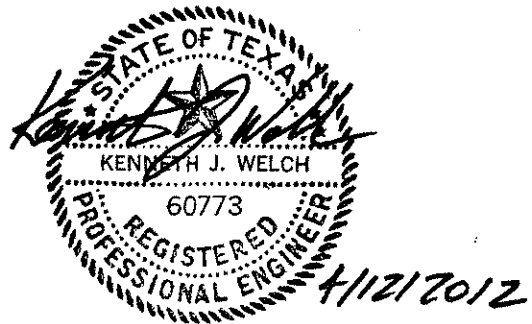


**SKYLINE LANDFILL**  
**ATTACHMENT C2**  
**APPENDIX C2-A**  
**100-YEAR FLOODPLAIN ANALYSIS**



Includes pages C2-A-1 through C2-A-10

## CONTENTS

---

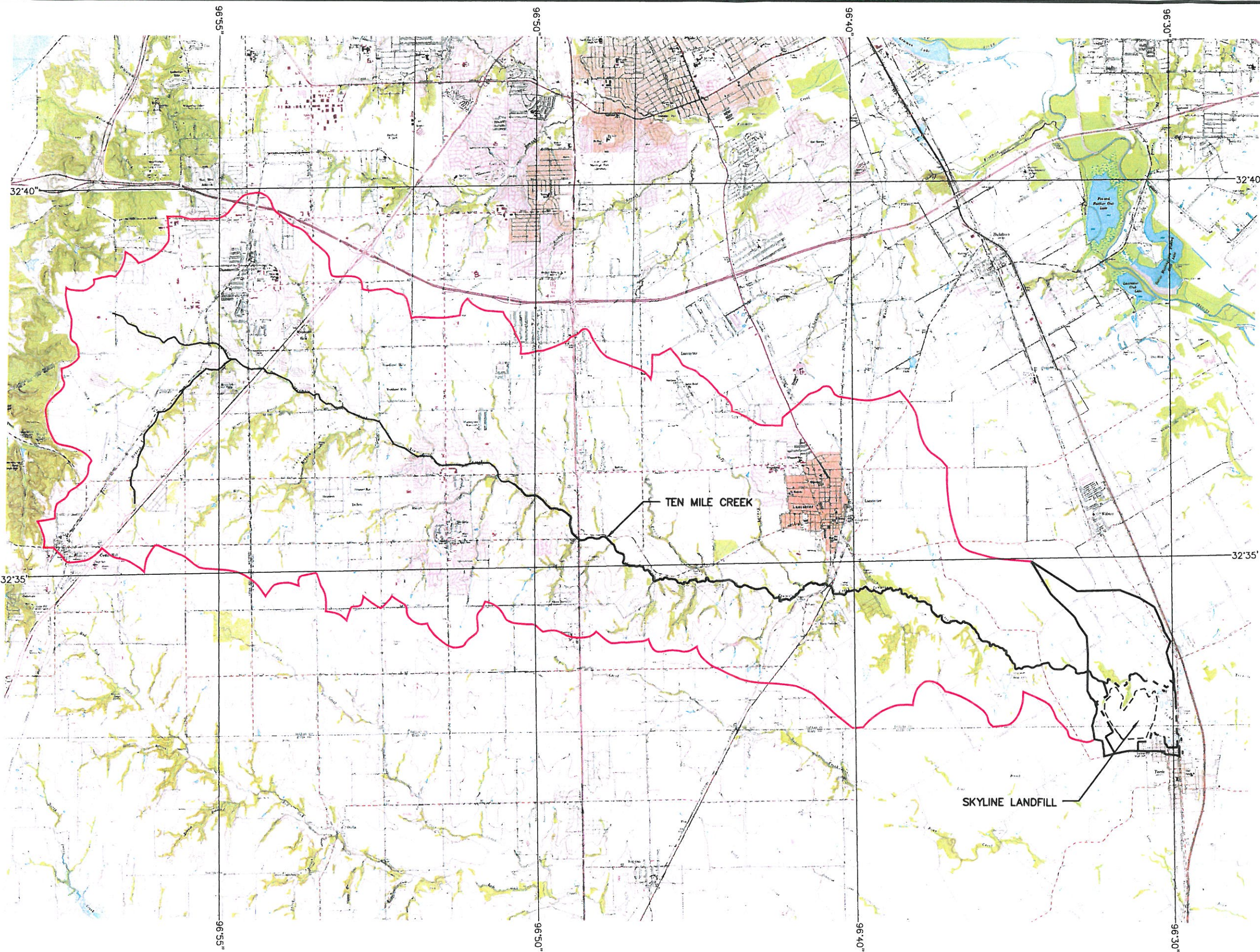
Regional Drainage Area Map .....	C2-A-1
100-Year Floodplain Flood Insurance Rate Map (FIRM) .....	C2-A-2
100-Year Floodplain Map Current Permitted .....	C2-A-3
100-Year Floodplain Map Postdeveloped.....	C2-A-4
Current Permitted Flood Stage Analysis Summary .....	C2-A-5
Postdeveloped Flood Stage Analysis Summary .....	C2-A-6
Current Permitted/Postdevelopment 25-Year Flood Stage Analysis Summary Table .....	C2-A-7
Current Permitted/Postdevelopment 100-Year Flood Stage Analysis Summary Table .....	C2-A-8
Ten Mile Creek Cross Section 2.269 – Current Permitted and Postdeveloped.....	C2-A-9
Ten Mile Creek Cross Section 0.381 – Current Permitted and Postdeveloped.....	C2-A-10



4/12/2012



J:\101\01\120\ATT C\C2\_A\_1.dwg Layout: Layout1 User: bboles



**LEGEND**

- PERMIT BOUNDARY
- - - PERMITTED LIMIT OF WASTE

- |   |  |
|---|--|
| <b>CEDAR HILL, TEX.</b><br>32096-E8-TF-024<br>1959<br>PHOTOREVISED 1981<br>DMA 6649 III SW-SERIES V882                                | <b>DUNCANVILLE, TEX.</b><br>N3237.5-W9652.5/7.5<br>1959<br>PHOTOREVISED 1981<br>DMA 6649 III NW-SERIES V882  |
| <b>FERRIS, TEX.</b><br>SW/4 SEAGOVILLE 15' QUADRANGLE<br>N3230-W9637.5/7.5<br>1959<br>PHOTOREVISED 1981<br>AMS 6649 II SW-SERIES V882 | <b>HUTCHINS, TEX.</b><br>32096-F6-TF-024<br>1958<br>PHOTOREVISED 1968 AND 1973<br>DMA 6649 II NW-SERIES V882 |
| <b>LANCASTER, TEX.</b><br>32096-E7-TF-024<br>1959<br>PHOTOREVISED 1981<br>DMA 6649 III SE-SERIES V882                                 | <b>OAK CLIFF, TEX.</b><br>N3237.5-W9645/7.5<br>1958<br>PHOTOREVISED 1981<br>DMA 6645 III NE-SERIES V882      |

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



**REGIONAL DRAINAGE MAP**

**WASTE MANAGEMENT OF TEXAS, INC.**  
**SKYLINE LANDFILL**  
**MAJOR PERMIT AMENDMENT**



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

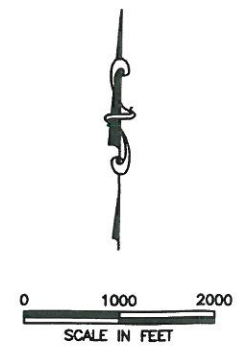
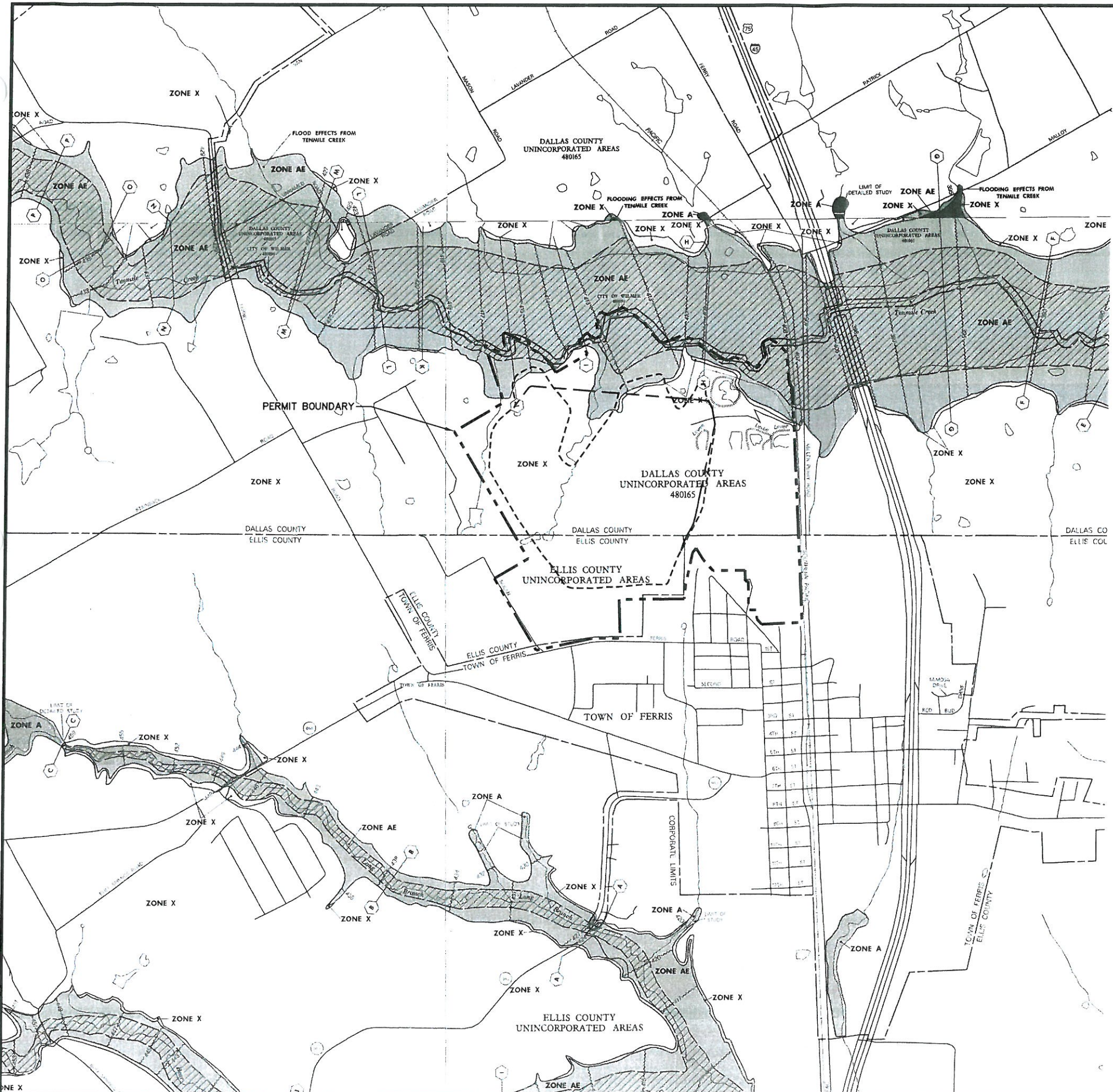
**ISSUED FOR PERMITTING PURPOSES ONLY**

REVISIONS					TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DSN. FAW	DATE : 04/12	DRAWING <b>C2-A-1</b>
DWN. BBB	SCALE : GRAPHIC	
CHK. KJW	DWG : C2_A_1.dwg	



J:\101\01\120\ATT\_C\2\_A\_2.dwg Layout: FIRM-5 User: bboles



**LEGEND**

- - - - - PERMIT BOUNDARY  
 - - - - - PERMITTED WASTE FOOTPRINT  
 - - - - - PROPOSED WASTE FOOTPRINT

**LEGEND**

**SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD**

**ZONE A** No base flood elevations determined.

**ZONE AE** Base flood elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

**ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevation determined.

**ZONE V** Coastal flood with velocity hazard (navigation); no base flood elevations determined.

**ZONE VE** Coastal flood with velocity hazard (navigation); base flood elevations determined.

**FLOODWAY AREAS IN ZONE AE**

**OTHER FLOOD AREAS**

**ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside 500-year floodplain.

**ZONE D** Areas in which flood hazards are undetermined.

**UNDEVELOPED COASTAL BARRIERS**

[Hatched Box] Identified 1983  
 [Hatched Box] Identified 1990  
 [Hatched Box] Obsolete Protected Area  
 Coastal barrier areas are normally located within or adjacent to Special Flood Hazard Areas.

[Dashed Line] Floodplain Boundary  
 [Dashed Line] Floodway Boundary  
 [Dashed Line] Zone D Boundary

[Dotted Line] Boundary Dividing Special Flood Hazard Zones, and Secondary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

[Wavy Line] Base Flood Elevation Line: Elevation in Feet. See Map Index for Elevation Datum.  
 [Dashed Line] Cross Section Line  
 [Circle with 'D'] Base Flood Elevation in Feet Where Uniform Within Zone. See Map Index for Elevation Datum.  
 [Circle with 'RM7'] Elevation Reference Mark  
 [Circle with 'M2'] River Mile  
 [Circle with 'D'] Horizontal Coordinates Based on North American Datum of 1927 (NAD 27) Projection.

97°07'30", 32°22'30"

**NOTES:**

1. THIS MAP HAS BEEN COMPILED FROM FEMA FLOOD INSURANCE RATE MAP (FIRM) OF DALLAS COUNTY, TEXAS AND INCORPORATED AREAS COMMUNITY PANEL NUMBER 48201C0505L, REVISED AUGUST 23, 2001.
2. THIS MAP DOES NOT REPRESENT MOST RECENT FLOOD EVALUATION OF TEN MILE CREEK PREPARED BY HALFF ASSOCIATES. REFER TO DRAWING IIA.12-100-YEAR FLOODPLAIN MAP FOR LIMITS OF FLOODPLAIN.



FOR INFORMATION PURPOSES ONLY

**100-YEAR FLOODPLAIN FLOOD INSURANCE RATE MAP (FIRM)**

**WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT**

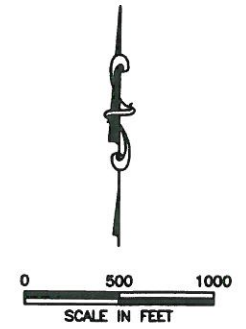


**BIGGS & MATHEWS ENVIRONMENTAL CONSULTING ENGINEERS**  
 MANSFIELD DALLAS • WICHITA FALLS  
 817-563-1144

REVISIONS				TBPE FIRM NO. F-256	TBPG FIRM NO. 50222	
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DRAWING  
**C2-A-2**





**LEGEND**

- PERMIT BOUNDARY
- LANDFILL FOOTPRINT
- EXISTING CONTOUR
- STATE PLANE GRID
- 100-YEAR FLOODPLAIN
- STREAM FLOWLINE

**NOTE:**

1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
2. 100-YEAR FLOODPLAIN PROVIDED BY HALFF ASSOCIATES. FLOODPLAIN DATA COMPILED FROM FEMA FLOOD INSURANCE RATE MAP (FIRM) OF DALLAS COUNTY, TEXAS AND INCORPORATED AREAS COMMUNITY PANEL NUMBER 48201C0505L, REVISED AUGUST 23, 2001.



*4/12/2012*

**100-YEAR FLOODPLAIN MAP  
CURRENTLY PERMITTED**  
**WASTE MANAGEMENT OF TEXAS, INC.**  
**SKYLINE LANDFILL**  
**MAJOR PERMIT AMENDMENT**



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

**ISSUED FOR PERMITTING PURPOSES ONLY**

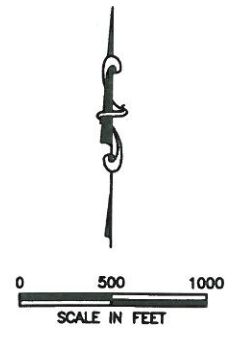
REVISIONS						TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DRAWING
							<b>C2-A-3</b>

DSN. FAW DATE : 04/12  
 DWN. BBB SCALE : GRAPHIC  
 CHK. KJW DWG : C2\_A\_3.dwg

J:\101\01\120\ATT C\C2\_A\_3.dwg Layout: Layout1 User: bboles



J:\101\01\120\ATT C\C2\_A\_4.dwg Layout: Layout1 User: bboles




- LEGEND**
- PERMIT BOUNDARY
  - LANDFILL FOOTPRINT
  - 60 --- EXISTING CONTOUR
  - N 6753000 --- STATE PLANE GRID
  - 100-YEAR FLOODPLAIN
  - STREAM FLOWLINE

- NOTE:**
1. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL SURVEY FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL.
  2. 100-YEAR FLOODPLAIN PROVIDED BY HALFF ASSOCIATES. FLOODPLAIN DATA COMPILED FROM FEMA FLOOD INSURANCE RATE MAP (FIRM) OF DALLAS COUNTY, TEXAS AND INCORPORATED AREAS COMMUNITY PANEL NUMBER 48201C0505L, REVISED AUGUST 23, 2001.
  3. SKYLINE LANDFILL PROPOSED DEVELOPMENT PROVIDED BY BIGGS AND MATHEWS ENVIRONMENTAL.
  4. SEE ATTACHMENT C3 FOR DRAINAGE SYSTEM PLANS AND DETAILS.



**100-YEAR FLOODPLAIN MAP  
POSTDEVELOPED**

**WASTE MANAGEMENT OF TEXAS, INC.  
SKYLINE LANDFILL  
MAJOR PERMIT AMENDMENT**


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

**ISSUED FOR PERMITTING PURPOSES ONLY**

REVISIONS					TBPE FIRM NO. F-256	TBPG FIRM NO. 50222
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DSN. FAW	DATE : 04/12	DRAWING <b>C2-A-4</b>
DWN. BBB	SCALE : GRAPHIC	
CHK. KJW	DWG : C2_A_4.dwg	



J:\101\01\120\ATT C\2\_A\_5.dwg Layout: Layout1 User: scundiff

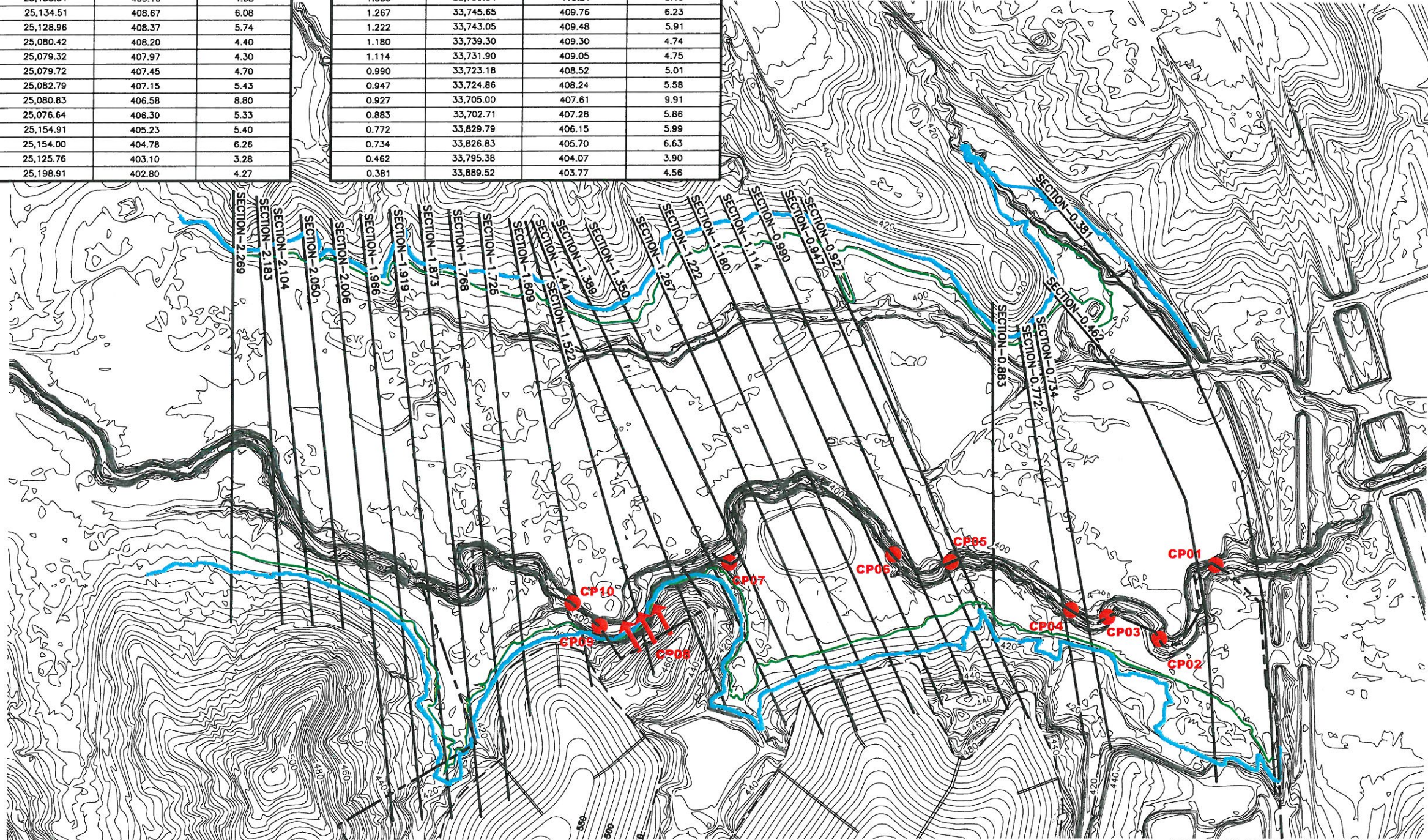
TEN MILE CREEK 25-YEAR FLOOD STAGE ANALYSIS SUMMARY			
HEC-RAS Cross Section	25-YEAR FLOW RATE (cfs)	25-YEAR WATER SURFACE (ft)	25-YEAR VELOCITY (fps)
2.269	25,033.43	417.00	7.67
2.183	25,025.76	416.68	3.47
2.104	25,097.97	416.32	4.79
2.050	25,096.93	416.00	5.50
2.006	25,095.26	415.75	5.58
1.966	25,092.91	415.37	6.25
1.919	25,093.41	414.85	6.05
1.873	25,071.88	414.30	6.80
1.768	25,070.45	413.65	5.53
1.725	25,140.87	413.22	6.01
1.609	25,172.68	411.57	6.90
1.522	25,168.02	410.92	4.24
1.441	25,136.91	410.00	7.98
1.389	25,132.65	409.32	7.68
1.350	25,138.84	409.16	4.68
1.267	25,134.51	408.67	6.08
1.222	25,128.96	408.37	5.74
1.180	25,080.42	408.20	4.40
1.114	25,079.32	407.97	4.30
0.990	25,079.72	407.45	4.70
0.947	25,082.79	407.15	5.43
0.927	25,080.83	406.58	8.80
0.883	25,076.64	406.30	5.33
0.772	25,154.91	405.23	5.40
0.734	25,154.00	404.78	6.26
0.462	25,125.76	403.10	3.28
0.381	25,198.91	402.80	4.27

TEN MILE CREEK 100-YEAR FLOOD STAGE ANALYSIS SUMMARY			
HEC-RAS Cross Section	100-YEAR FLOW RATE (cfs)	100-YEAR WATER SURFACE (ft)	100-YEAR VELOCITY (fps)
2.269	33,597.52	418.09	8.11
2.183	33,595.84	417.71	4.12
2.104	33,692.12	417.29	5.46
2.050	33,689.20	416.94	6.15
2.006	33,685.70	416.67	6.15
1.966	33,681.46	416.26	6.75
1.919	33,660.69	415.77	6.20
1.873	33,659.63	415.25	7.12
1.768	33,656.20	414.62	5.84
1.725	33,750.80	414.20	6.27
1.609	33,791.77	412.63	7.17
1.522	33,785.60	411.98	4.65
1.441	33,746.72	411.10	8.23
1.389	33,743.07	410.40	8.15
1.350	33,799.64	410.21	5.19
1.267	33,745.65	409.76	6.23
1.222	33,743.05	409.48	5.91
1.180	33,739.30	409.30	4.74
1.114	33,731.90	409.05	4.75
0.990	33,723.18	408.52	5.01
0.947	33,724.86	408.24	5.58
0.927	33,705.00	407.61	9.91
0.883	33,702.71	407.28	5.86
0.772	33,829.79	406.15	5.99
0.734	33,826.83	405.70	6.63
0.462	33,795.38	404.07	3.90
0.381	33,889.52	403.77	4.56



- LEGEND**
- PERMIT BOUNDARY
  - LANDFILL FOOTPRINT
  - EXISTING CONTOUR
  - HEC-RAS CROSS SECTIONS
  - STREAM
  - FIRM 100-YEAR FLOODPLAIN
  - BME 100-YEAR WATERSURFACE

- NOTES:**
- EXISTING CONTOURS PROVIDED BY NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS FROM AERIAL PHOTOGRAPHY CAPTURED BETWEEN JANUARY AND MARCH 2007. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE, NORTH CENTRAL ZONE, NAD 83.
  - CONTOURS WITHIN EXISTING WASTE DISPOSAL FOOTPRINT DEPICT CURRENT PERMITTED FINAL CONTOURS.
  - SEE DRAWING C2-A-1 FOR PERMIT BOUNDARY LOCATION.



**CURRENT PERMITTED FLOOD STAGE ANALYSIS SUMMARY**  
**WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT**

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

ISSUED FOR PERMITTING PURPOSES ONLY

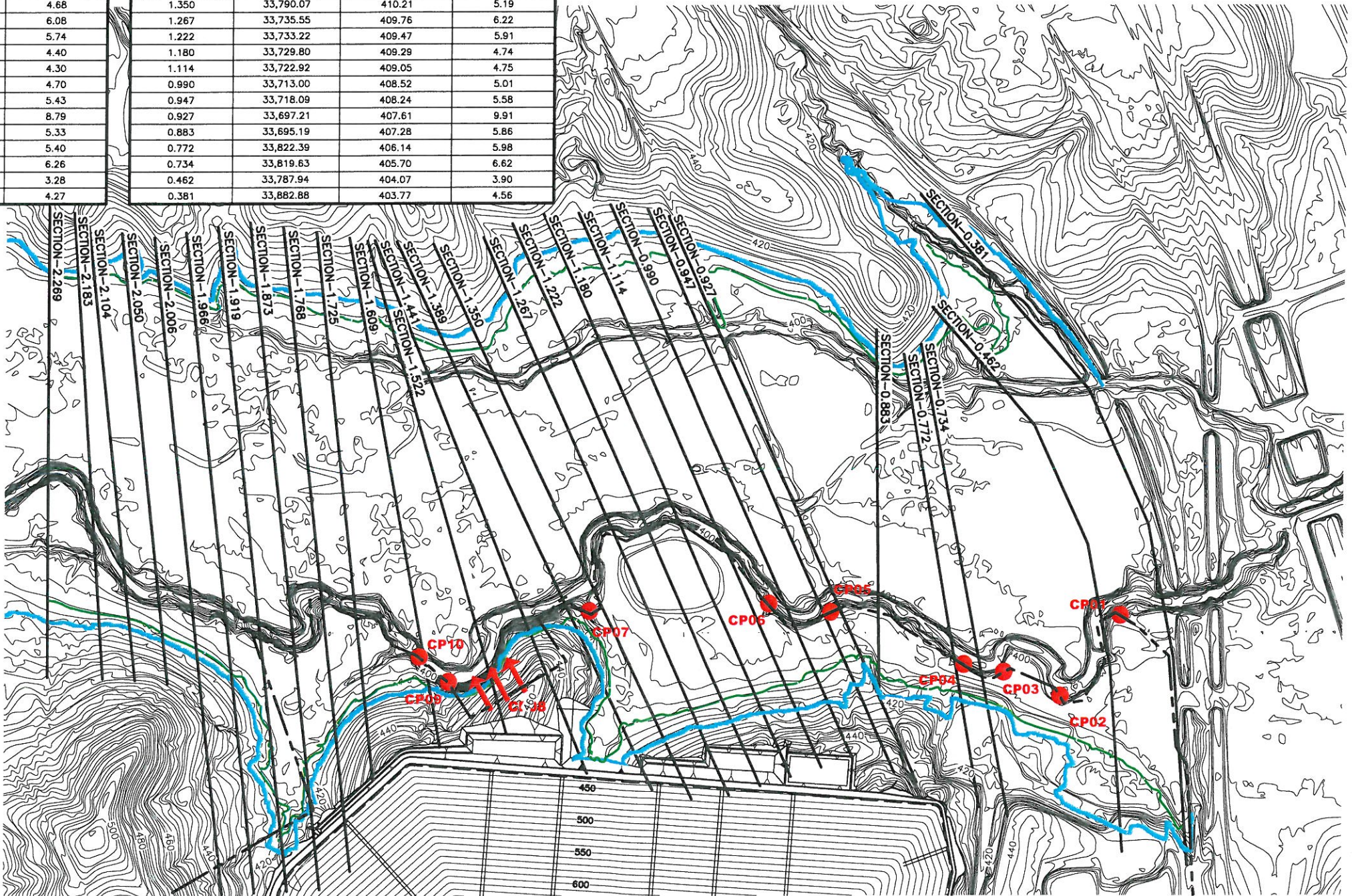
REVISIONS				TBPE FIRM NO. F-256	TBPG FIRM NO. 50222	
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DSN. FAW	DATE : 04/12	DRAWING
DWN. BBB	SCALE : GRAPHIC	C2-A-5
CHK. KJW	DWG : C2_A_5.dwg	



TEN MILE CREEK 25-YEAR FLOOD STAGE ANALYSIS SUMMARY			
HEC-RAS Cross Section	25-YEAR FLOW RATE (cfs)	25-YEAR WATER SURFACE (ft)	25-YEAR VELOCITY (fps)
2.269	25,033.43	417.00	7.67
2.183	25,025.74	416.68	3.47
2.104	25,097.97	416.32	4.79
2.050	25,096.91	416.00	5.50
2.006	25,095.24	415.75	5.58
1.966	25,092.90	415.37	6.25
1.919	25,093.38	414.85	6.05
1.873	25,071.87	414.30	6.80
1.768	25,070.42	413.65	5.54
1.725	25,140.83	413.22	6.01
1.609	25,170.25	411.57	6.90
1.522	25,165.50	410.92	4.24
1.441	25,134.41	410.00	7.98
1.389	25,130.21	409.31	7.68
1.350	25,122.76	409.15	4.68
1.267	25,118.50	408.67	6.08
1.222	25,113.05	408.37	5.74
1.180	25,064.35	408.19	4.40
1.114	25,063.40	407.97	4.30
0.990	25,062.64	407.45	4.70
0.947	25,068.31	407.15	5.43
0.927	25,066.37	406.58	8.79
0.883	25,062.21	406.30	5.33
0.772	25,140.13	405.23	5.40
0.734	25,139.22	404.77	6.26
0.462	25,111.08	403.10	3.28
0.381	25,184.35	402.80	4.27

TEN MILE CREEK 100-YEAR FLOOD STAGE ANALYSIS SUMMARY			
HEC-RAS Cross Section	100-YEAR FLOW RATE (cfs)	100-YEAR WATER SURFACE (ft)	100-YEAR VELOCITY (fps)
2.269	33,597.52	418.09	8.11
2.183	33,595.84	417.71	4.12
2.104	33,692.13	417.29	5.46
2.050	33,689.23	416.94	6.15
2.006	33,685.72	416.67	6.15
1.966	33,681.47	416.26	6.75
1.919	33,660.75	415.77	6.20
1.873	33,659.70	415.25	7.12
1.768	33,656.27	414.62	5.84
1.725	33,750.88	414.20	6.27
1.609	33,788.27	412.63	7.17
1.522	33,782.18	411.98	4.65
1.441	33,743.45	411.10	8.23
1.389	33,740.04	410.40	8.15
1.350	33,790.07	410.21	5.19
1.267	33,735.55	409.76	6.22
1.222	33,733.22	409.47	5.91
1.180	33,729.80	409.29	4.74
1.114	33,722.92	409.05	4.75
0.990	33,713.00	408.52	5.01
0.947	33,718.09	408.24	5.58
0.927	33,697.21	407.61	9.91
0.883	33,695.19	407.28	5.86
0.772	33,822.39	406.14	5.98
0.734	33,819.63	405.70	6.62
0.462	33,787.94	404.07	3.90
0.381	33,882.88	403.77	4.56



- LEGEND**
- PERMIT BOUNDARY
  - PROPERTY BOUNDARY
  - LANDFILL FOOTPRINT
  - EXISTING CONTOUR
  - HEC-RAS CROSS SECTIONS
  - STREAM

- NOTES:**
1. EXISTING CONTOURS PROVIDED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS FROM AERIAL PHOTOGRAPHY CAPTURED BETWEEN JANUARY AND MARCH 2007. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE, NORTH CENTRAL ZONE, NAD 83.
  2. CONTOURS WITHIN THE WASTE DISPOSAL FOOTPRINT DEPICT POSTDEVELOPMENT FINAL CONTOURS.
  3. SEE DRAWING C2-A-1 FOR PERMIT BOUNDARY LOCATION.



**POSTDEVELOPED  
FLOOD STAGE ANALYSIS SUMMARY**

**WASTE MANAGEMENT OF TEXAS, INC.  
SKYLINE LANDFILL  
MAJOR PERMIT AMENDMENT**

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

ISSUED FOR PERMITTING PURPOSES ONLY				REVISIONS		TBPE FIRM NO. F-256		TBPG FIRM NO. 50222	
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	DSN. FAW	DATE : 04/12	DRAWING
							DWN. BBB	SCALE : GRAPHIC	C2-A-6
							CHK. KJW	DWG : C2_A_6.dwg	

J:\101\01\120\ATT C\C2\_A\_6.dwg Layout: Layout1 User: bboles



**Waste Management of Texas, Inc.  
Skyline Landfill  
Current Permitted/Postdevelopment Flood Stage Analysis Summary**

Ten Mile Creek 25-Year Flood Stage Analysis Summary									
HEC-RAS Cross Section	Current Permitted 25-Year Flow Rate (cfs)	Postdevelopment 25-Year Flow Rate (cfs)	Difference	Current Permitted 25-Year Water Surface* (ft)	Postdevelopment 25-Year Water Surface* (ft)	Difference	Current Permitted 25-Year Velocity (fps)	Postdevelopment 25-Year Velocity (fps)	Difference
2.269	25,033.43	25,033.43	0.00	417.00	417.00	0.00	7.67	7.67	0.00
2.183	25,025.76	25,025.74	-0.02	416.68	416.68	0.00	3.47	3.47	0.00
2.104	25,097.97	25,097.97	0.00	416.32	416.32	0.00	4.79	4.79	0.00
2.050	25,096.93	25,096.91	-0.02	416.00	416.00	0.00	5.50	5.50	0.00
2.006	25,095.26	25,095.24	-0.02	415.75	415.75	0.00	5.58	5.58	0.00
1.966	25,092.91	25,092.90	-0.01	415.37	415.37	0.00	6.25	6.25	0.00
1.919	25,093.41	25,093.38	-0.03	414.85	414.85	0.00	6.05	6.05	0.00
1.873	25,071.88	25,071.87	-0.01	414.30	414.30	0.00	6.80	6.80	0.00
1.768	25,070.45	25,070.42	-0.03	413.65	413.65	0.00	5.53	5.54	0.01
1.725	25,140.87	25,140.83	-0.04	413.22	413.22	0.00	6.01	6.01	0.00
1.609	25,172.68	25,170.25	-2.43	411.57	411.57	0.00	6.90	6.90	0.00
1.522	25,168.02	25,165.50	-2.52	410.92	410.92	0.00	4.24	4.24	0.00
1.441	25,136.91	25,134.41	-2.50	410.00	410.00	0.00	7.98	7.98	0.00
1.389	25,132.65	25,130.21	-2.44	409.32	409.31	-0.01	7.68	7.68	0.00
1.350	25,138.84	25,122.76	-16.08	409.16	409.15	-0.01	4.68	4.68	0.00
1.267	25,134.51	25,118.50	-16.01	408.67	408.67	0.00	6.08	6.08	0.00
1.222	25,128.96	25,113.05	-15.91	408.37	408.37	0.00	5.74	5.74	0.00
1.180	25,080.42	25,064.35	-16.07	408.20	408.19	-0.01	4.40	4.40	0.00
1.114	25,079.32	25,063.40	-15.92	407.97	407.97	0.00	4.30	4.30	0.00
0.990	25,079.72	25,062.64	-17.08	407.45	407.45	0.00	4.70	4.70	0.00
0.947	25,082.79	25,068.31	-14.48	407.15	407.15	0.00	5.43	5.43	0.00
0.927	25,080.83	25,066.37	-14.46	406.58	406.58	0.00	8.80	8.79	-0.01
0.883	25,076.64	25,062.21	-14.43	406.30	406.30	0.00	5.33	5.33	0.00
0.772	25,154.91	25,140.13	-14.78	405.23	405.23	0.00	5.40	5.40	0.00
0.734	25,154.00	25,139.22	-14.78	404.78	404.77	-0.01	6.26	6.26	0.00
0.462	25,125.76	25,111.08	-14.68	403.10	403.10	0.00	3.28	3.28	0.00
0.381	25,198.91	25,184.35	-14.56	402.80	402.80	0.00	4.27	4.27	0.00

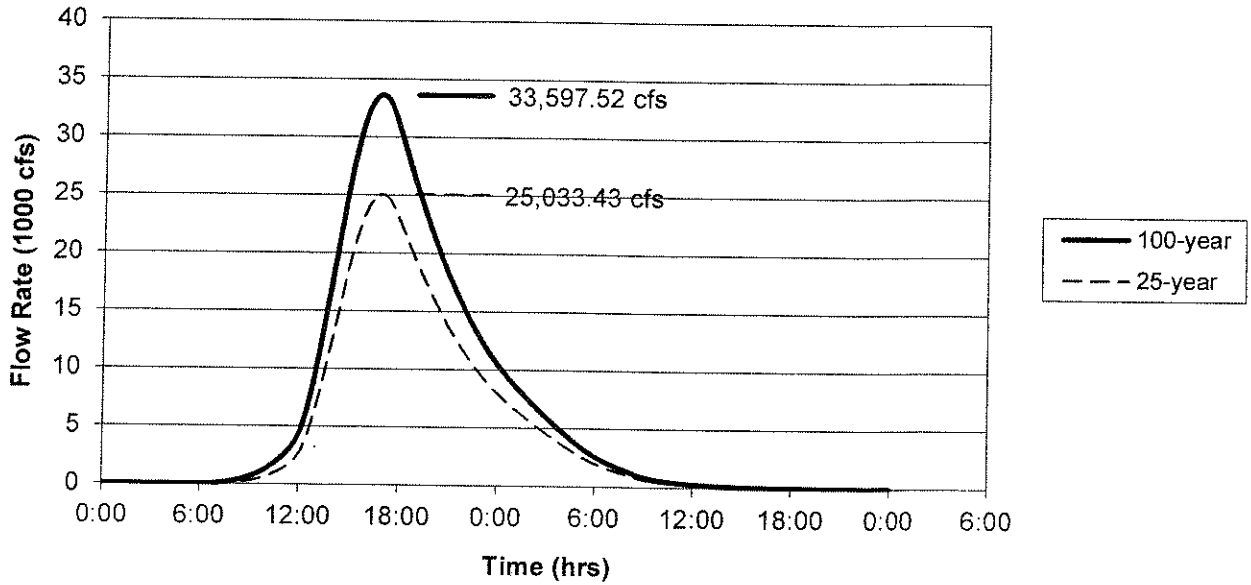


**Waste Management of Texas, Inc.  
Skyline Landfill  
Current Permitted/Postdevelopment Flood Stage Analysis Summary**

Ten Mile Creek 100-Year Flood Stage Analysis Summary									
HEC-RAS Cross Section	Current Permitted 100-Year Flow Rate (cfs)	Postdevelopment 100-Year Flow Rate (cfs)	Difference	Current Permitted 100-Year Water Surface* (ft)	Postdevelopment 100-Year Water Surface* (ft)	Difference	Current Permitted 100-Year Velocity (fps)	Postdevelopment 100-Year Velocity (fps)	Difference
2.269	33,597.52	33,597.52	0.00	418.09	418.09	0.00	8.11	8.11	0.00
2.183	33,595.84	33,595.84	0.00	417.71	417.71	0.00	4.12	4.12	0.00
2.104	33,692.12	33,692.13	0.01	417.29	417.29	0.00	5.46	5.46	0.00
2.050	33,689.20	33,689.23	0.03	416.94	416.94	0.00	6.15	6.15	0.00
2.006	33,685.70	33,685.72	0.02	416.67	416.67	0.00	6.15	6.15	0.00
1.966	33,681.46	33,681.47	0.01	416.26	416.26	0.00	6.75	6.75	0.00
1.919	33,660.69	33,660.75	0.06	415.77	415.77	0.00	6.20	6.20	0.00
1.873	33,659.63	33,659.70	0.07	415.25	415.25	0.00	7.12	7.12	0.00
1.768	33,656.20	33,656.27	0.07	414.62	414.62	0.00	5.84	5.84	0.00
1.725	33,750.80	33,750.88	0.08	414.20	414.20	0.00	6.27	6.27	0.00
1.609	33,791.77	33,788.27	-3.50	412.63	412.63	0.00	7.17	7.17	0.00
1.522	33,785.60	33,782.18	-3.42	411.98	411.98	0.00	4.65	4.65	0.00
1.441	33,746.72	33,743.45	-3.27	411.10	411.10	0.00	8.23	8.23	0.00
1.389	33,743.07	33,740.04	-3.03	410.40	410.40	0.00	8.15	8.15	0.00
1.350	33,799.64	33,790.07	-9.57	410.21	410.21	0.00	5.19	5.19	0.00
1.267	33,745.65	33,735.55	-10.10	409.76	409.76	0.00	6.23	6.22	-0.01
1.222	33,743.05	33,733.22	-9.83	409.48	409.47	-0.01	5.91	5.91	0.00
1.180	33,739.30	33,729.80	-9.50	409.30	409.29	-0.01	4.74	4.74	0.00
1.114	33,731.90	33,722.92	-8.98	409.05	409.05	0.00	4.75	4.75	0.00
0.990	33,723.18	33,713.00	-10.18	408.52	408.52	0.00	5.01	5.01	0.00
0.947	33,724.86	33,718.09	-6.77	408.24	408.24	0.00	5.58	5.58	0.00
0.927	33,705.00	33,697.21	-7.79	407.61	407.61	0.00	9.91	9.91	0.00
0.883	33,702.71	33,695.19	-7.52	407.28	407.28	0.00	5.86	5.86	0.00
0.734	33,829.79	33,822.39	-7.40	406.15	406.14	-0.01	5.99	5.98	-0.01
0.462	33,826.83	33,819.63	-7.20	405.70	405.70	0.00	6.63	6.62	-0.01
0.381	33,795.38	33,787.94	-7.44	404.07	404.07	0.00	3.90	3.90	0.00
	33,889.52	33,882.88	-6.64	403.77	403.77	0.00	4.56	4.56	0.00



### Ten Mile Creek Cross Section 2.269 Current Permitted



### Ten Mile Creek Cross Section 2.269 Postdeveloped

