicted maximum design flow rate of the GCCS. The City of Grand Prairie LFG flare currently operates under Standard Air Permit No. 43841 issued by the TCEQ in April 2000. Future expansions of the control equipment by the City of Grand Prairie Landfill, which may increase site emissions, will be performed following TCEQ approval of the appropriate air authorization.

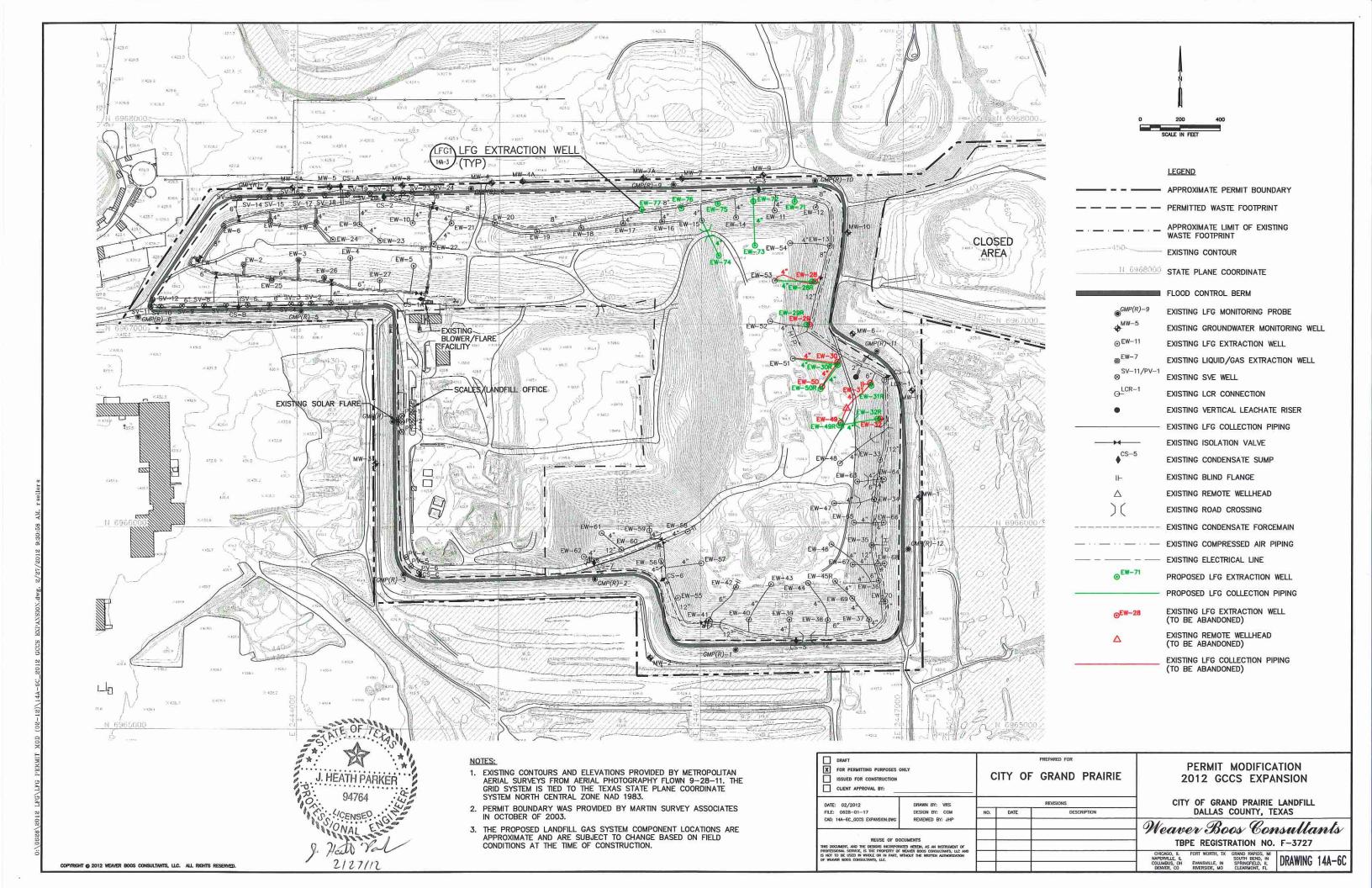
6.5 GCCS Operation and Maintenance

The City of Grand Prairie Landfill currently has an NMOC emission rate of less than 50 megagrams per year. As such, the site is not currently subject to the EG requirements for the operation and maintenance of the GCCS. The City of Grand Prairie Landfill will however continue to follow current industry accepted guidelines and practices for the system operation and maintenance, as well as any requirements stipulated under currently issued TCEQ air authorizations.

6.6 Soil Vapor Extraction System

In order to provide additional controls for limiting LFG migration, soil vapor extraction (SVE) wells will be installed in selected areas where gas migration is evident. The SVE wells will be installed in vertical borings drilled between the limits of waste and affected probes and corrective action groundwater monitoring wells. SVE well depths will be based on the depth of the adjacent probes. Each SVE well will be equipped with a wellhead similar to those installed on the LFG extraction wells. A typical detail for an SVE well can be found on Drawing 14A-7.



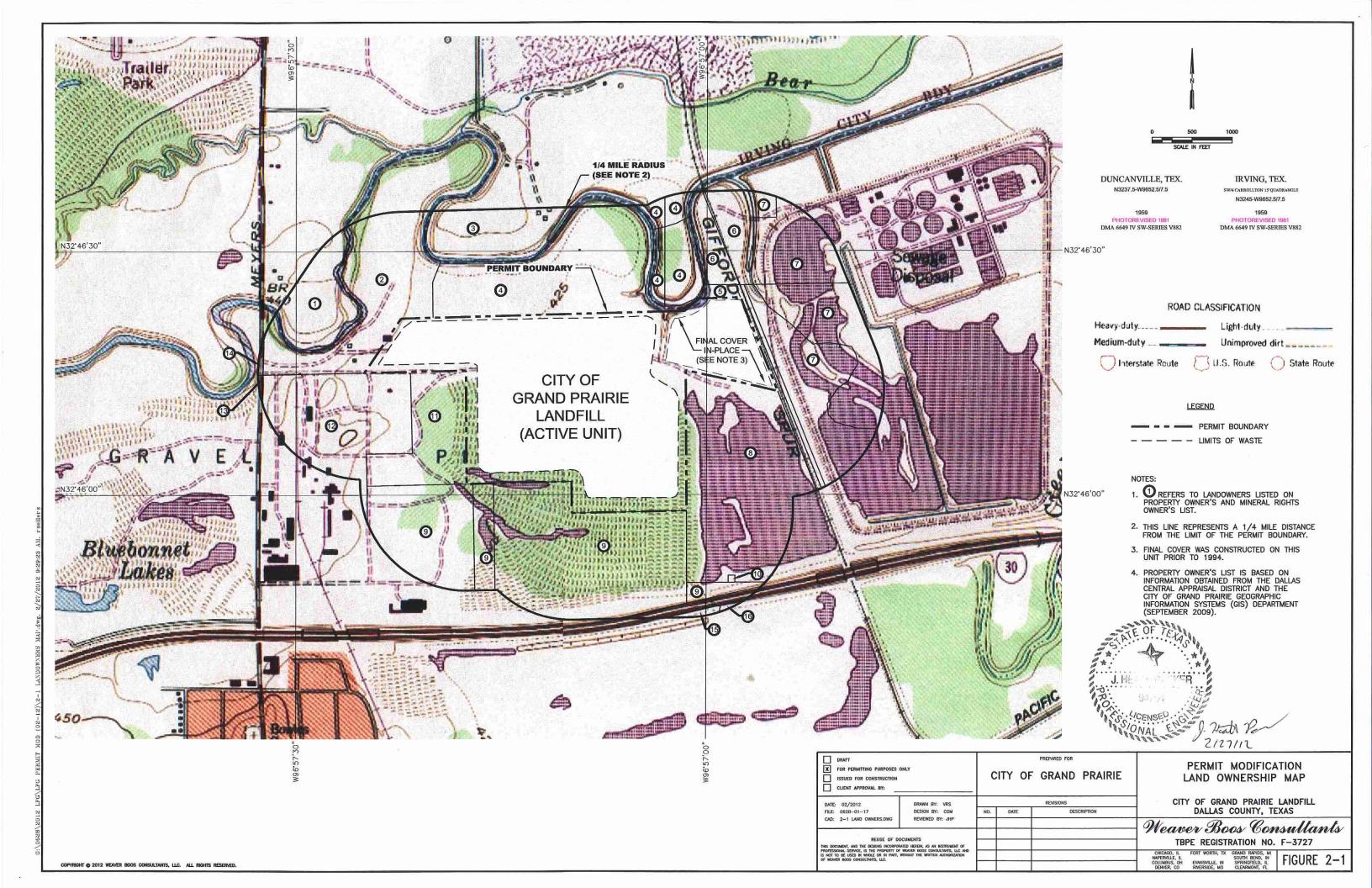


ATTACHMENT 2 LANDOWNERS LIST AND MAP

PROPERTY OWNERS AND MINERAL RIGHTS OWNER'S LIST*

| 1. | AL NAYEM INTERNATIONAL 2696 DOWDY FERRY RD DALLAS, TEXAS 75217-8635 | 9. | CORNERSTONE C & M INC C/O PROPERTY TAX DEPT 8505 FREEPORT PKWY STE 500 IRVING, TEXAS 75063-2591 |
|----|---|-----|--|
| 2. | BEAZER WEST INC PO BOX 190999 DALLAS, TEXAS 75219-0999 | 10. | CLEAR CHANNEL OUTDOOR INC 3700 E RANDOL MILL RD ARLINGTON, TEXAS 76011-5435 |
| 3. | PLATTNER HERMAN H ETAL SUITE 100-711 25 HIGHLAND PARK VLG DALLAS, TEXAS 75205-2789 | 11. | GIFFORD HILL AMER INC 1003 MACARTHUR BLVD GRAND PRAIRIE, TEXAS 75050-7943 |
| 4. | GRAND PRAIRIE CITY OF 317 COLLEGE ST GRAND PRAIRIE, TEXAS 75050-5636 | 12. | GIFFORD HILL AMER CO PO BOX 569470 DALLAS, TEXAS 75356-9470 |
| 5. | BEAZER WEST INC C/O LAND DEPT 2515 MCKINNEY AVE FL 10 DALLAS, TEXAS 75201-1908 | 13. | EQUITABLE INVESTMENTS INC C/O G L HARRIS 8320 MEADOWBROOK DR FORT WORTH, TEXAS 76120-5321 |
| 6. | TRINITY RIVER AUTHORITY OF TEXAS 5300 S COLLINS ST ARLINGTON, TEXAS 76018-1710 | 14. | GRIFFIN JULES P ET AL C/O DOROTHY DARBY 501 MURL DR IRVING, TEXAS 75062-8008 |
| 7. | TRINITY RIVER AUTHORITY PO BOX 60 ARLINGTON, TEXAS 76004-0060 | 15. | MACK INTERMEDIARY LLC PO BOX 2867 LONGVIEW, TEXAS 75606-2867 |
| 8. | W HALL REALTY DEV LLC C/O WALLACE L HALL JR 5956 SHERRY LN STE 1810 DALLAS, TEXAS 75225-8029 | 16. | SOUTH IH 30 LTD ATTN JAMES E SOWELL 1601 ELM ST STE 300 DALLAS, TEXAS 75201-7277 |

^{*} In accordance with 330.59(c)(3), the availability of mineral ownership beneath the facility has been investigated. Based on conversations with the Dallas Appraisal District, their records do not include mineral ownership.



ATTACHMENT 3 TCEQ PERMIT APPLICATION PART I FORM



Texas Commission on Environmental Quality

Permit or Registration Application for Municipal Solid Waste Facility

Part I

A. General Information

| Physical or Street Address (if available): | 1102 Macarthu | r Roulevard | | |
|--|----------------|-------------|----|-------|
| | 1 102 macai ma | Doulevalu | | |
| (City) (County)(State)(Zip Code): | Grand Prairie | Dallas | TX | 75053 |
| (Area Code) Telephone Number: | (972) 237-4550 |) | | • |
| Charter Number: | | | | |

| Operator Name | City of Grand Prairie | | |
|-------------------------------------|--------------------------|----|-------|
| Mailing Address: | 1102 Macarthur Boulevard | | |
| (City) (County)(State)(Zip Code): | Grand Prairie Dallas | TX | 75053 |
| (Area Code) Telephone Number: | (972) 237-4550 | | |
| (Area Code) FAX Number: | (817) 563-1224 | | |
| 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): | |
| (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: | Patricia Redfea | irn | | |
|-------------------------------------|-----------------|-------------|----|-------|
| Mailing Address: | 1102 Macarthu | r Boulevard | • | |
| (City) (County)(State)(Zip Code): | Grand Prairie | Dallas | TX | 75053 |
| (Area Code) Telephone Number: | (972) 237-8147 | , | | |
| (Area Code) FAX Number: | (817) 563-1224 | | | |

Application Type:

| rippilodilott Type. | | | |
|---------------------|-------------|---------------------|-------------------------------|
| Permit | | Major Amendment | Minor Amendment |
| Registration | \boxtimes | Modification | Temporary Authorization |
| | \boxtimes | w/Public Notice | |
| | | w/out Public Notice | Notice of Deficiency Response |

¹ 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: | | | | • |
|--|--|---|---|---|
| ☐ ☐ Type I | Type IV | Type V | | Type IX |
| Type I AE | Type IV AE | Type VI | | |
| | | | | |
| | application (check all that | | | |
| Storage | Processing | D | isposal | |
| Waste management unit | s covered by this applicat | tion (check all that apply) | | |
| Containers | Tanks | Surface | | Landfills |
| | September vi Antonio di Sentengero y Sentenbero di Sentenbero di Sentenbero di Sentenbero di Sentenbero di Sentenbero di Sentenbero di Sentenbero di | Impoundments | 50 30 30 30 30 30 30 | |
| Incinerators | Composting | Type IV | | Type IX |
| | | Demonstration | | Energy/Material |
| | | Unit | | Recovery |
| Other (Specify) | | Other (Specify) | | |
| Other (Specify) | | Other (Specify) | | |
| 33? ☐ Yes ☑ N If yes, state the other TC | io CEQ program authorizatio | ons requested | | |
| , | | | | |
| modifications, and temp permit or registration co Also, provide an expla requested. | on of the portion of the forary authorizations, proporting nation of why the ame | ovide a brief description documents referenced l indment, modification, o | of the by the r temp | exact changes to the permit or registration. orary authorization is |
| Management Plan (LGM collection and control s | ermit modification is to not make the properties of the properties | oposed expansion of the rmit modification is nece | facility | r's existing landfill gas |
| Does the application con | tain 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

Alternative Language Notice Application Form: Alternative language notice confirmation for this application: Is a bilingual program required by the Texas Education Code in the school district where 1. 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 ☐ YEŞ elementary school or the middle school nearest to the facility? (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 guestion 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? TYES NO (If Yes to questions 1 and 3, alternative language publication is required; If NO to question 3, then consider the next question) 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 (If Yes to guestions 1 and 4, alternative language publication is required; If NO to guestion 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 | Not Applicable court house, city hall, etc.): Mailing Address: (City) (County)(State)(Zip Code): (Area Code) Telephone Number:

the publication in the alternative language.

B. Facility Location (Not Applicable)

| modifications requiring public notice, prosite where the application and all revision | |
|---|---|
| http://www.gptx.org/index.aspx?page=12 | 4 |
| | |
| Local Government Jurisdiction: | |
| Within City Limits of: | |
| Within Extraterritorial Jurisdiction of City of | |
| which the governing body of the municip | olid waste disposal or processing facility located in an area in pality or county has prohibited the disposal or processing of ES, provide a copy of the ordinance or order): |
| Provide a description of the location of the | e facility with respect to known or easily identifiable |
| landmarks. | |
| Not Applicable | |
| | |
| Detail the access routes from the nearest | United States or state highway to the facility. |
| Not Applicable | |
| - | |
| Provide the latitudinal and longitudinal geog | graphic coordinates of the facility. |
| Latitude Congitude | |
| Elevation (above msl) | |
| Elevation (above mo) | |
| Is the facility within the Coastal Managem | nent Program boundary? |
| | |
| Texas Department of Transportation Distric | ······································ |
| 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 | |
| Agency Name | Not Applicable |
| Contact Person's Name: | 5.5 |
| 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: | 501 501 502 503 503 504 |
| (City) (County)(State)(Zip Code): | |
| (Area Code) Telephone Number: | |
| (Area Code) FAX Number: | |

| State Senator: | |
|---|--|
| District Number: | Not Applicable |
| State Senator's Name: | 5 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) |
| District Office Address: | |
| (City) (County)(State)(Zip Code): | CA MATERIAL TO THE CONTROL TO THE CO |
| (Area Code) Telephone Number: | |
| (Area Code) FAX Number: | 100 photos 100 photos 10 |
| Council of Government (COG) Information | on: |
| COG Name: | Not Applicable |
| COG Representative's Name: | And Andrews |
| COG Representative's Title: | |
| Street or P. O. Box: | The state of the s |
| (City) (County)(State)(Zip Code): | Company of the compan |
| (Area Code) Telephone Number: | THE STATE OF THE S |
| (Area Code) FAX Number: | FOR MANUAL PROPERTY OF THE PRO |
| 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): | 20 dys. d. 18 dys. d. 19 dys. d. |
| (Area Code) Telephone Number: | Statistics Control of the Control of |
| (Area Code) FAX Number: | |
| | |
| | rict of the U.S. Army Corps of Engineers: |
| Albuquerque, NM Ft. Worth, | TX Galveston, TX Tulsa, OK |
| | |

C. Maps (Not Applicable)

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 (Not Applicable)

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 (Not Applicable)

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.

| | | oration | | Partner | | | | etorship | | Non-Profit Organization |
|--|--|--|--|--|--|--------|-----------------------------------|---|---|--|
| Public [| Feder | al | | Militar | У | | State | | | Regional |
| County [|] Muni | cipal | | Other | | | | | | |
| | 11.11.11.11.11.11.11.11.11.11.11.11.11. | | | (Specif | у) | L | | | | |
| oes the operator | own the f | acility un | its an | d the fac | ility proj | oerty' | 7 🗌 | Yes [| No | |
| "No," for permits | | | | | | | | | | |
| hange in owner, o | | | | | | | lease fo | or the use | of or | the option to b |
| ne facility units or | facility pro | орепу, аз | s app | ropriate, | | | la. | ili | | |
| Owner Name: Street or P. O. Box | | | | | Not App | oncar | ne | | | |
| | | ` | | | | | | | | |
| City) (County)(St | | | | committee (committee) | | | | | | J |
| Area Code) Telep | and the property of the contract of the contra | nber | | | | | | | | |
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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 | Texas and federal final enforcement orders, cour |
|--|--|
| units owned or operated within past 5 | judgments, consent decrees, and criminal convictions |
| years | |
| Not Applicable | |
| | |
| | |

G. Appointments (Not Applicable)

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 | e-pay at www.tceq.state.tx.us/e-services/ |
|--|---|
| E-pay confirmation number | 582EA000117492 |

PROPERTY OWNER AFFIDAVIT (NOT APPLICABLE)

| "1, | |
|--|--|
| (property owner |) |
| acknowledge that the State of Texas may hold me eithe maintenance, and closure and post-closure care of the following closure, I acknowledge that I have a responsibility to file public advising that the land will be used for a solid was begins operating as a municipal solid waste landfill facility disposal operations and closure of the landfill units in active 3330.19, Deed Recordation. I further acknowledge that have access to the property during the active life and property the purpose of inspection and maintenance." | r jointly or severally responsible for the operation acility. For a facility where waste will remain afte with the county deed records an affidavit to the te facility prior to the time that the facility actually ty, and to file a final recording upon completion occordance with Title 30 Texas Administrative Code at I or the operator and the State of Texas sha |
| (Owner signature) | (Date) |

Signature Page

| I, Patricia Redfearn | , Solid Waste Manager, City of Grand Prairie . |
|--|---|
| (Operator) | (Title) |
| supervision in accordance with a system evaluate the information submitted. Bas system, or those persons directly respons to the best of my knowledge and belief, it | ment and all attachments were prepared under my direction or designed to assure that qualified personnel properly gather and sed on my inquiry of the person or persons who manage the sible for gathering the information, the information submitted is, true, accurate, and complete. I am aware there are significant including the possibility of fine and imprisonment for knowing |
| TO BE COMPLETED BY THE OPERATOR REPRESENTATIVE FOR THE OPERATOR | OR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED OR |
| 1 | hereby designate |
| (Print or Type Operator Name) | , hereby designate(Print or Type Representative Name) |
| Texas Commission on Environmental Qua Texas Solid Waste Disposal Act permit. I application, for oral statements given by | Commission; and/or appear for me at any hearing or before the ality in conjunction with this request for a Texas Water Code or further understand that I am responsible for the contents of this my authorized representative in support of the application, and litions of any permit which might be issued based upon this |
| P | rinted or Typed Name of Operator or Principal Executive Officer |
| | |
| | |
| | Signature |
| **** | |
| SUBSCRIBED AND SWORN to before me | |
| On this ZY day of Febru | ary 2012 |
| My commission expires on the | 3 day of mars, 2013 |
| P. RENEE WEINFUSS My Commission Expires March 3, 2013 | Notary Public in and for Tarrent County, Texas |
| (Note: Application Must Roar Signature & | Seal of Notary Dublic) |

ATTACHMENT 4 ATTACHMENT 14 REVISION PAGES (REDLINE/STRIKEOUT FORMAT)

CITY OF GRAND PRAIRIE LANDFILL DALLAS COUNTY, TEXAS TCEQ PERMIT APPLICATION NO. MSW-996C

PART III – SITE DEVELOPMENT PLAN ATTACHMENT 14 LANDFILL GAS MANAGEMENT PLAN

PERMIT MODIFICATIONS

Revised June 2009 Revised December 2009

Revised February 2012

Prepared by

Weaver Boos Consultants, LLC-Southwest

TBPE Registration No. F-3727 6420 Southwest Blvd., Suite 206 Fort Worth, Texas 76109 817-735-9770

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Weaver Boos Consultants, LLC-Southwest
TBPE Firm Registration No. F-3727
Rev. 0, 3/24/2006
Rev. 1, 3/27/2007
Rev. 2, 10/2/2009
Rev. 4, 02/27/2012
Attachment 14

6.2.4 2012 GCCS Expansion

The proposed 2012 GCCS Expansion includes the installation of seven additional LFG extraction wells, the abandonment and redrill of seven LFG extraction wells (EW-28, EW-29, EW-30, EW-31, EW-32, EW-49, and EW-50), and related piping as shown on Drawing 14A-6C.

6.3 GCCS Expansion for Vertical Expansion

The proposed vertical expansion for the City of Grand Prairie Landfill consists of an overlay of additional waste placed over a portion of the existing landfill footprint. As the expansion is developed, additional vertical wells will be incrementally installed to provide LFG collection and control from the additional waste materials. As the landfill develops and waste placement approaches the existing wells, the well will either be extended vertically, or the valve will be relocated horizontally to a location that is outside of the waste fill or the well will be redrilled after waste filling is completed. The locations of the proposed extraction wells are shown on Drawing 14A-2. The collection points will be connected to the existing GCCS for discharge to the existing LFG flare facility.

6.4 Future LFG Control Capacity

Using the EPA Landfill Gas Emissions Model, it is estimated that the site will generate a maximum of approximately 2,740 standard cubic feet per minute (scfm) of LFG (Appendix 14D). As such, additional collection and control equipment will be installed to provide the vacuum and capacity needed to handle the predicted maximum design flow rate of the GCCS. The City of Grand Prairie LFG flare currently operates under Standard Air Permit No. 43841 issued by the TCEQ in April 2000. Future expansions of the control equipment by the City of Grand Prairie Landfill, which may increase site emissions, will be performed following TCEQ approval of the appropriate air authorization.

6.5 GCCS Operation and Maintenance

The City of Grand Prairie Landfill currently has an NMOC emission rate of less than 50 megagrams per year. As such, the site is not currently subject to the EG requirements for the operation and maintenance of the GCCS. The City of Grand Prairie Landfill will however continue to follow current industry accepted guidelines and practices for the

system operation and maintenance, as well as any requirements stipulated under currently issued TCEQ air authorizations.

6.6 Soil Vapor Extraction System

In order to provide additional controls for limiting LFG migration, soil vapor extraction (SVE) wells will be installed in selected areas where gas migration is evident. The SVE wells will be installed in vertical borings drilled between the limits of waste and affected probes and corrective action groundwater monitoring wells. SVE well depths will be based on the depth of the adjacent probes. Each SVE well will be equipped with a wellhead similar to those installed on the LFG extraction wells. A typical detail for an SVE well can be found on Drawing 14A-7.