

**NEW BOSTON LANDFILL**

**APPENDIX III**

**ARK-TEX COUNCIL OF GOVERNMENTS DOCUMENTATION**

**NEW BOSTON LANDFILL**

**ARK-TEX COUNCIL OF GOVERNMENTS  
CONFORMANCE REVIEW REQUEST**



## **BIGGS & MATHEWS ENVIRONMENTAL**

*Consulting Engineers ♦ Hydrogeologists*

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Mansfield ♦ Wichita Falls

January 28, 2013

Mr. Paul Prange  
Environment and Development Planner  
ARK-TEX Council of Governments  
4808 Elizabeth Street  
Texarkana, Texas 75503

Re: Waste Management of Texas, Inc. (WMTX)  
New Boston Landfill, Bowie County, Texas  
Proposed Permit Amendment Application  
Review Request – Conformance with Regional Solid Waste Management Plan

Dear Mr. Prange:

On behalf of Waste Management of Texas, Inc. (WMTX), Biggs & Mathews Environmental is preparing a permit amendment application for an expansion of the existing New Boston Landfill, a 97-acre Type I municipal solid waste disposal facility located in Bowie County. The New Boston Landfill is owned and operated by WMTX and currently provides waste disposal capacity for residences and businesses of Bowie, Cass, Marion, Morris, Red River, and Titus Counties in Texas and Miller County in Arkansas.

In accordance with 30 TAC §330.61(p), we are requesting documentation from the ARK-TEX Council of Governments (ATCOG) indicating that the proposed New Boston Landfill expansion conforms with the ATCOG Regional Solid Waste Management Plan.

Our understanding is that the ATCOG conformance review process requires the submittal of the conformance review request prior to the target Regional Solid Waste Advisory Committee Meeting. We request that the conformance review for this facility be conducted at your next planned committee meeting. We would like to have the proposed landfill expansion for the New Boston Landfill to be placed on the February 2013 ATCOG Board of Directors Meeting.

Attached to the letter is a summary of the proposed landfill expansion and discussion of how the proposed landfill expansion is consistent with the ATCOG Regional Solid Waste Management Plan.

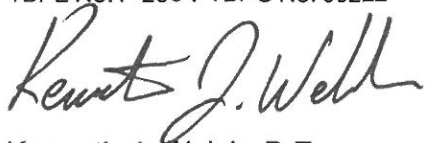
As we have discussed, we would like to attend and present our proposed New Boston Landfill expansion at your next scheduled committee meeting.

Mr. Paul Prange  
January 28, 2013  
Page 2

Please call or e-mail me at 817-563-1144 or [kwelch@biggsandmathews.com](mailto:kwelch@biggsandmathews.com) if you have any questions or need additional information. We look forward to your response.

Sincerely,

BIGGS & MATHEWS ENVIRONMENTAL  
TBPE No. F-256 ♦ TBPG No. 50222



Kenneth J. Welch, P.E.  
Principal Engineer

Attachments: Conformance Review Request for Proposed Landfill Expansion

cc: Mr. Guy Campbell, WMTX  
Mr. Ed Reavis, WMTX  
Mr. David Williams, P.E., MTG Engineers

**NEW BOSTON LANDFILL  
CITY OF NEW BOSTON  
BOWIE COUNTY, TEXAS  
TCEQ PERMIT NO. MSW 576C**

**CONFORMANCE REVIEW REQUEST FOR  
PROPOSED LANDFILL EXPANSION**

Prepared for

**Waste Management of Texas, Inc.**

January 2013



Prepared by

**BIGGS & MATHEWS ENVIRONMENTAL**

1700 Robert Road, Suite 100 • Mansfield, Texas 76063 • 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS  
FIRM REGISTRATION No. F-256

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS  
FIRM REGISTRATION No. 50222

# CONTENTS

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1	INTRODUCTION .....	1
2	PROPOSED LANDFILL EXPANSION .....	2
3	WASTE ACCEPTANCE PLAN .....	4
	3.1 Properties and Characteristics of Waste .....	4
	3.2 Volume and Rate of Disposal .....	4
4	STORAGE AND TRANSFER UNITS .....	5
	4.1 Large Item Storage .....	5
	4.2 Reusable Materials Staging Area .....	5
	4.3 Citizen's Convenience Area .....	5
5	CONCLUSION .....	6

## DRAWINGS



1/28/2013

# 1 INTRODUCTION

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The New Boston Landfill is an existing 97.1-acre Type I municipal solid waste disposal facility (Permit No. MSW 576B), owned and operated by Waste Management of Texas, Inc. (WMTX). The New Boston Landfill is located in Bowie County, approximately 1,500 feet east of the intersection of Interstate Highway 30 (IH-30) and U.S. Highway 82 (US 82).

The New Boston Landfill was originally opened and operated by the City of New Boston in 1968. The New Boston Landfill was permitted by the State of Texas June 27, 1983 as Permit No. MSW 576. The facility was upgraded to Subtitle D standards February 6, 1995. Vertical expansion of the New Boston Landfill was permitted on April 24, 1996 as Permit No. MSW 576A. The landfill permit boundary was expanded from 94.6 acres to a total of 97.1 (97) acres, and the waste disposal footprint to a total of 53.9 (54) acres, via Permit No. MSW 576B, which was issued on December 12, 2002. The New Boston Landfill is currently operating under the 2002 permit requirements and any subsequent modifications or authorizations.

WMTX is submitting a permit amendment application to the Texas Commission on Environmental Quality (TCEQ) for expansion of the New Boston Landfill. The proposed expansion will incorporate property owned by WMTX located to the east of the existing landfill.

The purpose of this submittal to the ARK-TEX Council of Governments (ATCOG) is to provide documentation that the proposed expansion of the New Boston Landfill conforms with the ATCOG Regional Solid Waste Management Plan.

Drawing 1 – Detailed Highway Map Bowie County Texas, Drawing 2 – General Topographic Map and Drawing 3 – Aerial Photograph show the location of the New Boston Landfill, the expansion property, and the surrounding area within a one-mile radius of the landfill.

## 2 PROPOSED LANDFILL EXPANSION

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The existing permitted New Boston Landfill consists of a permit boundary of about 97 acres. The area within the permit boundary consists of a total of 53.9 acres of permitted waste disposal footprint and a total of 43.2 acres of non-waste disposal areas. Locations outside the permitted waste disposal areas are used for buffer distance between waste disposal areas and the permit boundary, entrance facilities, leachate storage facilities, maintenance facilities and access roads.

The proposed expansion of the New Boston Landfill will add 234.8-acres to the area within the facility's permit boundary. The expansion will add a 64.4-acre Type I MSW landfill unit (North Disposal Area), and a 14.2-acre Type IV MSW landfill unit (South Disposal Area). The elevation of deepest excavation within the expanded facility will be 330 feet msl (North Disposal Area). The maximum final contour elevation of the expanded facility will remain 525 feet msl (West Disposal Area). The proposed landfill expansion will result in a remaining waste disposal capacity of approximately 11,884,000 cubic yards of waste and daily/intermediate cover, or approximately 6,536,200 tons of waste capacity. The landfill expansion will add approximately 34 years to the remaining site life.

Many of the ATCOG's and Regional Solid Waste Management Plan's goals and objectives are met with this expansion including, but not limited to, fully utilizing existing facilities, promoting the maximum development of integrated, convenient collection systems, and promoting recycling and public education.

Drawing 4 – General Site Plan, Drawing 5 – Existing Landfill Development, and Drawing 6 – Proposed Landfill Development show the existing and proposed final buildout condition of the New Boston Landfill. As shown, the existing site entrance road will continue to be used as part of the proposed expansion project.

The following table provides a summary of the current permit conditions and proposed permit conditions:



**PERMIT CONDITION SUMMARY**

	<b>Current Condition (576B)</b>	<b>Proposed Condition (576C)</b>
<b>Permitted Area</b>	97.1 ac	331.9 ac
<b>Waste Disposal Unit Area</b>		
West Disposal Area	53.9 ac	53.9 ac
North Disposal Area		64.4 ac
South Disposal Area		14.2 ac
<b>Waste Disposal Unit Area Total</b>	53.9 ac	132.5 ac
<b>Buffer/Other Areas</b>	43.2 ac	199.4 ac
<b>Total Remaining Capacity</b>		
West Disposal Area	1,550,000 cy	1,550,000 cy
North Disposal Area		9,208,000 cy
South Disposal Area		1,126,000 cy
<b>Total Remaining Capacity</b>	1,550,000	11,884,000 cy
<b>Remaining Projected Site Life</b>	6 years	40 years
<b>Maximum Elevation of Final Cover (msl)</b>		
West Disposal Area	525 ft	525 ft
North Disposal Area		493 ft
South Disposal Area		444 ft
<b>Elevation of Deepest Excavation (msl)</b>		
West Disposal Area	335 ft	335 ft
North Disposal Area		330 ft
South Disposal Area		340 ft

### **3 WASTE ACCEPTANCE PLAN**

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#### **3.1 Properties and Characteristics of Waste**

The major classifications of solid waste to be accepted at the New Boston Landfill include municipal solid waste, special waste in accordance with §330.171, and Class 2 and 3 industrial wastes in accordance with §330.173. Included among these are wastes resulting from or incidental to municipal, community, commercial, institutional and recreational activities, including putrescible wastes, rubbish, ashes, brush, construction-demolition debris, and inert material. Regulated asbestos containing material (RACM) and non-regulated asbestos containing material (non-RACM) will be accepted for disposal.

The facility has not in the past accepted, and will not accept, Class 1 industrial solid waste, except RACM that has been designated Class 1 industrial waste only because of its asbestos content. There are no existing Class 1 cells at the facility.

Consistent with §330.15, the facility will not accept for disposal lead acid storage batteries; used motor vehicle oil; used oil filters; whole used or scrap tires; refrigerators, freezers, air conditioners or other items containing chlorinated fluorocarbon (CFC); bulk or noncontainerized liquid waste from nonhousehold sources; regulated hazardous waste; polychlorinated biphenyls (PCB) waste; radioactive materials or other wastes prohibited by TCEQ regulations.

#### **3.2 Volume and Rate of Disposal**

The New Boston Landfill serves individuals, businesses, and communities in Bowie, Cass, Marion, Morris, Red River, and Titus Counties in Texas and Miller County in Arkansas. The landfill received an average of approximately 151,600 tons of incoming waste per year (approximately 486 tons per day) from 2006 to 2012. WMTX anticipates that in 2013 the landfill will receive approximately 150,600 tons of incoming waste (approximately 486 tons per day). Based on projected waste acceptance rates, the estimated maximum waste acceptance rate will reach 177,000 tons per year or about 568 tons per day. The waste acceptance rate will vary over the life of the facility depending on market conditions.

## **4 STORAGE AND TRANSFER UNITS**

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The storage and transfer units will be designed to promote recycling and waste diversion efforts by conserving landfill airspace and assuring capacity for solid waste through rapid processing and minimum detention of solid waste at the landfill. The storage and transfer units include the large item storage area, reusable materials staging area, and citizen's convenience area.

### **4.1 Large Item Storage**

A storage area for large items and white goods may be provided near the active working face or may be provided near the citizen's convenience area. Large items and white goods include ovens, dishwashers, freezers, air conditioners, and other large items. Any rainfall runoff or runoff near the active working face will be contained within the active area and handled as contaminated water. The large items and white goods are transferred into steel roll-off containers for storing until transport to an off-site recycler. The roll-offs will be covered with tarps to prevent rainfall from accumulating inside the containers.

### **4.2 Reusable Materials Staging Area**

Inert materials such as brick, concrete, etc., and non-inert materials such as asphalt and shingles, are often received and staged at the facility for use as roadbase materials for facility access roads and staging areas, or erosion control in drainage structures. Asphalt will not be used for erosion control in drainage structures. Shingles will be used as allowed by TCEQ. The reusable materials staging area will be located above existing lined areas and will be relocated periodically as the active working face moves. The size of the stockpiles may vary depending on the amount of materials received at any given time. Since brick and concrete materials are inert, runoff and runoff from rainfall will not be controlled in a special manner for these materials. Since asphalt and shingles are not inert materials, they will be managed in a manner that will prevent runoff of contaminated water, discharge of waste and creation of nuisance conditions. Since these inert and non-inert materials will continuously be reused for site operations, there is no time limit on the storage of these materials.

### **4.3 Citizen's Convenience Area**

A citizen's convenience area for waste drop-off is located within the site entrance facilities. Thirty to forty cubic yard roll-off containers as well as containers for recycled goods will be provided. Roll-off containers will be emptied at the active working face or covered with a tarp at the end of each day. Recycle containers will periodically be transported to an appropriate recycling facility. Large items and white goods may be stored at the citizen's convenience area in accordance with Section 4.1.

## 5 CONCLUSION

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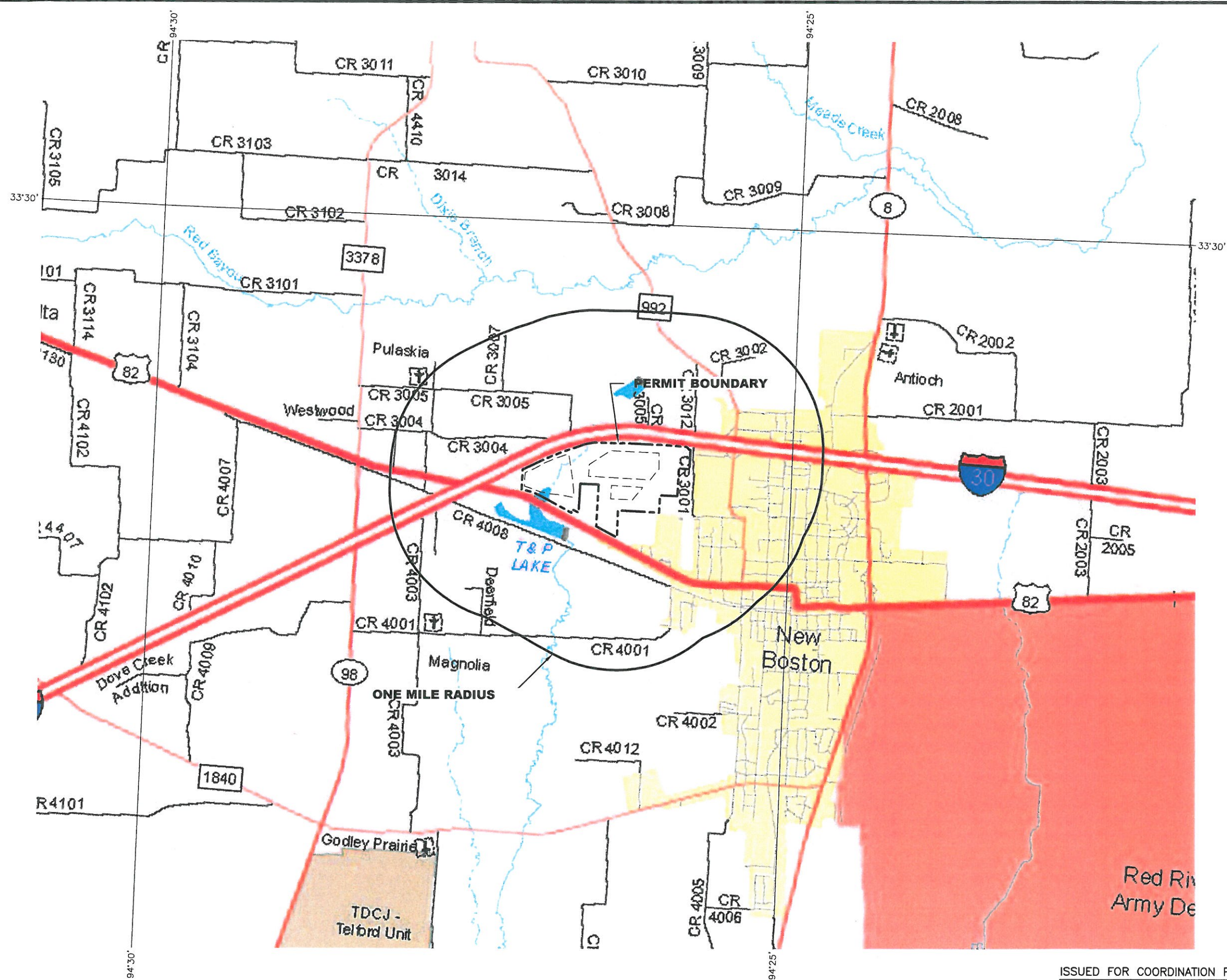
The expansion of the New Boston Landfill directly supports the goals and objectives of the ATCOG and conforms with the Regional Solid Waste Management Plan. As an established landfill, expansion of the New Boston Landfill provides an opportunity to provide integrated, convenient, local MSW disposal and is consistent with the region's goal to utilize existing facilities to the extent environmentally and economically feasible.

The New Boston Landfill expansion supports the region's goals to reduce generation of solid waste and illegal dumping. The inclusion of the facilities listed in Section 4, for example, a citizen's collection center, promote recycling efforts. In addition, Waste Management and the New Boston Landfill assist with meeting the goals to provide public education and promote awareness via distribution of educational materials, participation in community clean-up efforts, and support of efforts to increase enforcement against illegal dumping.

This submittal demonstrates that the expansion of the existing New Boston Landfill has incorporated various goals and objectives of the ATCOG and its Regional Solid Waste Management Plan into the design and permitting process.

## DRAWINGS

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- LEGEND**
- - - PERMIT BOUNDARY
  - - - LANDFILL FOOTPRINT
  - ONE MILE RADIUS
  - IH, BI
  - US, BU, UA, UP
  - SH, BS
  - SL, SS, PR
  - FM, BF, RM, RR, RE, RS, PA
  - County Road
  - City Street or other Non-County Maintained Road
  - Railroad
  - Incorporated City
  - Unincorporated Community
  - ✈ Airport
  - ✈ Airport Runway
  - School
  - Military Installation
  - Prison
  - National or State Park
  - National or State Forest
  - Other Public Land
  - Cemetery
  - Dam
  - County Line
  - District Line
  - Canal
  - Flowing Stream
  - Intermittent Stream
  - River
  - Gulf Intracoastal Waterway
  - Other Body of Water

**NOTE:**

1. GENERAL HIGHWAY MAP DOWNLOADED FROM TxDOT WEBSITE AS PART OF THE COUNTY MAPBOOK 2010 ON MARCH 1, 2012.



**DETAILED HIGHWAY MAP  
BOWIE COUNTY, TEXAS**

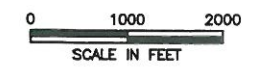
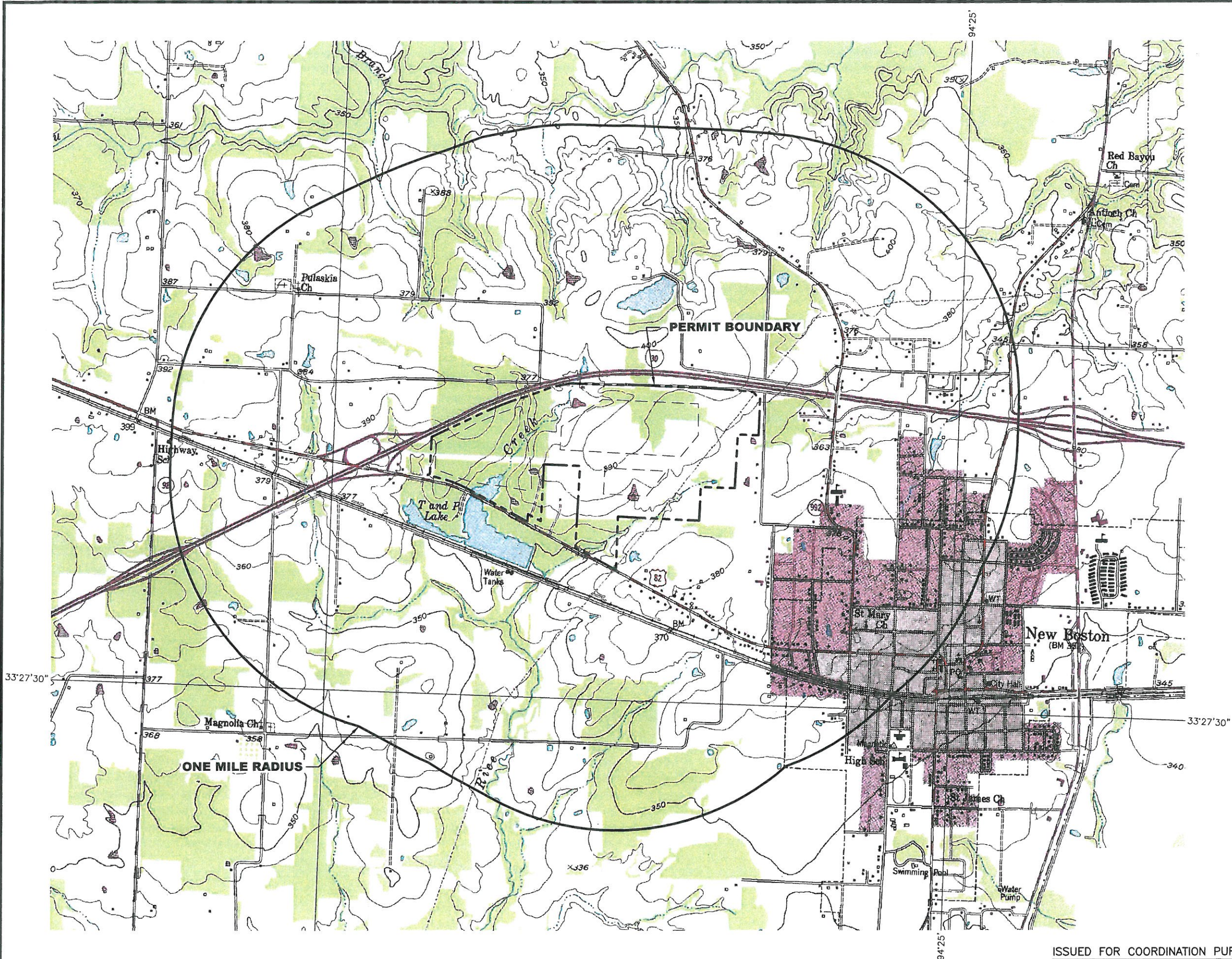
**WASTE MANAGEMENT OF TEXAS, INC.  
NEW BOSTON LANDFILL  
PERMIT AMENDMENT APPLICATION**

**BIGGS & MATHEWS  
ENVIRONMENTAL  
CONSULTING ENGINEERS  
MANSFIELD  
DALLAS • WICHITA FALLS  
817-563-1144**

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REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222	DRAWING
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	1	1
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							DWN. SRC	SCALE : GRAPHIC
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- LEGEND**
- PROPERTY BOUNDARY
  - - - LANDFILL FOOTPRINT
  - ONE MILE RADIUS

**NEW BOSTON, TEX.**  
 33094-D4-TF-024  
 PHOTOINSPECTED 1975  
 1954  
 PHOTOREVISED 1970  
 DMA 7150 IV NW-SERIES V882

- ROAD CLASSIFICATION**
- Heavy-duty ———
  - Medium-duty ———
  - Light-duty ———
  - Unimproved dirt - - - - -
  - Interstate Route
  - U. S. Route
  - State Route

**NOTE:**  
 1. TOPOGRAPHIC BASE MAP DOWNLOADED FROM USGS WEBSITE ON MARCH 1, 2012.



**GENERAL TOPOGRAPHIC MAP**  
**WASTE MANAGEMENT OF TEXAS, INC.**  
**NEW BOSTON LANDFILL**  
**PERMIT AMENDMENT APPLICATION**



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 CONSULTING ENGINEERS  
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REVISIONS				DSN. KJW	DATE : 01/13	TBPE FIRM NO. F-256	TBPG FIRM NO. 50222	DRAWING <b>2</b>
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**LEGEND**

- PERMIT BOUNDARY
- LANDFILL FOOTPRINT
- ONE MILE RADIUS

**NOTES:**

1. AERIAL PHOTOGRAPH PROVIDED BY AERO-METRIC FROM AERIAL PHOTOGRAPHY FLOWN MARCH 5, 2012.



**AERIAL PHOTOGRAPH**

**WASTE MANAGEMENT OF TEXAS, INC.  
NEW BOSTON LANDFILL  
PERMIT AMENDMENT APPLICATION**

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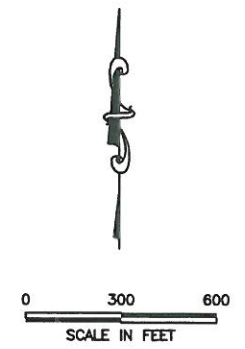
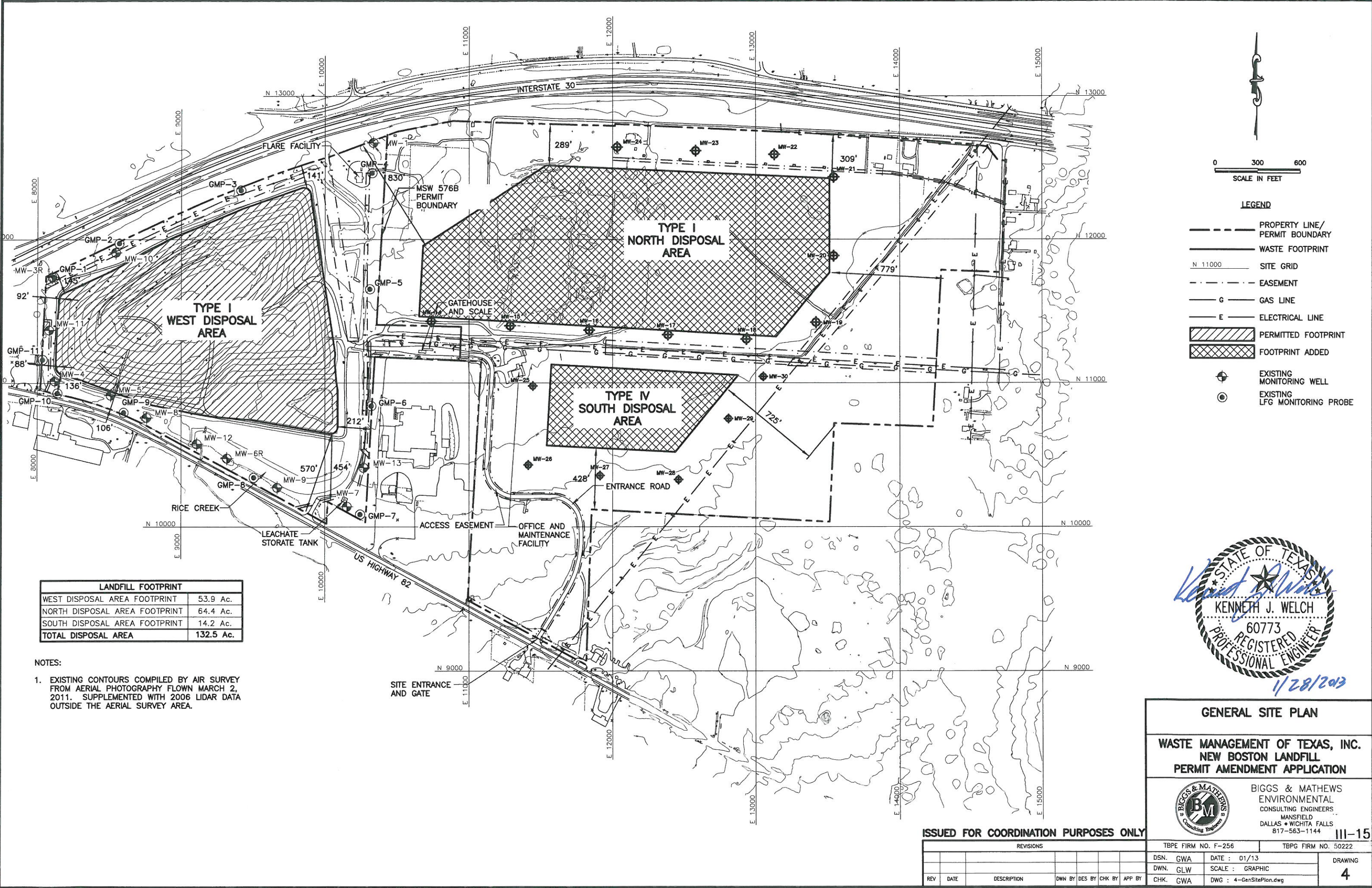
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- LEGEND**
- PROPERTY LINE/ PERMIT BOUNDARY
  - WASTE FOOTPRINT
  - N 11000 SITE GRID
  - - - EASEMENT
  - G GAS LINE
  - E ELECTRICAL LINE
  - ▨ PERMITTED FOOTPRINT
  - ▩ FOOTPRINT ADDED
  - ⊕ EXISTING MONITORING WELL
  - ⊙ EXISTING LFG MONITORING PROBE


LANDFILL FOOTPRINT	
WEST DISPOSAL AREA FOOTPRINT	53.9 Ac.
NORTH DISPOSAL AREA FOOTPRINT	64.4 Ac.
SOUTH DISPOSAL AREA FOOTPRINT	14.2 Ac.
<b>TOTAL DISPOSAL AREA</b>	<b>132.5 Ac.</b>

- NOTES:**
- EXISTING CONTOURS COMPILED BY AIR SURVEY FROM AERIAL PHOTOGRAPHY FLOWN MARCH 2, 2011. SUPPLEMENTED WITH 2006 LIDAR DATA OUTSIDE THE AERIAL SURVEY AREA.



**GENERAL SITE PLAN**

**WASTE MANAGEMENT OF TEXAS, INC.  
NEW BOSTON LANDFILL  
PERMIT AMENDMENT APPLICATION**

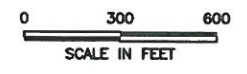
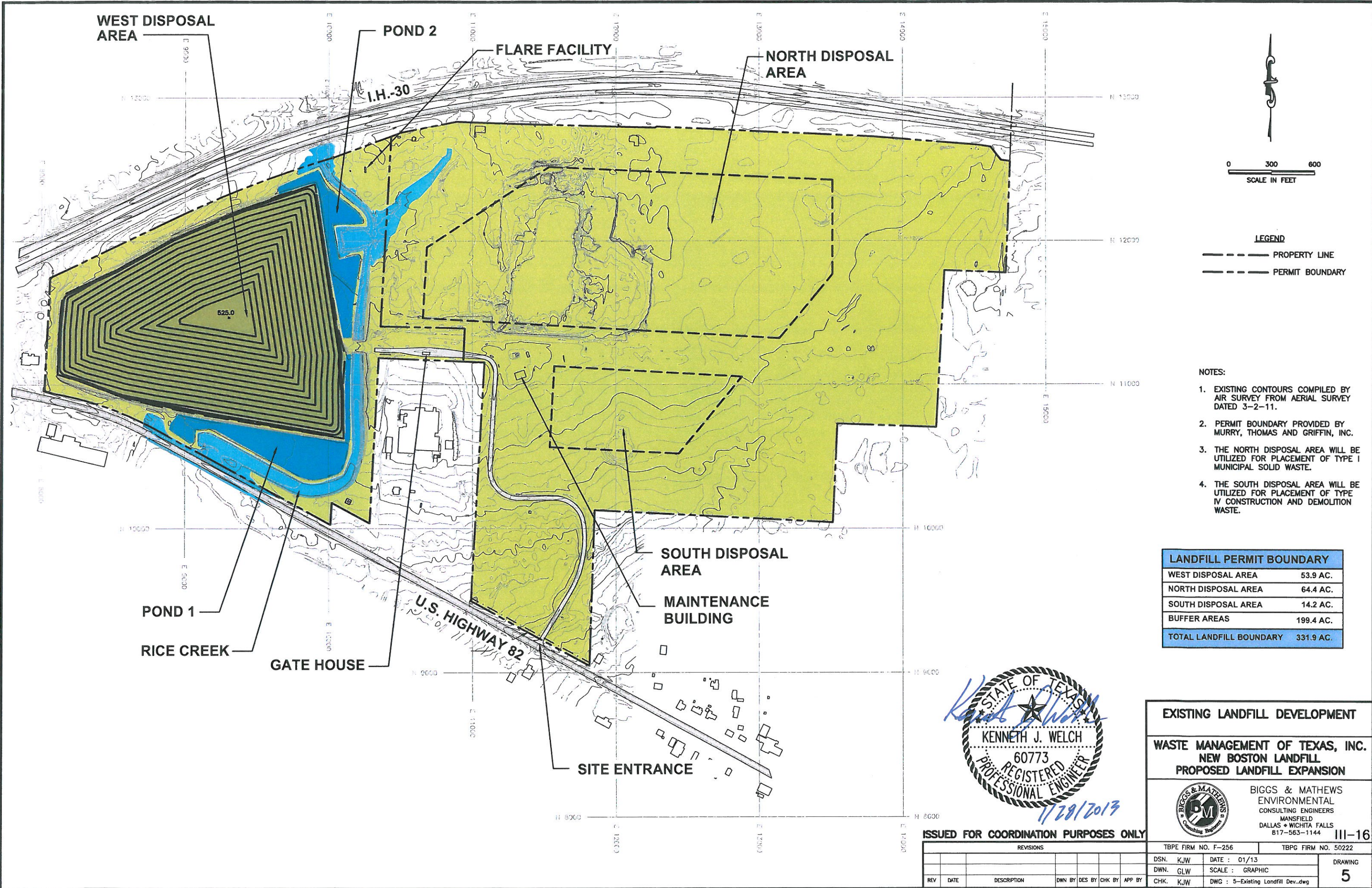


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REVISIONS		TSPE FIRM NO. F-256	TBPG FIRM NO. 50222
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DWN. GLW	SCALE : GRAPHIC	4	
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**LEGEND**

- PROPERTY LINE
- PERMIT BOUNDARY

**NOTES:**

1. EXISTING CONTOURS COMPILED BY AIR SURVEY FROM AERIAL SURVEY DATED 3-2-11.
2. PERMIT BOUNDARY PROVIDED BY MURRY, THOMAS AND GRIFFIN, INC.
3. THE NORTH DISPOSAL AREA WILL BE UTILIZED FOR PLACEMENT OF TYPE I MUNICIPAL SOLID WASTE.
4. THE SOUTH DISPOSAL AREA WILL BE UTILIZED FOR PLACEMENT OF TYPE IV CONSTRUCTION AND DEMOLITION WASTE.

LANDFILL PERMIT BOUNDARY	
WEST DISPOSAL AREA	53.9 AC.
NORTH DISPOSAL AREA	64.4 AC.
SOUTH DISPOSAL AREA	14.2 AC.
BUFFER AREAS	199.4 AC.
<b>TOTAL LANDFILL BOUNDARY</b>	<b>331.9 AC.</b>



**EXISTING LANDFILL DEVELOPMENT**  
**WASTE MANAGEMENT OF TEXAS, INC.**  
**NEW BOSTON LANDFILL**  
**PROPOSED LANDFILL EXPANSION**



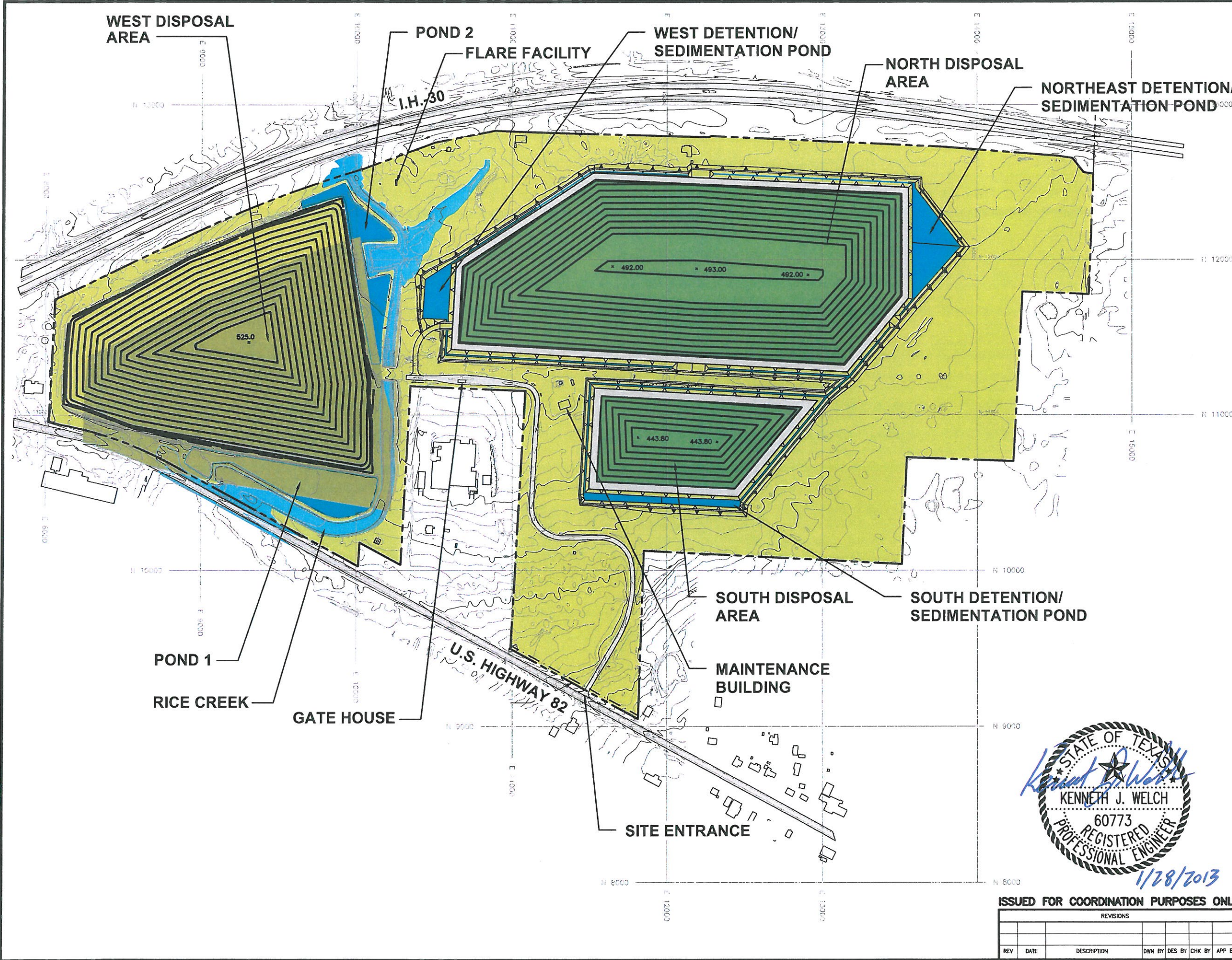
**BIGGS & MATHEWS**  
**ENVIRONMENTAL**  
**CONSULTING ENGINEERS**  
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 817-563-1144

III-16

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REVISIONS						TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
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							GLW	SCALE :	
							KJW	DWG :	5-Existing Landfill Dev.dwg

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**LEGEND**  
 - - - - - PROPERTY LINE  
 - - - - - PERMIT BOUNDARY

- NOTES:**
1. EXISTING CONTOURS COMPILED BY AIR SURVEY FROM AERIAL SURVEY DATED 3-2-11.
  2. PERMIT BOUNDARY PROVIDED BY MURRY, THOMAS AND GRIFFIN, INC.
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**PROPOSED LANDFILL DEVELOPMENT**  
**WASTE MANAGEMENT OF TEXAS, INC.**  
**NEW BOSTON LANDFILL**  
**PROPOSED LANDFILL EXPANSION**

**BIGGS & MATHEWS**  
 ENVIRONMENTAL  
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REVISIONS							TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
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III-17  
 DRAWING  
**6**

**ARK-TEX COUNCIL OF GOVERNMENTS  
RESOLUTION LETTER**

RESOLUTION NO. EC13-009

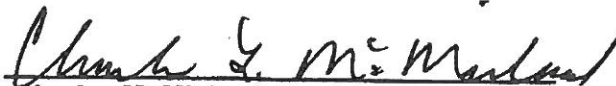
**RESOLUTION OF THE ARK-TEX COUNCIL OF GOVERNMENTS WITH REVIEW AND COMMENT ON THE PROPOSED EXPANSION OF THE MUNICIPAL SOLID WASTE LANDFILL OWNED AND OPERATED BY WASTE MANAGEMENT IN NEW BOSTON, BOWIE COUNTY, TEXAS.**

**WHEREAS**, it is desirable and in the public interest that certain development plans be reviewed by the Ark-Tex Council of Governments for their consistency with the overall development of the Region.


**NOW, THEREFORE, BE IT RESOLVED BY THE ARK-TEX COUNCIL OF GOVERNMENTS:**

- Section 1 - That the Board of Directors recognizes the Executive Director as the Authorized Official, and he has been given the power to comment upon projects having an environmental impact.
- Section 2 - That the request for approval of this Type I Municipal Solid Waste Landfill by Waste Management to the Solid Waste Advisory Committee (SWAC) has been accepted by the SWAC at the meeting on February 13, 2013 for recommendation of Board approval.
- Section 3 - That the above mentioned approval is desirable and necessary. The proposed expansion of the Type I Municipal Solid Waste Landfill will be economically beneficial for the Region, and therefore is being supported by the Ark-Tex Council of Governments Board of Directors.
- Section 4 - That this Resolution shall be effective immediately upon approval.

**REVIEWED AND APPROVED THIS 28<sup>TH</sup> DAY OF FEBRUARY, 2013.**

  
Charles McMichael, President  
Ark-Tex Council of Governments

**ATTEST:**



**ARK-TEX COUNCIL OF GOVERNMENTS  
REVIEW REQUEST LETTER**



## **BIGGS & MATHEWS ENVIRONMENTAL**

*Consulting Engineers • Hydrogeologists*

Mansfield • Wichita Falls

July 17, 2013

Mr. Paul Prange  
Environmental Resources Planner  
Ark-Tex Council of Governments  
4808 Elizabeth Street  
Texarkana, TX 75503

Re: Waste Management of Texas, Inc. (WMTX)  
New Boston Landfill, Bowie County, Texas  
Proposed Permit Amendment Application  
Review Request – Conformance with Regional Solid Waste Management Plan

Dear Mr. Prange:

On behalf of Waste Management of Texas, Inc. (WMTX), Biggs and Mathews Environmental (BME) has prepared a permit amendment application for expansion of the existing New Boston Landfill.

The proposed landfill expansion is located on U.S. Highway 82 about 1,500 feet east of the intersection of U.S. Highway 82 and Interstate Highway 30 in Bowie County, Texas. The proposed waste disposal footprint boundary will encompass about 132 acres out of the approximate 332-acre proposed permit boundary.

The Ark-Tex Council of Government, Board of Directors reviewed and approved the proposed landfill expansion February 28, 2013.

In accordance with 30 TAC §330.61(p), we have enclosed Parts I and II (Volume 1) of the permit amendment application for your review.

If you have any questions or require additional information, please contact me at 817-563-1144 or by e-mail at [kwelch@biggsandmathews.com](mailto:kwelch@biggsandmathews.com)

Sincerely,

BIGGS & MATHEWS ENVIRONMENTAL  
TBPE No. F-256 • TBPG No. 50222

Kenneth J. Welch, P.E.  
Principal Engineer

Attachments: Parts I & II of New Boston Landfill Permit Application

cc: Mr. Donald J. Smith, Waste Management of Texas (1)  
Mr. Guy Campbell, Waste Management of Texas (1)