WASTE MANAGEMENT SKYLINE LANDFILL
DALLAS AND ELLIS COUNTIES, TEXAS
PERMIT AMENDMENT APPLICATION NO. MSW 42E

VOLUME 3 OF 4

Prepared for

WASTE MANAGEMENT OF TEXAS, INC.

March 2026

STATE OF TEXAS
GREGORY W. ADAMS
73356
LICENSED
PROFESSIONAL ENGINEER

Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256
3/31/2026

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL
1700 Robert Road, Suite 100 • Mansfield, Texas 76063 • 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. F-256 AND NO. 10194895

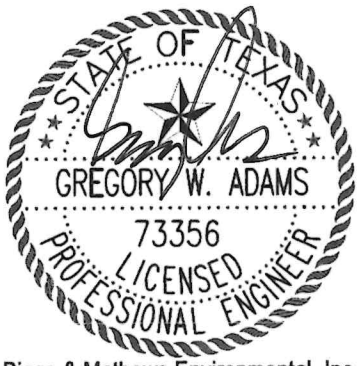
TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

WASTE MANAGEMENT SKYLINE LANDFILL
DALLAS AND ELLIS COUNTIES, TEXAS
PERMIT AMENDMENT APPLICATION NO. MSW 42E

VOLUME 3 OF 4 CONTENTS

PART III FACILITY INVESTIGATION AND DESIGN

Attachment E – Geology Report



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

3/31/2026

SKYLINE LANDFILL
DALLAS AND ELLIS COUNTIES, TEXAS
PERMIT AMENDMENT APPLICATION NO. MSW 42E

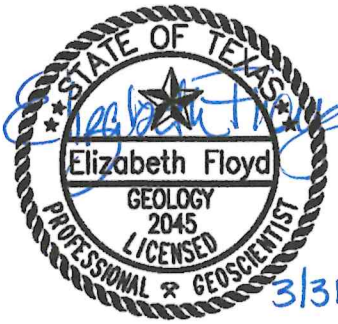
PART III – FACILITY INVESTIGATION AND DESIGN

ATTACHMENT E
GEOLOGY REPORT

Prepared for

WASTE MANAGEMENT OF TEXAS, INC.

March 2026



3/31/2026

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL
1700 Robert Road, Suite 100 • Mansfield, Texas 76063 • 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS
FIRM REGISTRATION NO. F-256 AND NO. 10194895

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

CONTENTS

1 REGIONAL GEOLOGIC/HYDROGEOLOGIC INFORMATION 1
2 GEOLOGIC PROCESSES 3
3 REGIONAL AQUIFERS 6
4 SUBSURFACE INVESTIGATION REPORT 10
5 GEOTECHNICAL AND HYDROGEOLOGIC DATA 22
6 ARID EXEMPTION 32
7 REFERENCES 33

APPENDIX E1 – REGIONAL GEOLOGIC/HYDROGEOLOGIC DATA

APPENDIX E2 – SITE EXPLORATION DATA

APPENDIX E3 – SITE GEOLOGIC DATA

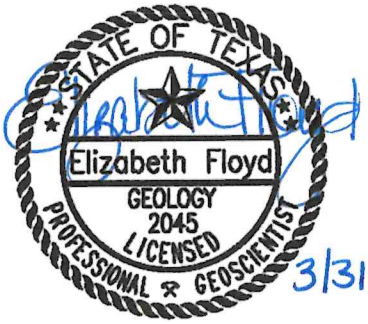
APPENDIX E4 – FAULT AND SEISMIC DATA

APPENDIX E5 – SITE HYDROGEOLOGIC DATA

APPENDIX E6 – GROUNDWATER ANALYTICAL DATA

APPENDIX E7 – HISTORICAL PERMIT INFORMATION

APPENDIX E8 – GEOTECHNICAL DATA



3/31/2026

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

1 REGIONAL GEOLOGIC/HYDROGEOLOGIC INFORMATION

30 TAC §§330.57(f)(2), 330.63(e)(1)

This geology and geotechnical report has been prepared by Elizabeth Floyd, P.G., a qualified groundwater scientist, for the Skyline Landfill consistent with 30 Texas Administrative Code (TAC) §§330.57(f)(2) and 330.63(e). Some of this report has been adopted in whole or in part from the previously approved geology report. The purpose of this report is to provide the information and interpretations necessary to design a groundwater monitoring system.

1.1 Regional Physiography and Topography

The project site is in the regional physiographic subdivision known as the Blackland Prairie. This north-south trending belt is underlain by the Eagle Ford, Austin, Taylor, and Navarro formations of the Cretaceous System. Topography of the Blackland Prairie is typically flat to rolling and has a gentle slope to the east. The Blackland Prairie is poorly drained with sparse timber (Nordstrom, 1982).

The nearest surface water body in the area is a branch of Ten Mile Creek, which is located at the northern boundary of the site. Several small ponds exist on the site property as well as east of the property.

1.2 Regional Stratigraphy and Lithology

Formations of the Cretaceous System were deposited by northward advancing seas over extensively eroded Paleozoic strata. The Comanche and Gulf Series of the Cretaceous System represent two major transgressions of Cretaceous seas. The project site is underlain by strata deposited during the late Cretaceous Gulf Series. Toward the end of the Cretaceous period, marine deposition ceased after a general uplift to the west resulted in regression of the seas gulfward. Subsequent erosion of the Cretaceous deposits continued through the Cenozoic era to the present.

Regional stratigraphy includes geologic units of the Cretaceous System from the lower Comanche Series Trinity Group to the upper Gulf Series Navarro Group. Stratigraphic positions of these groups, along with lithologic characteristics and approximate depths to the formations, are presented in the Regional Stratigraphic Column table. The site is on the outcrop of the Taylor Formation (lower Taylor Marl, also known as the Ozan Formation) as shown in Appendix E1 on Drawings E1.1 and E1.2.

The Eagle Ford Group outcrops in the extreme western portions of Dallas and Ellis counties and consists primarily of bluish-black and gray shales of marine origin with a maximum thickness of 300 feet (ft). East and above the Eagle Ford is the Austin Chalk Group, which is made up of chalks and marls up to 500 feet thick. Above the Austin Chalk

lies the Taylor Group. This group has an overall thickness estimated to be approximately 500 feet. Locally, the thickness is estimated at approximately 250 feet. The Woodbine Group, stratigraphically situated beneath the Eagle Ford and composed of clay and permeable sandstone up to 250 feet thick, is the first major water bearing zone beneath the counties. The regional dip of the Cretaceous in Dallas and Ellis Counties is approximately 50 feet to the mile and trends to the southeast. The site varies in elevation from about 505 feet above mean sea level (msl) in the center of the property to about 450 feet above msl along the west and east property boundaries. There is no unfavorable topography that would limit the facility present on the site.

Regional cross sections indicate that the Cretaceous System forms a southeastward-thickening wedge extending into the East Texas Basin structural feature. Outcrops of Cretaceous geologic formations generally trend north northeastward with the regional dip to the east-southeast ranging from about 15 to 40 feet per mile (Nordstrom, 1982). A generalized regional geologic cross section is in Appendix E1 on Drawing E1.3.

Regional Stratigraphic Column

System	Series	Group	Formation	Maximum Thickness (ft)	
Upper Cretaceous	Gulf	Navarro	Kemp Clay	400	
			Corsicana Marl	20	
			Nacatoch Sand	450	
			Neylandville Marl	125	
		Taylor		600	← SITE
		Austin		400	
		Eagle Ford		400	
		Woodbine		400	
Lower Cretaceous	Comanche	Fredericksburg & Washita Groups undifferentiated		1000 250	
		Trinity	Paluxy	100	
			Glen Rose	600	
			Twin Mountains	500	
			Antler	100	

Source: Barnes, 1972 (rev. 1987)

2 GEOLOGIC PROCESSES

30 TAC §§330.63(e)(2), 330.61(j)(2) & (4), 330.555, 330.557, 330.559

A discussion of the geologic processes in the vicinity of the landfill follows.

2.1 Fault Areas

The property on which the proposed Skyline Landfill is to be located was examined for the presence of faulting according to §330.555 criteria. A fault study was conducted which included the review of aerial photographs for the site and available geologic literature and maps of the area. Additionally, site reconnaissance was conducted as well as an examination of site-specific boring data.

An experienced geologist, familiar with faulting and solid waste disposal facilities, conducted a site walkover to identify possible physical evidence caused by faulting. No unusual scarps or topographic breaks were interpreted within 200 feet of the site. The facility site was examined for indications of faulting in accordance with §330.555(b)(1-12). No evidence of faulting was found by examination of the area roadways; no structural influence of stream courses was found; and no unusual relief or topographic features, such as sag ponds or truncated alluvial spurs were observed on the site. There is no significant oil production on or near the property.

The streets within a half-mile of the site were driven to look for evidence of repairs, sags, or abrupt changes of grade that could indicate subsidence faulting in the site vicinity. The streets were generally asphalt-paved and were in good condition. No evidence of subsidence faulting was observed. In addition, facades of buildings and houses in the same area were viewed for structural damage that could have resulted from subsidence faulting. None was observed.

A map of Quaternary faults was reviewed for locations of faults in the vicinity of the facility (see Drawing E4.4, in Appendix E4). The Quaternary period includes both the Holocene time period and the Pleistocene time period. There were no faults within 200 feet of the facility shown on the map.

Cores retrieved from exploration borings revealed no evidence of faulting. Fractures seen in the cores showed no evidence of displacement.

In summary, no fault scarps were observed at the surface within 200 feet of the site and there was no observed evidence of vertical subsidence. No vertical displacement or stratigraphic offsets indicative of faults were observed in outcrops or in the cores from the site borings. In addition, no Holocene faults were shown on a published map generated by the U. S. Geological Survey in conjunction with the Texas Bureau of Economic Geology.

The site and immediate area were investigated for:

- Structural damage to constructed facilities (roadways, railways, and buildings).
- Scarps in natural ground.
- Presence of surface depressions (sag ponds and ponded water).
- Presence of lineations on aerial maps and topographic sheets. The following historical imagery (aerial photographs) were reviewed:

12/1985	1/2006	10/2013	9/2019	4/2025
3/1995	10/2006	2/2014	5/2020	8/2025
2/2001	10/2007	3/2015	11/2020	
3/2002	7/2008	12/2015 (2)	7/2021	
12/2003	12/2009	4/2016	10/2021	
3/2004	3/2011	1/2017	3/2022	
4/2004	4/2012	9/2017	4/2022	
3/2005 (2)	7/2012	3/2018	6/2022 (2)	
10/2005	8/2012	11/2018	4/2023	
11/2005	1/2013	6/2019	2/2024	

In summary, based on the review of regional data, aerial photographs, and subsurface geologic structure maps, there are no geologic faults with Holocene-age displacements within 200 feet of the landfill boundaries and there is no faulting activity or differential subsidence that could adversely affect the landfill. There is no active faulting within 200 feet of the site; therefore, the site complies with §330.555.

2.2 Seismic Impact Zones

Consistent with §330.61(j)(3) and §330.557, seismic impact zones documentation was prepared as part of this application to demonstrate that the Skyline Landfill meets the location restriction for seismic impact zones.

TCEQ regulations state that no new Municipal Solid Waste Landfill (MSWLF) units or lateral expansions shall be located in seismic impact zones unless the owner or operator demonstrates that all containment structure, including liners, leachate collection systems, and surface water control systems are designed to resist the maximum horizontal acceleration in the lithified earth for the site.

The seismic impact zone, as defined by §330.557, is an area with a ten percent or greater probability that the maximum horizontal acceleration in the lithified earthen material, expressed as a percentage of the earth's gravitational pull (G), will exceed 0.10 G in 250 years. The facility lies in an area where the peak gravitational acceleration, with a two percent probability of being exceeded in 50 years, is less than ten percent of gravity (less than 0.1 G). This is equivalent to a ten percent probability in 250 years. Appendix E4, Drawing E4.1 shows the site location on the USGS 2014 Seismic Hazard

Maps. The proposed Skyline Landfill site is not located within a seismic impact zone.

2.3 Unstable Areas

Consistent with §§ 330.63(e)(2), 330.61(j)(4), and 330.559, unstable areas documentation was prepared as part of this application to demonstrate that the Skyline Landfill meets the location restriction for unstable areas.

TCEQ regulations require that owners or operators of new MSWLF units, existing MSWLF units, and lateral expansions located in an unstable area shall demonstrate that engineering measures have been incorporated into the MSWLF unit's design to ensure that the integrity of the structural components of the MSWLF unit will not be disrupted.

An unstable area is defined by the TCEQ as a location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all of the landfill's structural components responsible for preventing releases from a landfill. An unstable area can exhibit poor foundation conditions, areas susceptible to mass movement, and karst terrains.

The determination of potential unstable areas at the landfill site is based on site observations and a review of existing documentation for the site. Based on this review, the foundation conditions and the geological formations are stable. In addition, there is no evidence to suspect mass movement of natural formations of earthen material on or in the vicinity of this site. No foundation problems exist at the site. The proposed landfill components were evaluated with respect to settlement, heave, and slope stability. The detailed analysis is included in Part III, Attachment D5. Based on the results of these analyses, the existing and proposed human-made features have been predicted to have adequate factors of safety with respect to stability.

Based on site observations, a review of existing geological data, and geotechnical analysis of the structural components of the landfill development, the site is not located in an unstable area and the integrity of the landfill is not expected to become impaired by natural or human-induced events.

3 REGIONAL AQUIFERS

30 TAC §330.63(e)(3)

Regional aquifers that supply groundwater to wells in Dallas and Ellis counties are the Paluxy and Woodbine formations, both of which are Cretaceous in age. Groundwater is obtained for public supply primarily from municipal wells tapping the Woodbine Formation. The largest users of groundwater in Ellis County include the cities of Waxahachie, Ennis, Ferris, and Midlothian.

The Woodbine Aquifer is the uppermost aquifer beneath this site. It is separated from the surface by approximately 1,100 feet of Taylor, Austin, and Eagle Ford formations. This stratigraphic section forms a regional confining system. The low permeability rocks of these formations retard the vertical and lateral flow of groundwater and separate the underlying aquifers from the surficial groundwater-bearing unit (weathered Ozan) (Dutton et al., 1994). The Dutton et al. (1994) report is a comprehensive geologic/hydrogeologic study conducted in Ellis County in conjunction with the Superconducting Super Collider. That project included boring large-scale tunnels within the Ozan Formation. Groundwater in the Woodbine is separated from the deeper Paluxy Aquifer by several hundred feet of Cretaceous limestone and shales. The Woodbine is not hydraulically connected to other aquifers.

3.1 Paluxy Formation

Outcrops of the Paluxy Formation are located in northwestern Tarrant County and in western Johnson County, almost 60 miles west of the site (Appendix E1, Drawing E1.5). Depth to the top of the Paluxy ranges from about 830 feet in northwestern Ellis County to more than 2,950 feet to the east. Depth to the top of the Paluxy in the landfill area is approximately 1,600 feet (Thompson, 1967). Although the thickness of the Paluxy is irregular, the formation generally thickens northward with thicknesses in Ellis County ranging from 77 to 160 feet. Regional dip of the formation is eastward at approximately 42 feet per mile in west Ellis County and 85 feet per mile in east-central Ellis County (Thompson, 1967).

A few wells in the county tap the Paluxy Formation and yield small to moderate quantities of slightly saline water. The chemical quality of the water deteriorates downdip, resulting in moderately saline groundwater in the eastern part of the county (Thompson, 1967).

3.2 Woodbine Formation

The Woodbine Formation crops out in eastern Tarrant and Johnson counties and in northwestern Ellis County. The site location spans the north central boundary line of Ellis County where it adjoins Dallas County, approximately 30 miles east of the Woodbine outcrop (Appendix E1, Drawing E1.4). The top of the formation in the southeastern part of Ellis County is at a depth of approximately 1,980 feet. Depth to the Woodbine in the vicinity of the landfill is approximately 1,100 feet (Thompson, 1967). Thicknesses of the Woodbine vary greatly in Ellis County with ranges from 190 to 405 feet. The formation

dips east-southeast at an average of about 60 feet per mile (Thompson, 1967). The Woodbine Aquifer is confined by the overlying Eagle Ford, Austin, and Taylor formations in the Ellis County area (Dutton et al., 1994).

The lower part of the Woodbine in the western three-quarters of Ellis County is an important source of groundwater for domestic, livestock, and public-supply use (Thompson, 1967).

3.3 Taylor Group

The Taylor Marl (Ozan Formation) crops out in a north-northwestward trending belt across Ellis County; its maximum thickness is about 625 feet. Skyline Landfill is located on the outcrop of the Ozan. This formation is not considered a regional aquifer but in effect is an aquitard to overlying water-bearing sediments. In areas east of the site where the Taylor Marl (Ozan) is overlain by water-bearing formations, it effectively serves as the lower confining unit. Only a few shallow domestic and livestock wells tap the weathered Taylor Marl in Ellis County and yield small quantities of fresh to slightly saline hard water (Thompson, 1967).

Hydraulic Properties of Regional Aquifers
Compiled from Texas Water Department Board (TWDB), 1990 and 1999

Parameters	Woodbine	Paluxy
Composition	Sand, sandstone	Sand and shale
Hydraulic Conductivity	44 gal/d/ft^2	78 gal/d/ft^2
Water Table/Confined	Confined	Confined
Groundwater Flow Rate	15 ft/yr	2 ft/yr
Water Quality: Total Dissolved Solids Total Dissolved Chlorides	 877.39 85.88	 606.7 36.08
Recharge Zones	Approx. 30 miles West	Approx. 60 miles West
Regional Water Table	See App. E1, Drawing E1.4	See App. E1, Drawing E1.5
Present Use of Water	Municipal, Industrial, and Irrigation	Municipal, Industrial, and Irrigation
Identification of Water Wells Within One Mile	See Water Wells Within One Mile table App. E1, Drawing E1.6	See Water Wells Within One Mile table App. E1, Drawing E1.6

3.4 Area Water Wells

A water well search, completed in October 2025, was compiled for a one-mile radius around the site. The search identified 11 wells within one mile of the site. The search included a review of records and maps on file at the TWDB WIID Water Well Database (http://wiid.twdb.state.tx.us/) and the TCEQ Water Well Report Viewer

(http://tceq.state.tx.us/waterwellview.html). One well identified in the TWDB database as 33-27-501, was plugged in 1992 by Waste Management; it is within the permit boundary but outside the limits of the waste disposal area and outside the groundwater monitoring system. The plugging report for 33-27-501 is located in Appendix E1, Drawing E1.11. Another well identified in the TWDB database as 33-27-601 was abandoned and plugged in 1945, according to the Well Schedule (page E1.20); however, no plugging report was found in the records. Both wells are listed in the TWDB database. The water wells are shown on the USGS topographic map in Appendix E1, Drawing E1.6. As shown on the Water Wells Within One Mile table, the water wells in the area are completed in the Woodbine Aquifer at depths ranging from 1,360 to 1,500 feet below ground surface (bgs). As stated in the previous section, only a few shallow domestic and livestock wells tap the weathered Taylor Marl; three known shallow wells were identified in the water well search and are listed in the Water Wells Within One Mile table. However, any residence in this area may have a water well associated with it, especially where there is no public water supply available. There are at least four public water supply utilities and/or industrial water wells within the one-mile radius of the facility: City of Ferris, City of Wilmer, City of Lancaster, and Rockett Special Utility District. These wells are screened in the deeper Woodbine Aquifer at approximately 1,300 to 1,400 feet bgs.

In addition, a windshield search for water wells was conducted in October 2025 on area streets and roads within one mile of the facility. No obvious water well production equipment, such as well houses, pump handles, windmills, or pressure tanks were identified from the street. Based on the information included in the Regional Stratigraphic Column table in Section 1, the public supply and industrial water wells within one mile of the site are completed in the lower portions of the Woodbine Group.

The information about each of the known wells is summarized in the table below.

Water Wells Within One Mile

Well Locator	Well ID No.	Depth (ft)	Completion Date	Completion Formation	Well Use
501	33-27-501	1,500	1933	Woodbine	IND-Plugged
5B	33-27-5B	1,395	3/20/84	Woodbine	D
5C	33-27-5C	1,430	3/14/84	Woodbine	D
601	33-27-601	1,408	1914	Woodbine	P- Plugged
602	33-27-602	1,362	6/1/63	Woodbine	P
603	33-27-603	1,360	1964	Woodbine	D
6(1)	33-27-6	120	9/28/90	Und	D
6(2)	33-27-6	118	10/5/90	Und	D
6(3)	33-27-6	120	10/5/90	Unk	D
6(4)	33-27-6	1,362	2/88	Woodbine	D
901	33-27-901	1,493	1954	Woodbine	P

*No potential wells were identified during a windshield search conducted in October 2025.

Notes: Und – Formation not identified on Well Report.
Unk – Unknown
P – Public
D – Domestic
IND – Industrial

3.5 Oil and Gas Well Locations

An oil and gas well search of state records was conducted in April 2025 to identify any oil and gas wells on site or located within one mile of the facility boundary. The search included a review of records and maps on file at the Texas Railroad Commission (www.rrc.state.tx.us). No oil and gas wells were shown to exist within one mile of the facility boundary, as shown on Drawing E4.3 – Locations of Oil/Gas Producing Wells.

4 SUBSURFACE INVESTIGATION REPORT

30 TAC §330.63(e)(4)(A)-(H)

The current and previous site characterization investigations of the geology, geotechnical properties, and hydrogeology of the site include more than 208 borings, piezometers, and wells. Based on the site characterization, a sufficient number of borings were drilled to establish subsurface site stratigraphy and to determine the geotechnical properties of the soils beneath the site. Geologic strata have been characterized to depths of more than 50 feet below the elevation of the deepest excavation (EDE). Based on correlation of strata included in the borings, the uppermost aquifer and lower confining unit (aquiclude) were identified. The uppermost aquifer is the Woodbine, the depth of which is well known in published literature (Thompson, 1967). See Appendix E2 for copies of the facility boring logs and the Historical Borings table for a summary of the borings.

As discussed in Section 3, the Woodbine aquifer is the uppermost regional aquifer beneath the site. However, groundwater meeting the TCEQ's definition of aquifer for groundwater monitoring purposes exists within the weathered Taylor Marl in the shallow subsurface beneath the site. The unweathered Taylor Marl consists of hundreds of feet of very low permeability clayey material and serves as the lower confining unit (aquiclude), beneath the weathered Taylor Marl groundwater. The weathered Taylor Marl is not recognized by the State of Texas as a regional aquifer but has been recognized by TCEQ as a regulatory aquifer for groundwater monitoring purposes. The borings have been drilled sufficiently deep enough to allow the identification of this "uppermost aquifer" and the aquiclude boundary.

The thickness of the Taylor Marl which overlies the Woodbine and the depth to the Woodbine are well known from published geological literature (Langley, 1999 and Nordstrom, 1982). The Woodbine is separated from the surface by approximately 1,100 feet of Taylor, Austin, and Eagle Ford formations. This stratigraphic section forms a regional confining system. The low permeability rock of these formations retard the vertical and lateral flow of groundwater and separate the underlying aquifer from the surficial groundwater bearing unit (weathered Ozan; Dutton et al., 1994). It is highly unlikely that a contaminant could migrate through several hundred feet of low permeability Taylor, Austin, and Eagle Ford to the confined groundwater in the Woodbine. If it were to migrate, travel times to the Woodbine would be thousands of years.

Borings were drilled in accordance with TCEQ-approved boring plans and established field exploration methods. Installation, abandonment, and plugging of borings were performed in accordance with the TCEQ rules.

4.1 Soil Boring Plan

Drilling activities for the recent site investigation were performed in accordance with the boring plan for this site that was approved in compliance with 30 TAC §330.63(e)(4) by

a letter dated August 4, 2023, from the TCEQ (pages E2.1 and E2.2). A boring location map is shown in Appendix E2, Drawing E2.3. Subsurface conditions were evaluated by examination of logs from borings and piezometers from previous and recent site investigation. The depths of borings and piezometers range from 75 feet to 174 feet. A summary of the historical borings is provided in the Historical Borings table.

4.2 Biggs and Mathews Environmental – 2023

Field drilling and sampling of the 27 borings (See Historical Borings table) completed in September and October 2023 were performed using wet rotary and sonic drilling techniques in accordance with TCEQ approved boring plan and established field exploration methods.

The filed exploration program was under the direct supervision of a certified professional geologist.

Borings were field logged by a qualified geologist at the time of drilling in general accordance with ASTM D 2488. The field logs, in conjunction with field and laboratory testing were used to prepare the final boring logs. The data generated during the field exploration program are presented on the final logs of borings provided in Appendix E2. General notes supplementing the logs are on page E2.5.

Piezometers were installed in adjacent borings during October 2023. Five piezometers (BME-P-1, BME-P-5, BME-P-12, BME-P-16, and BME-P-19) were installed at the interface of Stratum I and Stratum II.

4.3 Previous Drilling Activities

Five previous subsurface investigations conducted at the site are described below. In addition, groundwater monitoring wells have been drilled and installed at the site and are described below. Borings were drilled in accordance with established field exploration methods. Installation, abandonment, and plugging of borings were performed in accordance with the TCEQ rules in effect at the time. All available boring logs are included in Appendix E2. Drawing E2.3 illustrates the locations of all soil borings, piezometers, and monitoring wells previously advanced on site.

4.3.1 Biggs and Mathews Environmental – 2011

Field exploration activities were conducted in July and August of 2011. As part of this investigation, 22 previous borings were deepened. The original borings were previously plugged. New borings were drilled at new locations as close as possible to the previous borings, but not the exact same location of the original boring. The new borings were drilled to a greater depth than the earlier borings. Borings were drilled and sampled to confirm previous characterizations to original depths. Once the original depth was reached, borings were drilled, logged, and sampled for geotechnical purposes. All borings were drilled to a depth of at least 30 feet below the EDE of 377 ft-msl. All borings were drilled in accordance with the approved soil boring plan. The soil boring plan was approved by the TCEQ in a letter dated May 3, 2011. All drilling operations were supervised by a professional geoscientist or engineer who is familiar with the geology of

the area and is licensed to practice in the state of Texas. Moisture content and other geotechnical information for samples from these borings are included in Appendix E5.

4.3.2 HDR Engineering – 1991 – 1993

HDR conducted an investigation from June 1991–1993 for a permit amendment that consisted of 29 soil borings (CB-28 through CB-56) drilled across the site. During this investigation, 13 piezometers (P-24 through P-36) were installed in adjacent borings at the site. Piezometer installation is discussed in Section 5.4.3.

Large diameter test borings (LD-1 and LD-2) were drilled in the central portion of the site to provide a visual demonstration of both the source and extremely limited quantities of water in the subsurface clays. The borings were advanced into Stratum II to the approximate depth of the bottom of the proposed excavation. The location of LD-1 and LD-2 are shown in Appendix E2 on Drawing E2.3.

The borings were drilled using a bucket auger rig. A 42-inch steel casing was installed in each boring down to a depth of 39 feet bgs. that extended through the Stratum I clays. The purpose for the steel casing was to isolate Stratum II clays from the above strata in order to evaluate subsurface water conditions in the Stratum II clays. Both borings were then advanced into the Stratum II clays down to the depth of the proposed excavation grade elevation (432 to 437 feet msl) using a 36-inch diameter bucket. The total depth of LD-1 and LD-2 is 65 feet bgs. (elevation 433.55 feet msl) and 75 feet bgs. (elevation 428.85 feet msl), respectively. These depths represent penetrations to several feet below proposed excavation grade.

4.3.3 McBride-Ratcliff – 1987–1990

McBride-Ratcliff conducted an investigation in May 1987 that consisted of 26 borings (CB-1 through CB-13 and CB-15 through CB-27) drilled across the site. During this investigation, 23 piezometers (P-1 through P-23) were drilled in adjacent borings at the site. Piezometer installation is discussed in Section 5.4.3.

4.3.4 Southwestern Laboratories – 1983

Southwestern Laboratories conducted an investigation in August of 1983 that consisted of 11 borings (B-1 through B-11) drilled across the site.

4.3.5 Southwestern Laboratories – 1978

Southwestern Laboratories conducted an investigation in October of 1978 that consisted of four borings drilled in the vicinity of the original permit boundary.

Historical Borings

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
BME 2023 Borings						
BME-1	498.4	124	374.4	-15.6	10/13/2023	Boring
BME-2	448.13	99	349.13	-40.87	10/13/2023	Boring
BME-3	437.45	88	349.45	-40.55	10/13/2023	Boring
BME-4	466.89	92	374.89	-15.11	9/28/2023	Boring
BME-5	467.99	118	349.99	-40.01	9/28/2023	Boring
BME-6	474.6	99	375.6	-14.4	9/30/2023	Boring
BME-7	452.49	103	349.49	-40.51	9/14/2023	Boring
BME-8	443.74	94	349.74	-40.26	9/28/2023	Boring
BME-9	456.53	82	374.53	-15.47	9/27/2023	Boring
BME-10	477.8	126	351.8	-38.2	9/30/2023	Boring
BME-11	450.38	75	375.38	-14.62	9/18/2023	Boring
BME-12	489.32	139	350.32	-39.68	9/13/2023	Boring
BME-13	492.37	117	375.37	-14.63	9/27/2023	Boring
BME-14	461.57	112	349.57	-40.43	9/12/2023	Boring
BME-15	499.9	125	374.9	-15.1	9/26/2023	Boring
BME-16	489.68	140	349.68	-40.32	9/11/2023	Boring
BME-17	483.43	133	350.43	-39.57	9/26/2023	Boring
BME-18	499.2	148	351.2	-38.8	9/26/2023	Boring
BME-19	496.60	147	349.6	-40.4	9/24/2023	Boring
BME-20	496.08	121	375.08	-14.92	9/7/2023	Boring
BME-21	515.56	166	349.56	-40.44	9/21/2023	Boring
BME-22	510.4	165	345.4	-44.6	9/6/2023	Boring
BME-23	515.54	141	374.54	-15.46	9/23/2023	Boring
BME-24	524.08	174	350.08	-39.92	9/21/2023	Boring
BME-25	469.7	93	376.7	-13.3	10/1/2023	Boring
BME-26	482.8	107	375.8	-14.2	10/1/2023	Boring
BME-27	475.6	126	349.6	-40.4	10/1/2023	Boring
BME 2023 Piezometers						
BME-P-1	499.1	28	471.1	81.1	10/14/2023	Piezometer
BME-P-5	468.83	28.5	440.33	50.33	10/14/2023	Piezometer
BME-P-12	489.71	46	443.71	53.71	10/14/2023	Piezometer
BME-P-16	490.28	46.5	443.78	53.78	10/14/2023	Piezometer
BME-P-19	496.65	46	450.65	60.65	10/14/2023	Piezometer

Historical Borings (Continued)

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
BME Borings 2011 (Deepened Near Previous Boring Location)						
CB-9	500.3	165	335.3	-54.7	8/22/2011	Boring
CB-15	458.5	125	333.5	-56.5	8/11/2011	Boring
CB-16	442.5	110	332.5	-57.5	8/19/2011	Boring
CB-17	524.7	190	334.7	-55.3	8/2/2011	Boring
CB-20	541.7	205	336.7	-53.3	8/5/2011	Boring
CB-21	521.3	185	336.34	-53.66	8/17/2011	Boring
CB-23	447.6	115	332.6	-57.4	7/21/2011	Boring
CB-24	508.7	175	333.7	-56.3	7/19/2011	Boring
CB-25	441	105	336	-54	7/14/2011	Boring
CB-26	422.7	90	332.69	-57.31	7/15/2011	Boring
CB-27	418.1	85	333.1	-56.9	7/14/2011	Boring
CB-28	423.8	90	333.8	-56.2	7/18/2011	Boring
CB-29	405.5	70	335.5	-54.5	7/13/2011	Boring
CB-30	430.9	95	335.9	-54.1	8/9/2011	Boring
CB-32	441.1	105	336.1	-53.9	7/12/2011	Boring
CB-33	432.9	100	332.92	-57.08	7/11/2011	Boring
CB-36	437.7	105	332.7	-57.3	8/10/2011	Boring
CB-37	442.8	110	332.8	-57.2	8/9/2011	Boring
CB-38	448.5	115	333.5	-56.5	8/24/2011	Boring
CB-43	439	103.9	335.1	-54.9	8/18/2011	Boring
CB-44	501	165	336	-54	8/15/2011	Boring
CB-56	472.9	140	332.92	-57.08	7/22/2011	Boring
HDR Engineering 1993 Large Diameter Borings						
LD-1	498.55	65	433.55	43.55	Aug-93	Boring
LD-2	503.85	65	438.85	48.85	Aug-93	Boring
HDR Engineering 1991 Borings/Piezometers						
CB-28	423.8	35	388.8	-1.2	4/17/1991	Boring
CB-29 (P-24)	405.5	35	370.5	-19.5	4/17/1991	Piezometer
CB-30	430.9	50	380.9	-9.1	4/22/1991	Boring
CB-31 (P-27)	415.1	35	380.1	-9.9	4/22/1991	Piezometer
CB-32	438.3	45	393.3	3.3	4/22/1991	Boring
CB-33	432	45	387	-3	4/19/1991	Boring
CB-34	473.3	80	393.3	3.3	4/24/1991	Boring
CB-35	434.9	35	399.9	9.9	4/22/1991	Boring
CB-36	437.7	45	392.7	2.7	4/23/1991	Boring
CB-37	442.8	50	392.8	2.8	4/26/1991	Boring

Historical Borings (Continued)

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
HDR Engineering 1991 Borings/Piezometers (Continued)						
CB-38	448.5	50	398.5	8.5	4/24/1991	Boring
CB-39 (P-25) (P-26)	493.8	100	393.8	3.8	4/22/1991	Piezometer
CB-40 (P-28)	437.1	45	392.1	2.1	4/24/1991	Piezometer
CB-41	485.4	85	400.4	10.4	4/25/1991	Boring
CB-42	457.2	70	387.2	-2.8	4/22/1991	Boring
CB-43	439	35	404	14	4/23/1991	Boring
CB-44	501	105	396	6	4/29/1991	Boring
CB-45	441.5	35	406.5	16.5	4/19/1991	Boring
CB-46 (P-29) (P-30)	472.4	65	407.4	17.4	4/26/1991	Piezometer
CB-47	464.3	60	404.3	14.3	4/27/1991	Boring
CB-48	492.3	80	412.3	22.3	4/20/1991	Boring
CB-49 (P-35) (P-36)	493.7	80	413.7	23.7	5/2/1991	Piezometer
CB-50	482.3	65	417.3	27.3	5/1/1991	Boring
CB-51	492.1	75	417.1	27.1	4/30/1991	Boring
CB-52	475.3	65	410.3	20.3	5/1/1991	Boring
CB-53 (P-33) (P-34)	486.4	71	415.4	25.4	4/30/1991	Piezometer
CB-54	468.9	50	418.9	28.9	4/26/1991	Boring
CB-55 (P-31) (P-32)	474.5	60	414.5	24.5	4/29/1991	Piezometer
CB-56	456.1	45	411.1	21.1	4/30/1991	Boring
HDR 1991 Piezometers						
P-24	405.5	35	370.5	-19.5	Aug-91	Piezometer
P-25	493.8	100	393.8	3.8	Aug-91	Piezometer
P-26	493.8	48	445.8	55.8	Aug-91	Piezometer
P-27	415.1	35	380.1	-9.9	Aug-91	Piezometer
P-28	437.1	45	392.1	2.1	Aug-91	Piezometer
P-29	472.4	65	407.4	17.4	Aug-91	Piezometer
P-30	472.4	31	441.4	51.4	Aug-91	Piezometer
P-31	474.5	60	414.5	24.5	Aug-91	Piezometer
P-32	474.5	39	435.5	45.5	Aug-91	Piezometer
P-33	486.4	71	415.4	25.4	Aug-91	Piezometer
P-34	486.4	45	441.4	51.4	Aug-91	Piezometer
P-35	493.7	80	413.7	23.7	Aug-91	Piezometer
P-36	493.7	40	453.7	63.7	Aug-91	Piezometer
McBride-Ratcliff 1987 – 1990 Borings/Piezometers						
CB-1	489.5	70	419.5	29.5	5/21/1987	Boring
CB-2	496.7	65	431.7	41.7	5/22/1987	Boring

Historical Borings (Continued)

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
McBride-Ratcliff 1987 – 1990 Borings/Piezometers (Continued)						
CB-3	479.2	80	399.2	9.2	5/19/1987	Boring
CB-4	489.7	70	419.7	29.7	5/19/1987	Boring
CB-5	496	80	416	26	5/18/1987	Boring
CB-6 (P-5) (P-6) (P-10)	491.4	70	421.4	31.4	5/19/1987	Boring
CB-7	474.6	70	404.6	14.6	5/21/1987	Boring
CB-8	485.5	75	410.5	20.5	5/21/1987	Boring
CB-9	502.7	70	432.7	42.7	5/17/1987	Boring
CB-10 (P-7) (P-12)	435.8	40	395.8	5.8	5/21/1987	Boring
CB-11	510.1	75	435.1	45.1	5/21/1987	Boring
CB-12 (P-8) (P-9)	458.8	50	408.8	18.8	5/22/1987	Boring
CB-13	433.4	50	383.4	-6.6	5/20/1987	Boring
CB-15	443	40	403	13	5/27/1987	Boring
CB-16	440.4	50	390.4	0.4	5/20/1987	Boring
CB-17	493.6	90	403.6	13.6	5/18/1987	Boring
CB-18	414.6	40	374.6	-15.4	5/12/1987	Boring
CB-19 (P-19) (P-20) (P-21) (P-22) (P-23)	414	60	354	-36	5/23/1987	Boring
CB-20	506.1	100	406.1	16.1	5/16/1987	Boring
CB-21 (P-14) (P-15) (P-16)	504.2	100	404.2	14.2	5/16/1987	Boring
CB-22	414.3	35	379.3	-10.7	5/14/1987	Boring
CB-23 (P-1) (P-2)	447.6	45	402.6	12.6	5/21/1987	Boring
CB-24	508.7	100	408.7	18.7	5/14/1987	Boring
CB-25 (P-3) (P-4) (P-11) (P-13)	441	50	391	1	5/13/1987	Boring
CB-26	444.5	50	394.5	4.5	5/12/1987	Boring
CB-27	418.1	50	368.1	-21.9	5/13/1987	Boring
McBride-Ratcliff 1987 Piezometers						
P-1	447.4	23	424.4	34.4	5/27/1987	Piezometer
P-2	447.5	13.5	434	44	5/27/1987	Piezometer
P-3	441.3	25	416.3	26.3	5/27/1987	Piezometer
P-4	441.4	24	417.4	27.4	5/28/1987	Piezometer
P-5	491.6	53	438.6	48.6	5/28/1987	Piezometer
P-6	492.2	42	450.2	60.2	5/28/1987	Piezometer
P-7	435.2	30	405.2	15.2	6/2/1987	Piezometer
P-8	457.4	40	417.4	27.4	6/2/1987	Piezometer
P-9	459	39	420	30	9/30/1987	Piezometer
P-10	491.5	41	450.5	60.5	9/30/1987	Piezometer

Historical Borings (Continued)

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
McBride-Ratcliff 1987 Piezometers (Continued)						
P-11	440	20	420	30	9/30/1987	Piezometer
P-12	439	11	428	38	11/7/1990	Piezometer
P-13	440	35	405	15	11/14/1990	Piezometer
P-14	504	30.8	473.2	83.2	11/6/1990	Piezometer
P-15	504	21.4	482.6	92.6	11/6/1990	Piezometer
P-16	504	61	443	53	11/13/1990	Piezometer
P-17	485	20	465	75	11/13/1990	Piezometer
P-18	485	35	450	60	11/13/1990	Piezometer
P-19	422	76	346	-44	11/15/1990	Piezometer
P-20	424	22	402	12	11/14/1990	Piezometer
P-21	424	12	412	22	11/14/1990	Piezometer
P-22	424	43	381	-9	11/16/1990	Piezometer
P-23	424	128.1	295.9	-94.1	11/16/1990	Piezometer
Southwestern Labs 1983 Borings						
B-1	478	40	438	48	8/12/1983	Boring
B-2	472	40	432	42	8/12/1983	Boring
B-3	488	40	448	58	8/12/1983	Boring
B-4	470	35	435	45	8/12/1983	Boring
B-5	434	15	419	29	8/12/1983	Boring
B-6	502	45	498	108	8/12/1983	Boring
B-7	427	20	407	17	8/12/1983	Boring
B-8	428	15	413	23	8/12/1983	Boring
B-9	434	15	419	29	8/12/1983	Boring
B-10	408	40	372	-18	8/12/1983	Boring
B-11	402	40	365	-25	8/12/1983	Boring
Southwestern Labs 1978 Borings						
1	475	90	386	-4	10/16/1978	Boring
2	502	100	438	48	10/17/1978	Boring
3	445	60	388	-2	10/18/1978	Boring
4	450	65	398	8	10/18/1978	Boring
Monitoring Wells						
MW-1	502.57	55	447.57	57.57	5/23/1995	Plugged 2019
MW-1R	488.99	65	423.99	33.99	10/5/2018	Monitoring Well
MW-2	469.56	37.5	432.06	42.06	5/23/1995	Plugged 2007
MW-2R	502.89	84.85	418.04	28.04	8/23/2007	Monitoring Well

Historical Borings (Continued)

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
Monitoring Wells (Continued)						
MW-3	483.12	55	428.12	38.12	5/24/1995	Plugged 2007
MW-3R	483.67	72.04	411.63	21.63	8/23/2007	Monitoring Well
MW-4	441.10	32.28	408.82	18.82	5/12/1995	Monitoring Well
MW-5	421.92	32	389.92	-0.08	5/13/1995	Plugged 2020
MW-5R	421.56	20.5	401.06	11.06	5/15/2020	Monitoring Well
MW-6	416.81	25	391.81	1.81	5/11/1995	Monitoring Well
MW-7	429.73	25	404.73	14.73	5/10/1995	Monitoring Well
MW-8	444.06	25	419.06	29.06	5/12/1995	Plugged 2006
MW-8R	455.48	11	457.69	54.48	7/20/2015	Monitoring Well
MW-9	418.19	40	378.19	-11.81	5/16/1995	Plugged 2022
MW-9R	412.4	44.5	367.9	-22.1	7/13/2022	Monitoring Well
MW-10	415.3	50	365.3	-24.7	5/23/1995	Plugged 2025
MW-10R	408.5	45	363.50	-26.5	9/5/2025	Monitoring Well
MW-11	415.1	40	375.1	-14.9	5/17/1995	Plugged 2015
MW-11R	423.37	29.5	393.87	3.87	7/20/2015	Monitoring Well
MW-12	417.83	22	395.83	5.83	5/1/1995	Plugged 2026
MW-12R	419.01	21.5	397.51	33.53	1/9/2026	Monitoring Well
MW-13	432.23	25	407.23	17.23	5/15/1995	Plugged 2016
MW-13R	454.92	45.5	409.42	19.42	7/21/2015	Monitoring Well
MW-14	463.51	33	430.51	40.51	9/20/1994	Monitoring Well
MW-15	448.66	26	422.66	32.66	9/20/1994	Monitoring Well
MW-16	446.36	26	420.36	30.36	9/20/1994	Monitoring Well
MW-17	489.85	59	430.85	40.85	9/20/1994	Plugged 2026
MW-17R	487.03	56	431.03	8.01	1/8/2026	Monitoring Well
MW-18	467	49	418	28	9/20/1994	Monitoring Well
MW-19	463.51	31	432.51	42.51	9/20/1994	Monitoring Well
MW-20	466	36	430	40	9/27/1994	Plugged 2003
MW-20R	464.63	36	428.63	38.63	10/20/2003	Monitoring Well
MW-21	412.2	25	387.2	-2.8	10/20/2009	Plugged 2015
MW-21R	429.10	28.45	400.65	10.65	7/20/2015	Monitoring Well
MW-22	429.45	33	396.45	6.45	10/20/2009	Plugged 2022
MW-22R	419.65	12.5	407.15	17.15	7/15/2023	Plugged 2022
MW-22R2	413.58	19.5	394.08	4.08	7/13/2022	Monitoring Well
MW-23	416.7	35	381.7	-8.3	10/20/2009	Plugged 2025
MW-23R	411.76	47	364.7	-25.3	9/5/2025	Monitoring Well

Historical Borings (Continued)

Boring No.	Surface Elevation (ft)	Depth (ft)	Elevation at Total Depth (ft)	Depth Above/Below EDE[1] (ft)	Drill Date	Type
Monitoring Wells (Continued)						
MW-24	421.6	20	401.6	11.6	11/9/2009	Monitoring Well
MW-25	459.5	35	424.5	34.5	10/20/2009	Monitoring Well
MW-26	448.1	20	428.1	38.1	9/29/2009	Monitoring Well
MW-27	480.25	37.5	442.75	52.75	7/21/2015	Monitoring Well
MW-28	489.13	56.75	432.38	42.38	7/21/2015	Monitoring Well
MW-29	453.16	38.59	414.57	24.57	7/20/2015	Plugged 2016
MW-29R	439.6	22	417.6	27.6	6/20/2016	Monitoring Well
MW-30	434.85	14.5	420.35	30.35	7/20/2015	Plugged 2016
MW-30R	456.76	39	417.76	27.76	6/20/2016	Monitoring Well
MW-31	438.23	11	427.23	37.23	7/21/2015	Monitoring Well
MW-32	449.45	18	431.45	41.45	7/21/2015	Monitoring Well
MW-33	450.15	18.5	431.65	41.65	7/22/2015	Monitoring Well
MW-34	432.5	40	392.5	2.5	8/1/2019	Monitoring Well

Notes for Skyline Landfill Historical Borings:
1 – Elevation of Deepest Excavation – 390 feet msl.
2 – Surface elevation not included on original log. Surface elevation is an estimate only.

4.4 Site Stratigraphy

The facility is located on the outcrop of the Taylor Marl. The Taylor Marl is a very dense, low permeability formation consisting of calcareous clays. More than 200 borings have been drilled and sampled on the site and were examined to characterize site stratigraphic conditions. Three geologic cross sections are presented in Appendix E3 that incorporate historic and newly drilled borings. Historical cross sections are included in Appendix E7. For identification purposes, the interpreted units have been labeled Stratum I and Stratum II. These sections illustrate the stratigraphy and lithology present beneath the site. Detailed descriptions of these strata are included in the following sections.

Generalized Site Stratigraphy

Geologic Unit	Lithology	Average Depth to Top of Unit (ft)	Average Thickness of Unit (ft)	Hydrogeologic Unit
Stratum I Weathered Taylor Marl	Clay and Weathered Shale	Surface Outcrop	28	Uppermost Aquifer*
Stratum II Unweathered Taylor Marl	Shale, Clayey	28	425	Aquiclude

*The TCEQ regards the weathered Taylor Marl as an aquifer for groundwater monitoring purposes, but not as a regional aquifer.

4.4.1 Stratum I – Weathered Taylor Marl

The weathered Taylor consists of an average of 28 feet of brown to yellow to light gray, stiff to hard, clay weathered from the marl. The average thickness is about 28 feet The samples range from dry and friable where they are above the water table to moist where they occur below the top of the water table. The weathered Taylor contains occasional calcareous and iron nodules and some silt and sand partings. Near vertical fracturing occurs as a result of the weathering process. Occasional angular jointing is present. Fractures and joints may be filled with calcite or gypsum. Fracture frequency decreases with depth. Field permeability testing of the material shows permeabilities ranging from 5.44×10^{-10} to 1.59×10^{-8} cm/sec. The geometric mean of calculated permeabilities is 4.23×10^{-9} cm/sec (Also see Section 5.3 and the Hydraulic Conductivity Values table). A structural contour map of the top of the unweathered Taylor (base of the weathered Taylor) is shown in Appendix E3 on Drawing E3.5.

Stratum I, as defined in this application, includes the uppermost groundwater zone at the site, which occurs in shallow, fractured, weathered Taylor Marl under unconfined, water table conditions. Groundwater in Stratum I is characterized by fracture flow. In the weathered marl, fracturing is abundant due to weathering processes and expansion from the release of overburden pressure. The groundwater movement in the weathered marl is characterized by flow through the interconnected vertical and horizontal fractures and bedding planes that have hydraulic characteristics of normally porous medium such as a sand or silt. The flow is generally topographically controlled.

4.4.2 Stratum II – Unweathered Taylor Marl

The unweathered Taylor consists of several hundred feet of dark gray to blue gray, hard clayey shale (marl) with iron stains, gypsum seams, and occasional fossils. The surface of the unweathered Taylor is the contact between the weathered and the unweathered Taylor. This surface is a result of the depth of weathering created by shrinking and swelling as a result of alternating rainfall and drying. Eighty-three soil borings penetrate into this unit at a minimum of 10 feet into this stratum. Geotechnical testing performed on samples from this strata concludes that this unit is primarily a clay. Some investigators refer to this material and this part of the Taylor as claystone.

As stated above, the stratigraphy of the site has been defined by the degree of weathering. To illustrate the unweathered surface of the Taylor Marl, a structural contour map of the top of the unweathered Taylor was prepared using information obtained from the borings (Appendix E3, Drawing E3.5). This map indicates that the unweathered unit (Stratum II) surface mimics the original surface topography and slopes to the north-northwest, as does the surface topography. These maps and the generalized cross sections (Appendix E3, Drawings E3.1 through E3.4) support the conclusion that the geologic units generally parallel the surface and are thus related to weathering processes, not to depositional processes.

Fracture density and fracture aperture decreases significantly with depth in the unweathered marl. This decrease in fracturing with depth was observed in the samples from site borings and in excavations in the unweathered zone at this and other sites within the areas of Dallas

and Ellis Counties. This decreased fracture density with depth corresponds to the lower permeability seen in permeability tests conducted in the unweathered zone compared to the permeability results for the weathered zones. Field permeability testing of the material shows permeabilities ranging from 1.61×10^{-8} to 8.54×10^{-10} cm/sec. The geometric mean of calculated permeabilities is 2.59×10^{-9} (Hydraulic Conductivity Values table). Geologic and hydrogeologic characteristics observed in the deeper, unweathered Taylor Marl (Stratum II) indicate that this unit functions as an aquiclude or lower confining unit to the uppermost groundwater zone at the site.

5 GEOTECHNICAL AND HYDROGEOLOGIC DATA

30 TAC §330.63(e)(5)(A)-(F)

5.1 Geotechnical Data

Laboratory tests were performed to determine the geotechnical properties of the subsurface materials that will be encountered in the excavation and to evaluate the suitability of the materials for the proposed waste management unit design. Samples of cohesive materials from each unit that will form the bottom and sides of the excavation and from the units at least 30 feet below the lowest excavation were tested to determine the soil characteristics and to provide a typical profile. Permeability tests were performed on undisturbed samples in accordance with 330.63(e)(5)(B)(i). The summary of laboratory tests from all subsurface investigations are provided in Appendix E8.

Soil will be required for construction of the compacted soil liner and protective cover components of the liner system, and for the infiltration layer and erosion layer components of the final cover system. Soil will also be required for operational cover (daily and intermediate) and general earthfill. Typical material requirements for the various landfill components are listed below.

Typical Material Requirements for Landfill Construction

Landfill Component	Classification	LL	PI	% - 200	Hydraulic Conductivity cm/sec
Soil Liner	SC, CL, CH, MH	30 min	15 min	30 min	1×10^{-7} max
Infiltration Layer	SC, CL, CH, MH	30 min	15 min	30 min	1×10^{-7} max
General Fill, Protective Cover, Operational Cover	SC, CL, CH, ML, CL-ML, MH	No large rocks, not mixed with waste			
Erosion Layer	SC, CL, CH, SM, ML, CL-ML	Suitable to support plant growth			

The soil liner and final cover infiltration layer must be constructed from soils that can be compacted to form a low hydraulic conductivity barrier. The test results indicate that suitable materials are available in Stratum I and III. General fill, protective cover, operational cover and erosion layer soils should not contain large rocks or be mixed with waste. Erosion layer material must be capable of sustaining vegetation. The test results and boring logs indicate that any of the soil material excavated from the site will be suitable for use as general earthfill, operational and protective cover and that the surficial soils will be suitable for use as the final cover system erosion layer.

5.2 Groundwater Occurrence

5.2.1 Groundwater Observation Points – Piezometers/Monitoring Wells

Groundwater observation points are summarized in the table below. Data from 41 piezometers and 34 groundwater monitoring wells, as well as the information from borings, were used to characterize site hydrogeology (see Appendix E3 for cross sections).

Monitoring well data sheets, well reports, and logs of piezometers are provided in Appendix E2 and are summarized in the table below. Piezometer locations are shown on Drawing E2.3. Monitoring well details are provided in Part III, Attachment F.

Piezometer and Groundwater Monitoring Well Details

Well Name	Install Date	Total Depth (ft bgs)	Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Filter Pack Interval (ft msl)	Screened Interval (ft msl)	Layer/Lithology Screened
MONITORING WELLS							
MW-1R	10/15/2018	64	488.99	491.65	448.49 - 424.99	446.49 - 426.49	Weathered Taylor Marl
MW-2R	8/23/2007	85.85	502.89	505.56	442.04 - 417.04	439.04 - 418.04	Weathered Taylor Marl
MW-3R	8/23/2007	73.04	483.67	485.97	435.63 - 410.63	432.63 - 411.63	Weathered Taylor Marl
MW-4	5/12/1995	32.28	441.10	443.60	428.82 - 408.82	426.82 - 408.82	Weathered Taylor Marl
MW-5R	5/15/2020	20.5	421.56	423.56	413.56 - 401.56	414.56 - 401.56	Weathered Taylor Marl
MW-6	5/11/1995	25	416.81	419.96	411.81 - 391.81	409.81 - 391.81	Weathered Taylor Marl
MW-7	5/10/1995	25	429.73	432.67	424.73 - 404.73	422.73 - 404.73	Weathered Taylor Marl
MW-8R	7/20/2015	11	455.48	457.69	451.48 – 444.48	449.48 – 444.48	Weathered Taylor Marl
MW-9R	7/13/2022	44.5	412.40	416.16	380.40 - 368.40	378.40 - 368.40	Weathered/Unweathered Taylor Marl
MW-10R	9/5/2025	45	408.50	410.83	375.50 – 363.50	373.50 – 363.50	Weathered Taylor Marl
MW-11R	7/20/2015	28	423.37	426.10	408.37 - 395.37	405.37 - 395.37	Weathered Taylor Marl
MW-12R	1/9/2026	21.5	419.01	421.48	416.01 - 410.01	408.01 - 398.01	Weathered/Unweathered Taylor Marl
MW-13R	7/21/2016	45.5	454.92	457.07	423.42 - 410.42	421.42 - 411.42	Weathered Taylor Marl
W-14	9/20/1994	32.5	463.51	466.71	455.51 - 431.01	453.51 - 431.01	Weathered Taylor Marl
MW-15	9/20/1994	25.5	448.66	452.2	442.66 - 423.16	440.66 - 423.16	Weathered Taylor Marl
MW-16	9/20/1994	24.5	446.36	449.56	441.36 - 421.86	439.36 - 421.86	Weathered Taylor Marl
MW-17R	1/8/2026	56	487.03	490.14	450.03 – 447.03	442.53 – 432.53	Weathered Taylor Marl
MW-18	9/20/1994	47.5	467.00	470.2	444.00 - 419.50	442 - 419.50	Weathered Taylor Marl
MW-19	9/20/1994	31	441.25	444.45	434.25 - 410.25	432.75 - 410.25	Weathered Taylor Marl
MW-20R	10/20/2003	35.5	464.63	468.03	452.63 - 429.13	450.13 - 430.13	Weathered Taylor Marl
MW-21R	7/20/2015	27.45	429.10	431.94	408.65 - 401.65	406.65 - 401.65	Unweathered Taylor Marl
MW-22R2	7/13/2022	19.5	413.58	416.3	401.58 - 394.58	399.58 - 394.58	Weathered/Unweathered Taylor Marl

Piezometer and Groundwater Monitoring Well Details (continued)

Well Name	Install Date	Total Depth (ft bgs)	Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Filter Pack Interval (ft msl)	Screened Interval (ft msl)	Layer/Lithology Screened
MONITORING WELLS (continued)							
MW-23R	9/5/2025	47	411.76	414.18	376.76 - 364.76	374.76 – 364.76	Weathered Taylor Marl
MW-24	11/9/2009	20	421.58	424.62	412.58 - 401.58	409.58 - 404.58	Weathered Taylor Marl
MW-25	10/20/2009	35	459.53	462.33	439.53 - 424.53	437.53 - 427.53	Weathered Taylor Marl
MW-26	9/29/2009	20	448.09	451.06	438.09 - 428.09	436.09 - 431.09	Weathered Taylor Marl
MW-27	7/21/2015	45.88	489.13	492.04	456.25 - 443.25	454.25 - 444.25	Weathered Taylor Marl
MW-28	7/21/2015	19.28	453.16	456.53	440.88 - 433.88	438.88 - 433.88	Weathered Taylor Marl
MW-29R	6/20/2016	22	439.60	442.23	425.60 - 417.60	423.60 - 418.60	Weathered Taylor Marl
MW-30R	6/20/2016	39	456.76	459.42	425.76 - 417.76	423.76 - 418.76	Weathered/Unweathered Taylor Marl
MW-31	7/21/2015	10.5	438.23	440.81	434.73 - 427.73	433.73 - 428.73	Weathered/Unweathered Taylor Marl
MW-32	7/21/2015	17.5	449.45	451.41	439.95 - 431.95	437.95 - 432.95	Weathered Taylor Marl
MW-33	7/22/2015	18	450.15	452.75	440.15 - 432.15	438.15 - 433.15	Weathered Taylor Marl
MW-34	10/5/2018	39	432.50	435.12	417.00 - 393.50	415.00 - 395.00	Weathered/Unweathered Taylor Marl
2023 BME PIEZOMETERS							
BME-P-1	10/14/2023	28	499.10	501.39	484.10 - 471.10	482.10 - 472.10	Weathered Taylor Marl
BME-P-5	10/14/2023	28.5	468.83	471.06	452.83 - 440.33	450.83 - 440.83	Weathered Taylor Marl
BME-P-12	10/14/2023	46	489.71	492.31	458-21 - 443.71	454.71 - 444.71	Weathered Taylor Marl
BME-P-16	10/14/2023	46.5	490.23	492.62	458.23 - 443.73	455.23 - 445.23	Weathered Taylor Marl
BME-P-19	10/14/2023	46	496.65	499.33	464.64 - 450.65	461.64 - 451.65	Weathered Taylor Marl
PIEZOMETERS							
P-1 (CB-23)	5/27/1987	23	447.4	451.4	432.4 - 424.4	430.4 - 425.4	Weathered Taylor Marl
P-2 (CB-23)	5/27/1987	13.5	447.5	449.5	442.5 - 434.0	439.0 - 434.0	Weathered Taylor Marl
P-3 (CB-25)	5/27/1987	25	441.3	445.3	436.3 - 416.3	421.3 - 416.3	Unweathered Taylor Marl
P-4 (CB-25)	5/28/1987	24	441.4	443.4	425.4 - 417.4	423.4 - 418.4	Unweathered Taylor Marl
P-5 (CB-6)	5/28/1987	53	491.6	493.6	448.6 - 438.6	444.6 - 439.6	Unweathered Taylor Marl
P-6 (CB-6)	5/28/1987	42	492.2	495.2	487.2 - 450.2	455.2 - 450.2	Weathered Taylor Marl
P-7 (CB-10)	6/2/1987	30	435.2	441.2	430.2 - 405.2	411.2 - 406.2	Unweathered Taylor Marl
P-8 (CB-12)	6/2/1987	40	457.4	461.9	452.4 - 417.4	422.4 - 417.4	Unweathered Taylor Marl
P-9 (CB-12)	9/30/1987	39	459	462	430.0 - 420.0	422 - 420	Unweathered Taylor Marl
P-10 (CB-6)	9/30/1987	41	491.5	494.5	460.5 - 450.5	452.5 - 450.5	Weathered Taylor Marl
P-11 (CB-25)	9/30/1987	20	440	443	430.0 - 420.0	422.0 - 420.0	Weathered Taylor Marl
P-12 (CB-10)	11/7/1990	11	439	442.2	434.0 - 428.0	433.1 - 428.0	Weathered Taylor Marl
P-13 (CB-25)	11/14/1990	35	440	443	412.0 - 405.0	410.1 - 405.0	Unweathered Taylor Marl
P-14 (CB-21)	11/6/1990	30.8	504	507	479.0 - 472.2	477.9 - 472.2	Weathered Taylor Marl

Piezometer and Groundwater Monitoring Well Details (continued)

Well Name	Install Date	Total Depth (ft bgs)	Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Filter Pack Interval (ft msl)	Screened Interval (ft msl)	Layer/Lithology Screened
PIEZOMETERS (continued)							
P-15 (CB-21)	11/6/1990	21.4	504	507	489.0 - 482.6	487.7 - 482.6	Weathered Taylor Marl
P-16 (CB-21)	11/13/1990	61	504	507	450.0 - 443.0	448.1 - 443.0	Unweathered Taylor Marl
P-17	11/13/1990	20	485	488	472.0 - 465.0	470.1 - 465.0	Weathered Taylor Marl
P-18	11/13/1990	35	485	488	457.0 - 450.0	455.1 - 450.0	Weathered Taylor Marl
P-19	11/15/1990	76	422	425	352.6 - 345.0	351.1 - 345.0	Unweathered Taylor Marl
P-20	11/14/1990	22	424	427	409.0 - 402.0	407.1 - 402.0	Weathered Taylor Marl
P-21	11/14/1990	12	424	427	420.0 - 413.0	418.1 - 413.0	Weathered Taylor Marl
P-22	11/16/1990	43	424	426	388.0 - 381.0	386.1 - 381.0	Unweathered Taylor Marl
P-23	11/16/1990	128.1	424	427	303.0 - 295.1	301.0 - 295.9	Unweathered Taylor Marl
P-24* (CB-29)	5/9/1991	35	405.5	406.78	381.5 - 370.5	376.5 - 371.5	Weathered Taylor Marl
P-25* (CB-39)	5/9/1991	100	493.8	495.53	406.8 - 393.8	401.8 - 396.8	Unweathered Taylor Marl
P-26* (CB-39)	5/9/1991	48	493.8	497.44	456.8 - 345.8	451.8 - 446.8	Weathered Taylor Marl
P-27* (CB-31)	5/9/1991	35	415.1	417.2	392.1 - 980.1	387.1 - 382.1	Unweathered Taylor Marl
P-28* (CB-40)	5/9/1991	45	437.1	440.61	405.1 - 392.1	400.1 - 395.1	Unweathered Taylor Marl
P-29* (CB-46)	5/9/1991	65	472.4	474.27	420.9 - 407.4	414.4 - 409.4	Unweathered Taylor Marl
P-30* (CB-46)	5/9/1991	31	472.4	475.25	452.4 - 441.4	447.4 - 442.4	Weathered Taylor Marl
P-31* (CB-55)	5/9/1991	60	474.5	476.48	426.5 - 414.5	421.5 - 416.5	Unweathered Taylor Marl
P-32* (CB-55)	5/9/1991	39	474.5	477.6	446.5 - 435.5	441.5 - 436.5	Unweathered Taylor Marl
P-33* (CB-53)	5/9/1991	70	486.4	489.43	428.4 - 416.4	422.4 - 417.4	Unweathered Taylor Marl
P-34* (CB-53)	5/9/1991	45	484.4	487.67	449.4 - 439.4	445.9 - 440.9	Weathered Taylor Marl
P-35* (CB-49)	5/9/1991	80	493.7	495.33	430.2 - 413.7	419.7 - 414.7	Unweathered Taylor Marl
P-36* (CB-49)	5/9/1991	40	493.7	496.44	464.7 - 453.7	459.7 - 454.7	Weathered Taylor Marl

**Surface elevations were not given on piezometer installation logs. However, the surface elevations provided are from the corresponding soil boring near the piezometer.*

Note: The site is founded in fat clay of the Taylor Formation. These clays are subjected to shrink swell, which causes minor fluctuations of survey data.

5.2.2 Water Level Measurements During Drilling

The depth at which groundwater was encountered and records of after-equilibrium measurements in all borings are included in table format in Appendix E5. The cross sections are annotated to note the level at which groundwater was first encountered and the level of groundwater after equilibrium was reached prior to plugging. Borehole water level data are noted on the logs. However, because the borings were drilled with water, it was not generally possible to distinguish between drilling water and formation water. Borehole fluid level data were not used in engineering calculations because the piezometers were properly constructed and screened to provide water level data on individual strata; these data are much more reliable than borehole water observation data. Although, in cases where water levels were identified prior to introduction of drilling water, those water levels are included in the Groundwater Observations During Drilling table in Appendix E5.

5.2.3 Piezometer Installations

As part of the 2023 subsurface characterization, five piezometers were installed in the proposed expansion area.

Twenty-three piezometers (P-1 through P-23) were installed in adjacent borings during the McBride-Ratcliff investigation (1987 to 1990). During the HDR Engineering (1991) investigation, 13 piezometers were drilled and installed at the site. All historical piezometers were previously plugged and abandoned in accordance with appropriate regulations in effect at the time.

5.2.4 Groundwater Monitoring Well Installations

A total of 34 groundwater monitoring wells have been installed and are part of an existing approved Subtitle D groundwater monitoring system. Groundwater monitoring wells are discussed in Section 3 of Attachment F.

5.2.5 Water Level Measurements

Water levels were measured in site historical piezometers from June 1987 to June 1991. Water levels at the site have been measured from December 1994 to the present in site monitoring wells. Water levels have been taken in the newly installed piezometers (BME-P-1, BME-P-5, BME-P-12, BME-P-16, and BME-P-19) from October 2023 to the time of the submittal of this permit amendment. These data are compiled and included in Appendix E5. Measurements of water levels were made to 0.01 foot using an electronic water level indicator. Water level elevations were calculated using measured water levels and surveyed well elevations (top of casing).

5.3 Groundwater Monitoring Analytical Data

A tabulation of historic groundwater chemistry results is provided in Appendix E6. The history of the groundwater monitoring program at the site is discussed in Attachment F.

5.4 Site Hydrogeology

5.4.1 Hydrogeologic Units

5.4.1.1 Stratum I – Weathered Taylor Marl / Uppermost Aquifer

Groundwater is contained in the weathered Taylor Marl as seen in site piezometers and groundwater monitoring wells. Groundwater enters the Taylor Marl at its surface outcrop. Groundwater flow generally mimics the natural site topography and flows predominantly to the east and northeast parts of the site. The groundwater movement in the weathered marl is characterized by flow through the weathered, interconnected vertical and horizontal fractures and bedding planes. Fracture frequency decreases with depth. Extensive near surface weathering of the upper portions (30 to 40 feet) of the Taylor have created fractures and slickensides from the repeated shrinking and swelling of the clays that make up the Taylor so that it has hydraulic characteristics (hydraulic conductivity) equivalent to a normally porous medium such as sand or silt. The geometric mean of calculated permeabilities for Stratum I is 4.23×10^{-9} cm/sec and the arithmetic mean is hydraulic conductivity 7.63×10^{-9} cm/sec. A series of potentiometric surface maps of the groundwater in the weathered Taylor are shown in Appendix E5.

Age dating of groundwater, as discussed in Dutton (1994) suggests that groundwater infiltrating from the surface moves more slowly downward in the weathered zone until it meets the lower permeability, unweathered zone. Groundwater then flows laterally within the weathered zone.

The Taylor Marl is a clayey shale that is made up of clay particles. Clay particles have large surface areas per unit weight compared to typical sand and silt particles. The large surface areas can attract negatively and positively charged ions through adsorption. Inorganic constituents in the groundwater may be adsorbed to the clay particles thereby slowing or stopping contaminant movement (Brady and Weil, 2007).

5.4.1.2 Stratum II – Unweathered Taylor Marl / Lower Confining Unit

Groundwater occurring in the fractures of the unweathered marl immediately beneath the weathered marl would be recharged by the slow, downward movement of groundwater from the overlying shallow, weathered marl zone. Vertical movement of groundwater is retarded by unfractured or slightly fractured, low permeability materials in the Taylor Formation. Only a small fraction (less than 1 percent) of the groundwater that moves through the surficial bedrock moves downward into the unweathered bedrock (Dutton et al., 1994). Once the overlying weathered marl is removed, the underlying unweathered marl will not produce any significant hydrostatic pressure. This has been observed for years in actual constructions at the existing landfill site. Other than surface runoff from

heavy periods of rain, open excavations in the existing landfill area remain dry. The minimal seeps observed in weathered sections of excavation walls dissipate rapidly, with no ponding on the excavation floor.

Observations made during the large diameter test borings demonstrate the limited quantities of water in the subsurface and that saturated conditions do not exist in the unweathered Taylor Marl.

Studies of the Taylor Marl in Ellis County, Texas that employed groundwater dating methods suggest that groundwater in weathered Taylor Marl was recharged within the last 40 to 50 years; that groundwater in the slightly weathered, less fractured, less interconnected Taylor bedrock was recharged within the last 15,000 to 20,000 years; and that the average age of the groundwater in the unweathered Taylor Marl is 1 million years (Dutton et al., 1994). This age dating of groundwater in the unweathered suggests that the deeper water is either not recharged from overlying infiltration through connection to shallow fracturing or poorly recharged. It also suggests that groundwater infiltrating from the surface moves slowly downward in the weathered zone until it meets the lower permeability, unweathered zone. Groundwater then flows laterally within the weathered zone. The geometric mean hydraulic conductivity for Stratum II is 2.59×10^{-9} cm/sec, and the arithmetic mean hydraulic conductivity is 3.63×10^{-9} cm/sec.

Due to the scarcity of fractures and the resulting lower hydraulic conductivity in the decreasing fractures with depth, the unweathered Taylor Marl is the lower confining unit (aquiclude) to the overlying weathered Taylor that serves as the uppermost aquifer at this site for groundwater monitoring purposes.

5.4.2 Hydraulic Conductivity – Field Permeability Tests

Field permeability tests were performed in twenty-one piezometers. The test results are summarized in the Hydraulic Conductivity Values table at the end of this section. The geometric mean of permeabilities calculated for Stratum I is 4.23×10^{-9} cm/sec and 2.59×10^{-9} cm/sec for Stratum II. The arithmetic mean of permeabilities calculated for Stratum I is 7.63×10^{-9} cm/sec and 3.63×10^{-9} cm/sec for Stratum II.

Hydraulic conductivity values were calculated using Hvorslev's method for piezometers P-3, P-5, P-6, P-8, P-9, P-11, P-14, P-16, P-17, P-18, P-19, P-20, P-22, P-23, P-25, P-26, P-29, P-30, P-31, P-33, and P-35.

5.4.3 Groundwater Flow Direction and Rate

5.4.3.1 Groundwater Flow Direction

Groundwater occurs at the site at the interface of weathered Taylor Marl and upper part of the unweathered Taylor Marl. A detailed discussion of groundwater flow direction is included in Section 1.2 of Attachment F.

5.4.3.2 Groundwater Flow Rate

Groundwater flow velocity using a geometric mean for hydraulic conductivity is estimated to flow at approximately 2.54 x 10^{-3} ft/yr in Stratum I, while using an arithmetic mean groundwater is estimated to flow at approximately 4.58 x 10^{-3} ft/yr. All input values and calculations to determine groundwater velocity using arithmetic and geometric mean values are shown on the groundwater velocity calculation sheet in Appendix E5 on Drawing E5.6. Stratum I values were used for calculation and are shown in the Hydraulic Conductivity Values table.

Travel times across the site were estimated using the formula:

$$v = (k * i) / n_e$$

Where: v = travel velocity
k = hydraulic conductivity of the aquifer
i = hydraulic gradient
n_e = effective porosity

Recharge for the uppermost water bearing zone appears to occur entirely within the property boundary. Therefore, as construction of the landfill progresses and areas are lined and capped, the water levels shown on the potentiometric surface maps included in Appendix E5 would be expected to decrease due to a reduction of the recharge. In some areas, groundwater may be divided around a lined cell. Groundwater will continue to flow toward the hydraulic downgradient northern part of the site. Topographic influences and conceptualized, site-specific, groundwater flow drawings are included in Appendix E5.

Hydraulic Conductivity Values

Piezometer No.	Hvorslev's Hydraulic Conductivity (cm/sec)
STRATUM I	
P-3	5.86E-10
	5.44E-10
	9.09E-09
	1.13E-09
P-6	1.78E-09
P-11	1.66E-08
	3.35E-09
P-14	2.91E-08
P-17	2.82E-08
	4.82E-09
P-18	1.59E-08
	8.65E-09
	1.99E-09
P-20	4.24E-09
	3.67E-09
	1.83E-09

Hydraulic Conductivity Values (continued)

	6.04E-09
P-26	3.05E-09
P-30	4.40E-09
Stratum I Geometric Mean	**4.23E-09**
Stratum I Arithmetic Mean	**7.63E-09**
STRATUM I/II	
P-8	4.07E-09
STRATUM II	
P-5	4.23E-09
	3.90E-09
	3.63E-09
	3.08E-09
	2.55E-09
P-9	5.77E-09
	3.42E-09
	8.38E-09
	7.59E-09
P-16	5.63E-09
	2.40E-09
Piezometer No.	**Hvorslev's Hydraulic Conductivity (cm/sec)**
SCREENED INTERVAL STRATUM II (CONTINUED)	
P-19	6.79E-09
	5.47E-09
	4.99E-09
	4.69E-09
	4.14E-09
P-22	1.14E-08
	3.12E-09
	5.63E-09
	3.03E-09
	5.13E-09
P-23	3.99E-10
	8.01E-10
	6.51E-10
P-25	8.54E-10
	8.24E-10
	1.24E-09
	1.40E-09
P-29	6.57E-10
	1.89E-09

Hydraulic Conductivity Values (continued)

	1.15E-09
P-31	5.89E-09
	3.78E-09
	1.26E-09
P-33	1.93E-09
	1.82E-09
	1.61E-08
	1.57E-09
P-35	1.08E-09
	1.32E-09
	1.39E-09
	1.42E-09
Stratum II Geometric Mean	**2.59E-09**
Stratum II Arithmetic Mean	**3.63E-09**

Note – From HDR, 1991.

6 ARID EXEMPTION

30 TAC §330.63(e)(6)

The applicant is not seeking an arid exemption for the landfill unit; therefore, 30 TAC §330.63(e)(6) is not applicable to this application.

7 REFERENCES

Algermissen, S.T., et al., 1991, *Probabilistic Estimates of Maximum Acceleration and Velocity in Rock in the Contiguous United States,* U. S. Geological Survey Open File Report 82-1033.

*Barnes, V.E., 1972 (revised 1987), *Geologic Atlas of Texas, Dallas Sheet,* Bureau of Economic Geology, University of Texas, Austin, Texas.

Bouwer, H., and Rice, R.C., 1976, "A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells", *Water Resources Research,* Vol. 12, No. 3.

*Brady, N.C., and Weil, R., 2007, *The Nature and Properties of Soils*, Prentice Hall, Upper Saddle River, N.J.

Bureau of Economic Geology of Texas, 1990, Tectonic Map of Texas, Austin, Texas.

Bureau of Economic Geology of Texas, 1996, Physiographic Map of Texas, Austin, Texas.

*Camp, Dresser & McKee, Inc., 1978, Permit Application, Ferris Solid Waste Disposal Site, MSW Permit 42-A, approved October 21, 1991.

Cooper, H.H., Jr., Bredehoeft, J.D., and Papadopulos, I.S., 1967, "Response of a Finite-Diameter Well to an Instantaneous Charge of Water", *Water Resources Research,* Vol. 3, No. 1.

*Dutton, A.R., Collins, E.W., Hovorka, S.D., Mace, R.E., Scanlon, B.R., and Xiang, J., 1994, Occurrence and Movement of Ground Water in Austin Chalk and Eagle Ford and Ozan Formations at the Superconducting Super Collider (SSC) Site, Ellis County, Texas, Contract report prepared by Bureau of Economic Geology for Texas National Research Laboratory Commission, Contract No. IAC(92-93)-0301, May.

Ewing, T.E., 1991, *The Tectonic Framework of Texas,* Bureau of Economic Geology, Austin, Texas.

Fogg, Graham E., and Kreitler, Charles W., 1982, *Groundwater Hydraulics and Hydrochemical Facies in Eocene Aquifers of the East Texas Basin*, Bureau of Economic Geology, Austin, Texas.

*HDR Engineering, Inc., 1994, Skyline Landfill and Recycling Center, Permit Amendment Application, Three Volumes, Ferris, Texas.

Kreitler, C.W. et al., 1981, *Geology and Geohydrology of the East Texas Basin*, Texas Bureau of Economic Geology, The University of Texas at Austin.

*Langley, Lon, 1999, *Updated Evaluation of Water Resources of Part of North-Central Texas, 1990 – 1999*, Texas Water Development Board Report 349.

*Cited.

McWhorter, D.B., and Sunada, D.K., 1977, *Groundwater Hydrology and Hydraulics,* Water Resources Publications, Fort Collins, Colorado.

*Nordstrom, P.L., 1982, *Occurrence, availability, and chemical quality of groundwater in the Cretaceous aquifers of north-central Texas:* Texas Department of Water Resources, Report 269, v. 1 and 2.

Sellards, E.H., Adkins, W.S., and Plummer, F.B., 1932, *The Geology of Texas, Volume I: Stratigraphy,* The University of Texas Bulletin No. 3232.

*Texas Water Department Board [TWDB], 1990, Minor Aquifers of Texas.

*Thompson, G.L., 1967, *Groundwater Resources of Ellis County, Texas*, Texas Water Development Board Report 62.

U.S. Environmental Protection Agency, 1993, Technical Manual, *Solid Waste Disposal Facility Criteria*, EPA 530-R-93-017.

*U.S. Geological Survey, 1959, Photo Revised 1968; Topographic Map, Ferris Quadrangle.

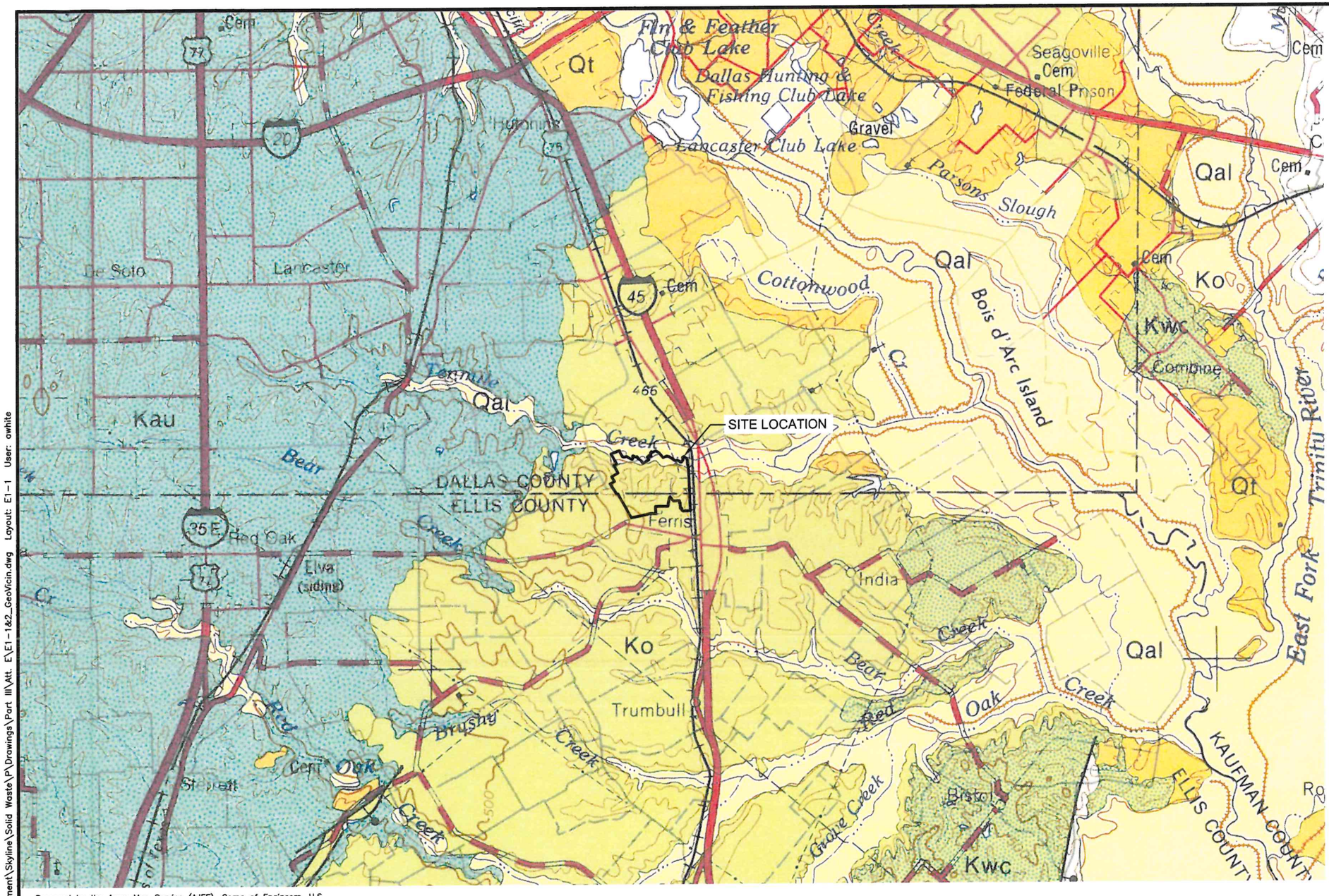
Woodruff, C.M., 1990, *Geothermal Resource Assessment for the State of Texas,* Appendix E, D.O.E. I.D. 12057, Status of Progress, November 1980, Bureau of Economic Geology, 1982.

SKYLINE LANDFILL

APPENDIX E1

REGIONAL GEOLOGIC/HYDROGEOLOGIC DATA

Geologic Vicinity Map
Geologic Vicinity Legend
Generalized Regional Geologic Cross Section
Regional Potentiometric Surface of the Woodbine Aquifer
Regional Potentiometric Surface of the Paluxy Aquifer
Water Well Location Map
Water Well Reports



0 1 2
SCALE IN MILES

INDEX OF GEOLOGIC MAPPING
Numbers in outlined areas refer to items in bibliography in "Index to Areal Geologic Maps in Texas, 1891–1961," by T. E. Brown (1963), Bureau of Economic Geology, The University of Texas at Austin. For area A, see O. D. Weaver, J. A. Rogers, W. F. Buckthal, A. E. Kurie, E. R. Leggat, Dan McGill, and Ray Rall, Geologic map of central Tarrant County, Forth Worth Geological Society; for area B, see C. F. Dodge, Geologic map of the eastern half of Tarrant County, Texas (manuscript map 1966); for area C, see G. H. Norton (1965), Geologic map of Dallas County, Dallas Geological Society. For area D, see Leo Hendricks (1976), Geology of Midcities area, Tarrant, Dallas, and Denton Counties, Texas, Bureau of Economic Geology, University of Texas, Geologic Quadrangle Map No. 42; for subsurface maps of area E, see P. N. Wiggins, III (1954), Geology of Ham Gossett oil field, Kaufman County, Texas, Bull. Amer. Assoc. Petroleum Geologists, v. 38, p. 306–318.

NOTE:

1. SEE DRAWING E1.2 FOR LEGEND.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

Prepared by the Army Map Service (AJEE), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1954 by photogrammetric methods. Horizontal and vertical control by USC&GS and USGS. Aerial photography 1952–53. Photography field annotated 1954.

Base map revisions by the Bureau of Economic Geology. 10,000-meter Universal Transverse Mercator grid tics, zone 14, shown in blue.

VIRGIL E. BARNES, PROJECT DIRECTOR
Geologic mapping by Shell Oil Company, Humble Oil & Refining Company, Dallas Geological Society, Fort Worth Geological Society, Shell Development Company, J. H. McGowen, C.V. Proctor, Jr., W. T. Haenggi, and D. F. Reaser compiled the geologic mapping on high altitude aerial photographs, compiled unmapped areas photogeologically, and field checked all mapping. V. E. Barnes remapped, but did not field check, Quaternary deposits of Dallas and Tarrant counties using U. S. Geological Survey 7.5-minute quadrangles. Geologic mapping reviewed by Geologic Atlas Project Committees of the Dallas Geologic Society, R. J. Cordell (Sun Oil Company), Chairman, E. G. Wermund (Mobil Research and Development Corporation), and R. L. Laury (Southern Methodist University); and the fort Worth Geological Society, W. J. Nolte (Independent Geologist), Chairman, Leo Hendricks (Texas Christian University), and Edward Heuer, Cartographic revisions by R. L. Dillon and J. T. Ames.

CONTOUR INTERVAL 50 FEET

TRANSVERSE MERCATOR PROJECTION
1987 MAGNETIC DECLINATION FOR THIS SHEET
IS 6°20'E. MEAN ANNUAL CHANGE IS 5'42" WESTWARD

GEOLOGIC ATLAS OF TEXAS, DALLAS SHEET

GAYLE SCOTT MEMORIAL EDITION

REVISED 1987

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

GEOLOGIC VICINITY MAP

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817–563–1144

TBPELS FIRM NO. F–256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E1.1

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E1-1&2_GeoVicin.dwg Layout: E1-1 User: owhite

EXPLANATION

Formations Described in Separate Text

QUATERNARY

Qal | Qu — Alluvium and Quaternary deposits undivided

Qt — Fluviatile terrace deposits

TERTIARY

EPAwi — Wilcox Group undivided

PAwp | PAkp — Midway Group

Kkc — Kemp Clay and Corsicana Marl undivided

Kns — Nacatoch Sand

Knm | Kne | Kmb — Neylandville Marl and Marlbrook Marl

Kpg — Pecan Gap Chalk (?)

Kwc — Wolfe City Sand

Ko — Ozan Formation ("lower Taylor marl")

Kau — Austin Chalk

CRETACEOUS

Kef — Eagle Ford Formation

Kwb — Woodbine Formation

Kgm — Grayson Marl and Main Street Limestone undivided

Kpw | Kpd | Kwl | Kfd | Kdc — Pawpaw Formation, Weno Limestone, Denton Clay, Fort Worth Limestone, and Duck Creek Formation

Kki — Kiamichi Formation

Ked | Kcp | Kgl — Edwards Limestone, Comanche Peak Limestone, and Goodland Limestone

Kwa — Walnut Clay

Kpa — Paluxy Sand

Kgl — Glen Rose Formation

Ktm — Twin Mountains Formation

ss2 | IPmw | IPlp | IPvb | IPmw | ss1 | IPhm

Des Moines Series

PENNSYLVANIAN

IPbr — Brazos River Formation

IPm | IPdv | IPm — Mingus Formation

IPbc | IPgr | IPbb2 | IPbb1 — Grindstone Creek Formation

IPmb | IPlb | ls | IPkf ? IPdb — Lazy Bend Formation

IPu — Unnamed Pennsylvanian rocks

Fault

Tics with ball indicate downthrown side; dashed where inferred; short dashes show position of fault in Ham Gossett oil field at top of Woodbine Formation.

CONTOUR INTERVAL 50 FEET

TRANSVERSE MERCATOR PROJECTION
1987 MAGNETIC DECLINATION FOR THIS SHEET IS 6°20'E. MEAN ANNUAL CHANGE IS 5'42" WESTWARD

GEOLOGIC ATLAS OF TEXAS, DALLAS SHEET

GAYLE SCOTT MEMORIAL EDITION

REVISED 1987

Prepared by the Army Map Service (AJEE), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1954 by photogrammetric methods. Horizontal and vertical control by USC&GS and USGS. Aerial photography 1952–53. Photography field annotated 1954.

Base map revisions by the Bureau of Economic Geology. 10,000-meter Universal Transverse Mercator grid tics, zone 14, shown in blue.

VIRGIL E. BARNES, PROJECT DIRECTOR
Geologic mapping by Shell Oil Company, Humble Oil & Refining Company, Dallas Geological Society, Fort Worth Geological Society, Shell Development Company, J. H. McGowen, C.V. Proctor, Jr., W. T. Haenggi, and D. F. Reaser compiled the geologic mapping on high altitude aerial photographs, compiled unmapped areas photogeologically, and field checked all mapping. V. E. Barnes remapped, but did not field check, Quaternary deposits of Dallas and Tarrant counties using U. S. Geological Survey 7.5-minute quadrangles. Geologic mapping reviewed by Geologic Atlas Project Committees of the Dallas Geologic Society, R. J. Cordell (Sun Oil Company), Chairman, E. G. Wermund (Mobil Research and Development Corporation), and R. L. Laury (Southern Methodist University); and the fort Worth Geological Society, W. J. Nolte (independent Geologist), Chairman, Leo Hendricks (Texas Christian University), and Edward Heuer, Cartographic revisions by R. L. Dillon and J. T. Ames.

INDEX OF GEOLOGIC MAPPING
Numbers in outlined areas refer to items in bibliography in "Index to Areal Geologic Maps in Texas, 1891–1961," by T. E. Brown (1963), Bureau of Economic Geology, The University of Texas at Austin. For area A, see O. D. Weaver, J. A. Rogers, W. F. Buckthal, A. E. Kurie, E. R. Leggat, Dan McGill, and Ray Rall, Geologic map of central Tarrant County, Forth Worth Geological Society; for area B, see C. F. Dodge, Geologic map of the eastern half of Tarrant County, Texas (manuscript map 1966); for area C, see G. H. Norton (1965), Geologic map of Dallas County, Dallas Geological Society. For area D, see Leo Hendricks (1976), Geology of Midcities area, Tarrant, Dallas, and Denton Counties, Texas, Bureau of Economic Geology, University of Texas, Geologic Quadrangle Map No. 42; for subsurface maps of area E, see P. N. Wiggins, III (1954), Geology of Ham Gossett oil field, Kaufman County, Texas, Bull. Amer. Assoc. Petroleum Geologists, v. 38, p. 306–318.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

GEOLOGIC VICINITY LEGEND

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E1.2

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E1-1&2_GeoVicin.dwg Layout: E1-2 User: awhite

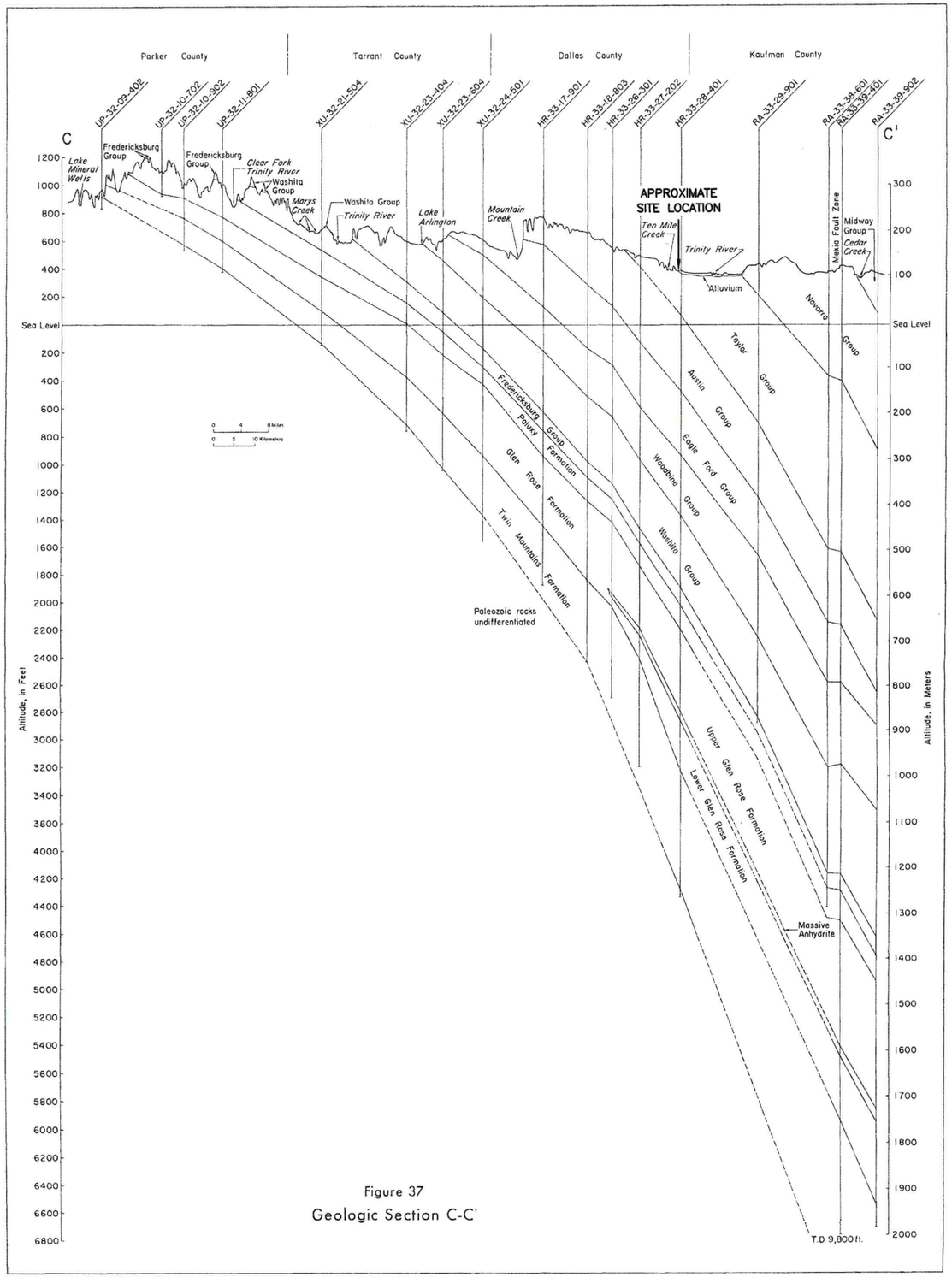
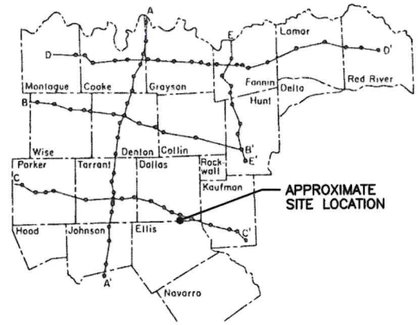


Figure 37
Geologic Section C-C'



Index Map

SOURCE: NORDSTROM, P.L., TEXAS DEPARTMENT OF WATER RESOURCES, REPORT 269: OCCURRENCE, AVAILABILITY, AND CHEMICAL QUALITY OF GROUNDWATER IN CRETACEOUS AQUIFERS OF NORTH-CENTRAL TEXAS, APRIL 1982.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

GENERALIZED REGIONAL GEOLOGIC CROSS SECTION

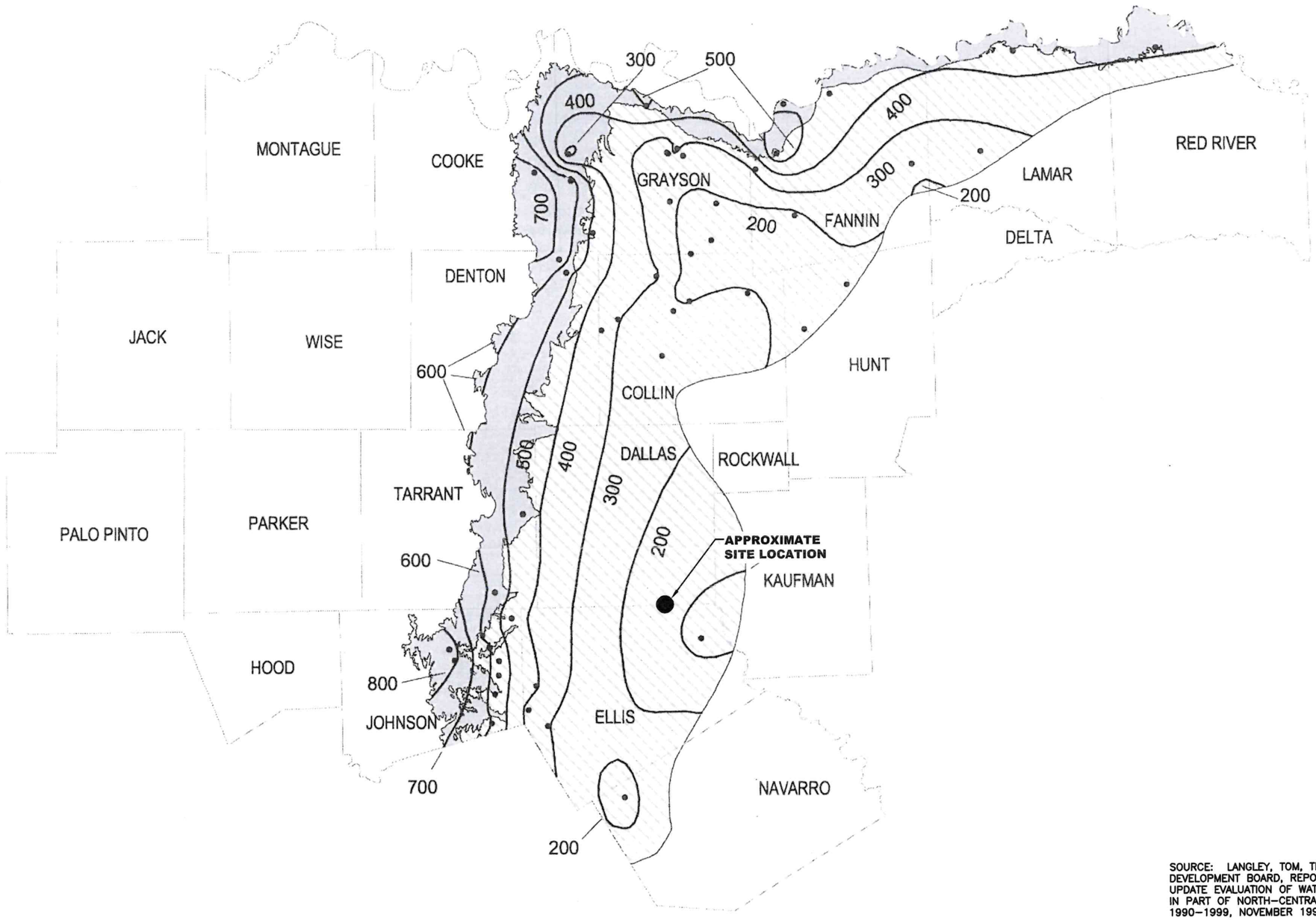
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E1.3

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E1-3_RegXsec.dwg Layout: E1-3 User: awhite



0 10 20
SCALE IN MILES

— contour
• wells
county
Woodbine aquifer
outcrop
downdip

contour interval - 100 feet
datum - mean sea level

SOURCE: LANGLEY, TOM, TEXAS WATER DEVELOPMENT BOARD, REPORT 349: UPDATE EVALUATION OF WATER RESOURCES IN PART OF NORTH-CENTRAL TEXAS 1990-1999, NOVEMBER 1999.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REGIONAL POTENTIOMETRIC SURFACE OF THE WOODBINE AQUIFER

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

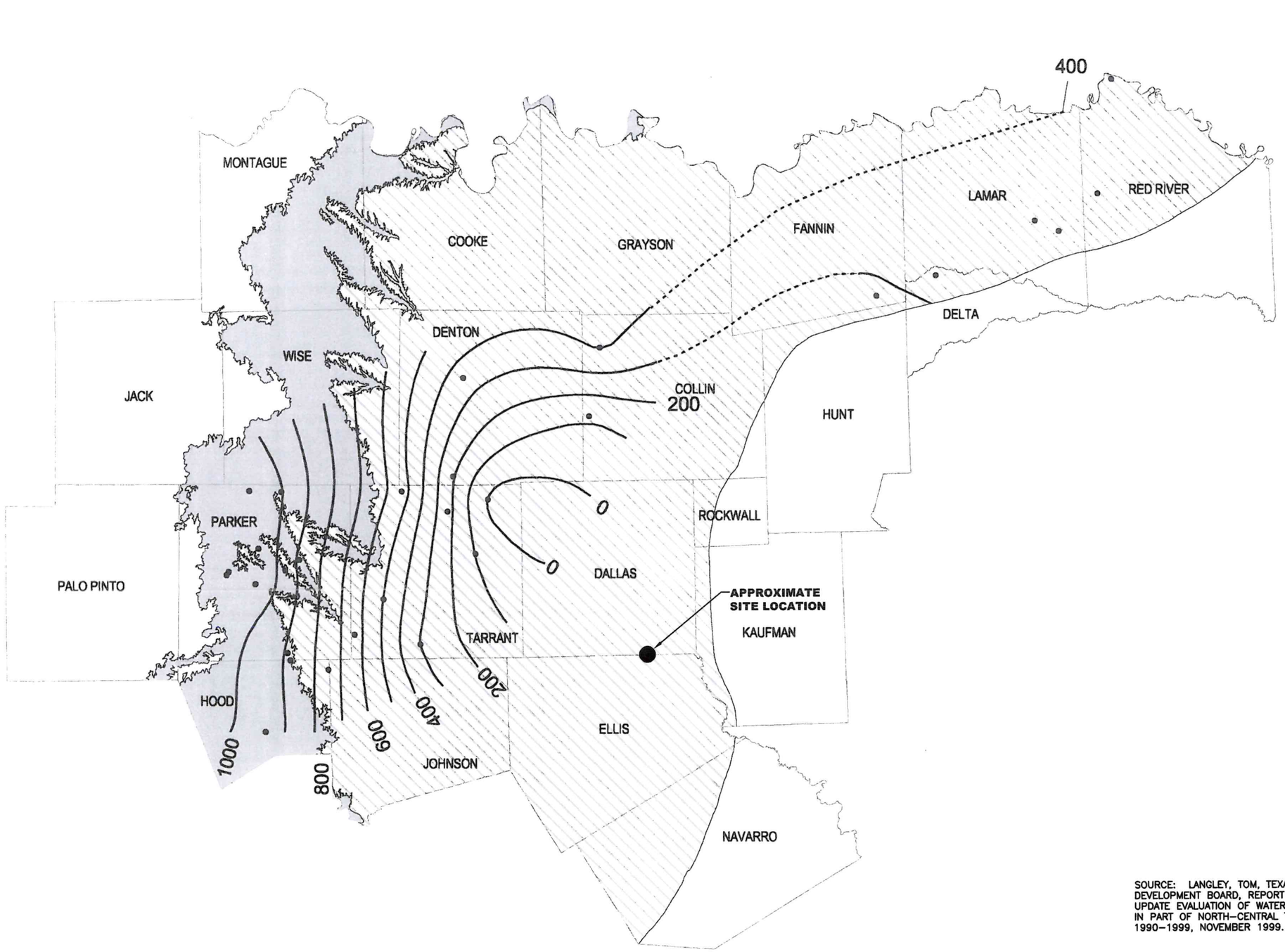
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E1.4

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E1-4_Woodbine.dwg Layout: E1-4 User: awhite



0 10 20
SCALE IN MILES

- wells
- contours (feet above msl)
- county

Paluxy aquifer
- outcrop
- downdip

contour interval - 100 feet
datum - mean sea level

SOURCE: LANGLEY, TOM, TEXAS WATER DEVELOPMENT BOARD, REPORT 349: UPDATE EVALUATION OF WATER RESOURCES IN PART OF NORTH-CENTRAL TEXAS 1990-1999, NOVEMBER 1999.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REGIONAL POTENTIOMETRIC SURFACE OF THE PALUXY AQUIFER

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

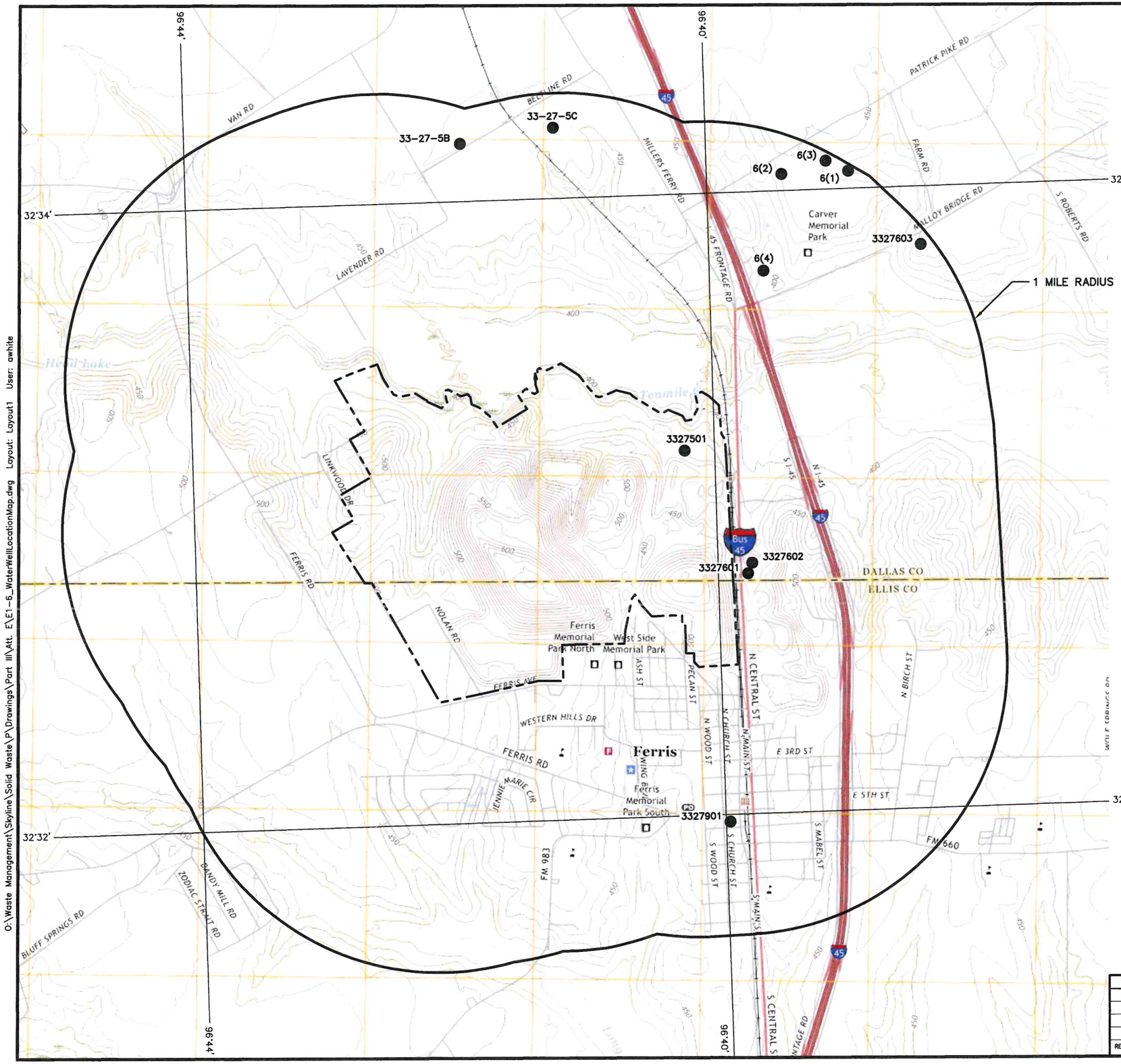
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E1.5

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E1-5_Paluxy.dwg Layout: E1-5 User: owhite



0 1000 2000
SCALE IN FEET

LEGEND

PROPOSED PERMITTED BOUNDARY

WATER WELL

FERRIS, TX
2022

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

WATER WELL LOCATION MAP

WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E1.6

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E1-6_WaterWellLocationMap.dwg Layout: Layout1 User: awhite

TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 3327501

Query for another State Well Number: [ ] Submit

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

Field	Value	*Explanation
STATE WELL NUMBER	3327501	
COUNTY CODE	113	Dallas County, Texas
BASIN	8	Trinity River Basin
PREVIOUS WELL NUMBER		
LATITUDE	323311	DMS (in decimal degrees: 32.553056)
LAT DEC	32.553055	
LONGITUDE	964008	DMS (in decimal degrees: -96.668889)
LONG DEC	-96.668888	
OWNER 1	Acme Brick Co.	
OWNER 2		
DRILLER 1		
DRILLER 2		
SOURCE OF COORDINATES	3	
AQUIFER CODE	212WDBN	WOODBINE SAND
AQUIFER ID1	29	Woodbine Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	405	feet
ELEVATION MEASUREMENT METHOD	M	Interpolated From Topo Map
ALPHA CODE		
DATE DRILLED	00001933	
WELL TYPE	W	Withdrawal of Water
WELL DEPTH	1500	feet

SOURCE OF DEPTH	U	Unknown
TYPE OF LIFT	N	None
TYPE OF POWER		
HORSEPOWER		
PRIMARY WATER USE	U	Unused
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	N	
WATER QUALITY AVAILABLE	Y	Click here for water quality data
WELL LOGS AVAILABLE		
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED		
REPORTING AGENCY		
WELL SCHEDULE IN FILE		
CONTRUCTION METHOD		
COMPLETION		
CASING MATERIAL		
SCREEN MATERIAL		
GMA	8	
RWPA	C	
DISTRICTID		

Groundwater Database Disclaimer

The Groundwater Database (GWDB) of the Texas Water Development Board (TWDB) contains information about more than 123,500 water well, spring, and oil/gas test sites in Texas including associated water level and water quality data. Because data collection methods and data maintenance have varied and evolved over the years, the information in the GWDB has a range of accuracy that the user needs to be aware of. See Explanation of Groundwater Data for information on the sources of information and level of accurracy in the document.

The TWDB is providing information via this Web site as a public service. Except where noted, all of the information provided is believed to be accurate and reliable; however, the Texas Water Development Board (TWDB) assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. **PLEASE NOTE** that users of this Web site are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via this Web site. TWDB specifically disclaims any and all liability for any claims or damages that may result from providing the Web site or the information it contains, including any Web sites maintained by third parties and linked to the TWDB Web site. TWDB makes no effort to verify independently, and does not exert editorial control over information on pages outside of the

www.twdb.state.tx.us domain and its sub-domains. It is the user's responsibility to take precautions to ensure that whatever is selected is free of such items as viruses, worms, Trojan horses and other items of a destructive nature.

For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

This page is maintained by WIID Staff
Last updated on 1/27/2012 10:43:57 AM

TEXAS WATER DEVELOPMENT BOARD

WELL REPORT

Aquifer Woodbine Field No. State Well No. 33-27-501

Owner's Well No. County

1. Location 1/4 1/4 Sec. Block Survey

2. Owner: Acme Brick Co. Address Box 1952, Ft. Worth, Texas

Tenant: Address

Driller: Address

3. Elevation of is 405 ft. above msl, determined by TOPO

4. Drilled 19 Dug, Cable Tool, Rotary,

5. Depth: Repl. 1500 ft. Mead. ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Make Type Hole

No. Stages Bowls Diam. in., Setting ft.

Column Diam. in., Length Tailpipe ft.

8. Motor: Fuel Make & Model HP.

9. Yield: Flow gpm, Pump gpm, Mead,, Repl., Est.

10. Performance Test: Date Length of Test Made by

Static Level ft. Pumping Level ft. Drawdown ft.

Recommended gpm Specific Capacity gpm/ft.

11. Water Levels: 1st reading 1959 above below when is ft. above/below surface.

ft. 2nd reading 19 above below which is ft. above/below surface.

ft. 3rd reading 19 above below which is ft. above/below surface.

ft. 4th reading 19 above below which is ft. above/below surface.

12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflood inj, Observation, Not Used,

13. Quality: (Remarks on taste, odor, color, etc.)

Temp. °F, Date sampled for analysis 4-15-65 Laboratory USGS (Partial)

Temp. °F, Date sampled for analysis Laboratory

Temp. °F, Date sampled for analysis Laboratory

do not use

CASING & LINER PIPE

Cemented From ft. to ft.

Diam. (in.)	Type	Setting, ft. From	Setting, ft. To
4	Steel		

WELL SCREEN

Screen Openings

Diam. (in.)	Type	Setting, ft. From	Setting, ft. To

14. Other Data Available or Circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Mapping Data

15. Record by: Gene Davis Date 4-22 1965

Source of Data USGS Sch. 965

16. Remarks: Well Abandoned: Gate Locked

Well Abandoned

TWDBE-WO-2 (Sketch) 33-27-501

http://wiid.twdb.state.tx.us/ImageViewer/ImageViewer.aspx?image=LW\images\00089\0002721... 11/23/2010

WHITE COPY with

Texas Department of Water Resources
P.O. Box 13087
Austin, Texas 78711
Phone (512) 463-7997

Water Well Completion and Plugging Report

(This form must be completed and filed with the TWC within 30 days following the date the well is plugged as required by current statutory law.)

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711
Phone (512) 463-7997

A. Well Identification and Location Data

1) Owner Waste Management (Name) Address 1320 Greenway, Ste. 1000, Irving, TX 75038 (Street or RFD) (City) (State) (Zip)

2) Owner's Well Number 1

3) Location of Well: County Dallas 1 miles in North (N.E., S.W., etc.) direction from Ferris, TX (Town)

Driller or other person performing the plugging operations must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section lines or survey lines: _____

☒ See Attached map.

B. Historical Data on Well To Be Plugged (if available)

4) Driller _____ License Number _____ City _____

5) Drilled 1933 19___ 6) Diameter of hole 4" inches: 7) Total depth of well 1500 feet.

C. Current Plugging Data

8) Date well plugged 10/15 19 92

9) Sketch of well: Using space at right, show method of plugging the well including all casing and cemented intervals.

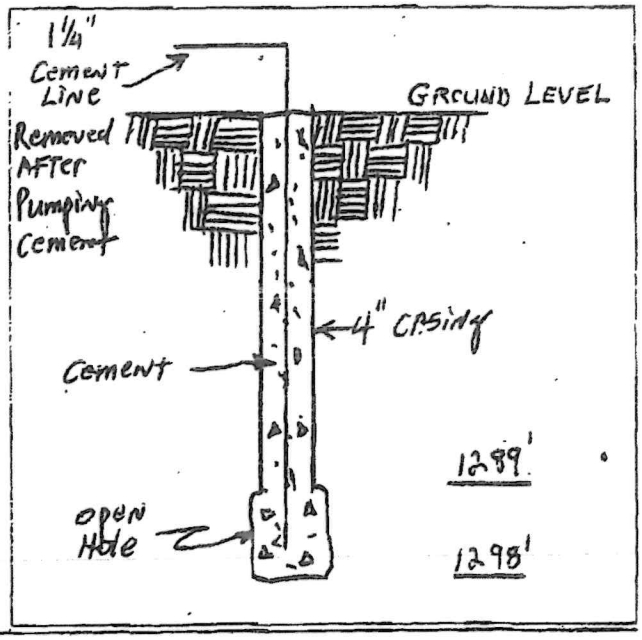
10) Name of Driller or other person actually performing the plugging operations Johnnie Rowe

if a water well driller plugged the well, give the driller's license no. 02114W

11) Casing and cementing data relative to the plugging operations:

Diameter (inches)	Casing Left in Well	
	From (feet)	To (feet)
4"	ground level	1289'

Cement Plug(s) Placed in Well		Sack(s) of cement used
From (feet)	To (feet)	
1298'	ground level	15



D. Validation of Information Included in Form

I hereby certify that this well was plugged by me (or under my supervision) and that all of the statements herein are true and accurate to the best of my knowledge and belief.

Company or Individual's Name Layne-Texas (Type or Print)

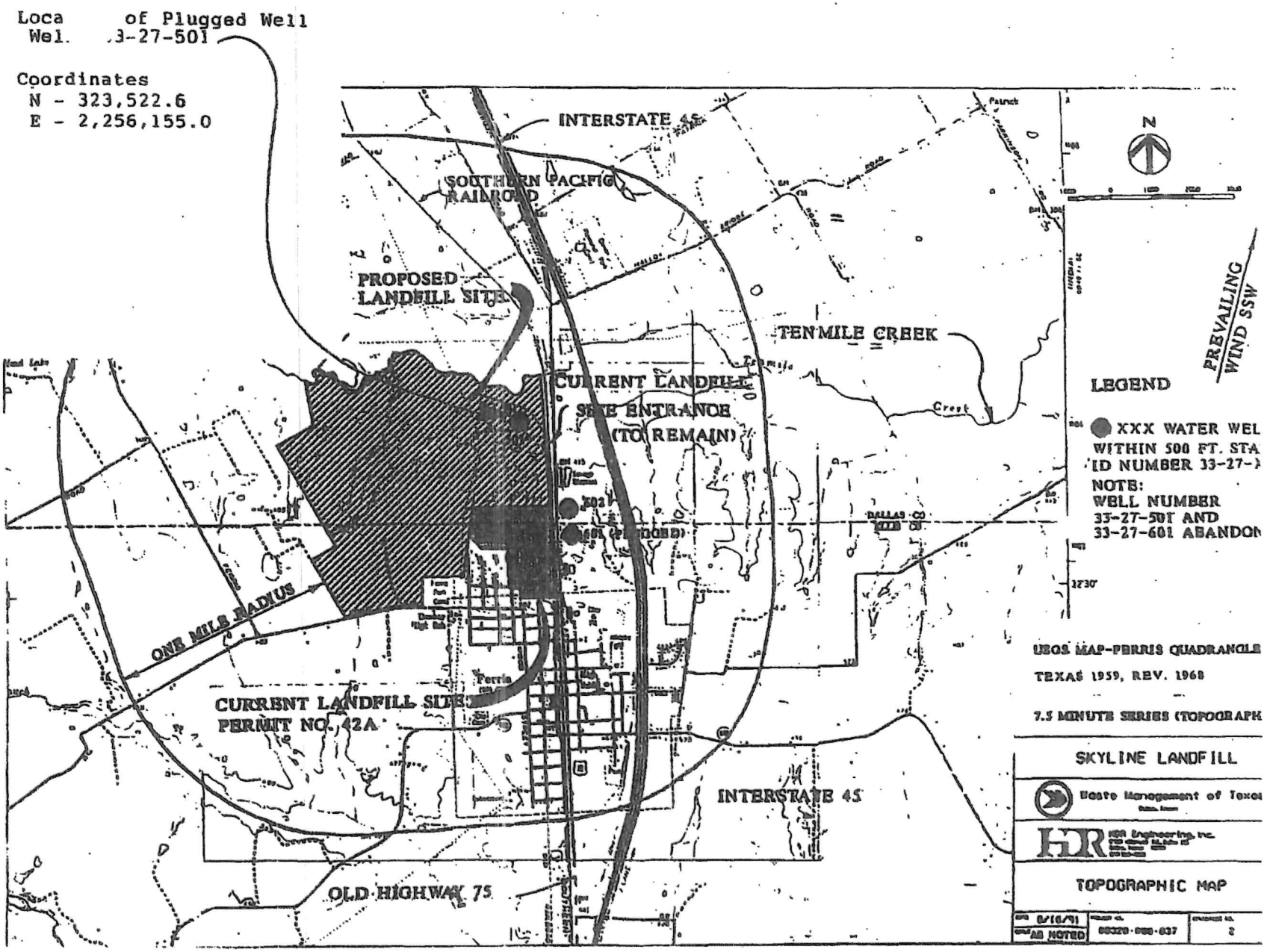
Address 5734 American Legion Road, Tyler, TX 75708-9147 (Street or RFD) (City) (State) (Zip)

(Signed) Johnnie Rowe (Person performing plugging operations) (Signed) Charles Flood (Owner of Well)

For TWC use only
Well No. _____
Location on map _____

WWD-009

TEXAS WATER COMMISSION'S COPY


Loca of Plugged Well
Wel. 3-27-501
Coordinates
N - 323,522.6
E - 2,256,155.0
INTERSTATE 45
SOUTHERN PACIFIC RAILROAD
PROPOSED LANDFILL SITE
TEN MILE CREEK
CURRENT LANDFILL SITE ENTRANCE (TO REMAIN)
ONE MILE RADIUS
CURRENT LANDFILL SITE PERMIT NO. 42A
INTERSTATE 45
OLD HIGHWAY 75
PREVAILING WIND SSW
LEGEND
XXX WATER WEL
WITHIN 500 FT. STA
ID NUMBER 33-27-
NOTE:
WELL NUMBER
33-27-501 AND
33-27-601 ABANDON
USGS MAP-FERRIS QUADRANGLE
TEXAS 1959, REV. 1968
7.5 MINUTE SERIES (TOPOGRAPH
SKYLINE LANDFILL
Waste Management of Texas
HR Engineering, Inc.
TOPOGRAPHIC MAP

33-27-5B

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

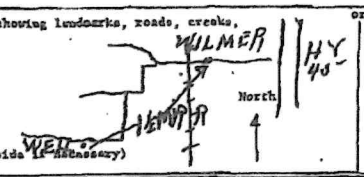
For TWDB use only
Well No. 33-27-5B
Located on map yes
Received: c.f.s.

1) OWNER:
Person having well drilled Sassin & Sons Inc. (Name) Address 4215 Beachwood La. (Street or RFD) Dallas (City) Tex. (State) 75220

Landowner same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas, 1½ miles in S. W. (N.E., S.W., etc.) direction from Wilmer, Tex. (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check): New Well X, Deepening, Reconditioning, Plugging

4) PROPOSED USE (Check): Domestic X, Industrial, Municipal, Irrigation, Test Well, Other

5) TYPE OF WELL (Check): Rotary X, Driven, Dug, Cable, Jetted, Bored

6) WELL LOG:
Diameter of hole 6½ in. Depth drilled 1395 ft. Depth of completed well 1395 ft. Date drilled 3-20-84
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	5'	top soil
5'	25	clay
25	80	grey shale
80	600	Austin chalk
600	1075	Eagle ford shale
1075	1180	broken sand & shale
1180	1200	sand
1200	1280	broken sand
1280	1305	sand
1305	1358	broken sand & shale
1358	1395	sand

(Use reverse side if necessary)

9) Casing:
Type: Old, New X, Steel X, Plastic, Other
Cemented from top ft. to 1395 ft.

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Gage
4½" OD	1395	2' above ground	9½ lb.

10) SCREEN:
Type 10 jet shots
Perforated, Slotted

Diameter (inches)	Setting From (ft.)	Setting To (ft.)	Slot Size
4½" OD	1370'	1380'	3/8"

7) COMPLETION (Check):
Straight wall X, Gravel packed, Other
Under reamed, Open Hole

8) WATER LEVEL:
Static level 400 ft. below land surface Date 3-20-84
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.
2 H.P. Red Jacket pump & motor
483' 1¼" pump pipe
no 8 cable

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No.
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. M. Stoner (Type or Print) Water Well Drillers Registration No. 17

ADDRESS Rt. 5 Box 757 (Street or RFD) Cleburne (City) Texas (State) 76031

(Signed) C. M. Stoner (Water Well Driller) Stoner Drilling Inc. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

RECEIVED
APR 16 1984
DEPT. OF WATER RESOURCES

*Additional instructions on reverse side.

TWDB-WQ-0 Driller Trainee C. C. Blair

E1.13

2) LOCATION OF WELL:

The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and directions given should be of a permanent nature (e.g. highway intersections, center of towns, river and creek bridges, railroad crossings). The distance and direction from the nearest town should always be indicated.

When giving a legal description include a sketch showing location of the well within the described area. e.g. survey abstract.

Information furnished in Section 2) of the TWDBR-GW-53 is very important. Unless the well can be accurately located on a map the value of the other data contained in the Report is greatly reduced.

RECEIVED
APR 16 1934
DEPT. OF
WATER RESOURCES

33-27-5C

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

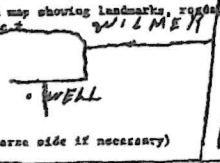
For TWDB use only
Well No. 33-27-5c
Located on map yes
Received: C.F.S.

1) OWNER:
Person having well drilled T. J. Kimbrow (Name) Address 119 W First Keene, Texas (Street or RFD) (City) 76059 (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Dallas 1 miles in S (N.E., S.W., etc.) direction from Wilmer, Texas (Town)

Locate by sketch map showing landmarks, roads, streams, hiway number, etc.



(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor League
Block Survey
Abstract No.
(NW¼ NE¼ SW¼ SE¼) of Section

3) TYPE OF WORK (Check): New Well X Deepening Reconditioning Plugging

4) PROPOSED USE (Check): Domestic X Industrial Municipal Irrigation Test Well Other

5) TYPE OF WELL (Check): Rotary X Driven Dug Cable Jetted Bored

6) WELL LOG:
Diameter of hole 6 3/4 in. Depth drilled 1430 ft. Depth of completed well 1430 ft. Date drilled 3-14-84
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	3	top soil
3	70	gray sha yellow shale
70	85	gray shale
85	596	Austin chalk
596	1060	Egale shale ford shale
1060	1218	broken sand & shale
1218	1260	sand
1260	1288	broken shale
1288	1310	sand
1310	1330	broken sand
1330	1348	sand
1348	1430	broken sand & shale

(Use reverse side if necessary)

9) Casing:
Type: Old New X Steel X Plastic Other
Cemented from top ft. to 1430 ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
4½" OD			
	1430' 2' above ground 9½ lb.		

10) SCREEN:
Type 10 jet shots
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size
4½" OD	1334 '	1343'	3/8"

7) COMPLETION (Check):
Straight wall X Gravel packed Other
Under reamed Open Hole

11) WELL TESTS:
Was a pump test made? Yes No If yes, by whom?
Yield: gpm with ft. drawdown after hrs.
Bailer test gpm with ft. drawdown after hrs.
Artesian flow gpm
Temperature of water

8) WATER LEVEL:
Static level 400 ft. below land surface Date 3-14-84
Artesian pressure lbs. per square inch Date
Depth to pump bowls, cylinder, jet, etc., ft.
below land surface.
set 5 H.P. single stage phase
30 stage pump
483' of 1¼" pipe, no 6 cable
Red Jacket pump

12) WATER QUALITY:
Was a chemical analysis made? Yes No
Did any strata contain undesirable water? Yes No.
Type of water? depth of strata

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME C. M. Stoner (Type or Print) Water Well Drillers Registration No. 17

ADDRESS Rt. 5 Box 757 (Street or RFD) Cleburne (City) Texas (State) 76031

(Signed) C. M. Stoner (Water Well Driller) Stoner Stoner Drilling Inc. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

RECEIVED
APR 16 1984
DEPT. OF WATER RESOURCES

*Additional instructions on reverse side.

THIS BOARD'S Driller Trainee C. C. Blair Jr.

2)LOCATION OF WELL:

The sketch showing the well location must be as accurate as possible, showing landmarks, in sufficient detail so that the well may be plotted on a General Highway Map of the county in which the well is located.

Reference points from which distances are measured and directions given should be of a permanent nature (e.g. highway intersections, center of towns, river and creek bridges, railroad crossings). The distance and direction from the nearest town should always be indicated.

When giving a legal description include a sketch showing location of the well within the described area. e.g. survey abstract.

Information furnished in Section 2) of the TWDBE-GW-53 is very important. Unless the well can be accurately located on a map the value of the other data contained in the Report is greatly reduced.

RECEIVED
APR 16 1984
DEPT. OF
WATER RESOURCES

TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 3327601

Query for another State Well Number: Submit

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

Field	Value	*Explanation
STATE WELL NUMBER	3327601	
COUNTY CODE	113	Dallas County, Texas
BASIN	8	Trinity River Basin
PREVIOUS WELL NUMBER		
LATITUDE	323247	DMS (in decimal degrees: 32.546389)
LAT DEC	32.546388	
LONGITUDE	963954	DMS (in decimal degrees: -96.665000)
LONG DEC	-96.665	
OWNER 1	City of Ferris	
OWNER 2	Well #1	
DRILLER 1	R. H. Dearing and	
DRILLER 2	Sons	
SOURCE OF COORDINATES	1	
AQUIFER CODE	212WDBN	WOODBINE SAND
AQUIFER ID1	29	Woodbine Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	421	feet
ELEVATION MEASUREMENT METHOD	M	Interpolated From Topo Map
ALPHA CODE	285600	CITY OF FERRIS C/O WATER SUPT.
DATE DRILLED	00001914	
WELL TYPE	W	Withdrawal of Water

WELL DEPTH	1408	feet
SOURCE OF DEPTH		
TYPE OF LIFT	N	None
TYPE OF POWER		
HORSEPOWER		
PRIMARY WATER USE	U	Unused
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	N	
WATER QUALITY AVAILABLE	Y	Click here for water quality data
WELL LOGS AVAILABLE		
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED		
REPORTING AGENCY		
WELL SCHEDULE IN FILE	Y	
CONTRUCTION METHOD		
COMPLETION		
CASING MATERIAL		
SCREEN MATERIAL		
GMA	8	
RWPA	C	
DISTRICTID		

Groundwater Database Disclaimer

The Groundwater Database (GWDB) of the Texas Water Development Board (TWDB) contains information about more than 123,500 water well, spring, and oil/gas test sites in Texas including associated water level and water quality data. Because data collection methods and data maintenance have varied and evolved over the years, the information in the GWDB has a range of accuracy that the user needs to be aware of. See Explanation of Groundwater Data for information on the sources of information and level of accurracy in the document.

The TWDB is providing information via this Web site as a public service. Except where noted, all of the information provided is believed to be accurate and reliable; however, the Texas Water Development Board (TWDB) assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. **PLEASE NOTE** that users of this Web site are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via this Web site. TWDB specifically disclaims any and all liability for any claims or damages that may result from providing the Web site or the information it contains, including any Web sites maintained by third parties and linked to the TWDB Web site.

TWDB makes no effort to verify independently, and does not exert editorial control over information on pages outside of the www.twdb.state.tx.us domain and its sub-domains. It is the user's responsibility to take precautions to ensure that whatever is selected is free of such items as viruses, worms, Trojan horses and other items of a destructive nature.

For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

This page is maintained by WIID Staff
Last updated on 1/29/2009 4:00:08 PM

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer: Woodbine Field No. 141 State Well No. 33-27-601

Owner's Well No. County: Dallas

1. Location: 1/4, 1/4 Sec., Block, Survey
6½ mile SE of Lancaster, Texas
2. Owner: City of Farris Address: Farris, Texas
Tenant: Address:
Driller: R.H. Dearing & Sons Address:
3. Elevation of is 421 ft. above msl, determined by TOPO
4. Drilled: 19 14 ; Dug, Cable Tool, Rotary
5. Depth: Rept. 1408 ft. Meas. ft.
6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed
7. Pump: Mfgr. Type Turbine
No. Stages, Bowls Diam. in., Setting ft.
Column Diam. in., Length Tailpipe ft. NONE
8. Motor: Fuel Elect Make & Model No. 5
9. Yield: Flow gpm, Pump 150 gpm, Meas., Rept., 2st.
10. Performance Test: Date Length of Test Made by
Static Level ft. Pumping Level ft. Drawdown 40 ft.
Production 150 gpm Specific Capacity gpm/ft.

CASING & BLANK PIPE			
Cemented From ft. to ft.			
Diam. (in.)	Type	Setting, ft. from	to
6	Steel	0	1400

11. Water Level: Flows ft. meas. 1942 19 above/below which is ft. above/below surface.
ft. rept./meas. 19 above/below which is ft. above/below surface.
ft. rept./meas. 19 above/below which is ft. above/below surface.
ft. rept./meas. 15 above/below which is ft. above/below surface.
12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used, plugged
13. Quality: (Remarks on taste, odor, color, etc.)
Temp. °F, Date sampled for analysis 9-1-42 Laboratory USGS
Temp. °F, Date sampled for analysis 1-27-43 Laboratory USGS
Temp. °F, Date sampled for analysis Laboratory
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test,
15. Record by: Gene Davis Date 4-15 1975
Source of Data Dallas Co. Report, TBWE, obs
16. Remarks: Well flowed after pump idle 24 hrs.
→ Well plugged & abandoned

WELL SCREEN			
Screen Openings			
Diam. (in.)	Type	Setting, ft. from	to
	?		

next to -602

(Sketch)

TWDBE-WD-2

33-27-601

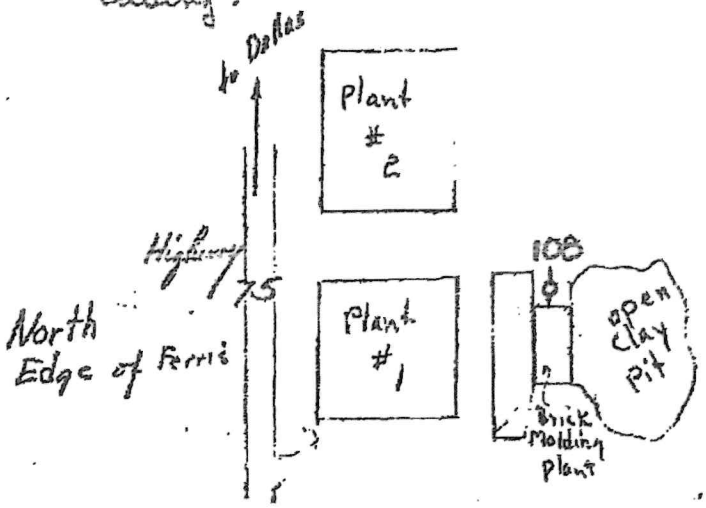
120

Driller's Log

0-18 - Clay
22 - Gravel
140 - Shale
565 - Rock, white
590 - Shale
600 - Pan, hard
685 - Shale
686 - Rock
709 - Shale
728 - Gumbo
890 - Shale
898 - Pan, hard
975 - Shale
1,023 - Gumbo
1,050 - Shale
1,076 - Gumbo
1,100 - Shale, hard
1,101 - Rock
1,125 - Shale, hard, with sand
1,130 - Soapstone
1,131 - Rock
1,145 - Shale, hard
1,150 - Soapstone
1,151 - Rock
1,196 - Sand
1,317 - Limestone, dirt
1,343 - Sand

HR 33-27-601

This well is abandoned, nothing left but the casing, which is bent over even with the surface of the ground, and sufficient to find. The sight has no knowledge of the well being plugged, and all that is wrong is that a little dirt, grass etc. has washed into the top part of the casing.



HR 33-27-601

TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 3327602

Query for another State Well Number: Submit

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

Field	Value	*Explanation
STATE WELL NUMBER	3327602	
COUNTY CODE	113	Dallas County, Texas
BASIN	8	Trinity River Basin
PREVIOUS WELL NUMBER		
LATITUDE	323249	DMS (in decimal degrees: 32.546944)
LAT DEC	32.546944	
LONGITUDE	963953	DMS (in decimal degrees: -96.664722)
LONG DEC	-96.664722	
OWNER 1	City of Ferris	
OWNER 2	Well #3	
DRILLER 1	J. L. Myers Sons	
DRILLER 2		
SOURCE OF COORDINATES	0	
AQUIFER CODE	212WDBN	WOODBINE SAND
AQUIFER ID1	29	Woodbine Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	421	feet
ELEVATION MEASUREMENT METHOD	M	Interpolated From Topo Map
ALPHA CODE	285600	CITY OF FERRIS C/O WATER SUPT.
DATE DRILLED	06001963	
WELL TYPE	W	Withdrawal of Water

WELL DEPTH	1362	feet
SOURCE OF DEPTH	D	Driller's Log
TYPE OF LIFT	S	Submersible Pump
TYPE OF POWER	E	Electric Motor
HORSEPOWER	25.00	
PRIMARY WATER USE	P	Public Supply
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	M	Click here for water level data
WATER QUALITY AVAILABLE	Y	Click here for water quality data
WELL LOGS AVAILABLE	D	
OTHER DATA AVAILABLE	A	
DATE COLLECTED OR UPDATED	04201965	
REPORTING AGENCY	02	US GEOLOGICAL SURVEY
WELL SCHEDULE IN FILE	Y	
CONTRUCTION METHOD	H	Hydraulic Rotary
COMPLETION	G	Gravel Pack w/Screen
CASING MATERIAL	S	Steel
SCREEN MATERIAL	S	Steel
GMA	8	
RWPA	C	
DISTRICTID		

Groundwater Database Disclaimer

The Groundwater Database (GWDB) of the Texas Water Development Board (TWDB) contains information about more than 123,500 water well, spring, and oil/gas test sites in Texas including associated water level and water quality data. Because data collection methods and data maintenance have varied and evolved over the years, the information in the GWDB has a range of accuracy that the user needs to be aware of. See Explanation of Groundwater Data for information on the sources of information and level of accurracy in the document.

The TWDB is providing information via this Web site as a public service. Except where noted, all of the information provided is believed to be accurate and reliable; however, the Texas Water Development Board (TWDB) assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. **PLEASE NOTE** that users of this Web site are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via this Web site. TWDB specifically disclaims any and all liability for any claims or damages that may result from providing the Web site or the information it contains, including any Web sites maintained by third parties and linked to the TWDB Web site.

TWDB makes no effort to verify independently, and does not exert editorial control over information on pages outside of the www.twdb.state.tx.us domain and its sub-domains. It is the user's responsibility to take precautions to ensure that whatever is selected is free of such items as viruses, worms, Trojan horses and other items of a destructive nature.

For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

This page is maintained by WIID Staff
Last updated on 1/29/2009 4:00:08 PM

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Woodbine | Field No. | State Well No. 33-27-602
Owner's Well No. #3 | County Dallas

1. Location 1/4 1/4 Sec. Block Survey

2. Owner City of Ferris Address 215 Church St, Ferris, Tex.
Tenant Address
Driller J.L. Myers Sons Address Dallas, Texas
3. Elevation of 434 ft. above msl, determined by Topo
4. Drilled June 19 63 Dug, Cable Tool, Rotary
5. Depth: Cored 1390 ft. Rock ft.
6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed
7. Pump: Manf. Type Turbine
No. Stages Bowls Dia. in., Setting 400 ft.
Column Dia. in., Length Tailpipe ft.
8. Motor: Fuel Elect Make & Model HP. 25
9. Yield: Flow gpm, Pump gpm, Hour., Depth., Ft.
10. Perforation Test: Date 7-10-63 Length of Test 6hrs Made by J.L. Myers
Static Level 240 ft. Pumping Level 346 ft. Drawdown 106 ft.
Production 150 gpm Specific Capacity gpm/ft.
11. Water Level: 240 ft. Artes. Meas. 7-10 19 63 above below msl which is ft. above below surface.
ft. Depth Meas. 19 above below which is ft. above below surface.
ft. Depth Meas. 19 above below which is ft. above below surface.
ft. Depth Meas. 19 above below which is ft. above below surface.
12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used
13. Quality: (Remarks re taste, odor, color, etc.)
Temp. °F, Date sampled for analysis 6-1-65 Laboratory USGS
Temp. °F, Date sampled for analysis 3-13-75 Laboratory TSHD
Temp. 94 °F, Date sampled for analysis 6-1-75 Laboratory TSDH
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test,
15. Record by Gene Davis Date 3-65 905
Source of Data Water Surv. 065
16. Remarks: Abd Lease 4000'

CASING & BLANK PIPE

Cemented From 0 ft. to 1288 ft.			
Diam. (in.)	Type	Depth, ft. From	To
12	Steel	0	30
8 5/8	"	0	1288
4 1/2	"	1130	1288
5 1/2	"	1288	1352
4 1/2	"	1352	1362

WELL SCREEN

Screen Openings			
Diam. (in.)	Type	Setting, ft. From	To
5 1/2	screen	1288	1318
5 1/2	"	1318	1322
5 1/2	"	1322	1352

TWDB-WD-2

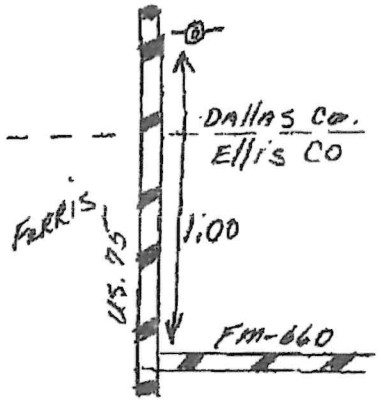
(Sketch) BACK

33-27-602

http://wiid.twdb.state.tx.us/ImageViewer/ImageViewer.aspx?image=LW\images\00089\0002721... 11/24/2010

DRILLERS LOG

0 - 3 - surface soil
26 - Clay
132 - Shale
652 - Chalk Rock
1110 - Shale
1116 - Broken Sand
1125 - Shale
1129 - Sand
1138 - Sand & Shale
1149 - Shale
1163 - Sandy Shale
1182 - Sand
1210 - Shale
1243 - Sand
1285 - Shale
1308 - Sand
1345 - Broken Sand
1369 - Shale
1372 - Sand
1390 - Shale



33-27-602

TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 3327603

Query for another State Well Number: Submit

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

Field	Value	*Explanation
STATE WELL NUMBER	3327603	
COUNTY CODE	113	Dallas County, Texas
BASIN	8	Trinity River Basin
PREVIOUS WELL NUMBER		
LATITUDE	323350	DMS (in decimal degrees: 32.563889)
LAT DEC	32.563888	
LONGITUDE	963913	DMS (in decimal degrees: -96.653611)
LONG DEC	-96.653611	
OWNER 1	Donna Burge	
OWNER 2		
DRILLER 1	J. L. Myers Sons	
DRILLER 2		
SOURCE OF COORDINATES	1	
AQUIFER CODE	212WDBN	WOODBINE SAND
AQUIFER ID1	29	Woodbine Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	445	feet
ELEVATION MEASUREMENT METHOD	M	Interpolated From Topo Map
ALPHA CODE		
DATE DRILLED	00001964	
WELL TYPE	W	Withdrawal of Water
WELL DEPTH	1360	feet

SOURCE OF DEPTH		
TYPE OF LIFT	S	Submersible Pump
TYPE OF POWER	E	Electric Motor
HORSEPOWER	3.00	
PRIMARY WATER USE	H	Domestic
SECONDARY WATER USE	S	Stock
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	M	Click here for water level data
WATER QUALITY AVAILABLE	Y	Click here for water quality data
WELL LOGS AVAILABLE		
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED		
REPORTING AGENCY		
WELL SCHEDULE IN FILE	Y	
CONTRUCTION METHOD		
COMPLETION		
CASING MATERIAL		
SCREEN MATERIAL		
GMA	8	
RWPA	C	
DISTRICTID		

Groundwater Database Disclaimer

The Groundwater Database (GWDB) of the Texas Water Development Board (TWDB) contains information about more than 123,500 water well, spring, and oil/gas test sites in Texas including associated water level and water quality data. Because data collection methods and data maintenance have varied and evolved over the years, the information in the GWDB has a range of accuracy that the user needs to be aware of. See Explanation of Groundwater Data for information on the sources of information and level of accurracy in the document.

The TWDB is providing information via this Web site as a public service. Except where noted, all of the information provided is believed to be accurate and reliable; however, the Texas Water Development Board (TWDB) assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. **PLEASE NOTE** that users of this Web site are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via this Web site. TWDB specifically disclaims any and all liability for any claims or damages that may result from providing the Web site or the information it contains, including any Web sites maintained by third parties and linked to the TWDB Web site. TWDB makes no effort to verify independently, and does not exert editorial control over information on pages outside of the

www.twdb.state.tx.us domain and its sub-domains. It is the user's responsibility to take precautions to ensure that whatever is selected is free of such items as viruses, worms, Trojan horses and other items of a destructive nature.

For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

This page is maintained by WIID Staff
Last updated on 1/29/2009 4:00:08 PM

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer: Woodbine Field No. _____ State Well No. 33 27 603

Owner's Well No. _____ County: Dallas

1. Location: ___ 1/4, ___ 1/4 Sec. ___, Block ___ Survey ___

2. Owner: R.C. Graham Address: —

Tenant: _____ Address: _____

Driller: J.L. Myers Sons Address: Dallas, Texas

3. Elevation of _____ is 445 ft. above msl, determined by TOPO

4. Drilled: 9 — 19 64, Dug, Cable Tool, Rotary

5. Depth: Depth 1360 ft. Mass. ___ ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Mfgr. _____ Type Sub.

No. Stages ___, Bowls Diam. ___ in., Setting 470 ft.

Column Diam. ___ in., Length Tailpipe ___ ft.

8. Motor: Fuel Elect Make & Model _____ HP. 3

9. Yield: Flow ___ gpm, Pump ___ gpm, Mass., Rept., Est.

10. Performance Test: Date _____ Length of Test _____ Made by _____

Static Level ___ ft. Pumping Level ___ ft. Drawdown ___ ft.

Production ___ gpm Specific Capacity ___ gpm/ft.

11. Water Level: 442 ft. rept. mass. 19 64 above LSD which is ___ ft. above/below surface.

776 ft. rept. mass. 5-8 19 65 above/below LSD which is ___ ft. above/below surface.

___ ft. rept. mass. 19 above/below which is ___ ft. above/below surface.

___ ft. rept. mass. 19 above/below which is ___ ft. above/below surface.

12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used, _____

13. Quality: (Remarks on taste, odor, color, etc.) _____

Temp. — °F, Date sampled for analysis 5-3-65 Laboratory USGS

Temp. ___ °F, Date sampled for analysis _____ Laboratory _____

Temp. ___ °F, Date sampled for analysis _____ Laboratory _____

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test.

15. Record by: Gene Davis Date 4-22-65

Source of Data: USDI Sub.

16. Remarks: Gate Locked

CASING & BLANK PIPE

Cemented from ___ ft. to ___ ft.

Diam. (in.)	Type	Setting, ft. From	To
4½	steel		

WELL SCREEN

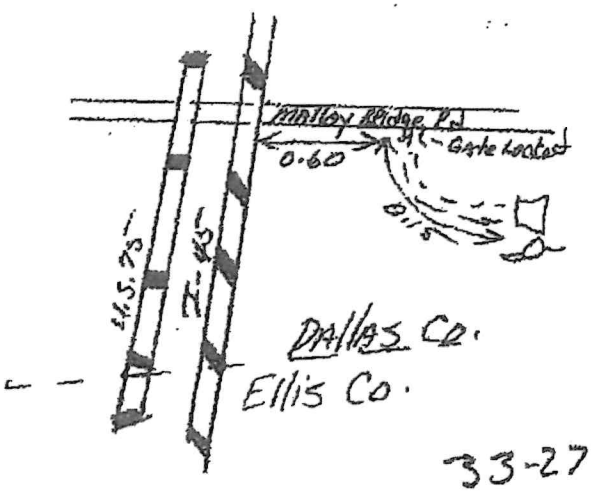
Screen Openings _____

Diam. (in.)	Type	Setting, ft. From	To
2	steel	1118	1314
2	steel	1314	1334
2	steel	1336	1356

TWDBE-WD-2 (Switch) BACK 33-27-603

Drillers Log

0-5 - Surface
5-27 - Clay
27-197 - Shale
197-702 - Chalk Rock
702-1113 - Shale
1113-1310 - Broken Sand
1310-1354 - Sand
1354-1360 - Shale



33-27-603

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER T. L. HASTING (Name) ADDRESS RT. 3 (Street or RFD) THORNTON (City) TX (State) 76687 (Zip)

2) LOCATION OF WELL: County DALLAS, 8 miles in S (NE, SW, etc.) direction from DALLAS (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 9-25 1990 Completed 9-28 1990

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6.75	Surface	120

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	10	BLACK DIRT
10	24	RED & WHITE CLAY
24	55	SAND & CLAY
55	72	BLUE SHALE
2	75	SAND
75	98	BLUE SHALE
98	102	SAND
102	120	BLUE SHALE

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4"	N	SCH40 PVC	0	25	BLANK
4"	N	SCH40 PVC	25	60	.012
4"	N	SCH40 PVC	60	70	BLANK
4"	N	SCH40 PVC	70	80	.012
4"	N	SCH40 PVC	80	120	.012

CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 20 ft. No. of Sacks Used 7
_____ ft. to _____ ft. No. of Sacks Used _____
Method used CENT. PUMP
Cemented by [signature]

RECEIVED MAR 6 1991 TEXAS WATER WELL DRILLERS BOARD

13) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 100

14) WELL TESTS: Type Test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 10 gpm with 60 ft. drawdown after 1 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☑ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:
Static level 35 ft. below land surface Date 9-28-90
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Depth

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME DOUBLE J DRILLING (Type or print) WELL DRILLER'S LICENSE NO. 0310TW

ADDRESS RT. 2 BOX 284 (Street or RFD) GROESBECK (City) TX (State) 76642 (Zip)

(Signed) [signature] (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 83-27-6 Located on map _____

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

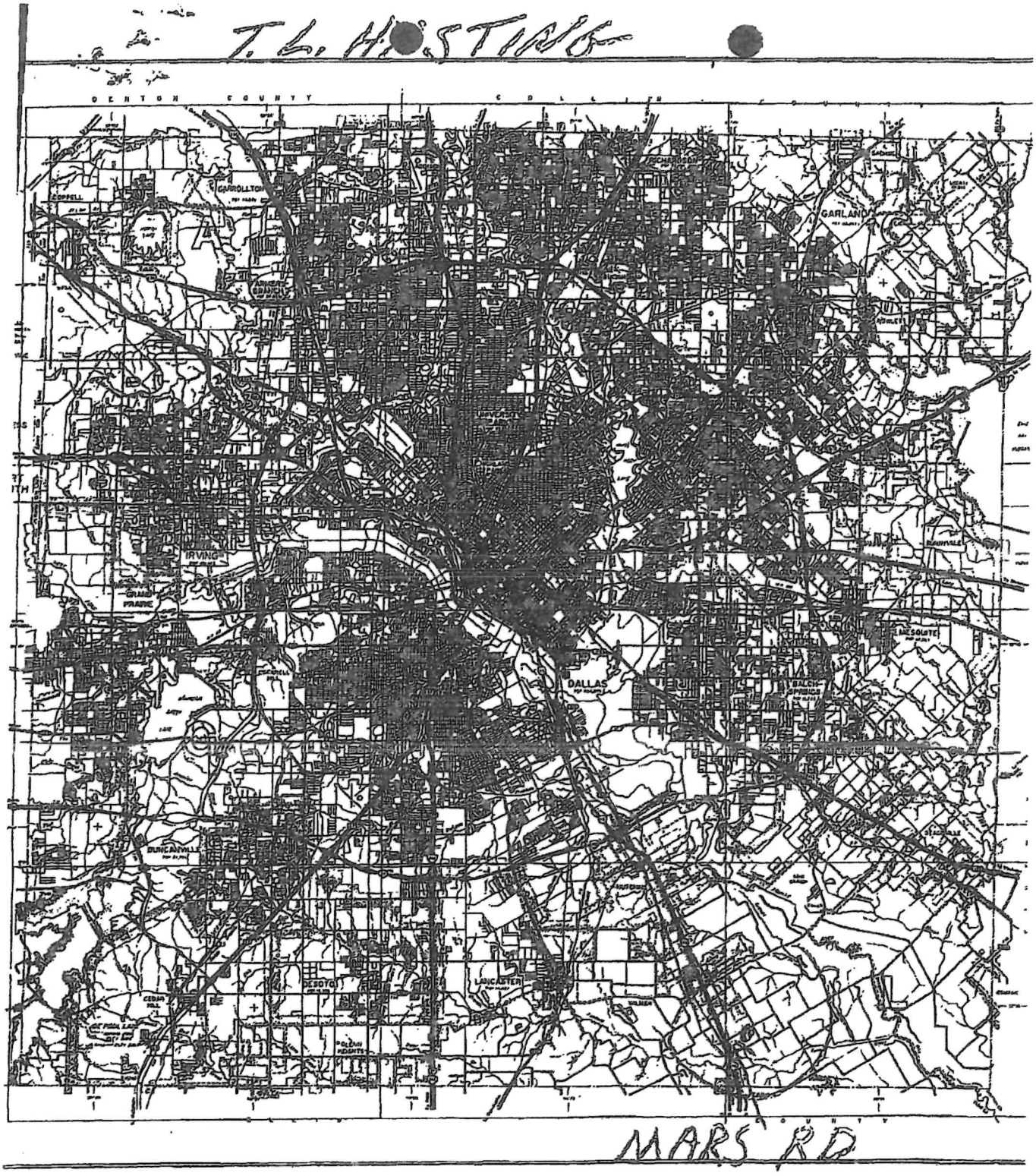
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material


T. L. HOSTICK
DENTON COUNTY
COLLIN COUNTY
COPPELL
CARROLLTON
GARLAND
IRVING
GRAND PRAIRIE
DALLAS
MESQUITE
BALCH SPRINGS
DUNCANVILLE
DESOTO
LANCASTER
CEDAR HILL
GLENN HEIGHTS
MARS RD

[redacted] mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER MAURICE SMITH (Name) ADDRESS MARS RD (Street or RFD) WILMER (City) TX (State) 75172 (Zip)

2) LOCATION OF WELL: County DALLAS 8 miles in S (NE, SW, etc.) direction from DALLAS (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☐ Driven ☑ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 9-29 1990 Completed 10-2 1990

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6.75	Surface	120

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	0-10	BLACK DIRT
10	24	RED + WHITE CLAY
25	54	SAND + CLAY
54	100	BLUE SHALE
106	110	SAND
110	120	BLUE SHALE

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4"	N	SCH 40 PVC	0	25	BLANK
4"	N	SCH 40 PVC	25	60	.012
4"	N	SCH 40 PVC	60	90	BLANK
4"	N	SCH 40 PVC	90	120	.012

RECEIVED MAR 6 1991 TEXAS WATER WELL DRILLERS BOARD

(Use reverse side if necessary)

CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 20 ft. No. of Sacks Used 9
ft. to ft. No. of Sacks Used
Method used C.W.T. PUMP
Cemented by JIMMY & TOMMY

13) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 11

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☑ Estimated
Yield: 5 gpm with 90 ft. drawdown after 1 hrs.

11) WATER LEVEL:
Static level 60 ft. below land surface Date 10-2-90
Artesian flow _____ gpm. Date _____

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☑ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

12) PACKERS: Type 4X7 FORMATION PACK. Depth 20

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME DOUBLE J. DRILLING (Type or print) WELL DRILLER'S LICENSE NO. 03107

ADDRESS RT. 2 BOX 284 (Street or RFD) GROESBECK (City) TX. (State) 76642 (Zip)

(Signed) _____ (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 33-27-6 Located on map _____

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

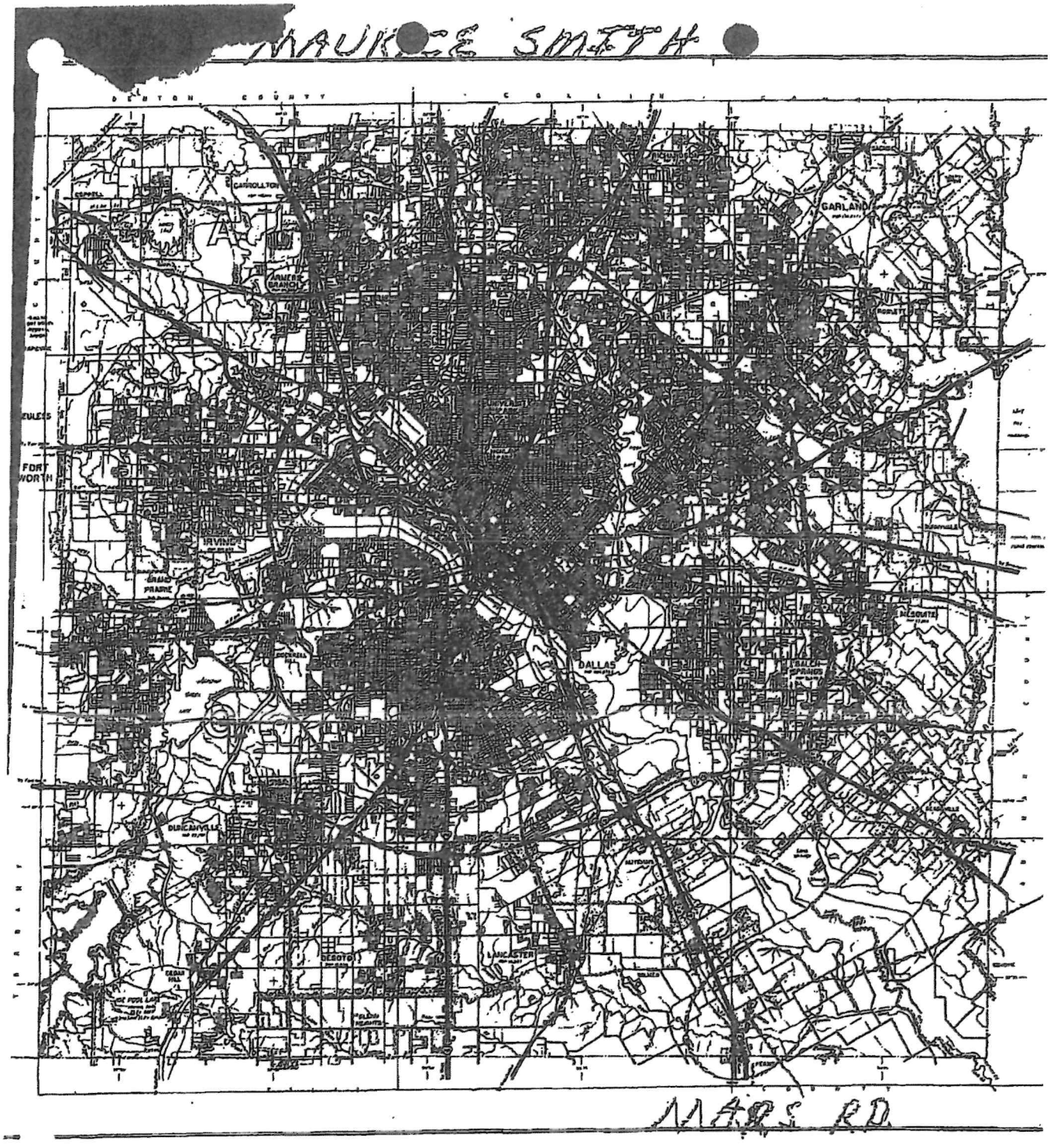
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material


MAURICE SMITH
DENTON COUNTY
COLLIN
CARROLLTON
GARLAND
ARMED FORCES
FORT WORTH
IRVING
GRAND PRAIRE
DALLAS
DUNCANVILLE
LANCASTER
MARS RD

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 76711

Please use black ink.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 76711

1) OWNER VERNON HIX (Name) ADDRESS P.O. BOX 116 (Street or RFD) WILMER (City) TX (State) 76172 (Zip)

2) LOCATION OF WELL: County DALLAS 8 miles in 3 (NE, SW, etc.) direction from DALLAS (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ SEE ATTACHED MAP

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☑ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 10-3 1990 Completed 10-5 1990

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6.75	Surface	118

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	10	BLACK DIRT
10	25	RED + WHITE CLAY
25	48	SAND STREAKED W/SHALE
48	79	BLUE SHALE
79	83	SAND
83	107	BLUE SHALE
107	114	SAND
114	118	BLUE SHALE

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4"	N	SCH 40 PVC	0	25	BLANK
4"	N	SCH 40 PVC	25	60	.012
4"	N	SCH 40 PVC	60	80	BLANK
4"	N	SCH 40 PVC	~~80~~	~~[illegible]~~	~~.012~~
4"	N	SCH 40 PVC	90	118	.012

CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 20 ft. No. of Sacks Used 6
_____ ft. to _____ ft. No. of Sacks Used _____
Method used CENT. PUMP
Cemented by [signature]

RECEIVED
MAR 6 1991
TEXAS WATER WELL DRILLERS BOARD

13) TYPE PUMP: ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other NONE
Depth to pump bowls, cylinder, jet, etc., _____

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 10 gpm with 60 ft. drawdown after 1 hrs.

11) WATER LEVEL:
Static level 30 ft. below land surface Date 10-5-90
Artesian flow _____ gpm. Date _____

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☑ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☑ No

12) PACKERS:

	Type	Depth
FORMATION	4x7	20

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME DOUBLE T DRILLING (Type or print) WELL DRILLER'S LICENSE NO. 03107-W

ADDRESS RT. 2 BOX 284 (Street or RFD) GROESBECK (City) TX (State) 76642 (Zip)

(Signed) [signature] (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. 33-27-6 Located on map _____

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

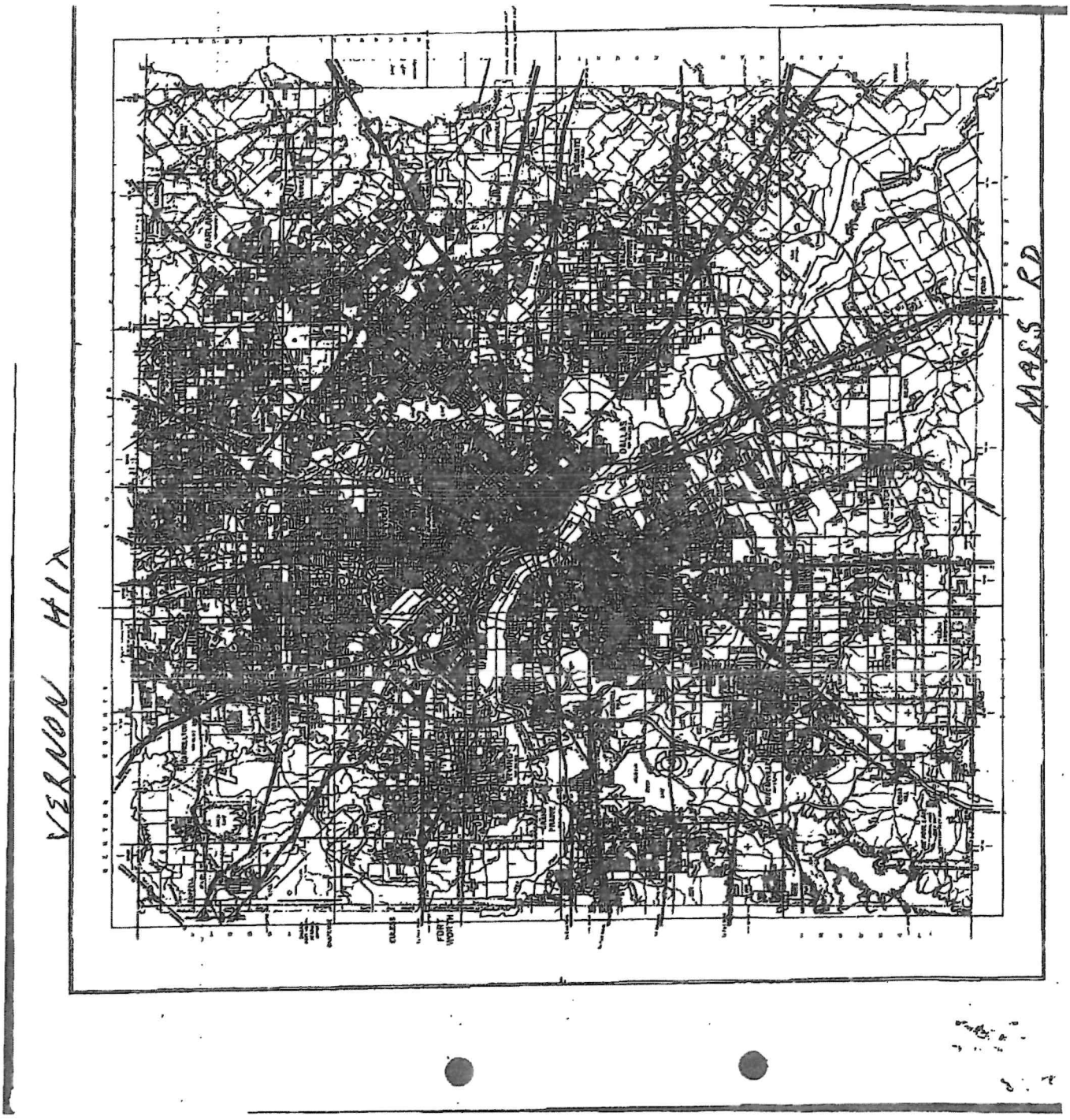
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 60 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material


VERNON HIA
MASS RD

Please use black ink.
Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711

1) OWNER Val Maddalozzo (Name) Address Rt. 2 Box 192 (Street or RFD) Ferris (City) TX. (State) 75125 (Zip)

2) LOCATION OF WELL: County Ellis 2 miles in N. (N.E., S.W., etc.) direction from Ferris (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☒ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 2-88

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6½	Surface	1362

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☒ Other Perf'd. (Jet)
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	2	Top Soil
2	12	Yel clay & sh
12	130	Blue sh
130	190	Chalk & Blue sh.
190	590	Chalk w/ Blu. sh stks.
590	675	Chalk
675	1150	Blu. sh w/ shly sd stks.
1150	1220	SD w/ sh stks. (TDPWB)
1220	1290	Blu. sh w/ SD STKS.
1290	1320	SD
1320	1345	SH.
1345	1357	SD
1357	1362	SH T.D.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfr., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4½	N	Steel	+2	1361	.156
		Perf'd: 1301-11', 1346-56'			
		15PF			

9) CEMENTING DATA (Rule 319.44(b))
Cemented from + 1 ft. to 1361 ft.
ft. to ft.
Method used Pressure
Cemented by A Drilling

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed (Rule 319.44(c))
☐ Pitless Adapter Used (Rule 319.44(d))
☒ Approved Alternative Procedure Used (Rule 319.71)

11) WATER LEVEL:
Static level 475 ft. below land surface Date 2-88
Artesian flow _____ gpm. Date _____

12) PACKERS: Type NA Depth

13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible 3 HP ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 633 ft.

14) WELL TESTS:
Type Test: ☒ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 12 gpm with 70 ft. drawdown after 3 hrs.

RECEIVED
MAR 15 1988
TEXAS WATER COMMISSION

(Use reverse side if necessary)

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME A Drilling Inc. (Type or Print) Water Well Driller's License No. 2482

ADDRESS 600 Runaway Bay (Street or RFD) Bridgeport (City) TX. (State) 76026 (Zip)

(Signed) C A Miles (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

For TDWR use only
Well No. 33-27-6
Located on map

Please attach electric log, chemical analysis, and other pertinent information, if available.

DEPARTMENT OF WATER RESOURCES COPY

TDWR-0392 (12/29/83)

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 30 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the department, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a department copy, shall include the name, mailing address, and telephone number of the Board and the department. The well log required herein shall at the request in writing to the department, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.

GENERAL HIGHWAY MAP
DALLAS COUNTY
TEXAS
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
U.S. DEPARTMENT OF TRANSPORTATION
1981
LEGEND
State Copy

TWDB Groundwater Database Query Result

REPORTED WATER WELL DATA ON STATE WELL NUMBER = 3327901

Query for another State Well Number: Submit

| Water Quality | Infrequent Constituent | Water Level | 5 Day Water Level | Well Casing | Remarks | Scanned Images |

*For a complete explanation, click here to read the TWDB Groundwater Data System Data Dictionary.

Field	Value	*Explanation
STATE WELL NUMBER	3327901	
COUNTY CODE	139	Ellis County, Texas
BASIN	8	Trinity River Basin
PREVIOUS WELL NUMBER		
LATITUDE	323159	DMS (in decimal degrees: 32.533056)
LAT DEC	32.533054	
LONGITUDE	963959	DMS (in decimal degrees: -96.666389)
LONG DEC	-96.666388	
OWNER 1	City of Ferris	
OWNER 2	Well #2	
DRILLER 1	J. L. Myers Sons	
DRILLER 2		
SOURCE OF COORDINATES	1	
AQUIFER CODE	212WDBN	WOODBINE SAND
AQUIFER ID1	29	Woodbine Aquifer
AQUIFER ID2		
AQUIFER ID3		
ELEVATION	465	feet
ELEVATION MEASUREMENT METHOD	M	Interpolated From Topo Map
ALPHA CODE	285600	CITY OF FERRIS C/O WATER SUPT.
DATE DRILLED	00001954	
WELL TYPE	W	Withdrawal of Water

WELL DEPTH	1493	feet
SOURCE OF DEPTH	O	Owner
TYPE OF LIFT	T	Turbine Pump
TYPE OF POWER	E	Electric Motor
HORSEPOWER	50.00	
PRIMARY WATER USE	P	Public Supply
SECONDARY WATER USE		
TERTIARY WATER USE		
WATER LEVEL AVAILABLE	M	Click here for water level data
WATER QUALITY AVAILABLE	Y	Click here for water quality data
WELL LOGS AVAILABLE		
OTHER DATA AVAILABLE		
DATE COLLECTED OR UPDATED		
REPORTING AGENCY	01	TWDB or Predecessor Agency
WELL SCHEDULE IN FILE	Y	
CONTRUCTION METHOD		
COMPLETION		
CASING MATERIAL		
SCREEN MATERIAL		
GMA	8	
RWPA	C	
DISTRICTID	200908GX	

Groundwater Database Disclaimer

The Groundwater Database (GWDB) of the Texas Water Development Board (TWDB) contains information about more than 123,500 water well, spring, and oil/gas test sites in Texas including associated water level and water quality data. Because data collection methods and data maintenance have varied and evolved over the years, the information in the GWDB has a range of accuracy that the user needs to be aware of. See Explanation of Groundwater Data for information on the sources of information and level of accurracy in the document.

The TWDB is providing information via this Web site as a public service. Except where noted, all of the information provided is believed to be accurate and reliable; however, the Texas Water Development Board (TWDB) assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. **PLEASE NOTE** that users of this Web site are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via this Web site. TWDB specifically disclaims any and all liability for any claims or damages that may result from providing the Web site or the information it contains, including any Web sites maintained by third parties and linked to the TWDB Web site.

TWDB makes no effort to verify independently, and does not exert editorial control over information on pages outside of the www.twdb.state.tx.us domain and its sub-domains. It is the user's responsibility to take precautions to ensure that whatever is selected is free of such items as viruses, worms, Trojan horses and other items of a destructive nature.

For additional information or answers to questions concerning the TWDB GWDB contact David Thorkildsen at (512) 936-0871 or Janie Hopkins at (512) 936-0841.

You can download Groundwater Database Reports in ASCII text files from this link. The files are organized by Texas counties.

This page is maintained by WIID Staff
Last updated on 1/29/2009 4:00:08 PM

TEXAS WATER DEVELOPMENT BOARD

WELL REPORT

Applic. Wallace Field No. Owner's Well No. #2 State Well No. 33-27-901 County Ellis

1. Location: 1/4 1/4 Sec. Blk. Survey

2. Owner: City of Ferris (addr. 201 S. Church, Ferris, Tex.)
Tenant: Bleak Lockelun Supt.) Dir. Fir (addr.)
Driller: J. L. Myers Sons (addr.) Dallas, Texas

3. Elevation of 454 ft. to 465 ft. above sea. determined by Topo

4. Drilled 7-15 to 54 Dug, Cable Tool, Rotary

5. Perfd. Depth 1493 ft. Hole ft.

6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed

7. Pump: Manf. Type Turbine
No. Stages Bowls Diam. in. Setting ft.
Column Diam. in. Length Suction ft.

8. Motor: Fuel Elect. Make & Model HP 50

9. Yield: Flow gpm, Temp. 220 °F, Meas. (Est.), Est.

10. Performance Test: Date Length of Test Made by
Static Level ft. Pumping Level ft. Drawdown ft.
Production gpm Specific Capacity gpm/ft.

11. Water Level: 200.0 ft. (Est.) 1960 Sam 13 ft. which is ft. above/below surface.
ft. (Est.) 19 (Sam) which is ft. above/below surface.
ft. (Est.) 19 (Sam) which is ft. above/below surface.
ft. (Est.) 19 (Sam) which is ft. above/below surface.

12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Conservation, Not Used,

13. Quality: (Records on taste, odor, color, etc.)

Temp. 92 °F, Date sampled for analysis 6-24-60 Laboratory USGS
Temp. 91 °F, Date sampled for analysis 3-13-75 Laboratory TSDH "
Temp. 92 °F, Date sampled for analysis 6-2-75 Laboratory

14. Other data available or planned: Driller's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test,

15. Reported by: Gene Davis Date 3-13 1975
Source of Data USGS, Sept. 63, Mr. Locke + obs.

16. Remarks:

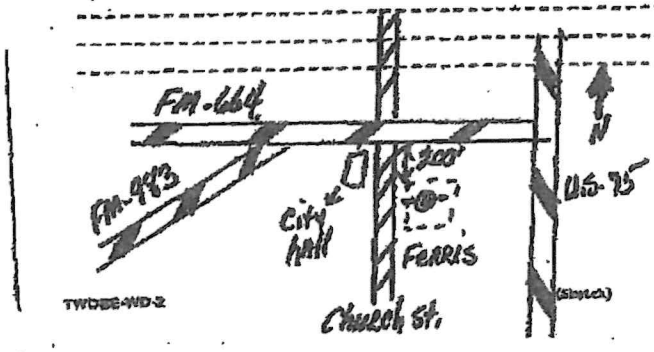
WELL CASING

Diam. (in.)	Type	Setting, ft. From	To
12	Steel	0	1493

WELL SCREENS

Screen Openings

Diam. (in.)	Type	Setting, ft. From	To
12	Screen	1311	1431
12	"	1459	1481



33-27-901

http://wiid.twdb.state.tx.us/ImageViewer/ImageViewer.aspx?image=LW\images\00108\00033719.0... 11/23/2010

SKYLINE LANDFILL

APPENDIX E2

SITE EXPLORATION DATA

Boring Plan Approval Letter
Boring and Well Location Map
General Notes Supplementing Boring Logs
Logs of Borings, Piezometers, and Monitoring Wells

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 4, 2023

Mr. Guy Campbell
Engineering Manager - North Texas
Waste Management of Texas, Inc.
5012 Martin Luther King Junior Freeway
Fort Worth, Texas 76119

Via email

Subject: Skyline Landfill - Dallas and Ellis County
Municipal Solid Waste - Permit No. 42D
Proposed Site Investigation - Revised Soil Boring Plan
Tracking No. 28897066; RN100542232/CN602613069

Dear Mr. Campbell:

On June 07, 2023, we received a soil boring plan (SBP) dated June 06, 2023, for a proposed expansion of the referenced MSW Type I landfill facility. We received revisions to the SBP, dated July 18, 2023, in response to our letter dated June 28, 2023. The SBP was submitted on your behalf by Elizabeth Floyd, P.G., from Biggs and Mathews Environmental, Mansfield, Texas. Our review of the revised plan indicates that it complies with the MSW regulations. This letter constitutes approval of your plan.

The SBP proposes 27 borings in an approximately 218-acre project area of which approximately 132 acres is being considered for waste footprint. Eleven of the borings will be drilled to an elevation of 385 feet above sea level, corresponding to depths at least 5 feet below the elevation of the deepest excavation (EDE), proposed to be 390 feet above sea level. Sixteen borings will be drilled to an elevation of 360 feet above sea level, corresponding to depths at least 30 feet below the EDE.

Please be advised that under Title 30 Texas Administrative Code, Chapter 330, Section 330.63(e)(4)(B), the uppermost aquifer and any hydraulically interconnected aquifers below the site must be identified, as well as the underlying confining unit. It is anticipated that this SBP, when implemented, will accurately characterize the in-situ geologic, hydrologic, and engineering properties of the surface and subsurface strata at this site. Although this plan appears to comply with the MSW regulations concerning site investigations, additional soil borings and piezometers could be required if the data generated by this SBP prove to be inconclusive.

If you find it necessary to modify this approved plan, another plan detailing any proposed modifications must be submitted for approval before implementation of the modifications.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • tceq.texas.gov

How is our customer service? tceq.texas.gov/customersurvey
printed on recycled paper

If you have questions regarding this letter, please contact me by telephone at (512) 239-0554, or henok.tewelde@tceq.texas.gov. When addressing written correspondence, please use mail code MC 124.

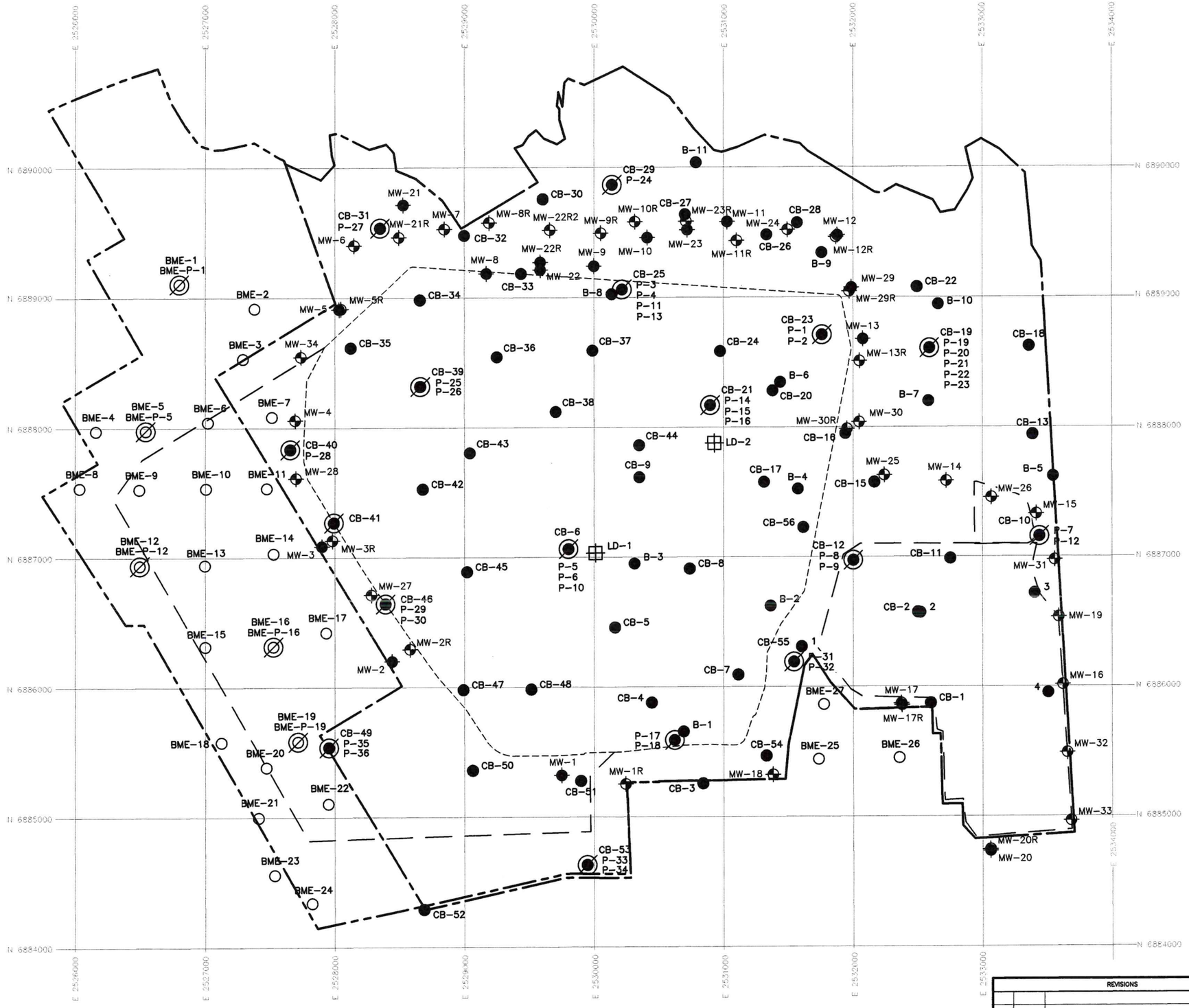
Sincerely,



Henok Tewelde, P.G.
Municipal Solid Waste Permits Section
Waste Permits Division
Texas Commission on Environmental Quality

HT/gg

cc: Ms. Elizabeth Floyd, Biggs & Mathews Environmental, Inc, Mansfield



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42D BOUNDARY (662 ACRES)
- PERMIT 42E BOUNDARY (887 ACRES)
- PERMIT 42D LIMIT OF WASTE (284 ACRES)
- PERMIT 42E WASTE FOOTPRINT (416 ACRES)
- STATE PLANE GRID (NAD 83)
- PERMIT 42D MONITORING WELL
- PLUGGED MONITORING WELL
- SOIL BORING/TEST PIT
- EXPANSION BORING
- PIEZOMETER
- LARGE DIAMETER BORING

NOTE:

1. PLEASE SEE ATTACHMENT E, SECTION 4 FOR INFORMATION EXPLAINING THE VARIOUS SETS OF SOIL BORINGS.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

BORING AND WELL LOCATION MAP

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E2.3

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E2-3_BoringMWPiezLocations.dwg Layout: LAYOUT 1 User: awhite

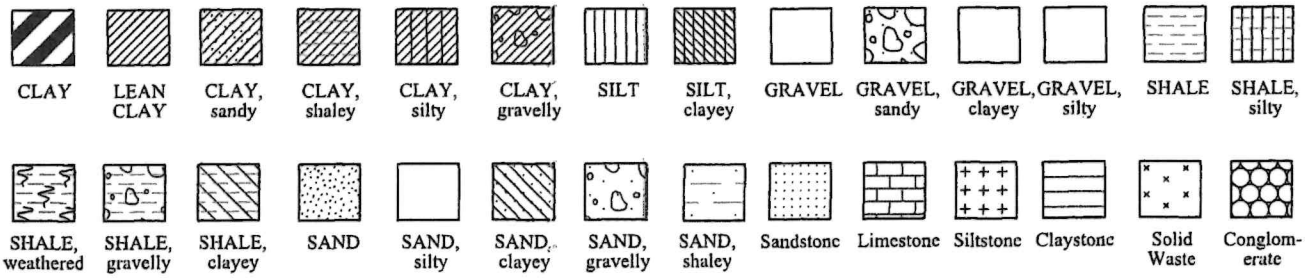
BIGGS AND MATHEWS

BORINGS

2023

KEY TO SOIL CLASSIFICATION TERMS AND SYMBOLS

SOIL OR ROCK TYPES (shown in symbols column):



DRILLING AND SAMPLING SYMBOLS:

A	Auger Sample
C	Double Tube Core Barrel
D	Denison Sample
S	Split Barrel Sampler - 2" O.D., unless otherwise noted Example: 25 = 25 blows/12" after 6" seating interval; 50/7 = 50 blows per 7" after 6" seating interval; REF = 50 blows <6"
T	THD Cone Penetrometer Example: T60 = 60 blows per 12" T4.5" = 100 blows per 4.5"
U	Thin-walled Tube - 3" O.D., unless otherwise noted
W	Wash Sample
PB	Pitcher Barrel

RELATIVE DENSITY OF COARSE-GRAINED SOILS

Penetration Resistance Blows/foot	Relative Density
0 - 4	Very loose
4 - 10	Loose
10 - 30	Medium dense
30 - 50	Dense
Over 50	Very dense

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Qu, tsf	Consistency
Less than 0.25	Very soft
0.25 to 0.50	Soft
0.50 to 1.00	Firm
1.00 to 2.00	Stiff
2.00 to 4.00	Very stiff
4.00 and higher	Hard

TERMS CHARACTERIZING SOIL STRUCTURE:

Slickensided:	Having inclined planes of weakness that are slick and glossy in appearance.
Fissured:	Containing shrinkage cracks, frequently filled with fine sand or silt; usually more or less vertical.
Laminated:	Composed of thin layers of varying color and texture.
Interbedded:	Composed of alternate layers of different soil types.
Calcareous:	Containing appreciable quantities of calcium carbonate.
Well graded:	Having wide range in grain sizes and substantial amounts of all intermediate particle sizes.
Poorly graded:	Predominantly of one grain size, or having a range of sizes with some intermediate size missing.

DEGREE OF WEATHERING:

Unweathered:	Rock in its natural state before being exposed to atmospheric agents.
Slightly weathered:	Noted predominantly by color change with no disintegrated zones.
Weathered:	Complete color change with zones of slightly decomposed rock.
Severely weathered:	Complete color change with consistency, texture, and general appearance approaching soil.

SUBSURFACE CONDITIONS:

Soil and rock descriptions on the boring logs are a compilation of field data as well as from laboratory testing of samples on those strata for which laboratory classification test results are presented on the boring logs. These classifications are based only on the actual samples tested, and the classification is then assigned to the remainder of the stratum interval based on visual classification. If laboratory classification test results are not presented on the boring log for a particular stratum, then that stratum was classified by visual-manual procedures only. The stratification lines represent the approximate boundary between materials and the transition can be gradual.

Classification of soils based upon visual-manual procedures was performed in general accordance with ASTM Standard D 2488. Classification of soils based upon laboratory test results was performed in general accordance with ASTM Standard D 2487.

Water-level observations have been made in the borings at the times indicated. It must be noted that fluctuations in the groundwater level may occur due to variations in rainfall, hydraulic conductivity of soil strata, construction activity, and other factors.

ELEVATIONS:

Elevation of contact or bottom of borings/piezometers is shown on the right side of the material description column.

LOG OF BORING NO. BME-1

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250304.36 N 323531.07**

Surface El.: **498.40 ft. msl**
Completion Depth: 124.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/14/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
0			Clay, dark brown, with rootlets, with trace calcareous nodules	496.90
5			Clay, weathered, brown and tan, with gray streaks, with calcareous nodules, ferrous stains	
10				
15				
20				474.40
25			Clay, unweathered, dark gray	
30				
35				
40				
45				
50				

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-1

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250304.36 N 323531.07**

Surface El.: **498.40 ft. msl**
Completion Depth: 124.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/14/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55–100			Clay, unweathered, dark gray *(continued)*

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-1

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250304.36 N 323531.07**

Surface El.: **498.40 ft. msl**
Completion Depth: 124.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/14/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105			Clay, unweathered, dark gray *(continued)*
110			
115			
120			
			374.40
125			
130			
135			
140			
145			
150			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-2

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2250879.73 N 323337.04**

Surface El.: **448.13 ft. msl**
Completion Depth: 99.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/13/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0			Clay, dark brown, with rootlets, with calcareous nodules
2			446.63
	CS1		Clay, weathered, brown and tan, with gypsum crystals, ferrous stains, limoritic
8			440.13
			Clay, unweathered, dark gray
10	CS2		
20			
25	CS3		
30			
35	CS4		
40			
45	CS5		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-2

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250879.73 N 323337.04**

Surface El.: **448.13 ft. msl**
Completion Depth: 99.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/13/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathered, dark gray *(continued)*
55	CS6		
60			
65	CS7		
70			
75	CS8		
80			
85	CS9		
90			
95	CS10		
100			349.13

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-3

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250787.22 N 322951.24**

Surface El.: **437.45 ft. msl**
Completion Depth: 88.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/14/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0			Clay, dark brown, with rootlets
			434.95
5	CS1		Clay, weathered, light brown to tan, with gray, calcareous nodules, with some gypsum
10			426.95
15	CS2		Clay, unweathered, dark gray
20			
25	CS3		
30			
35	CS4		
40			
45	CS5		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-3

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-663-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250787.22 N 322951.24**

Surface El.: **437.45 ft. msl**
Completion Depth: 88.0 ft.
Date Boring Started: 10/13/2023
Date Boring Completed: 10/14/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweathered, dark gray *(continued)*
60			
65	CS7		
70			
75	CS8		
80			
85	CS9		349.45
90			
95			
100			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-4

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249653.29 N 322406.32**

Surface El.: **466.89 ft. msl**
Completion Depth: 92.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	CS1		Clay, dark brown, with calcareous nodules, with rootlets
			463.89
5	CS2		Clay, weathered, tan and light brown, with ferrous stains, trace calcarous nodules
10			
			451.89
15	CS3		Clay, unweathered, dark gray
20			- trace fossils
25	CS4		
30			
35	CS5		
40			
45	CS6		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. *In situ*, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-4

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249653.29 N 322406.32**

Surface El.: **466.89 ft. msl**
Completion Depth: 92.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathered, dark gray *(continued)*
55	CS7		
60			
65	CS8		
70			
75	CS9		
80			- trace fossils
85	CS10		
90	CS11		
			374.89
95			
100			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-5

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250033.61 N 322406.32**

Surface El.: **467.99 ft. msl**
Completion Depth: 118.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0			Clay, dark brown, with rootlets, calcareous nodules
			464.99
5	CS1		Clay, weathered, light gray and light brown, with ferrous stains, with gypsum partings
10			- with vertical partings, limonitic
15	CS2		
20	CS3		
			442.99
25	CS4		Clay, *unweathered*, dark gray, hard
30			
35	CS5		
40			
45	CS6		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-5

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250033.61 N 322406.32**

Surface El.: **467.99 ft. msl**
Completion Depth: 118.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS7		Clay, unweathered, dark gray, hard *(continued)*
60			
65	CS8		
70			
75	CS9		
80			
85	CS10		
90			
95	CS11		
100			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

Continued Next Page

TAGWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-5

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-6892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250033.61 N 322406.32**

Surface El.: **467.99 ft. msl**
Completion Depth: 118.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS12		Clay, unweathered, dark gray, hard *(continued)*
110			
115	CS13		
			349.99
120			
125			
130			
135			
140			
145			
150			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-6

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-6892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250513.49 N 322466.19**

Surface El.: **474.60 ft. msl**
Completion Depth: 99.0 ft.
Date Boring Started: 9/30/2023
Date Boring Completed: 9/30/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	CS1		Clay, dark brown, with calcareous nodules, with rootlets
			471.10
5	CS2		Clay, weathered, light brown and light gray, with ferrous stains, limonitic
10			- with gypsum partings
15			
20	CS3		
25			
			444.60
30	CS4		Clay, unweathered dark gray, hard
35			
40			- with trace fossils
45	CS5		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-6

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250513.49 N 322466.19**

Surface El.: **474.60 ft. msl**
Completion Depth: 99.0 ft.
Date Boring Started: 9/30/2023
Date Boring Completed: 9/30/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweathered dark gray, hard *(continued)*
60			
65	CS7		
70			- with fossils
75	CS8		
80			- marly
85	CS9		
90			
95	CS10		
100			375.60

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed *prior* to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-7

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250811.44 N 322389.2**

Surface El.: **452.49 ft. msl**
Completion Depth: 103.0 ft.
Date Boring Started: 9/14/2023
Date Boring Completed: 9/18/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	U1		Clay, trace silt, dark brown with organics
			450.49
	U2		Clay, weathered, brown, with trace calcareous nodules
5	U3		
	U4		
	U5		
10	U6		
	U7		
15	U8		
	U9		
	U10		
20	U11		
	U12		
25	U13		
	U14		
			425.49
	U15		Clay, unweatered, dark gray
	U16		
30			
	C17		
35			
40	C18		
45	C19		
50			

Contractor: **H/ET**

Remarks: Borehole advanced using shelby tubes from 0 to 29' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-7

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250811.44 N 322389.2**

Surface El.: **452.49 ft. msl**
Completion Depth: 103.0 ft.
Date Boring Started: 9/14/2023
Date Boring Completed: 9/18/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	C20		Clay, unweatered, dark gray *(continued)*
60	C21		
65	C22		- dark gray to green
70			- marly, with fossils
75	C23		
80	C24		
85			
90	C25		
95	C26		
100			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 29' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ D&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-7

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250811.44 N 322389.2**

Surface El.: **452.49 ft. msl**
Completion Depth: 103.0 ft.
Date Boring Started: 9/14/2023
Date Boring Completed: 9/18/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	C26		Clay, unweatered, dark gray *(continued)*
			349.49

105
110
115
120
125
130
135
140
145
150

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 29' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-8

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249522.39 N 321969.71**

Surface El.: **443.74 ft. msl**
Completion Depth: 94.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0			Clay, brown to dark brown, with calcareous nodules, with rootlets
			441.74
5	CS1		Clay, weathered, brown to olive, with calcareous nodules, with rootlets
			433.74
10			Clay, unweathered, dark gray
15	CS2		
20			
25	CS3		
30			
35	CS4		
40			
45	CS5		
50			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-8

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249522.39 N 321969.71**

Surface El.: **443.74 ft. msl**
Completion Depth: 94.0 ft.
Date Boring Started: 9/28/2023
Date Boring Completed: 9/28/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweathered, dark gray *(continued)*
60			- with occasional fossils
65	CS7		
70			- marly
75	CS8		
80			
85	CS9		
90	CS10		
			349.74
95			
100			

Contractor: *H/ET*

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-9

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249980.55 N 321955.57**

Surface El.: **456.53 ft. msl**
Completion Depth: 82.0 ft.
Date Boring Started: 9/27/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
0			Clay, dark brown, with rootlets, with trace calcareous nodules	453.53
5	CS1		Clay, weathered, light gray and tan, with calcareous nodules, and ferrous stains	446.53
10			Clay, unweathered, dark gray	
15	CS2			
20				
25	CS3			
30				
35	CS4			
40				
45	CS5			
50				

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-9

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249980.55 N 321955.57**

Surface El.: **456.53 ft. msl**
Completion Depth: 82.0 ft.
Date Boring Started: 9/27/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweathered, dark gray *(continued)*
60			- with trace fossils
65	CS7		
70			
75	CS8		
80	CS9		374.53
85			
90			
95			
100			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-10

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250493.54 N 321957.34**

Surface El.: **477.80 ft. msl**
Completion Depth: 126.0 ft.
Date Boring Started: 9/30/2023
Date Boring Completed: 9/20/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, brown and tan, with trace calcareous nodules
			475.80
			Clay, weathered, brown and tan with gray streaks, with calcareous nodules
5	CS1		
10			
15	CS2		
20			
25	CS3		
30			
	CS4		
			444.80
			Clay, unweathered, dark gray
35	CS5		
40			- with trace fossils
45	CS6		
	CS7		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-10

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250493.54 N 321957.34**

Surface El.: **477.80 ft. msl**
Completion Depth: 126.0 ft.
Date Boring Started: 9/30/2023
Date Boring Completed: 9/20/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathered, dark gray *(continued)*
55	CS8		
60			
65	CS9		
	CS6		
70			
75	CS10		
80			
85	CS11		
90			
95	CS12		
100			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

LOG OF BORING NO. BME-10

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250493.54 N 321957.34**

Surface El.: **477.80 ft. msl**
Completion Depth: 126.0 ft.
Date Boring Started: 9/30/2023
Date Boring Completed: 9/20/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS13		Clay, unweathered, dark gray *(continued)*
110			
115	CS14		
120			
125	CS15		351.80
130			
135			
140			
145			
150			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-11

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250962.31 N 321953.8**

Surface El.: **450.38 ft. msl**
Completion Depth: 75.0 ft.
Date Boring Started: 9/18/2023
Date Boring Completed: 9/19/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
0	U1		Clay, brown, with rootlets	448.38
	U2		Clay, weathered, olive, with calcareous nodules	
5	U3			
	U4			
	U5			440.38
10	C6		Clay, unweathered, dark gray	
15	C7			
20	C8			
25	C9			
30	C10			
35	C11			
40	C12			
45				
50				

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 10' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-11

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250962.31 N 321953.8**

Surface El.: **450.38 ft. msl**
Completion Depth: 75.0 ft.
Date Boring Started: 9/18/2023
Date Boring Completed: 9/19/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	C13		Clay, unweathered, dark gray *(continued)*
60	C14		
65			
70	C15		
75			375.38
80			
85			
90			
95			
100			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 10' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-12

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249979.06 N 321366.8**

Surface El.: **489.32 ft. msl**
Completion Depth: 139.0 ft.
Date Boring Started: 9/13/2023
Date Boring Completed: 9/13/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	U1		Clay, silty, dark gray and brown
			487.32
	U2		Clay, weathered, light brown and tan, with calcareous nodules
5	U3		
	U4		
	U5		
10	U6		
	U7		
15	U8		
	U9		
	U10		
20	U11		
	U12		
25	U13		
	U14		
	U15		
30	U16		
	U17		
35	U18		
	U19		
	U20		
40	U21		
			447.32
	U22		Clay, unweathered, dark gray
45	C23		
50			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 44' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-12

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249979.06 N 321366.8**

Surface El.: **489.32 ft. msl**
Completion Depth: 139.0 ft.
Date Boring Started: 9/13/2023
Date Boring Completed: 9/13/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	C24		Clay, unweathered, dark gray *(continued)*
60	C25		
65	C26		
70	C27		
75			
80	C28		
85	C29		
90			
95	C30		
100			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 44' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2325 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-12

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2249979.06 N 321366.8**

Surface El.: **489.32 ft. msl**
Completion Depth: 139.0 ft.
Date Boring Started: 9/13/2023
Date Boring Completed: 9/13/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	C31		Clay, unweathered, dark gray *(continued)* - marly below 102'
110	C32		
115	C33		
120	C34		
125	C35		
130	C36		
135			350.32
140			
145			
150			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 44' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ 86M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-13

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250479.94 N 321364.95**

Surface El.: **492.37 ft. msl**
Completion Depth: 117.0 ft.
Date Boring Started: 9/27/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0			Clay, dark brown, with rootlets
			489.37
5	CS1		Clay, weathered, tan and light brown, with calcareous nodules
10			
15	CS2		
20			
25	CS3		
30			
			458.87
35	CS4		Clay, unweatered, dark gray
40			
45	CS5		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-13

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250479.94 N 321364.95**

Surface El.: **492.37 ft. msl**
Completion Depth: 117.0 ft.
Date Boring Started: 9/27/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweatered, dark gray *(continued)*
60			
65	CS7		
70			- limonitic, with oocasional shell fragments
75	CS8		
80			- marly
85	CS9		
90			
95	CS10		
100			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-13

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250479.94 N 321364.95**

Surface El.: **492.37 ft. msl**
Completion Depth: 117.0 ft.
Date Boring Started: 9/27/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS11		Clay, unweatered, dark gray *(continued)*
110			
115			375.37
120			
125			
130			
135			
140			
145			
150			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-14

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5692
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251008.54 N 321449.9**

Surface El.: **461.57 ft. msl**
Completion Depth: 112.0 ft.
Date Boring Started: 9/12/2023
Date Boring Completed: 9/12/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	U1		Clay, tan and light brown, with calcareous nodules, with rootlets
			459.57
	U2		Clay, weathered, tan and light brown, with calcareous nodules
5	U3		
			455.57
	U4		Clay, unweathered, dark gray
	U5		
10	U6		
	U7		
	NR		
15	C8		
20	C9		
25			
30	C10		
35	C11		
40	C12		
45	C13		
50			

Contractor: **H/ET**

Remarks: Borehole advanced using shelby tubes from 0 to 15' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-14

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251008.54 N 321449.9**

Surface El.: **461.57 ft. msl**
Completion Depth: 112.0 ft.
Date Boring Started: 9/12/2023
Date Boring Completed: 9/12/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	C13		Clay, unweathered, dark gray *(continued)*
60	C14		
65			
70	C15		
75			
80	C16		
85			
90	C17		
95			
100	C18		

Contractor: **H/ET**

Remarks: Borehole advanced using shelby tubes from 0 to 15' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-14

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251008.54 N 321449.9**

Surface El.: **461.57 ft. msl**
Completion Depth: 112.0 ft.
Date Boring Started: 9/12/2023
Date Boring Completed: 9/12/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	C18		Clay, unweathered, dark gray *(continued)*
110	C19		
			349.57
115			
120			
125			
130			
135			
140			
145			
150			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 15' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-15

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2250477.12 N 320738.37**

Surface El.: **499.90 ft. msl**
Completion Depth: 125.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/26/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	CS1		Clay, dark brown and brown, with calcareous nodules
			495.90
5	CS2		Clay, weathered, light brown and tan, with ferrous stains
10			- with trace sandy gravel
15	CS3		
20			
25	CS4		
30			- olive, with veritical seams, limonitic, with light gray seams
35	CS5		
			461.90
40			Clay, unweathred, dark gray
45	CS6		
50			

Contractor: **H/ET**

Remarks. Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

Continued Next Page

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-15

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250477.12 N 320738.37**

Surface El.: **499.90 ft. msl**
Completion Depth: 125.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/26/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathred, dark gray *(continued)*
55	CS7		
60			
65	CS8		
70			
75	CS9		
80			
85	CS10		
90			
95	CS11		
100			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-15

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250477.12 N 320738.37**

Surface El.: **499.90 ft. msl**
Completion Depth: 125.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/26/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS12		Clay, unweathred, dark gray *(continued)* - marly
110			
115	CS13		
120	CS14		
125			374.90
130			
135			
140			
145			
150			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-16

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251001.14 N 320734.37**

Surface El.: **489.68 ft. msl**
Completion Depth: 140.0 ft.
Date Boring Started: 9/11/2023
Date Boring Completed: 9/11/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	U1		Clay, silty, dark gray, with rootlets
			487.68
	U2		Clay, weathered, tan and light brown, with gray, with calcareous nodules, ferrous stains
5	U3		
	U4		
	U5		
10	U6		
	U7		
	U8		
15	U9		
	U10		
20	U11		
	U12		
	U13		
25	U14		
	U15		
	U16		
30	U17		
	U18		
	U19		
35	U20		
			447.68
	C21		Clay, unweathered, dark gray, hard
40			
	C22		
45			
50			

Contractor: **H/ET**

Remarks: Borehole advanced using shelby tubes from 0 to 40' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-16

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251001.14 N 320734.37**

Surface El.: **489.68 ft. msl**
Completion Depth: 140.0 ft.
Date Boring Started: 9/11/2023
Date Boring Completed: 9/11/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	C22		Clay, unweathered, dark gray, hard *(continued)*
60	C23		
65	C24		
70	C25		
75			
80	C26		
85			
90	C27		
95			
100			

Contractor: *H/ET*

Remarks: Borehole advanced using shelby tubes from 0 to 40' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-16

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251001.14 N 320734.37**

Surface El.: **489.68 ft. msl**
Completion Depth: 140.0 ft.
Date Boring Started: 9/11/2023
Date Boring Completed: 9/11/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	C28		Clay, unweathered, dark gray, hard *(continued)*
110			
115	C29		
120			
125	C30		
130			
135	C31		
140			349.68
145			
150			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 40' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-17

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251411.28 N 320837.09**

Surface El.: **483.43 ft. msl**
Completion Depth: 133.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
			Clay, brown to dark brown, with rootlets, with calcareous nodules	481.93
			Clay, weathered, tan and light brown, with gray streaks, with calcareous nodules, with ferrous stains	481.43
5	CS1			
10				
15	CS2			
20				
25	CS3			
30				
35	CS4			
40				442.43
			Clay, unweathered, dark gray	
45	CS5			
50				

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed *prior* to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-17

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-6892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251411.28 N 320837.09**

Surface El.: **483.43 ft. msl**
Completion Depth: 133.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweathered, dark gray *(continued)*
60			
65	CS7		
70			
75	CS8		
80			
85	CS9		
90			
95	CS10		
100			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-17

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251411.28 N 320837.09**

Surface El.: **483.43 ft. msl**
Completion Depth: 133.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/27/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS11		Clay, unweathered, dark gray *(continued)*
110			- marly
115	CS12		
120			
125	CS13		
130	CS14		350.43
135			
140			
145			
150			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-18

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2250593.31 N 320000**

Surface El.: **499.20 ft. msl**
Completion Depth: 148.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/26/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	CS1		Clay, brown to light brown, with rootlets, with ferrous stains, with calcareous nodules
5	CS2		
10			489.20
	CS3		Clay, weathered, tan and light brown, with gray, with calcareous nodules, ferrous stains
15			
20	CS4		
25			
30	CS5		
35			
40	CS6		
45			450.20
50			Clay, unweathered, dark gray

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-18

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250593.31 N 320000**

Surface El.: **499.20 ft. msl**
Completion Depth: 148.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/26/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS7		Clay, unweathered, dark gray *(continued)*
60			
65	CS8		
70			
75	CS9		
80			
85	CS10		
90			
95	CS11		
100			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

LOG OF BORING NO. BME-18

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250593.31 N 320000**

Surface El.: **499.20 ft. msl**
Completion Depth: 148.0 ft.
Date Boring Started: 9/26/2023
Date Boring Completed: 9/26/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS12		Clay, unweathered, dark gray *(continued)*
110			
115	CS13		
120			
125	CS14		
130			
135	CS15		
140			
145	CS16		
			351.20
150			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-19

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2251184.82 N 320000**

Surface El.: **496.60 ft. msl**
Completion Depth: 147.0 ft.
Date Boring Started: 9/24/2023
Date Boring Completed: 9/24/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	CS1		Clay, dark brown, with calcareous nodules
			491.60
5	CS2		Clay, weathered, tan and light brown
10	CS3		- with calcareous nodules
15	CS4		
20	CS5		
25	CS6		- with ferrous stains, limonitic
30	CS7		
35	CS8		
40	CS9		
			454.60
			Clay, unweathered, dark gray
45	CS10		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-19

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251184.82 N 320000**

Surface El.: **496.60 ft. msl**
Completion Depth: 147.0 ft.
Date Boring Started: 9/24/2023
Date Boring Completed: 9/24/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathered, dark gray *(continued)*
55	CS11		
60			
65	CS12		
70			
75	CS13		
80			
85	CS14		
90			
95	CS15		
100			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ BSM DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-19

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5692
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2251184.82 N 320000**

Surface El.: **496.60 ft. msl**
Completion Depth: 147.0 ft.
Date Boring Started: 9/24/2023
Date Boring Completed: 9/24/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS16		Clay, unweathered, dark gray *(continued)* - marly
110			
115	CS17		
120			
125	CS18		
130			
135	CS19		
140			
145	CS20		
150			349.60

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-20

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250937.95 N 321804.49**

Surface El.: **496.08 ft. msl**
Completion Depth: 121.0 ft.
Date Boring Started: 9/7/2023
Date Boring Completed: 9/8/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	U1, U2, U3		Clay, silty, dark gray, with calcareous nodules, with rootlets
5			490.08
	U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19		Clay, weathered, olive gray
35			458.08
	U20, U21, C22		Clay, unweathered, dark gray
50			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 42' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

Continued Next Page

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-20

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250937.95 N 321804.49**

Surface El.: **496.08 ft. msl**
Completion Depth: 121.0 ft.
Date Boring Started: 9/7/2023
Date Boring Completed: 9/8/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	C22		Clay, unweathered, dark gray *(continued)*
55	C23		
60			
65	C24		
70			
75	C25		
80			
85	C26		
90			
95	C27		
100			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 42' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-20

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250937.95 N 321804.49**

Surface El.: **496.08 ft. msl**
Completion Depth: 121.0 ft.
Date Boring Started: 9/7/2023
Date Boring Completed: 9/8/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	C28		Clay, unweathered, dark gray *(continued)*
110	C29		
115	C30		
120			375.08
125			
130			
135			
140			
145			
150			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 42' and wet rotary coring techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. *In situ, the transition may be gradual.*
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-21

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2250875.13 N 319417.33**

Surface El.: **515.56 ft. msl**
Completion Depth: 166.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	CS1		Fill
5	CS2		
10	CS3		
15	CS4		
20	CS5		
25	CS6		
30	CS7		
35	CS8		478.56 Clay, weathered, light brown to brown, with calcareous nodules, with ferrous stains
40	CS9		
45	CS10		
50			

Contractor: H/ET

Remarks: Borehole advanced uing hollow stem auger to 70' and air rotary techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-21

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250875.13 N 319417.33**

Surface El.: **515.56 ft. msl**
Completion Depth: 166.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS11		Clay, weathered, light brown to brown, with calcareous nodules, with ferrous stains *(continued)*
	CS12		
60	CS13		
65			450.56
	CS14		Clay, unweathered, dark gray
70			
	CS15		
75			
80			
85	CS16		
90			
95	CS17		
100			

Contractor: **H/ET**

Remarks: Borehole advanced uing hollow stem auger to 70' and air rotary techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-21

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250875.13 N 319417.33**

Surface El.: **515.56 ft. msl**
Completion Depth: 166.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS18		Clay, unweathered, dark gray *(continued)*
110			
115	CS19		
120			
125	CS20		
130			
135	CS21		
140			
145	CS22		
150			

Contractor: **H/ET**

Remarks: Borehole advanced uing hollow stem auger to 70' and air rotary techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gracual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-21

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250875.13 N 319417.33**

Surface El.: **515.56 ft. msl**
Completion Depth: 166.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
155	CS23		Clay, unweathered, dark gray *(continued)*
160	CS24		
165			349.56
170			
175			
180			
185			
190			
195			
200			

Contractor: H/ET

Remarks: Borehole advanced uing hollow stem auger to 70' and air rotary techniques to total depth. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-22

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251416.36 N 319519.54**

Surface El.: **510.40 ft. msl**
Completion Depth: 165.0 ft.
Date Boring Started: 9/6/2023
Date Boring Completed: 9/7/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	A1		Fill
10			498.40
15	A2		Clay, weathered, dark gray
20	U3		488.40
25	U4, U5, U6, U7		Clay, unweathered, tan and gray, with calcareous nodules, with ferrous stains
30	U8, U9		
35	L10, L11, L12		
40	L13, L14		
45	L15, L16		
50	U17		

Contractor: **H/ET**

Remarks: Borehole advanced using shelby tubes from 0 to 20' and wet rotary coring techniques to total depth. No groundwater was observed prior to introducing water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-22

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251416.36 N 319519.54**

Surface El.: **510.40 ft. msl**
Completion Depth: 165.0 ft.
Date Boring Started: 9/6/2023
Date Boring Completed: 9/7/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	U18, U19, U20, U21, U22, U23, U24, U25		Clay, unweathered, tan and gray, with calcareous nodules, with ferrous stains *(continued)*
65	C26		
70	C27		
75			
80	C28		
85			
90	C29		
95			
100			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 20' and wet rotary coring techniques to total depth. No groundwater was observed prior to introducing water into the borehole. The borehole was grouted upon completion.

Continued Next Page

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-22

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251416.36 N 319519.54**

Surface El.: **510.40 ft. msl**
Completion Depth: 165.0 ft.
Date Boring Started: 9/6/2023
Date Boring Completed: 9/7/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	C30		Clay, unweathered, tan and gray, with calcareous nodules, with ferrous stains *(continued)*
110	C31		
115	C32		
120			
125	C33		
130	C34		
135			
140	C35		
145	C36		
150			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 20' and wet rotary coring techniques to total depth. No groundwater was observed prior to introducing water into the borehole. The borehole was grouted upon completion.

BME

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

LOG OF BORING NO. BME-22

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251416.36 N 319519.54**

Surface El.: **510.40 ft. msl**
Completion Depth: 165.0 ft.
Date Boring Started: 9/6/2023
Date Boring Completed: 9/7/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
155	C36		Clay, unweathered, tan and gray, with calcareous nodules, with ferrous stains *(continued)*
160	C37		
			345.40
165			
170			
175			
180			
185			
190			
195			
200			

Contractor: H/ET

Remarks: Borehole advanced using shelby tubes from 0 to 20' and wet rotary coring techniques to total depth. No groundwater was observed prior to introducing water into the borehole. The borehole was grouted upon completion,

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-23

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250994.54 N 318974.92**

Surface El.: **515.54 ft. msl**
Completion Depth: 141.0 ft.
Date Boring Started: 9/23/2023
Date Boring Completed: 9/23/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	CS1		Fill
5	CS2		
10	CS3		
15	CS4		
20	CS5		
25	CS6		
30	CS7		484.54 Clay, weathered, light brown, with calcareous nodules
35	CS8		
40	CS9		
45	CS10		468.54 Clay, unweathered, dark gray
50			

Contractor: H/ET

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

BME

Continued Next Page

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-23

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250994.54 N 318974.92**

Surface El.: **515.54 ft. msl**
Completion Depth: 141.0 ft.
Date Boring Started: 9/23/2023
Date Boring Completed: 9/23/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS11		Clay, unweathered, dark gray *(continued)*
60			
65	CS12		
70			
75	CS13		
80			
85	CS14		
90			
95	CS15		
100			

Contractor: H/ET

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

Continued Next Page

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-23

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2250994.54 N 318974.92**

Surface El.: **515.54 ft. msl**
Completion Depth: 141.0 ft.
Date Boring Started: 9/23/2023
Date Boring Completed: 9/23/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathered, dark gray *(continued)*
105	CS16		
110			
115	CS17		
120			
125	CS18		
130			
135	CS19		
140	CS20		374.54
145			
150			

Contractor: **H/ET**

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-24

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-6892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251282.87 N 318754.94**

Surface El.: **524.08 ft. msl**
Completion Depth: 174.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0	CS1		Fill
5	CS2		
10	CS3		
15	CS4		
20	CS5		
25	CS6		
30	CS7		
			490.08
35	CS8		Clay, weathered, light brown and brown, with calcareous nodules
40	CS9		
45	CS10		
50			

Contractor: H/ET

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-24

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251282.87 N 318754.94**

Surface El.: **524.08 ft. msl**
Completion Depth: 174.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS11		Clay, weathered, light brown and brown, with calcareous nodules *(continued)*
	CS12		
60			464.08
	CS13		Clay, unweathered, dark gray
65			
70	CS14		
75			
80	CS15		
85			
90	CS16		
95			
	CS17		
100			

Contractor: H/ET

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-24

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251282.87 N 318754.94**

Surface El.: **524.08 ft. msl**
Completion Depth: 174.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, unweathered, dark gray *(continued)*
	CS17		
105			
	CS18		
110			
115			
	CS19		
120			
125			
	CS20		
130			
135			
	CS21		
140			
145			
	CS22		
150			

Contractor: **H/ET**

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-24

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251282.87 N 318754.94**

Surface El.: **524.08 ft. msl**
Completion Depth: 174.0 ft.
Date Boring Started: 9/21/2023
Date Boring Completed: 9/21/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
155	CS22		Clay, unweathered, dark gray *(continued)*
160	CS23		
165			
170	CS24		
			350.08
175			
180			
185			
190			
195			
200			

Contractor: **H/ET**

Remarks: Air rotary, continuous sampling at 5' intervals. Grouted upon completion

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-25

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255200.6 N 319820.13**

Surface El.: **469.70 ft. msl**
Completion Depth: 93.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
	CS		Clay, dark brown, with calcareous nodules, with rootlets
			467.70
5	CS1		Clay, weathered, light gray and light brown, with ferrous stains
10			
15	CS2		
20			
25	CS3		
30			
			436.70
35	CS4		Clay, unweathered, dark gray
40			- trace fossils
45	CS5		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-25

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255200.6 N 319820.13**

Surface El.: **469.70 ft. msl**
Completion Depth: 93.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS6		Clay, unweathered, dark gray *(continued)*
60			
65	CS7		
70			
75	CS8		
80			
85	CS9		
90	CS10		
			376.70
95			
100			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-26

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255826.8 N 319823.58**

Surface El.: **482.80 ft. msl**
Completion Depth: 107.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, dark brown, with calcareous nodules, with rootlets
			479.80
5	CS1		Clay, weathered, brown, with calcareous nodules, trace gypsum
10			
15	CS2		
20			
25	CS3		
30			
35	CS4		
40			
45	CS5		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

LOG OF BORING NO. BME-26

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255826.8 N 319823.58**

Surface El.: **482.80 ft. msl**
Completion Depth: 107.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
			Clay, weathered, brown, with calcareous nodules, trace gypsum *(continued)*	431.80
			Clay, unweathered, dark gray	
55	CS6			
60				
65	CS7			
70				
75	CS8			
80				
85	CS9			
90				
95	CS10			
100				

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-26

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255826.8 N 319823.58**

Surface El.: **482.80 ft. msl**
Completion Depth: 107.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS11		Clay, unweathered, dark gray *(continued)*
			375.80

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-27

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255244.79 N 320240.96**

Surface El.: **475.60 ft. msl**
Completion Depth: 126.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
			Clay, dark brown, with calcareous nodules, with rootlets
			471.60
5	CS1		Clay, weathered, light brown and light gray, with ferrous stains
10			
15	CS2		
20			
25	CS3		
30	CS4		
35			439.60
	CS5		Clay, unweathered, dark gray
40			
45	CS6		
50			

Contractor: H/ET

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-27

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255244.79 N 320240.96**

Surface El.: **475.60 ft. msl**
Completion Depth: 126.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55	CS7		Clay, unweathered, dark gray *(continued)*
60			
65	CS8		
70			
75	CS9		
80			
85	CS10		
90			
95	CS11		
100			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING NO. BME-27

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-6892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255244.79 N 320240.96**

Surface El.: **475.60 ft. msl**
Completion Depth: 126.0 ft.
Date Boring Started: 10/1/2023
Date Boring Completed: 10/1/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
105	CS12		Clay, unweathered, dark gray *(continued)*
110			
115	CS13		
120			
125	CS14		349.60
130			
135			
140			
145			
150			

Contractor: **H/ET**

Remarks: Sonic drilling methods utilizing water were used to drill the boring. No groundwater was observed prior to introduction of water into the borehole. The borehole was grouted upon completion.

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/12/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

BIGGS AND MATHEWS
PIEZOMETERS
2023

LOG OF PIEZOMETER NO. BME-P-1

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250285 N 323521.4**

Surface El.: **499.10 ft. msl**
Completion Depth: 28.0 ft.
Date Boring Started: 10/14/2023
Date Boring Completed: 10/15/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Piezometer Construction Details
			Clay, dark brown, with rootlets, with trace calcareous nodules	
			497.60	
			Clay, weathered, brown and tan, with gray streaks, with calcareous nodules. ferrous stains	
			475.10	
			Clay, unweathered, dark gray	
			471.10	

Contractor: H/ET

Remarks:

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/5/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF PIEZOMETER NO. BME-P-5

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2250029 N 322419.7**

Surface El.: **468.83 ft. msl**
Completion Depth: 28.5 ft.
Date Boring Started: 10/14/2023
Date Boring Completed: 10/15/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Piezometer Construction Details
0			Clay, dark brown, with rootlets, calcareous nodules	
			465.83	
			Clay, weathered, light gray and light brown, with ferrous stains, with gypsum partings	
5				
10			- with vertical partings, limonitic	
15				
20				
			443.83	
25			Clay, unweathered, dark gray, hard	
			440.33	
30				
35				
40				
45				
50				

Contractor: H/ET

Remarks:

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/5/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF PIEZOMETER NO. BME-P-12

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2250009 N 321357.1**

Surface El.: **489.71 ft. msl**
Completion Depth: 46.0 ft.
Date Boring Started: 10/14/2023
Date Boring Completed: 10/15/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Piezometer Construction Details
0			Clay, silty, dark gray and brown	
			487.71	
			Clay, weathered, light brown and tan, with calcareous nodules	
5				
10				
15				
20				
25				
30				
35				
40				
			447.71	
			Clay, unweathered, dark gray	
45			443.71	
50				

Contractor: H/ET

Remarks:

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/5/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF PIEZOMETER NO. BME-P-16

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251031 N 320728.1**

Surface El.: **490.28 ft. msl**
Completion Depth: 46.5 ft.
Date Boring Started: 10/14/2023
Date Boring Completed: 10/15/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Piezometer Construction Details
			Clay, silty, dark gray, with rootlets	
			488.28	
			Clay, weathered, tan and light brown, with gray, with calcareous nodules, ferrous stains	
5				
10				
15				
20				
25				
30				
35				
40				
			448.28	
			Clay, unweathered, dark gray, hard	
45				
			443.78	
50				

Contractor: H/ET

Remarks:

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/5/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF PIEZOMETER NO. BME-P-19

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2251188 N 320001.7**

Surface El.: **496.65 ft. msl**
Completion Depth: 46.0 ft.
Date Boring Started: 10/14/2023
Date Boring Completed: 10/15/2023

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Piezometer Construction Details
0			Clay, dark brown, with calcareous nodules	
			491.65	
5			Clay, weathered, tan and light brown	
10			- with calcareous nodules	
15				
20				
25			- with ferrous stains, limonitic	
30				
35				
40			451.65	
			Clay, unweathered, dark gray	
45			450.65	
50				

Contractor: H/ET

Remarks:

BME

TASWA PIEZOMETERS 2025 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 3/5/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

BIGGS AND MATHEWS

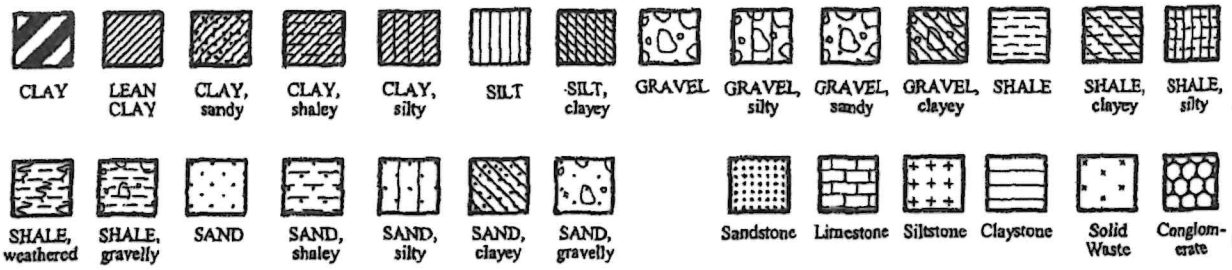
BORINGS

2011

Log/BME BORING 709 10/19/2011 4:45:11

KEY TO SOIL CLASSIFICATION TERMS AND SYMBOLS

SOIL OR ROCK TYPES (shown in symbols column)



DRILLING AND SAMPLING SYMBOLS:

A	Auger Sample
C	Double Tube Core Barrel
D	Denison Sample
S	Split Barrel Sampler - 2" O.D., unless otherwise noted Example: 25 = 25 blows/12" after 6" seating interval; 50/7 = 50 blows per 7" after 6" seating interval; REF = 50 blows <6"
T	THD Cone Penetrometer Example: T60 = 60 blows per 12" T4.5" = 100 blows per 4.5"
U	Thin-walled Tube - 3" O.D., unless otherwise noted
W	Wash Sample
PB	Pitcher Barrel

RELATIVE DENSITY OF COARSE-GRAINED SOILS

Penetration Resistance Blows/foot	Relative Density
0 - 4	Very loose
4 - 10	Loose
10 - 30	Medium dense
30 - 50	Dense
Over 50	Very dense

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Qu, tsf	Consistency
Less than 0.25	Very soft
0.25 to 0.50	Soft
0.50 to 1.00	Firm
1.00 to 2.00	Stiff
2.00 to 4.00	Very stiff
4.00 and higher	Hard

TERMS CHARACTERIZING SOIL STRUCTURE:

Slickensided:	Having inclined planes of weakness that are slick and glossy in appearance.
Fissured:	Containing shrinkage cracks, frequently filled with fine sand or silt; usually more or less vertical.
Laminated:	Composed of thin layers of varying color and texture.
Interbedded:	Composed of alternate layers of different soil types.
Calcareous:	Containing appreciable quantities of calcium carbonate.
Well graded:	Having wide range in grain sizes and substantial amounts of all intermediate particle sizes.
Poorly graded:	Predominantly of one grain size, or having a range of sizes with some intermediate size missing.

DEGREE OF WEATHERING:

Unweathered:	Rock in its natural state before being exposed to atmospheric agents.
Slightly weathered:	Noted predominantly by color change with no disintegrated zones.
Weathered:	Complete color change with zones of slightly decomposed rock.
Severely weathered:	Complete color change with consistency, texture, and general appearance approaching soil.

SUBSURFACE CONDITIONS:

Soil and rock descriptions on the boring logs are a compilation of field data as well as from laboratory testing of samples on those strata for which laboratory classification test results are presented on the boring logs. These classifications are based only on the actual samples tested, and the classification is then assigned to the remainder of the stratum interval based on visual classification. If laboratory classification test results are not presented on the boring log for a particular stratum, then that stratum was classified by visual-manual procedures only. The stratification lines represent the approximate boundary between materials and the transition can be gradual.

Classification of soils based upon visual-manual procedures was performed in general accordance with ASTM Standard D 2488. Classification of soils based upon laboratory test results was performed in general accordance with ASTM Standard D 2487.

Water-level observations have been made in the borings at the times indicated. It must be noted that fluctuations in the groundwater level may occur due to variations in rainfall, hydraulic conductivity of soil strata, construction activity, and other factors.

LOG OF BORING NO. CB-9

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2253838.8 N 322008.5**

Surface El.: **500.3 ft. msl**
Completion Depth: **165.0 ft.**
Date Boring Started: **8/22/11**
Date Boring Completed: **8/22/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1987 Boring Log - See Note 1 **********	4.25								
5	U		Hard tan & light gray CLAY (CH) w/ slickensides & gypsum crystals	4.5+								
10	U			4.5+								
15	U			4.5+		27		82	26	56		
20	U			4.5+								
25	U			4.5+								
30	U			4.5+								
35	U			4.5+		26		91	25	66		
			462.7									
40	U		Hard dark gray CLAYSTONE (CH) fissures	4.5+								
45	U			4.5+								
50	U			4.5+		24		92	28	64		
55	U			4.5+								
60	U			4.5+								
65	U			4.5+								
			********** End 1987 Boring Log ********** 432.7									
70	U		CLAY, dark gray, hard (CH)	4.5+		20		65	26	39		
75	C1											
80	C2											
85	C3											
90												
95	C4											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 502.7' - 432.7' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-9

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2253838.8 N 322008.5**

Surface El.: **500.3 ft. msl**
Completion Depth: **165.0 ft.**
Date Boring Started: **8/22/11**
Date Boring Completed: **8/22/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C5		CLAY, dark gray, hard (CH) *(continued)*									
110												
115	C6											
120												
125	C7											
130												
135	C8											
140												
145	C9											
150												
155	C10											
160												
	C11		335.3									
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 502.7' - 432.7' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries.
In situ, the transition may be gradual.

LOG OF BORING NO. CB-15

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2255654.4 N 321950.1**

Surface El.: **458.5 ft. msl**
Completion Depth: **125.0 ft.**
Date Boring Started: **8/10/11**
Date Boring Completed: **8/11/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, brown and tan (FILL)									
5			- shaly									
10												
15			443.0									
	U		********** Begin 1987 Boring Log - See Note 1 **********	4.5+								
			440.0									
			Hard dark gray CLAY (CH)									
20	U		Hard tan & light gray CLAY (CH)	4.5+								
			w/ slickensides									
	U			4.5+		31		69	29	40		
25			433.0									
			Hard dark gray CLAYSTONE (CH)									
			w/ scattered fossil fragments	4.5+								
30	U											
				4.5+		21		70	28	42		
35	U											
				4.5+								
40	U											
				4.5+								
45	U											
				4.5+		19		65	27	38		
50	U											
			********** End 1987 Boring Log **********	4.5+								
55	U		403.0									
	C1		CLAY, dark gray, hard (CH)									
60												
	C2											
65												
	C3											
70												
75												
	C4											
80												
85												
	C5											
90												
95												
	C6											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 443' - 403' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-15
PAGE 1 OF 2

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-15

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2255654.4 N 321950.1**

Surface El.: **458.5 ft. msl**
Completion Depth: **125.0 ft.**
Date Boring Started: **8/10/11**
Date Boring Completed: **8/11/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C7		CLAY, dark gray, hard (CH) *(continued)*									
110	C8											
115												
120	C9											
125			333.5									
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 443' - 403' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-16

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2255431.3 N 322328.0**

Surface El.: **442.5 ft. msl**
Completion Depth: **110.0 ft.**
Date Boring Started: **8/18/11**
Date Boring Completed: **8/19/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION		Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
			CLAY, brown and tan (FILL)	440.4									
	U		********** Begin 1987 Boring Log - See Note 1 *********	437.9	4.0								
5	U		Hard dark gray CLAY (CH) w/roots & calcareous nodules		2.0		24		69	21	48		
			Stiff to hard tan & light gray CLAY (CH)										
10	U		w/scattered slickensides & gypsum		3.25								
15	U				4.5+		27		71	28	43		
				423.4									
20	U		Hard dark gray CLAYSTONE (CH)		4.5+								
25	U				4.5+		22		65	26	39		
30	U				4.5+		22		63	28	35		
35	U				4.5+								
40	U				4.5+								
45	U				4.5+								
50	U		********** End 1987 Boring Log **********	390.4	4.5+								
	C1		CLAY, dark gray, hard (CH)										
55	C2												
60													
65	C3												
70													
75	C4												
80													
85	C5												
90													
95	C6												
100													

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 440.4' - 390.4' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-16
PAGE 1 OF 2

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-16

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2255431.3 N 322328.0**

Surface El.: **442.5 ft. msl**
Completion Depth: **110.0 ft.**
Date Boring Started: **8/18/11**
Date Boring Completed: **8/19/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C7		CLAY, dark gray, hard (CH) *(continued)*									
			332.5									
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 440.4' - 390.4' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE# SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-16
PAGE 2 OF 2

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-17

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254800.5 N 321960.7**

Surface El.: **524.7 ft. msl**
Completion Depth: **190.0 ft.**
Date Boring Started: **8/1/11**
Date Boring Completed: **8/2/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, tan and brown with gray (FILL)									
30			493.5									
	U		********** Begin 1987 Boring Log - See Note 1 ********** 491.6	4.5+								
	U		Hard dark gray CLAY (CH)	2.5								
35	U		Very stiff to hard tan & light gray CLAY (CH) w/ gypsum	4.5+								
40	U			4.5+								
45	U			4.5+		23		73	28	45		
50	U			4.5+								
55	U			4.5+								
60	U			4.5+		23		79	29	50		
65	U			4.5+								
70	U		451.6	4.5+								
75	U		Hard dark gray CLAYSTONE (CH) w/ scattered fossil fragments	4.5+		20		85	27	58		
80	U			4.5+								
85	U			4.5+								
90	U			4.5+		18		87	27	60		
95	U			4.5+								
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 493.5' - 403.5' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-17

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254800.5 N 321960.7**

Surface El.: **524.7 ft. msl**
Completion Depth: **190.0 ft.**
Date Boring Started: **8/1/11**
Date Boring Completed: **8/2/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	U		Hard dark gray CLAYSTONE (CH) w/ scattered fossil fragments *(continued)*	4.5+								
110	U			4.5+								
115	U											
120	U		********** End 1987 Boring Log ********** 403.5									
125	C1		CLAY, dark gray, hard (CH)									
130												
135	C2											
140												
145	C3											
150	C4											
155												
160	C5											
165												
170	C6											
175												
180	C7											
185												
190	C8		334.7									
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 493.5' - 403.5' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE# SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-20

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254873.5 N 322663.8**

Surface El.: **541.7 ft. msl**
Completion Depth: **205.0 ft.**
Date Boring Started: **8/3/11**
Date Boring Completed: **8/5/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, tan and brown (FILL)									
5												
10												
15												
20												
25												
30												
35			506.1									
	U		********** Begin 1987 Boring Log - See Note 1 **********	4.5+								
	U		Hard dark gray CLAY (CH) 503.2	3.0								
40	U		Very stiff tan & light gray CLAY (CH)	4.0								
	U		- w/ calcareous nodules & slightly silty @ 39.6'									
45	U		- silty @ 41.6' - 43.6'									
	U		w/ calcareous nodules	N=30		19						
50	U		- dense @ 48.6'									
	U		- w/ calcareous gravel at 48.6' - 51.6'	4.5+								
55	U		- w/ slickensides & calcareous nodules @ 53.6'	4.5+								
	U			4.6		25		74	27	47		
60	U			4.5+								
	U		w/ gypsum crystals 470.1									
65	U		Hard dark gray CLAYSTONE (CH)	4.5+								
	U			4.5+		22		78	25	53		
70	U			4.5+								
	U			4.5+								
75	U			4.5+								
	U			4.5+								
80	U											
	U											
85	U											
	U											
90	U											
	U											
95	U											
	U											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 506.1' - 406.1' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE# SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-20
PAGE 1 OF 3

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-20

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254873.5 N 322663.8**

Surface El.: **541.7 ft. msl**
Completion Depth: **205.0 ft.**
Date Boring Started: **8/3/11**
Date Boring Completed: **8/5/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	U		Hard dark gray CLAYSTONE (CH) *(continued)*	4.5+		18		79	27	52		
110	U			4.5+								
115	U			4.5+								
120	U		- w/ fossil fragments @ 118.5' - 120.5'	4.5+								
125	U			4.5+								
130	U			4.5+								
135	U		********** End 1987 Boring Log ********** 406.1	4.5+								
140	C1		CLAY, dark gray, hard (CH)									
145	C2											
150												
155	C3											
160												
165	C4											
170												
175	C5											
180												
185	C6											
190												
195	C7											
200	C8											

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 506.1' - 406.1' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-20

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2254873.5 N 322663.8**

Surface El.: **541.7 ft. msl**
Completion Depth: **205.0 ft.**
Date Boring Started: **8/3/11**
Date Boring Completed: **8/5/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
205	C8		CLAY, dark gray, hard (CH) *(continued)*									
			336.7									
210												
215												
220												
225												
230												
235												
240												
245												
250												
255												
260												
265												
270												
275												
280												
285												
290												
295												
300												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 506.1' - 406.1' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-21

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2254391.9 N 322556.1**

Surface El.: **521.3 ft. msl**
Completion Depth: **185.0 ft.**
Date Boring Started: **8/16/11**
Date Boring Completed: **8/17/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, tan (FILL)									
5												
10												
15			504.2	3.0								
20	U		********** Begin 1987 Boring Log - See Note 1 ********** Very stiff dark gray CLAY (CH) w/ roots & gravel	1.25		28		65	25	40		
25	U		- stiff tan & dark gray @ 20' w/ ferrous & calcareous nodules very stiff tan w/clay, sand & gravel partings 495.3	2.75								
30	U		Hard tan & light gray CLAY (CH) w/ slickensides & calcareous nodules - w/ claystone seams @ 30' - 32'	4.5+								
35	U			4.5+								
40	U			4.5+		25		75	27	48		
45	U		w/gypsum crystals	4.5+								
50	U			4.5+								
55	U		464.2	4.5+								
60	U		Hard dark gray CLAYSTONE (CH) w/ fracture & is fissile									
65	U											
70	U					20		69	28	41		
75	U											
80	U											
85	U											
90	U											
95	U											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 504.2' - 404.2' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-21

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254391.9 N 322556.1**

Surface El.: **521.3 ft. msl**
Completion Depth: **185.0 ft.**
Date Boring Started: **8/16/11**
Date Boring Completed: **8/17/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	U		Hard dark gray CLAYSTONE (CH) w/ fracture & is fissile *(continued)*									
110	U					19		67	27	40		
115	U		********** End 1987 Boring Log ********** 404.2									
120	C1		CLAY, dark gray, hard (CH)									
125	C2											
130												
135	C3											
140												
145	C4											
150												
155	C5											
160	C6											
165	C7											
170	C8											
175	C9											
180			336.3									
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 504.2' - 404.2' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-23

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2255259.3 N 323089.6**

Surface El.: **447.6 ft. msl**
Completion Depth: **115.0 ft.**
Date Boring Started: **7/20/11**
Date Boring Completed: **7/21/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1987 Boring Log - See Note 1 ********** 446.6									
	U		"FILL"			20		72	22	50		
5	U		Hard tan CLAY (CH) w/ ferrous & calcareous nodules, slickensides & gypsum crystals			24		74	27	47		
10	U		434.6									
15	U		Hard dark gray CLAYSTONE (CH)			20		66	27	39		
	U					23		62	28	34		
20	U											
25	U											
30	U											
35	U											
40	U											
45	U		********** End 1987 Boring Log ********** 402.6									
50	C1		CLAY, dark gray, hard (CH)									
55												
60	C2											
65												
70	C3											
75												
80	C4											
85												
90	C5											
95	C6											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 447.6' - 402.6' previously drilled by HDR as part of the 1991 application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-23

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2255259.3 N 323089.6**

Surface El.: **447.6 ft. msl**
Completion Depth: **115.0 ft.**
Date Boring Started: **7/20/11**
Date Boring Completed: **7/21/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C7		CLAY, dark gray, hard (CH) *(continued)*									
110	C8											
115			332.6									

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 447.6' - 402.6' previously drilled by HDR as part of the 1991 application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries.
In situ, the transition may be gradual.

LOG OF BORING NO. CB-24

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254472.6 N 322971.9**

Surface El.: **508.7 ft. msl**
Completion Depth: **175.0 ft.**
Date Boring Started: **7/18/11**
Date Boring Completed: **7/19/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1987 Boring Log - See Note 1 **********									
	U		Hard dark gray CLAY (CH)									
5	U		w/ gypsum crystals, gravel, fossil fragments									
			very stiff 501.7									
	U		- w/ ferrous & calcareous nodules @ 3'									
10	U		Hard tan & light gray CLAY (CH)									
	U		- w/ some gravel @ 13'									
15				4.5+								
	U			4.5+		22		73	25	48		
20				4.5+								
	U			4.5+								
25												
	U											
30												
	U											
35			w/ gypsum crystals									
				4.5+								
	U		w/ fossil fragments 467.7									
40			Hard dark gray CLAYSTONE (CH)	4.5+								
	U			4.5+		20		57	26	41		
45				4.5+								
	U											
50												
	U											
55												
	U											
60												
	U											
65												
	U											
70												
	U			4.5+		19		75	26	49		
75				4.5+								
	U		- w/ fractures @ 78' - 80'									
80				4.5+								
	U			4.5+								
85												
	U			4.5+								
90												
	U			4.5+								
95												
	U		********** End 1987 Boring Log ********** 408.7	4.5+								
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 508.7' - 408.7' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG_NO_PAGE#_SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-24
PAGE 1 OF 2

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-24

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254472.6 N 322971.9**

Surface El.: **508.7 ft. msl**
Completion Depth: **175.0 ft.**
Date Boring Started: **7/18/11**
Date Boring Completed: **7/19/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C1		CLAY, dark gray, hard (CH)									
110	C2											
115	C3											
120	C4											
125	C5											
130	C5											
135	C6											
140	C7											
145	C8											
150	C8											
155	C9											
160	C9											
165	C10											
170	C10		333.7									
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 508.7' - 408.7' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE# SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-25

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253720.5 N 323455.3**

Surface El.: **441. ft. msl**
Completion Depth: **105.0 ft.**
Date Boring Started: **7/13/11**
Date Boring Completed: **7/14/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1987 Boring Log - See Note 1 **********	4.5+								
	U		Hard tan & gray CLAY (CH)	3.00								
5	U		very stiff - w/ slickensides, gypsum nodules & oxidation streaks @ 3'	4.5+		23		74	28	46		
10	U		- hard @ 8'	4.5+								
15	U			4.5+		21		70	26	44		
20	U		418.0	4.5+								
25	U		Hard dark gray CLAYSTONE (CH)	4.5+		16		67	24	43		
30	U			4.5+								
35	U		w/ occasional fossils	4.5+		20		62	26	36		
40	U			4.5+								
45	U		********** End 1987 Boring Log **********	4.5+								
50	U		391.0									
55	C1		CLAY, dark gray, hard (CH)									
60	C2											
65	C3											
70	C4											
75	C4											
80	C5											
85	C5											
90	C6											
95	C6											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Note 1: Elevation 441.0' - 391.0' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-25

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2253720.5 N 323455.3**

Surface El.: **441. ft. msl**
Completion Depth: **105.0 ft.**
Date Boring Started: **7/13/11**
Date Boring Completed: **7/14/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C7		CLAY, dark gray, hard (CH) *(continued)* 336.0									
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Note 1: Elevation 441.0' - 391.0' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-26

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2254839.0 N 323864.5**

Surface El.: **422.7 ft. msl**
Completion Depth: **90.0 ft.**
Date Boring Started: **7/15/11**
Date Boring Completed: **7/15/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** **Begin 1987 Boring Log - See Note 1** **********	4.5+								
	U		Hard tan CLAY (CH)	4.0		26		70	26	44		
5			- w/ roots to 2' & occasional gravel									
	U			2.25								
10			- very stiff tan & dark gray @ 8'									
	U			1.00		28		73	26	47		
15												
	U			1.00								
20			- w/ calcareous nodules @ 18'									
	U			2.50		25		77	22	55		
25			- w/ slickensides @ 23'									
	U			4.5+								
30			391.7									
	U		Hard dark gray CLAYSTONE (CH)	4.5+		21		71	27	44		
35												
	U			4.5+								
40												
	U			4.5+								
45												
	U		w/ fractures on bedding planes	4.5+								
50			********** **End 1987 Boring Log** ********** 372.7									
	C1		CLAY, dark gray, hard (CH)									
55												
60	C2											
65												
70	C3											
75												
80	C4											
85												
	C5											
90			332.7									
95												
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 422.7' - 372.7' previously drilled by HDR as part of the 1991 permit application. 1987 log surface elevation of 444.5 ft msl apparently an error. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-26
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries.
In situ, the transition may be gradual.

LOG OF BORING NO. CB-27

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2254211.6 N 324027.0**

Surface El.: **418.1 ft. msl**
Completion Depth: **85.0 ft.**
Date Boring Started: **7/14/11**
Date Boring Completed: **7/14/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1987 Boring Log - See Note 1 **********	4.5								
	U		Hard tan & dark gray CLAY (CH)	2.50								
5	U		- w/ some gravel to 5'									
			- very stiff w/ slickenside @ 3' - 31'	3.25								
10	U		- w/ fossil fragments & calcareous nodules @ 8'									
				4.5+								
15	U											
	U		- stiff w/ gypsum crystals & gravel @ 18'	1.50		27		75	21	54		
20												
			- very stiff @ 23'	2.75								
25	U											
	U			3.75		26		78	23	55		
30			387.1									
	U		Hard dark gray CLAYSTONE (CH)	4.5+								
35												
				4.5+		20		59	23	36		
40	U											
				4.5+								
45	U		- fissile @ 43'									
			w/ occasional fossil fragments	4.5+		16		60	24	36		
50	U		********** End of 1987 Boring Log ********** 368.1									
	C1		CLAY, dark gray, hard (CH)									
55												
60	C2											
65												
70	C3											
75												
80	C4											
			333.1									
85												
90												
95												
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 418.1' - 368.1' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-27
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-28

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2255075.4 N 323954.0**

Surface El.: **423.8 ft. msl**
Completion Depth: **90.0 ft.**
Date Boring Started: **7/18/11**
Date Boring Completed: **7/18/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1991 Boring Log ********** 421.8 Firm brown clay w/ roots and root holes (CH)									
5	U		Hard gray and tan clay w/ iron stained fissures					85	26	59	99.6	
10	U		(CH) 412.8									
15	U		Hard dark gray clay w/ occasional small shell fragments					71	27	44		
20	U											
25	U											
30	U		(CH)									
35	U		********** End 1991 Boring Log ********** 388.8									
40	C1		CLAY, dark gray, hard (CH)									
45	C2											
50												
55	C3											
60												
65	C4											
70												
75	C5											
80												
85	C6		333.8									
90												
95												
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 423.8' - 388.8' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-28
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries.
In situ, the transition may be gradual.

LOG OF BORING NO. CB-29

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Location: **E 2253650.5 N 324260.7**

Surface El.: **405.5 ft. msl**
Completion Depth: **70.0 ft.**
Date Boring Started: **7/13/11**
Date Boring Completed: **7/13/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1991 Boring Log - See Note 1 **********									
			Firm brown clay w/ roots — 20% Recovery (CH)									
			400.5									
5	U		Firm tan clay w/ occasional brown laminations and occasional small calcareous nodules — 100% Recovery					70	22	48		
10	U		100% Recovery									
15	U		100% Recovery (CH)									
			385.5									
20	U		Stiff tan and gray clay w/ occasional small calcareous nodules — 40% Recovery									
25	U		30% Recovery									
30	U		- w/ occasional tight iron stained fissures — 100% Recovery (CH)									
			********** End 1991 Boring Log **********									
			370.5									
35			CLAY, tan and gray, stiff, with some gravel (CH)									
40	U1		- seepage observed @ 37'									
			361.5									
45	U2		CLAY, dark gray, hard (CH)									
	C1											
50	C2											
55												
60	C3											
65												
70	C4		335.5									
75												
80												
85												
90												
95												
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 405.5' - 370.5' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-30

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253113.3 N 324156.3**

Surface El.: **430.9 ft. msl**
Completion Depth: **95.0 ft.**
Date Boring Started: **8/9/11**
Date Boring Completed: **8/9/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1991 Boring Log - See Note 1 **********									
			Stiff tan and yellow clay									
5	U		- Hard below 5' w/ occasional small calcareous nodules									
10	U		- w/ iron stain fissure									
			(CH) 415.9									
15	U		Hard dark gray clay									
20	U											
25	U											
30	U											
35	U											
40	U											
45	U		(CH)									
			********** End 1991 Boring Log ********** 380.9									
50	C1		CLAY, dark gray, hard (CH)									
55												
60	C2											
65												
70	C3											
75												
80	C4											
85	C5											
90	C6											
95	C7		335.9									
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 430.9' - 380.9' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG_NO_PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-30
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries.
In situ, the transition may be gradual.

LOG OF BORING NO. CB-32

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252505.4 N 323884.1**

Surface El.: **441.1 ft. msl**
Completion Depth: **105.0 ft.**
Date Boring Started: **7/12/11**
Date Boring Completed: **7/12/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION		Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
			CLAY, brown and tan (FILL)	438.3									
	U		********** Begin 1991 Boring Log - See Note 1 **********	436.3									
5			Stiff brown clay	(CH)									
	U		Stiff tan clay				30		76	24	52		
10				(CH) 428.3									
	U		Very stiff dark gray clay (CH)	425.3									
15			w/ iron stain at 13.8'										
	U		Hard dark gray clay										
20													
	U												
25													
	U												
30													
	U												
35													
40													
45			********** End of 1991 Boring Log **********	(CH) 393.3									
50	C1		CLAY, dark gray, hard (CH)										
55													
60	C2												
65													
70	C3												
75													
80	C4												
85													
90	C5												
95													
100	C6												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Note 1: Elevation 438.3' - 393.3' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-32

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252505.4 N 323884.1**

Surface El.: **441.1 ft. msl**
Completion Depth: **105.0 ft.**
Date Boring Started: **7/12/11**
Date Boring Completed: **7/12/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C6		CLAY, dark gray, hard (CH) *(continued)* 336.1									

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Note 1: Elevation 438.3' - 393.3' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-32
PAGE 2 OF 2

The stratification lines represent approximate strata boundaries.
In situ, the transition may be gradual.

LOG OF BORING NO. CB-33

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252940.0 N 323584.4**

Surface El.: **432.9 ft. msl**
Completion Depth: **100.0 ft.**
Date Boring Started: **7/11/11**
Date Boring Completed: **7/11/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
	U		********** Begin 1991 Boring Log - See Note 1 *********									
			Stiff brown clay (CH) 429.4									
5	U		Very stiff tan and gray clay w/ selenite filled fissure									
10	U		- w/ vertical iron stained fissure (CH) 418.9									
15	U		Hard dark gray clay					65	23	42		
20	U											
25	U											
30	U											
35	U											
40	U											
	U		********** End 1991 Boring Log ********** (CH) 387.9									
45	C1		CLAY, dark gray, hard (CH)									
50	C2											
55	C3											
60	C4											
65	C5											
70	C6											
75	C7											
80	C8											
85	C9											
90	C10											
95	C11											
100			332.9									

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 432.9' - 387.9' previous drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-33
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-36

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252746.9 N 322946.1**

Surface El.: **437.7 ft. msl**
Completion Depth: **105.0 ft.**
Date Boring Started: **8/10/11**
Date Boring Completed: **8/10/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION			Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1991 Boring Log - See Note 1 **********											
			Stiff brown clay	(CH)	434.7									
5	U		Stiff tan and gray clay w/ calcareous nodules					30		71	23	48		
10	U		- w/ iron stained and selenite filled fissure at 10.0'											
				(CH)	424.7									
15	U		Hard dark gray clay					19		63	22	41		
20	U													
25	U													
30	U													
35	U													
40	U			(CH)										
			********** End 1991 Boring Log **********		392.7									
45	U		CLAY, dark gray, hard (CH)											
50	C1													
55	C2													
60														
65	C3													
70														
75	C4													
80														
85	C5													
90														
95	C6													
100														

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 437.7' - 392.7' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE# SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-36

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252746.9 N 322946.1**

Surface El.: **437.7 ft. msl**
Completion Depth: **105.0 ft.**
Date Boring Started: **8/10/11**
Date Boring Completed: **8/10/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C7		CLAY, dark gray, hard (CH) *(continued)* 332.7									

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 437.7' - 392.7' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-37

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253487.3 N 322988.0**

Surface El.: **442.8 ft. msl**
Completion Depth: **110.0 ft.**
Date Boring Started: **8/5/11**
Date Boring Completed: **8/9/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1991 Boring Log - See Note 1 **********									
			Stiff brown clay w/ roots (CH) 439.8									
5	U		Very stiff tan and gray clay w/ occasional fine sand inclusions (CH) 433.8									
10	U		Hard dark gray clay					64	26	38		
15	U											
20	U											
25	U											
30	U		- w/ thin claystone seam									
35	U											
40	U											
45	U											
50	U		********** End 1991 Boring Log ********** (CH) 392.8									
	C1		CLAY, dark gray, hard (CH)									
55												
60	C2											
65												
70	C3											
75												
80	C4											
85												
90	C5											
95												
100	C6											

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 442.8' - 392.8' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

BME LOG_NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-37

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253487.3 N 322988.0**

Surface El.: **442.8 ft. msl**
Completion Depth: **110.0 ft.**
Date Boring Started: **8/5/11**
Date Boring Completed: **8/9/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C6		CLAY, dark gray, hard (CH) *(continued)*									
	C7		332.8									
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 442.8' - 392.8' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-38

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253197.9 N 322520.2**

Surface El.: **448.5 ft. msl**
Completion Depth: **115.0 ft.**
Date Boring Started: **8/23/11**
Date Boring Completed: **8/24/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
	U		********** Begin 1991 Boring Log - See Note 1 ********** 446.5									
			Stiff brown clay w/ roots (CH)									
5	U		Very stiff tan clay, w/ vertical iron stained and sand filled fissure (CH) 439.5									
10	U		Hard dark gray clay									
15	U							61	24	37		
20	U											
25	U											
30	U											
35	U											
40												
45	U											
50	U		********** End of 1991 Boring Log ********** (CH) 398.5									
	C1		CLAY, dark gray, hard (CH)									
55	C2											
60												
65	C3											
70												
75	C4											
80												
85	C5											
90												
95	C6											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 448.5' -398.5' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-38

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253197.9 N 322520.2**

Surface El.: **448.5 ft. msl**
Completion Depth: **115.0 ft.**
Date Boring Started: **8/23/11**
Date Boring Completed: **8/24/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C7		CLAY, dark gray, hard (CH) *(continued)*									
110	C8											
			333.5									
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 448.5' -398.5' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-43

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252533.3 N 322210.2**

Surface El.: **439. ft. msl**
Completion Depth: **103.9 ft.**
Date Boring Started: **8/18/11**
Date Boring Completed: **8/18/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	U		********** Begin 1987 Boring Log - See Note 1 ********** 437.0									
			Stiff brown clay w/ roots (CH)									
5	U		Very stiff tan and yellow clay w/ iron stains, calcareous nodules and selenite									
10	U		- w/ dark gray clay and selenite filled fissures at 10.5' and 11.0' (CH) 425.0									
15	U		Hard dark gray clay									
20	U											
25	U											
30	U		(CH)									
35	U		********** End 1991 Boring Log ********** 404.0									
40	C1		CLAY, dark gray, hard (CH)									
45												
50	C2											
55												
60	C3											
65												
70	C4											
75												
80	C5											
85												
90	C6											
95												
100	C7											

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 439.0' - 404.0' previously drilled by HDR as part of the 1991 permit application. Current surface elevation was 435.1. Lithologic descriptions for that interval are from original boring log.

BME LOG_NO_PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-43
PAGE 1 OF 2

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-43

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2252533.3 N 322210.2**

Surface El.: **439. ft. msl**
Completion Depth: **103.9 ft.**
Date Boring Started: **8/18/11**
Date Boring Completed: **8/18/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
	C7		CLAY, dark gray, hard (CH) *(continued)*									
			335.1									
105												
110												
115												
120												
125												
130												
135												
140												
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 439.0' - 404.0' previously drilled by HDR as part of the 1991 permit application. Current surface elevation was 435.1. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-44

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253840.1 N 322255.2**

Surface El.: **501. ft. msl**
Completion Depth: **165.0 ft.**
Date Boring Started: **8/12/11**
Date Boring Completed: **8/15/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
	U		********** Begin 1991 Boring Log - See Note 1 **********									
			Stiff brown clay w/ roots (CH) 497.0									
5	U		Very stiff tan and gray clay									
10	U		- hard below 10.0'									
15	U		- w/ iron stains and selenite									
20	U		- w/ vertical selenite filled fissure			26	98.0	74	24	50		
25	U		- w/ iron stains									
30	U		- w/ selenite and iron stains									
			(CH) 466.0									
35	U		Hard dark gray clay w/ vertical iron stained fissure									
40	U		- w/ iron stains to 45.0'									
			(CH) 456.0									
45			Hard dark gray clay									
50	U											
55	U											
60	U											
65	U											
70	U											
75	U					22		61	24	37		
80	U											
85												
90	U											
95	U											
100												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 501.0' - 396.0' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

LOG OF BORING NO. CB-44

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-124

Location: **E 2253840.1 N 322255.2**

Surface El.: **501. ft. msl**
Completion Depth: **165.0 ft.**
Date Boring Started: **8/12/11**
Date Boring Completed: **8/15/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	U		Hard dark gray clay *(continued)* (CH)									
	U		********** End 1991 Boring Log ********** 396.0									
	C1		CLAY, dark gray, hard (CH)									
110												
115	C2											
120												
125	C3											
130												
135	C4											
140												
145	C5											
150												
155	C6											
160												
	C7		336.0									
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 501.0' - 396.0' previously drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG NO PAGE # SKYLINE.GPJ B&M DATA TEMPLATE.GDT 12/20/11

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF BORING NO. CB-56

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-1244

Location: **E 2255099.8 N 321607.3**

Surface El.: **472.9 ft. msl**
Completion Depth: **140.0 ft.**
Date Boring Started: **7/21/11**
Date Boring Completed: **7/22/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, tan (FILL)									
15			456.1									
20	U		********** Begin 1991 Boring Log - See Note 1 ********** Firm brown clay w/ organic material (FILL)									
			452.1									
25	U		Very stiff tan and gray clay w/ weathered calcareous nodules and selenite (FILL)									
	U		448.1									
30			Hard tan and gray clay w/ iron stains (CH)			27		79	24	55		
	U		442.1									
35	U		Hard dark gray clay									
	U					22		69	30	39		
40	U											
45	U											
50	U											
55	U											
60	U		********** End 1991 Boring Log **********									
			411.1									
65			CLAY, dark gray, hard (CH)									
70	C1											
75												
80	C2											
85												
90	C3											
95												
100	C4											

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Grouted. Note 1: Elevation 456.1' - 410.9' drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

BME LOG DISPLAY TO TENTHS SKYLINE.GPJ B&M DATA TEMPLATE.GDT 11/2/12

LOG OF BORING NO. CB-56
PAGE 1 OF 2

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

Continued Next Page

LOG OF BORING NO. CB-56

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris

Biggs and Mathews
1700 Robert Road
Mansfield TX 76063
Phone: 817-563-1144
Fax: 817-561-1244

Location: **E 2255099.8 N 321607.3**

Surface El.: **472.9 ft. msl**
Completion Depth: **140.0 ft.**
Date Boring Started: **7/21/11**
Date Boring Completed: **7/22/11**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
105	C4		CLAY, dark gray, hard (CH) *(continued)*									
110	C5											
115												
120	C6											
125												
130	C7											
135	C8											
140			332.9									
145												
150												
155												
160												
165												
170												
175												
180												
185												
190												
195												
200												

Drilling Contractor: **LandTec**
Drilling Method: **Auger and Core**
Sampling Method: **Core**
Geologist/Engineer: **Jeremy Featherston**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Grouted. Note 1: Elevation 456.1' - 410.9' drilled by HDR as part of the 1991 permit application. Lithologic descriptions for that interval are from original boring log.

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

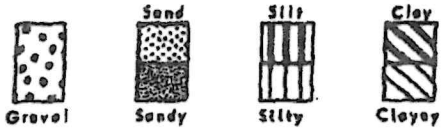
BME LOG DISPLAY TO TENTHS SKYLINE.GPJ B&M DATA TEMPLATE.GDT 11/2/12

PREVIOUS BORINGS

CB-1 THROUGH CB-56

KEY TO SOIL CLASSIFICATIONS AND SYMBOLS

SOIL TYPE



Predominant type shown heavy

SAMPLE TYPE



TERMS DESCRIBING CONSISTENCY OR CONDITION

COARSE GRAINED SOILS
(Major portion retained on No. 200 sieve)

Includes (1) clean gravels and sands described as fine, medium or coarse, depending on distribution of grain sizes and (2) silty or clayey gravels and sands. Condition is rated according to relative density, as determined by laboratory tests or estimated from resistance to sampler penetration.

Penetration Resistance Blows/Foot**	Descriptive Term	Relative Density *
0 - 10	Loose	0 to 40%
10 - 30	Medium dense	40 to 70%
30 - 50	Dense	70 to 90%
Over 50	Very dense	90 to 100%

* From tests on undisturbed sand sample
** 140# hammer, 30-inch drop

Relative density is also used to describe condition of low plasticity (P I = 10) fine grained soils such as sandy silts.

FINE GRAINED SOILS
(Major portion passing No. 200 sieve)

Includes (1) inorganic and organic silts and clays, (2) gravelly, sandy, or silty clays, and (3) clayey silts. Consistency is rated according to shearing strength, as indicated by penetrometer readings or by unconfined compression tests for soils with plasticity indices = 10.

Descriptive Term	Compressive Strength Tons/Sq. Ft.
Very soft	less than 0.25
Soft	0.25 to 0.50
Firm	0.50 to 1.00
Stiff	1.00 to 2.00
Very stiff	2.00 to 4.00
Hard	4.00 and higher

Note: Slickensided and fissured clays may have lower unconfined compressive strengths than shown above, because of planes and weakness or shrinkage cracks in the soil. The consistency ratings of such soils are based on penetrometer readings.

TERMS CHARACTERIZING SOIL STRUCTURE

Fissured - containing shrinkage cracks, frequently filled with fine sand or silt; usually more or less vertical

Sensitive - pertaining to cohesive soils that are subject to appreciable loss of strength when remolded

Laminated - composed of thin layers of varying color and texture

Interbedded - composed of alternate layers of different soil types

Calcareous - containing appreciable quantities of calcium carbonate

Well graded - having wide range in grain sizes and substantial amounts of all intermediate particle sizes

Poorly graded - predominately of one grain size, or having a range of sizes with some intermediate size missing

Slickensided - having inclined planes of weakness that are slick and glossy in appearance.

Degree of slickenside development:

Slightly slickensided - slickensides are present at intervals of 1-2 feet and soil does not easily break along these planes.

Moderately slickensided - slickensides are spaced at intervals of 1-2 feet and soil breaks easily along these planes.

Extremely slickensided - slickensides are spaced at intervals 4-12 inches, are continuous and interconnected. Soil breaks easily along the slickensides. Resulting size of broken pieces three to six inches.

Intensely slickensided - slickensides are spaced at intervals of less than four inches and are continuous in all directions. Soil breaks down along planes into nodules 0.25 - 2 inch in size.

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-1
DATE 5-21-87
ELEV. 489.5 ft.
PAGE 1 OF 2

DRY AUGERED TO FT
WASH BORED 0 TO 70 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 70 FT ON 5-27-87

FIELD DATA			LABORATORY DATA									
SOIL SYMBOL	DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	MOISTURE CONTENT %	ATTERBERG LIMITS LIQUID LL	ATTERBERG LIMITS PLASTIC PL	ATTERBERG LIMITS PLASTICITY INDEX PI	GRADATION (% PASSING) NO. 40	GRADATION (% PASSING) NO. 100	GRADATION (% PASSING) NO. 200	GRADATION (% PASSING) 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			2.25										Very stiff dark gray CLAY (CH)
	5		2.00										Very stiff tan & dark gray CLAY (CH) w/iron nodules & gypsum crystals, slickensided
	10		4.5+										-hard & tan below 8'
	15		4.5+	26	78	24	54						
	20		4.5+										
	25		4.5+										slickensides
	30		4.5+										
	35		4.5+	25	81	24	57						
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-1
DATE 5-21-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+	20	81	27	54						Hard dark gray CLAYSTONE (CH) -below 40' w/scattered fossil fragments
	50		4.5+										
	55		4.5+	19	76	25	51						
	60		4.5+										
	65		4.5+										
	70		4.5+										Bottom @ 70'
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VA

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-7
DATE 5-22-87
ELEV. 496.7 ft.
PAGE 1 OF 2

DRY AUGERED TO FT
WASH BORED 0 TO 65 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 65 FT ON 5-22-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard tan CLAY (CH) w/scattered slickensides, calcareous nodules & gypsum crystals
	5		4.5+										
	10		4.5+	27	90	24	66						
	15		4.5+										fossil fragments
	20		4.5+										
	25		4.5+	25	86	26	60						
	30		4.5+										
	35		4.5+										Hard dark gray CLAYSTONE (CH)
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VA

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-2
DATE 5-23-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+	21	73	24	49						Hard dark gray CLAYSTONE (CH)
	50		4.5+										
	55		4.5+										
	60		4.5+										
	65		4.5+	17	73	24	49						Bottom @ 65'
	70												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-3
DATE 5-19-87
ELEV. 479.2 ft.
PAGE 1 OF 2

DRY AUGERED TO FT
WASH BORED 0 TO 80 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			2.25										Very stiff dark gray CLAY (CH) w/roots
	5		4.25	28	79	26	53						Hard tan CLAY (CH) scattered slickensides & fossil fragments
	10		4.00										
	15		4.5+										
	20		4.5+										
	25		4.5+										
	30		4.5+	30	97	31	66						
	35		4.5+										
	40		4.5+	25	92	30	62						Hard dark gray CLAYSTONE (CH)

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VA

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-3
DATE 5-20-87
ELEV. _____
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+	24	92	29	63						Hard dark gray CLAYSTONE (CH)
	50		4.5+										
	55		4.5+										
	60		4.5+										
	65		4.5+										
	70		4.5+										
	75		4.5+										
	80		4.5+										Bottom @ 80'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V.

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-4
DATE 5-19-87
ELEV. 489.7 ft.
PAGE 1 OF 2

DRY AUGERED TO FT
WASH BORED 0 TO 70 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 70 FT ON 5-19-87

SOIL SYMBOL	DEPTH (feet)	SAMPLES	FIELD DATA q_u, tsf (N, blows/ft)	LABORATORY DATA MOISTURE CONTENT %	ATTERBERG LIMITS LIQUID LL	ATTERBERG LIMITS PLASTIC PL	ATTERBERG LIMITS PLASTICITY INDEX PI	GRADATION (% PASSING) NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			2.50										Very stiff dark gray CLAY (CH) w/roots & iron nodules
			2.50										
	5		4.5+										Hard tan & light gray CLAY (CH) w/scattered slickensides, calcareous nodules & gypsum crystals
	10		4.5+	29	74	27	47						
	15		4.5+										
	20		4.5+	29	69	26	43						
	25		4.5+										
	30		4.5+										
	35		4.5+	28	80	27	53						
	40		4.5+	25	90	26	64						Hard dark gray CLAYSTONE (CH)

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-\

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-4
DATE 5-19-87
ELEV.
PAGE 2 OF 2

FIELD DATA			LABORATORY DATA									
SOIL SYMBOL	DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	MOISTURE CONTENT %	ATTERBERG LIMITS LIQUID LL	ATTERBERG LIMITS PLASTIC PL	ATTERBERG LIMITS PLASTICITY INDEX PI	GRADATION (% PASSING) NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec
	45											
	50											
	55											
	60											
	65											
	70											
	75											
	80											

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

DESCRIPTION OF STRATUM

Hard dark gray CLAYSTONE (CH)

fossil fragments

Bottom @ 70'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-5
DATE 5-18-87
ELEV. 496.0 ft.
PAGE 1 OF 2

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	3.5												Very stiff tan & light gray CLAY (CH) w/slickensides, ferrous & calcareous nodules, oxidation streaks & gypsum crystals -hard below 3'
	5		4.5+										
	10		4.5+										
	15		4.5+										
	20		4.5+										
	25		4.5+	27	86	30	56						
	30		4.5+										
	35		4.5+										
	40		4.5+										

DRY AUGERED TO FT
WASH BORED 0 TO 80 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-5
DATE 5-18-87
ELEV. _____
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+										Hard tan & light gray CLAY (CH)
	50		4.5+	25	92	28	64						Hard dark gray CLAYSTONE (CH) -below 47'
	55		4.5+	23	90	31	59						-fissures @ 58'
	60		4.5+										
	65		4.5+	18	78	27	51						
	70		4.5+										
	75		4.5+										
	80		4.5+										Bottom @ 80'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-6
DATE 5-19-87
ELEV. 491.4 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 40 FT
WASH BORED 40 TO 70 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 70 FT ON 5-20-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard dark gray CLAY (CH)
			3.75										
	5												Very stiff light gray & tan CLAY (CH) w/jointing
			4.5+	28	94	29	65						-hard w/calcareous nodules @ 8'
	10												
			4.5+										
	15												
			4.5+	28	89	28	61						
	20												
			4.5+										
	25												
			4.5+										
	30												
			4.5+	29	85	25	60						-w/gypsum crystals @ 33'
	35												
			4.5+										
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-6
DATE 5-19-87
ELEV. _____
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	DEPTH (feet)	SAMPLES	FIELD DATA q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
													Hard tan & light gray CLAY (CH)
	45		4.5+										Hard dark gray CLAYSTONE (CH)
	50		4.5+										-w/shell fragments @ 52'
	55		4.5+	19	77	26	51						
	60		4.5+										
	65		4.5+										
	70		4.5+										Bottom @ 70'
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-7
DATE 5-21-87
ELEV. 474.6 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 40 FT
WASH BORED 40 TO 70 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 70 FT ON 5-22-87

SOIL SYMBOL	DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	MOISTURE CONTENT %	ATTERBERG LIMITS LIQUID LL	ATTERBERG LIMITS PLASTIC PL	ATTERBERG LIMITS PLASTICITY INDEX PI	GRADATION (% PASSING) NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard dark gray CLAY (CH) w/calcareous nodules -stiff @ 3'
	5		1.5										
			4.5+										Hard light gray & tan CLAY (CH)
	10												
			4.5+										
	15												
													-w/gypsum crystals @ 18'-25'
			4.5+	27	80	24	56						
	20												
			4.5+										
	25												
			4.5+	26	87	27	60						
	30												
			4.5+										
	35												
			4.5+	26	88	26	62						
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-7
DATE 5-21/22-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+										Hard dark gray CLAYSTONE (CH) w/slickensides -w/clay layers to 45'
	50		4.5+										
	55		4.5+	23	93	25	68						-w/gypsum crystals @ 53'-55'
	60		4.5+										
	65		4.5+										
	70		4.5+										Bottom @ 70'
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-8
DATE 5-21-87
ELEV. 485.5 ft.
PAGE 1 OF 2

DRY AUGERED TO FT
WASH BORED 0 TO 75 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 75 FT ON 5-21-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard to stiff dark gray CLAY (CH)
	5		1.5	36	82	27	55						
			4.5+										Hard tan & light gray CLAY (CH) w/scattered slickensides & gypsum crystals
	10		4.5+										
	15		4.00										
	20		4.5+	27	83	27	56						
	25		4.5+										
	30		4.5+										
	35		4.5+										Hard dark gray CLAYSTONE (CH)
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-8
DATE 5-21-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+	29	89	30	59						Hard dark gray CLAYSTONE (CH)
	50		4.5+										
	55		4.5+										
	60		4.5+										
	65		4.5+	22	90	27	63						
	70		4.5+										
	75		4.5+										Bottom @ 75'
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-9
DATE 5-17-87
ELEV. 502.7 ft.
PAGE 1 OF 2

DRY AUGERED TO FT
WASH BORED 0 TO 70 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 70 FT ON 5-17-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.25										Hard brown CLAY (CH)
	5		4.5+										Hard tan & light gray CLAY (CH) w/slickensides & gypsum crystals
	10		4.5+										
	15		4.5+	27	82	26	56						
	20		4.5+										
	25		4.5+										
	30		4.5+										
	35		4.5+	26	91	25	66						
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-9
DATE 5-18-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+										Hard dark gray CLAYSTONE (CH) fissures
	50		4.5+	24	92	28	64						
	55		4.5+										
	60		4.5+										
	65		4.5+										
	70		4.5+	20	65	26	39						Bottom @ 70'
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-\

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-10
DATE 5-21-87
ELEV. 435.8 ft.
PAGE 1 OF 1

DRY AUGERED 0 TO 18 FT
WASH BORED 18 TO 40 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 40 FT ON 5-22-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	4.0												Hard to stiff tan CLAY (CH) w/interbedded gravel
	5		2.0										
	10		1.75	28	68	25	43						
	15		4.5+										Hard dark gray CLAYSTONE (CH) w/scattered fossil fragments
	20		4.5+	19	72	26	46						
	25		4.5+										
	30		4.5+	18	75	28	47						
	35		4.5+										
	40		4.5+										Bottom @ 40'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-11
DATE 5-20/21-87
ELEV. 510.1 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 40 FT
WASH BORED 40 TO 75 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 75 FT ON 5-21-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard dark gray CLAY (CH)
	5		4.5+	18	56	20	36						
	10		2.5										Very stiff to hard tan & light gray CLAY (CH) w/scattered slickensides
	15		4.25										
	20		4.0	17	50	19	31						
	25		4.5+										fossil fragments
	30		4.5+										
	35		4.5+	25	80	25	55						
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-11
DATE 5-20/21-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
													Hard tan & light gray CLAY (CH)
	45		4.5+										Hard dark gray CLAYSTONE (CH)
	50		4.5+	19	74	24	50						
	55		4.5+										w/scattered fossil fragments
	60		4.5+										
	65		4.5+										
	70		4.5+										
	75		4.5+										Bottom @ 75'
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-12
DATE 5-22-87
ELEV. 458.8 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 40 FT
WASH BORED 40 TO 50 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 50 FT ON 5-22-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.25										Hard tan & light gray CLAY (CH) stiff w/gypsum
			1.5										
	5												
			4.5+										
	10												
			4.5+	24	72	27	45						
	15												
			4.5+										
	20												Hard dark gray CLAYSTONE (CH)
			4.5+										
	25												
			4.5+	21	73	26	47						
	30												
			4.5+										
	35												
			4.5+	20	64	24	40						
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V...

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-12
DATE 5-22-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+										Hard dark gray CLAYSTONE (CH) w/fossil fragments
	50		4.5+										Bottom @ 50'
	55												
	60												
	65												
	70												
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VAL

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-13
DATE 5-20-87
ELEV. 433.4 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 30 FT
WASH BORED 30 TO 50 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 50 FT ON 5-20-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard gray CLAY (CH)
	5		4.5+	24	86	25	61						
	10		4.5+										
			4.5+										Hard tan CLAY (CH) w/gypsum
	15												
	20		2.5	28	73	24	49						
	25		4.5+	27	74	27	47						
			4.5+										Hard dark gray CLAYSTONE (CH)
	30												
	35		4.5+										
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VAL

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-13
DATE 5-20-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+	18	78	24	54						Hard dark gray CLAYSTONE (CH)
	50		4.5+										Bottom @ 50'
	55												
	60												
	65												
	70												
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

CB - 14 NOT DRILLED

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-15
DATE 5-27-87
ELEV. 443.0 ft.
PAGE 1 OF 1

DRY AUGERED 0 TO 40 FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 40 FT ON 5-27-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard dark gray CLAY (CH)
	5		4.5+										Hard tan & light gray CLAY (CH) w/slickensides
			4.5+	31	69	29	40						
	10												Hard dark gray CLAYSTONE (CH) w/scattered fossil fragments
	15		4.5+										
	20		4.5+	21	70	28	42						
	25		4.5+										
	30		4.5+										
	35		4.5+	19	65	27	38						
	40		4.5+										Bottom @ 40'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-16
DATE 5-20-87
ELEV. 440.4 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 20 FT
WASH BORED 20 TO 50 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 50 FT ON 5-21-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.0										Hard dark gray CLAY (CH) w/roots & calcareous nodules
	5		2.0	24	69	21	48						Stiff to hard tan & light gray CLAY (CH) w/scattered slickensides & gypsum
	10		3.25										
	15		4.5+	27	71	28	43						
	20		4.5+										Hard dark gray CLAYSTONE (CH)
	25		4.5+	22	65	26	39						
	30		4.5+	22	63	28	35						
	35		4.5+										
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-16
DATE 5-20-87
ELEV.
PAGE 2 OF 2

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+										Hard dark gray CLAYSTONE (CH)
	50		4.5+										Bottom @ 50'
	55												
	60												

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-17
DATE 5-18-87
ELEV. 493.6 ft.
PAGE 1 OF 3

DRY AUGERED 0 TO 5 FT
WASH BORED 5 TO 90 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 90 FT ON 5-19-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard dark gray CLAY (CH)
	5		2.5										Very stiff to hard tan & light gray CLAY (CH) w/gypsum
	10		4.5+										
	15		4.5+										
	20		4.5+	23	73	28	45						
	25		4.5+										
	30		4.5+										
	35		4.5+	23	79	29	50						
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-1

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-17
DATE 5-18-87
ELEV.
PAGE 2 OF 3

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
													Hard tan & light gray CLAY (CH)
	45		4.5+										Hard dark gray CLAYSTONE (CH) w/scattered fossil fragments
	50		4.5+	20	85	27	58						
	55		4.5+										
	60		4.5+										
	65		4.5+	18	87	27	60						
	70		4.5+										
	75		4.5+										
	80		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-17
DATE 5-18-87
ELEV. _____
PAGE 3 OF 3

FIELD DATA			LABORATORY DATA									
SOIL SYMBOL	DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	MOISTURE CONTENT %	ATTERBERG LIMITS LIQUID LL	ATTERBERG LIMITS PLASTIC PL	ATTERBERG LIMITS PLASTICITY INDEX PI	GRADATION (% PASSING) NO. 40	GRADATION (% PASSING) NO. 100	GRADATION (% PASSING) NO. 200	GRADATION (% PASSING) 0.005 mm	PERMEABILITY 10^{-7} cm/sec
	85											
	90											

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

DESCRIPTION OF STRATUM

Hard dark gray CLAYSTONE (CH)

Bottom @ 90'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VA

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-18
DATE 5-12-87
ELEV. 414.6 ft.
PAGE 1 OF 1

DRY AUGERED 0 TO 25 FT
WASH BORED 25 TO 40 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 40 FT ON 5-13-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	0		3.75										Very stiff light gray & tan CLAY (CH) -w/minor gravel to 5' -stiff @ 3'-
			1.75	28	81	26	55						-w/slickensides @ 3' to 23'
	5												
			2.00										-very stiff @ 8' -w/calcareous nodules @ 8'-15'
	10												
			3.25	25	73	26	47						-w/gypsum crystals @ 13'-25'
	15												
			4.5+										-hard @ 18'
	20												
			4.5+	18	71	28	43						Hard gray CLAYSTONE (CH) -fissile @ 23' to bottom
	25												
			4.5+										
	30												
			4.5+	18	67	27	40						
	35												
			4.5+										Bottom @ 40'
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-19
DATE 5-22/23-87
ELEV. 414.0 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 40 FT
WASH BORED 40 TO 60 FT
FREE WATER ENCOUNTERED AT 22 FT
WATER AT 7' FT AFTER 24 hours

HOLE CAVED IN AT 18.7 FT AFTER 5 min.
HOLE GROUTED 0 FT TO 60 FT ON 5-23-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard tan CLAY (CH) stiff w/scattered slickensides
	5		1.25										
	10		1.50	26	76	24	52						
	15		1.50										
	20		1.75	27	71	23	48						-wet @ 22'
	25		1.5										
	30		3.75										
	35		4.5+	31	65	28	37						Hard dark gray CLAYSTONE (CH)
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-1

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-19
DATE 5-22/23-87
ELEV.
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+	20	83	28	55						Hard dark gray CLAYSTONE (CH)
	50		4.5+										
	55		4.5+										
	60		4.5+										
	65												Bottom @ 60'
	70												
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-20
DATE 5-15/16-87
ELEV. 506.1 ft.
PAGE 1 OF 3

DRY AUGERED 0 TO 5 FT
WASH BORED 5 TO 100 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 100 FT ON 5-16-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard dark gray CLAY (CH)
	5		3.0										Very stiff tan & light gray CLAY (CH) -w/calcareous nodules & slightly silty @ 4' -silty @ 6'-8'
	10		4.0										w/calcareous nodules
	15		N=30	19									-dense @ 13' -w/calcareous gravel @ 13'-16'
	20		4.5+										-w/slickensides & calcareous nodules @ 18'
	25		4.5+										
	30		4.6	25	74	27	47						
	35		4.5+										w/gypsum crystals
	40		4.5+										Hard dark gray CLAYSTONE (CH)

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-20
DATE 5-15/16-87
ELEV.
PAGE 2 OF 3

FIELD DATA			LABORATORY DATA									
SOIL SYMBOL	DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	MOISTURE CONTENT %	ATTERBERG LIMITS LIQUID LL	ATTERBERG LIMITS PLASTIC PL	ATTERBERG LIMITS PLASTICITY INDEX PI	GRADATION (% PASSING) NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec
	45		4.5+	22	78	25	53					
	50		4.5+									
	55		4.5+									
	60		4.5+									
	65		4.5+									
	70		4.5+	18	79	27	52					
	75		4.5+									
	80		4.5+									

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

DESCRIPTION OF STRATUM

Hard dark gray CLAYSTONE (CH)

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-20
DATE 5-15/16-87
ELEV.
PAGE 3 OF 3

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	85		4.5+										Hard dark gray CLAYSTONE (CH)
	90		4.5+										-w/fossil fragments @ 83'-85'
	95		4.5+										
	100		4.5+										Bottom @ 100'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-21
DATE 5-16-87
ELEV. 504.2 ft.
PAGE 1 OF 3

DRY AUGERED TO FT
WASH BORED 0 TO 100 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 100 FT ON 5-17-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			3.00										Very stiff dark gray CLAY (CH) w/roots & gravel
	5		1.25	28	65	25	40						-stiff tan & dark gray @ 3' w/ferrous & calcareous nodules
			2.75										very stiff tan w/clay, sand & gravel partings
	10		4.5+										Hard tan & light gray CLAY (CH) w/slickensides & calcareous nodules
	15		4.5+										-w/claystone seams @ 13'-15'
	20		4.5+										
	25		4.5+	25	75	27	48						
	30		4.5+										w/gypsum crystals
	35		4.5+										
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-21
DATE 5-16-87
ELEV.
PAGE 2 OF 3

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45												Hard dark gray CLAYSTONE (CH) w/fracture & is fissile
	50												
	55			20	69	28	41						
	60												
	65												
	70												
	75												
	80												

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-21
DATE 5-16-87
ELEV.
PAGE 3 OF 3

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	85												Hard dark gray CLAYSTONE (CH)
	90												
	95			19	67	27	40						
	100												Bottom @ 100'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-22
DATE 5-12/13/14-87
ELEV. 414.3 ft.
PAGE 1 OF 1

DRY AUGERED 0 TO 12 FT
WASH BORED 12 TO 35 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 35 FT ON 5-13-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard gray CLAY (CH) w/calcareous nodules & sand pockets
	5		3.0+										Very stiff gray & tan CLAY (CH) -w/slickensides @ 2.5'
	10		4.5+	26	77	29	48						
	15		4.5+	17	70	27	43						Hard gray CLAYSTONE (CH)
			4.5+										
	20		4.5+										
	25		4.5+										
	30		4.5+	15	91	28	63						
	35		4.5+										
													Bottom @ 35'
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-23
DATE 5-21-87
ELEV. 447.6 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 15 FT
WASH BORED 15 TO 45 FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 45 FT ON 5-22-87

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
													"FILL"
	5			20	72	22	50						Hard tan CLAY (CH) w/ferrous & calcareous nodules, slickensides & gypsum crystals
	10			24	74	27	47						
	15			20	66	27	39						Hard dark gray CLAYSTONE (CH)
	20			23	62	28	34						
	25												
	30												
	35												
	40												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-23
DATE 5-21-87
ELEV. _____
PAGE 2 OF 2

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
													Hard dark gray CLAYSTONE (CH)
	45												Bottom @ 45'

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT FT AFTER
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V...

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-24
DATE 5-14-87
ELEV. 508.7 ft.
PAGE 1 OF 3

DRY AUGERED TO FT
WASH BORED 0 TO 100 FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____

HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 100 FT ON 5-15

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	5												Hard dark gray CLAY (CH) w/gypsum crystals, gravel, fossil fragments very stiff -w/ferrous & calcareous nodules @ 3'
	10												Hard tan & light gray CLAY (CH)
	15												-w/some gravel @ 13'
	20		4.5+										
	25		4.5+	22	73	25	48						
	30		4.5+										
	35		4.5+										w/gypsum crystals
	40		4.5+										w/fossil fragments

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-24
DATE 5-14-87
ELEV. _____
PAGE 2 OF 3

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____

HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
													Hard tan & light gray CLAY (CH)
													Hard dark gray CLAYSTONE (CH)
	45		4.5+										
	50		4.5+	20	67	26	41						
	55		4.5+										
	60		4.5+										
	65		4.5+										
	70		4.5+										
	75		4.5+	19	75	26	49						
	80		4.5+										-w/fractures @ 78'-80'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-24
DATE 5-14-87
ELEV. _____
PAGE 3 OF 3

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	85		4.5+										Hard dark gray CLAYSTONE (CH)
	90		4.5+										
	95		4.5+										
	100		4.5+										Bottom @ 100'

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VAL

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-25
DATE 5-13-87
ELEV. 441.0 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 23 FT
WASH BORED 23 TO 50 FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____
HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 50 FT ON 5-14

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	0		4.5+										Hard tan & gray CLAY (CH) very stiff -w/slickensides, gypsum nodules & oxidation streaks @ 3'
	5		3.00										-hard @ 8'
	10		4.5+	23	74	28	46						
	15		4.5+										
	20		4.5+	21	70	26	44						
	25		4.5+										Hard dark gray CLAYSTONE (CH)
	30		4.5+	16	67	24	43						
	35		4.5+										w/occasional fossils
	40		4.5+	20	62	26	36						

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-1

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-25
DATE 5-13-87
ELEV. _____
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+				-						Hard dark gray CLAYSTONE (CH)
	50		4.5+										Bottom @ 50'
	55												
	60												
	65												
	70												
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-26
DATE 5-12-87
ELEV. 444.5 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 18 FT
WASH BORED 18 TO 50 FT
FREE WATER ENCOUNTERED AT 13 FT
WATER AT 7.8 FT AFTER 10 min.
HOLE CAVED IN AT FT AFTER
HOLE GROUTED 0 FT TO 50 FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
			4.5+										Hard tan CLAY (CH) -w/roots to 2' & occasional gravel
	5		4.00	26	70	26	44						
													-very stiff tan & dark gray @ 8'
	10		2.25										
	15		1.00	28	73	26	47						-w/calcareous nodules @ 18'
	20		1.00										
													-w/slickensides @ 23'
	25		2.50	25	77	22	55						
	30		4.5+										
													Hard dark gray CLAYSTONE (CH)
	35		4.5+	21	71	27	44						
	40		4.5+										

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V.

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-26
DATE 5-12-87
ELEV. _____
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	GRADATION (% PASSING): NO. 100	GRADATION (% PASSING): NO. 200	GRADATION (% PASSING): 0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+				-						Hard dark gray CLAYSTONE (CH)
	50		4.5+										w/fractures on bedding planes
													Bottom @ 50'
	55												
	60												
	65												
	70												
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-VALUE

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-27
DATE 5-13-87
ELEV. 418.1 ft.
PAGE 1 OF 2

DRY AUGERED 0 TO 31 FT
WASH BORED 31 TO 50 FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____

HOLE CAVED IN AT FT AFTER
HOLE GROUTED .0 FT TO 50 FT ON 5-14

SOIL SYMBOL	FIELD DATA: DEPTH (feet)	FIELD DATA: SAMPLES	FIELD DATA: q_u tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	ATTERBERG LIMITS: PLASTIC PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	5		4.50				-						Hard tan & dark gray CLAY (CH) -w/some gravel to 5' -very stiff w/slickensides @ 3'-31'
			2.50										
	10		3.25										-w/fossil fragments & calcareous nodules @ 8'
	15		4.5+										
	20		1.50	27	75	21	54						-stiff w/gypsum crystals & gravel @ 18'
	25		2.75										-very stiff @ 23'
	30		3.75	26	78	23	55						
	35		4.5+										Hard dark gray CLAYSTONE (CH)
	40		4.5+	20	59	23	36						

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING

PROJECT NO.: 87-042
PROJECT: Skyline Landfill
Trinity Valley Reclamation, Inc.
CLIENT: Waste Management of North America, Inc.
Dallas, Texas

BORING NO. CB-27
DATE 5-13-87
ELEV. _____
PAGE 2 OF 2

DRY AUGERED TO FT
WASH BORED TO FT
FREE WATER ENCOUNTERED AT FT
WATER AT _____ FT AFTER _____
HOLE CAVED IN AT FT AFTER
HOLE GROUTED FT TO FT ON

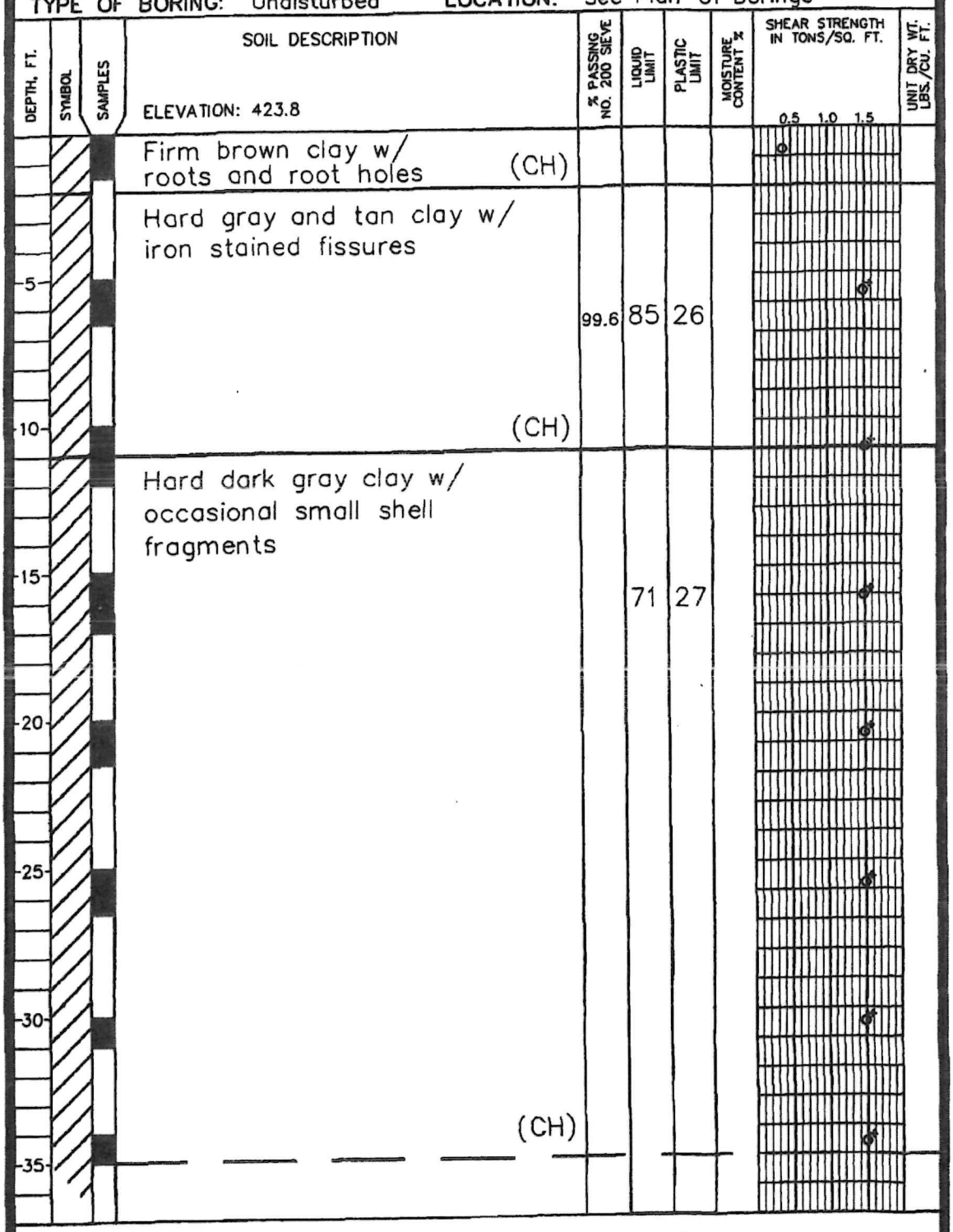
SOIL SYMBOL	FIELD DATA: DEPTH (feet)	SAMPLES	q_u, tsf (N, blows/ft)	LABORATORY DATA: MOISTURE CONTENT %	ATTERBERG LIMITS: LIQUID LL	PLASTIC PL	PLASTICITY INDEX PI	GRADATION (% PASSING): NO. 40	NO. 100	NO. 200	0.005 mm	PERMEABILITY 10^{-7} cm/sec	DESCRIPTION OF STRATUM
	45		4.5+				-						Hard dark gray CLAYSTONE (CH) -fissile @ 43'
	50		4.5+	16	60	24	36						w/occasional fossil fragments
													Bottom @ 50'
	55												
	60												
	65												
	70												
	75												
	80												

q_u = POCKET PENETROMETER UNCONFINED COMPRESSIVE STRENGTH
N = STANDARD PENETRATION TEST N-V

(V) = VERTICAL AXIS
(H) = HORIZONTAL AXIS

LOG OF BORING NO. CB-28
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings



COMPLETION DEPTH: 35.0' DEPTH TO WATER: 412.7

DATE: 4-17-91 DATE: 5-13-91

LOG OF BORING NO. CB-29
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

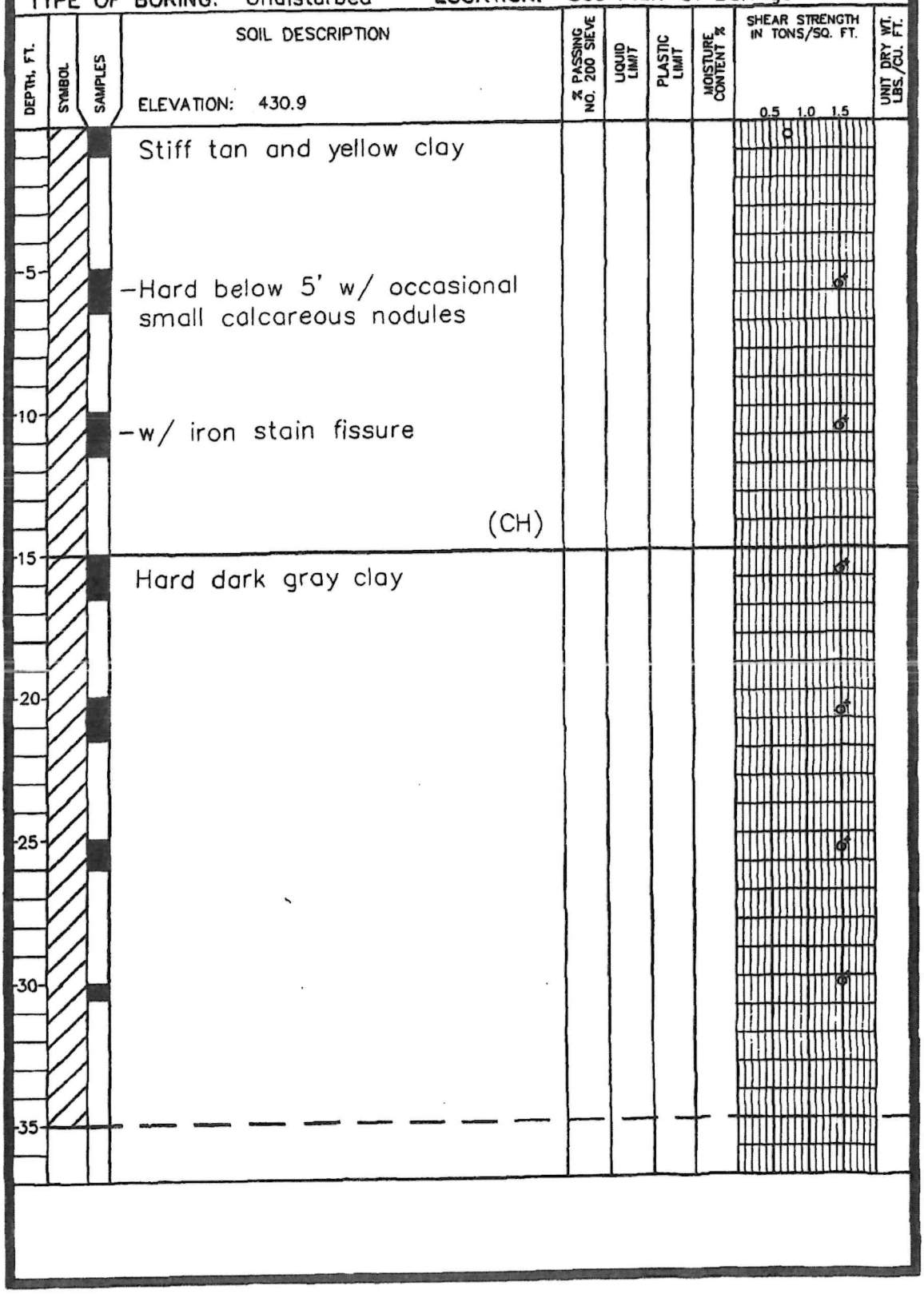
DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 405.5	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Firm brown clay w/ roots 20% Recovery (CH)						
-5-			Firm tan clay w/ occasional brown clay laminations and occasional small calcareous nodules 100% Recovery		70	22			
-10-			100% Recovery						
-15-			100% Recovery (CH)						
-20-			Stiff tan and gray clay w/ occasional small calcareous nodules 40% Recovery						
-25-			30% Recovery						
-30-			-w/ occasional tight iron stained fissures 100% Recovery (CH)						
-35-									

COMPLETION DEPTH: 35.0' DEPTH TO WATER: COMPLETED AS PIEZOMETER

DATE: 4-17-91 DATE: 4-17-91

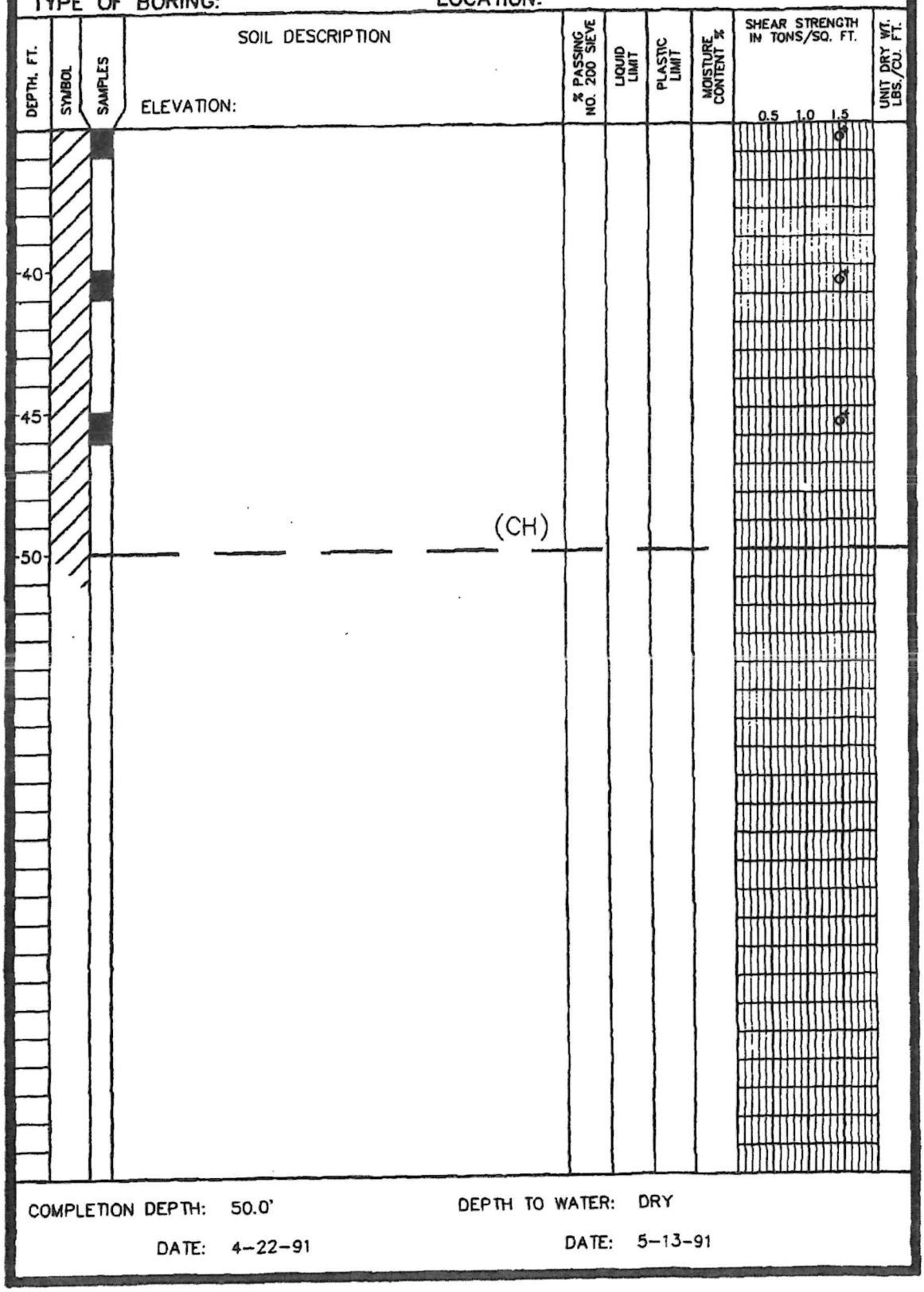
LOG OF BORING NO. CB-30
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings



LOG OF BORING NO. CB-30
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 50.0' DEPTH TO WATER: DRY

DATE: 4-22-91 DATE: 5-13-91

LOG OF BORING NO. CB-31
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: *Undisturbed* LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 415.1	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
0			Stiff brown clay silty w/ organic (CH)						
-5			Stiff tan clay						
-10			-Hard below 10.0' w/ occasional iron stains						
-15			Hard dark gray clay						
-20									
-25									
-30									
-35			(CH)						

COMPLETION DEPTH: 35.0 DEPTH TO WATER: COMPLETED AS PIEZOMETER

DATE: 4-22-91 DATE: 4-22-91

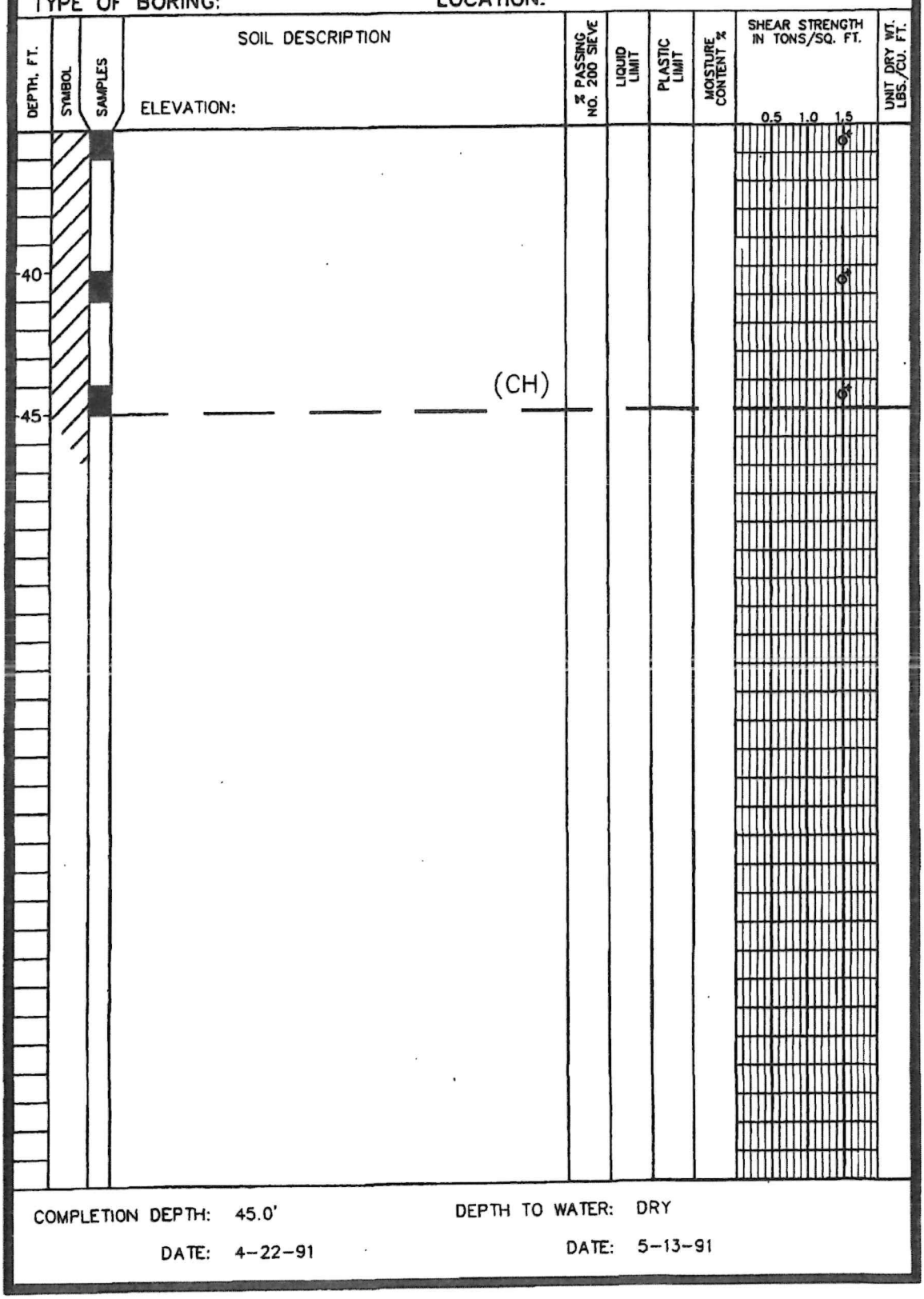
LOG OF BORING NO. CB-32
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 438.3	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay (CH)						
-5			Stiff tan clay		76	24	30		
-10			(CH) Very stiff dark gray clay w/ iron stain at 11.0' (CH)						
-15			Hard dark gray clay						
-20									
-25									
-30									
-35									

LOG OF BORING NO. CB-32
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 45.0' DEPTH TO WATER: DRY

DATE: 4-22-91 DATE: 5-13-91

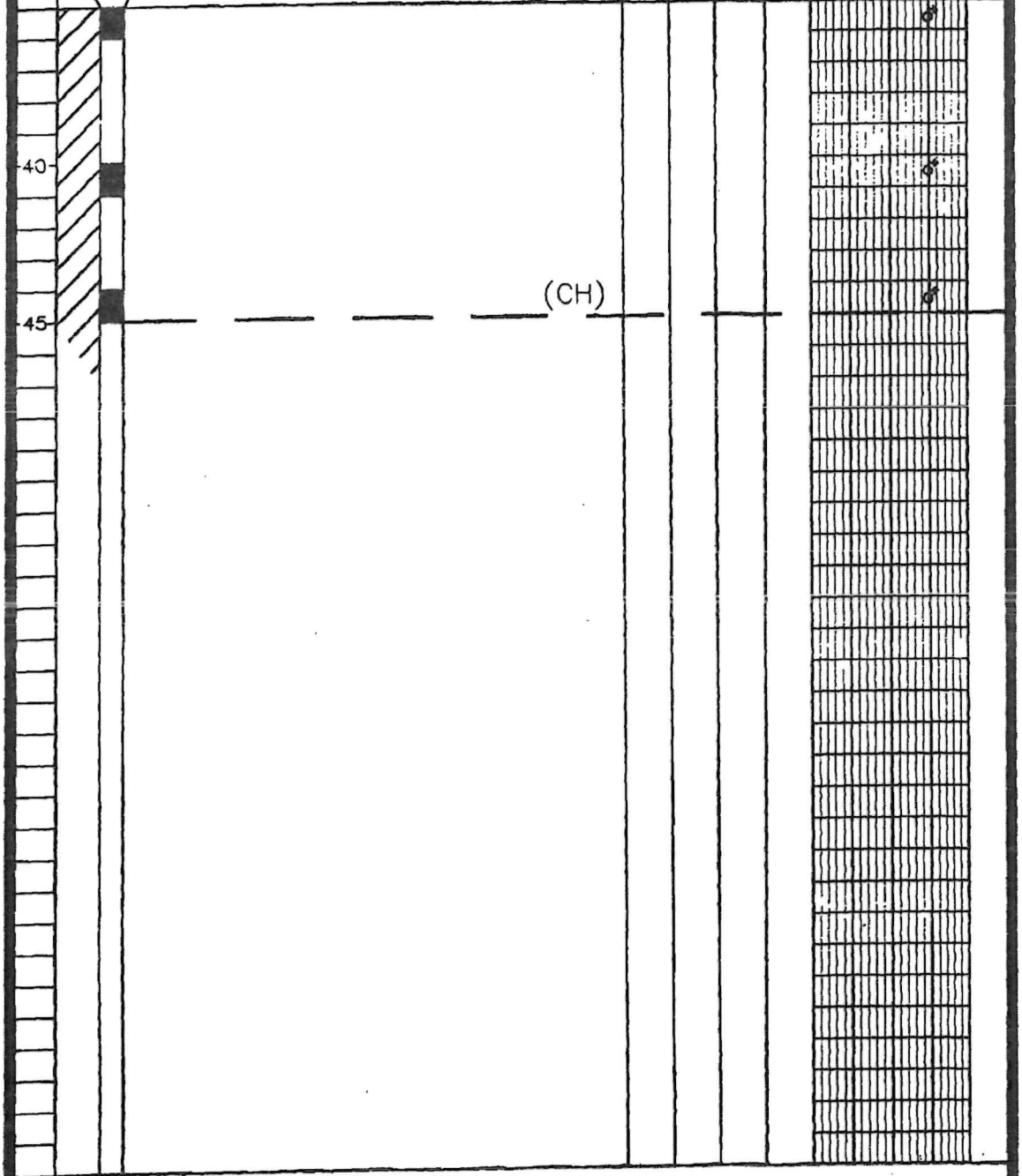
LOG OF BORING NO. CB-33
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 432.0	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay (CH)						
5			Very stiff tan and gray clay w/ selenite filled fissure						
10			–w/ vertical iron stained fissure (CH)						
15			Hard dark gray clay		65	23			
20									
25									
30									
35									

LOG OF BORING NO. CB-33
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 45.0' DEPTH TO WATER: DRY

DATE: 4-19-91 DATE: 5-13-91

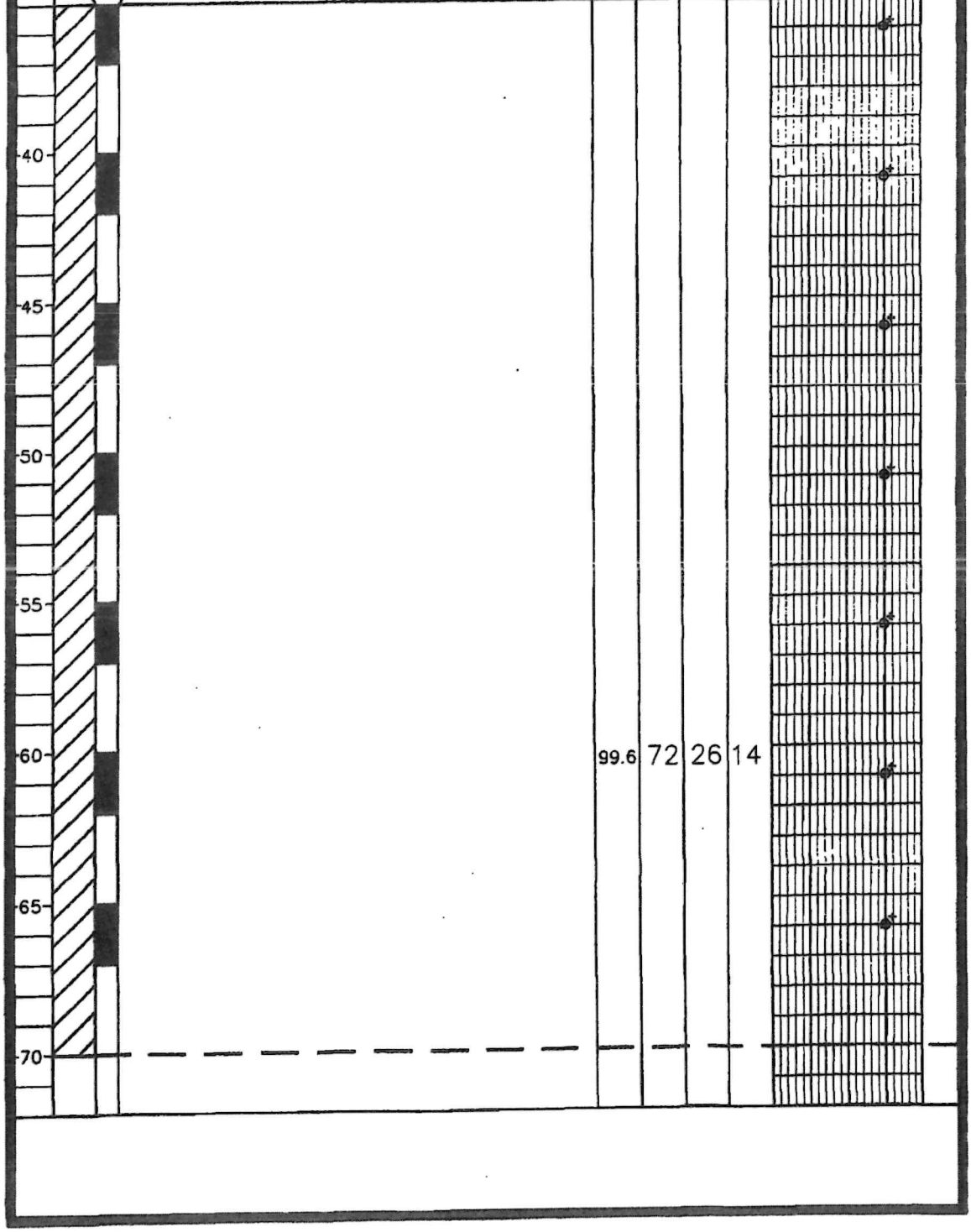
LOG OF BORING NO. CB-34
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 473.3	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Very stiff light brown clay (CH)						
5			Very stiff tan and gray clay w/ iron stained fissures (CH)						
10			Hard gray clay, w/ iron stained fissures (CH)		74	27			
15			Hard dark gray clay						
20									
25									
30									
35									

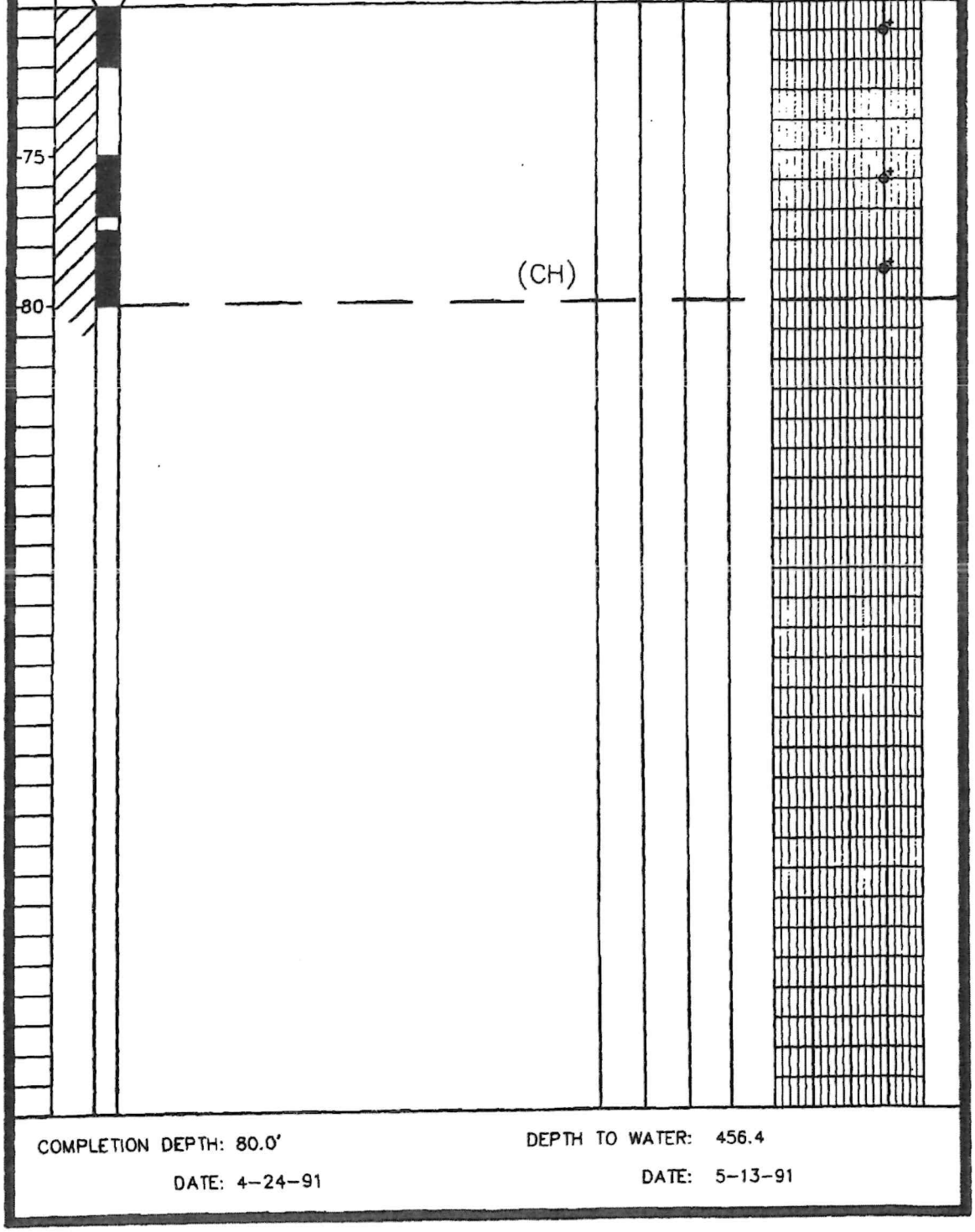
LOG OF BORING NO. CB-34
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



LOG OF BORING NO. CB-34
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 80.0'

DATE: 4-24-91

DEPTH TO WATER: 456.4

DATE: 5-13-91

LOG OF BORING NO. CB-35
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 434.9	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
5			Hard tan clay w/ calcareous nodules		72	29	20		
10			—w/ gray clay and iron stained fissures		74	27	21		
15			Hard dark gray clay w/ iron stained fissures and weathered calcareous nodules (CH)						
20			Hard dark gray clay						
25									
30									
35			(CH)						

COMPLETION DEPTH: 35.0' DEPTH TO WATER: DRY

DATE: 4-22-91 DATE: 5-13-91

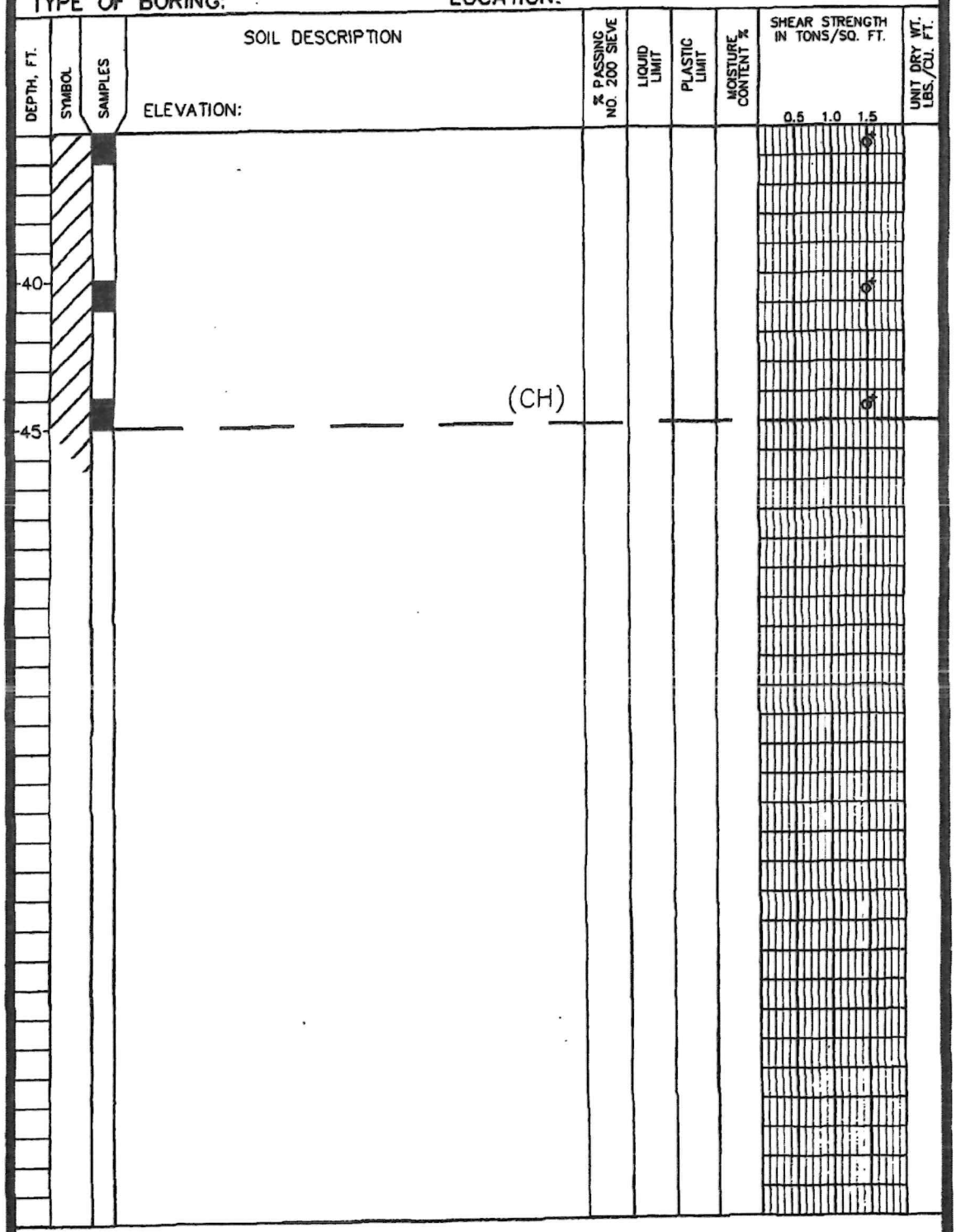
LOG OF BORING NO. CB-36
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 437.7	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay (CH)						
5			Stiff tan and gray clay w/ calcareous nodules		71	23	30		
10			–w/ iron stained and selenite filled fissure at 10.0' (CH)						
15			Hard dark gray clay		63	22	19		
20									
25									
30									
35									

LOG OF BORING NO. CB-36
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 45.0' DEPTH TO WATER: 419.5

DATE: 4-23-91 DATE: 5-13-91

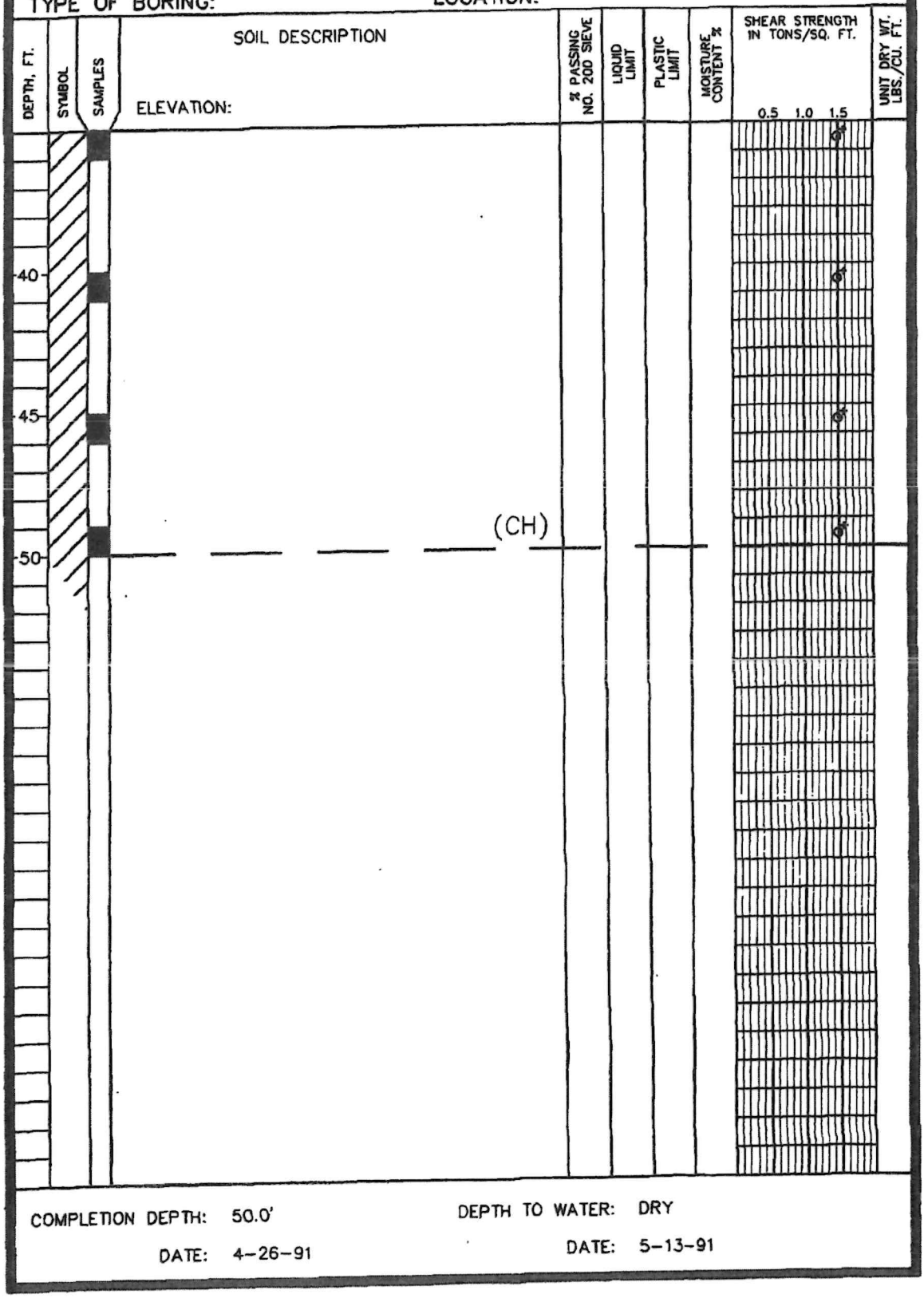
LOG OF BORING NO. CB-37
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 442.8	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
-5-			Very stiff tan and gray clay w/ occasional fine sand inclusions (CH)						
-10-			Hard dark gray clay		64	26			
-30-			-w/ thin claystone seam						
-35-									

LOG OF BORING NO. CB-37
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 50.0' DEPTH TO WATER: DRY

DATE: 4-26-91 DATE: 5-13-91

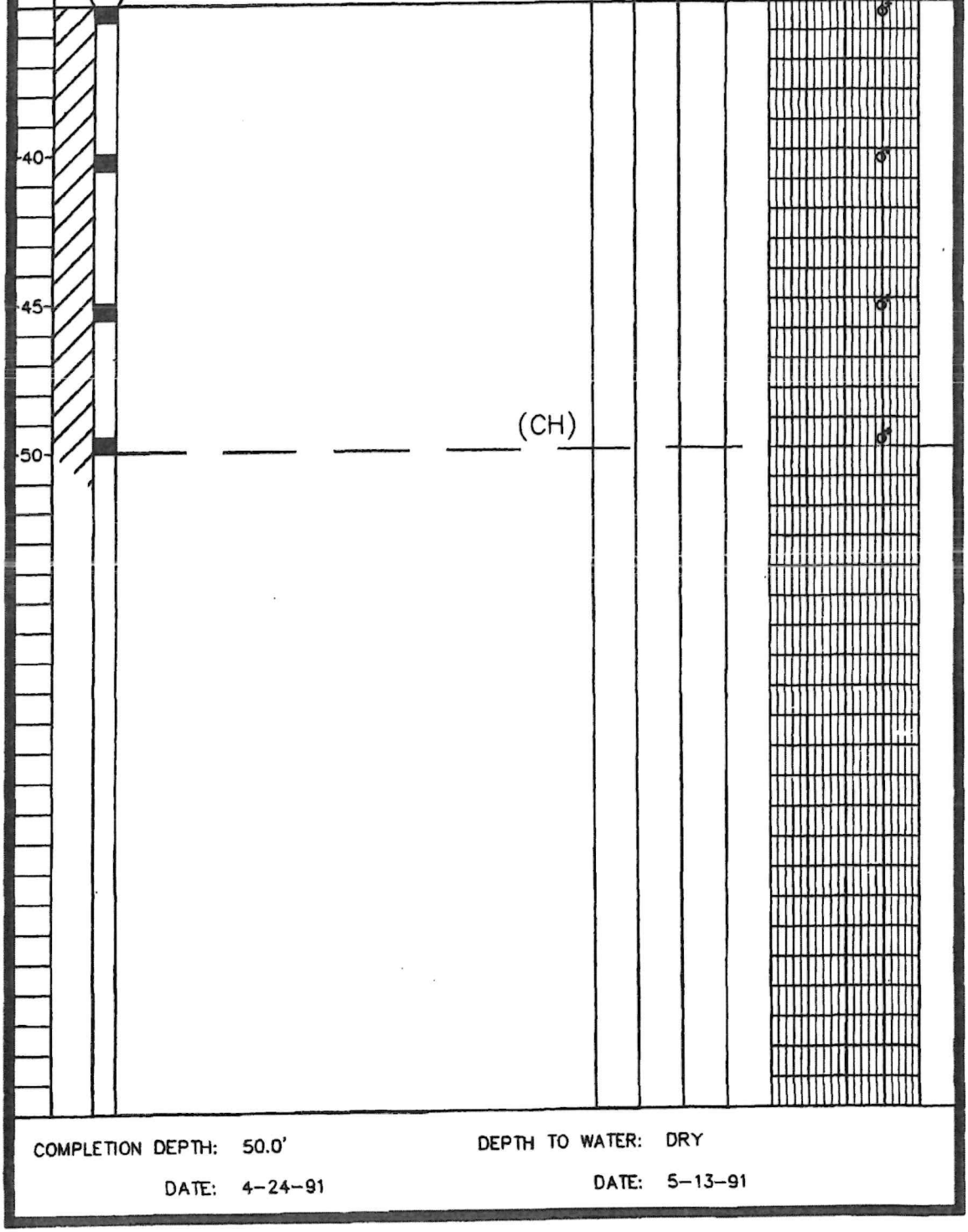
LOG OF BORING NO. CB-38
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 448.5	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
-5-			Very stiff tan clay, w/ vertical iron stained and sand filled fissure (CH)						
-10-			Hard dark gray clay						
-15-					61	24			
-20-									
-25-									
-30-									
-35-									

LOG OF BORING NO. CB-38
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 50.0' DEPTH TO WATER: DRY

DATE: 4-24-91 DATE: 5-13-91

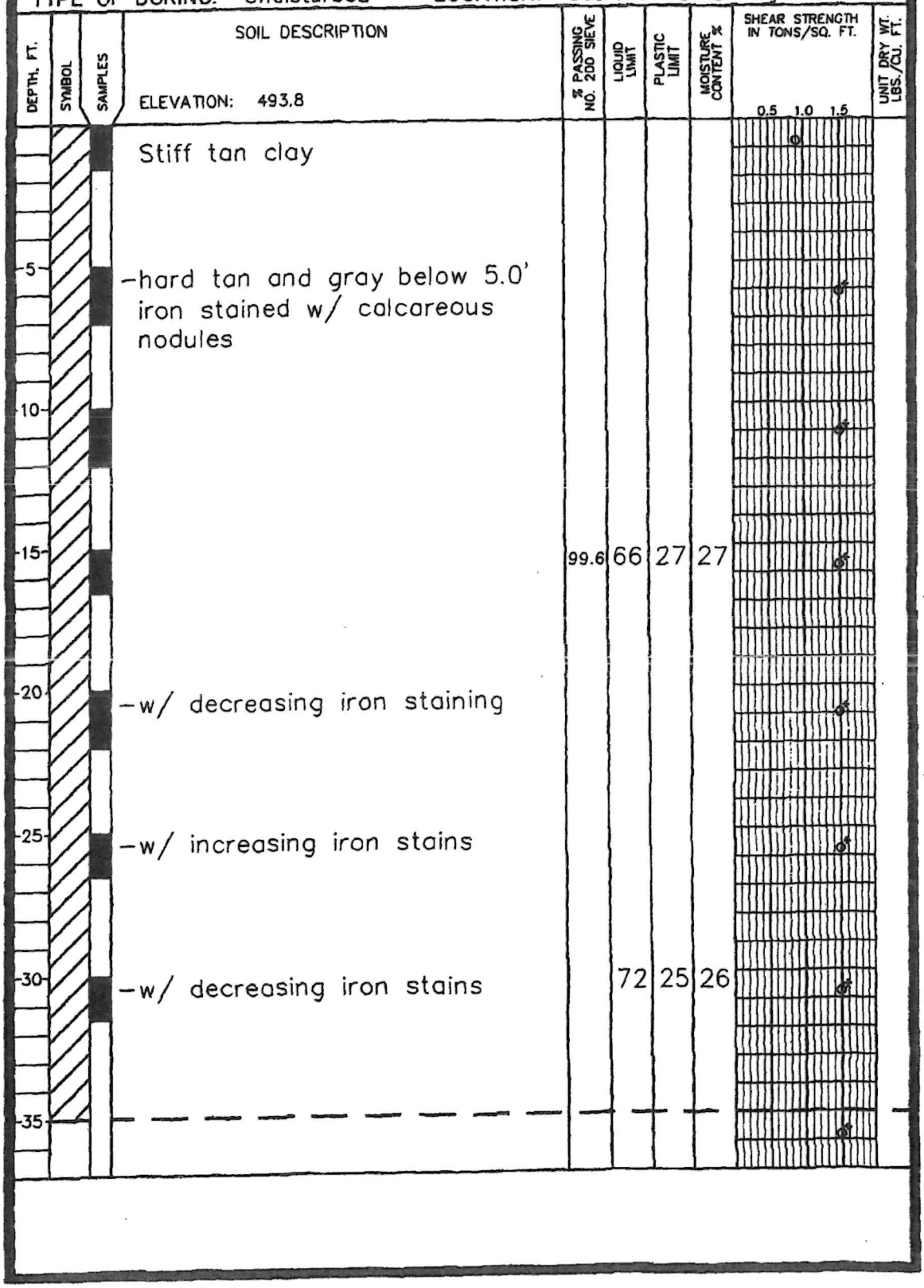
LOG OF BORING NO. CB-40
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 437.1	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
0			Firm brown clay w/ organic material (CH)						
5			Very stiff tan and gray clay						
10			–hard below 9.0' (CH)		74	26			
15			Hard dark gray clay		71	23			
20									
25									
30									
35									

LOG OF BORING NO. CB-39
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings



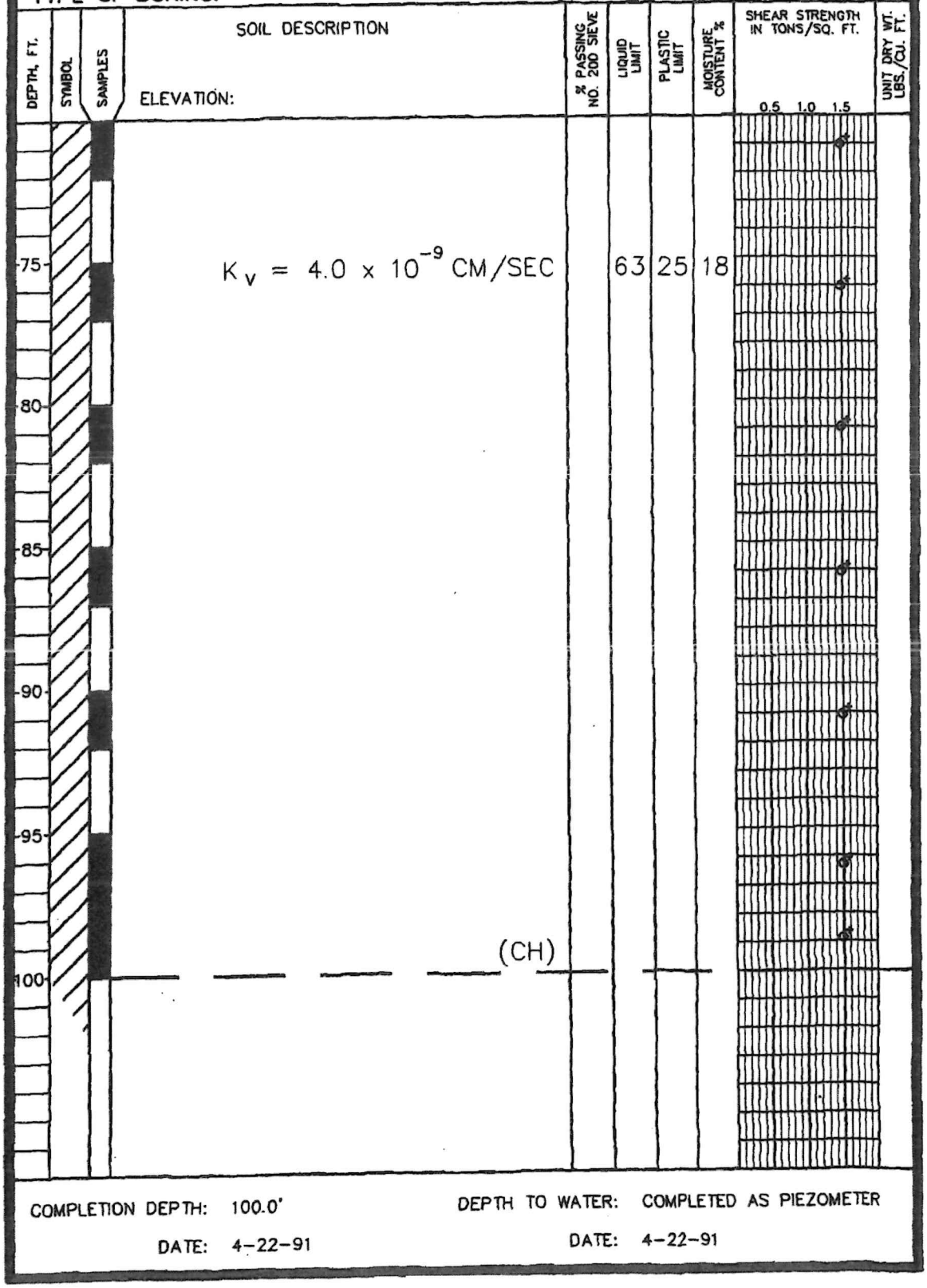
LOG OF BORING NO. CB-39
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
40			-w/ increasing iron stains and vertical selenite filled fissure to 41.0'						
45			(CH)						
			Hard dark gray clay						
50									
55									
60									
65									
70									

LOG OF BORING NO. CB-39
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

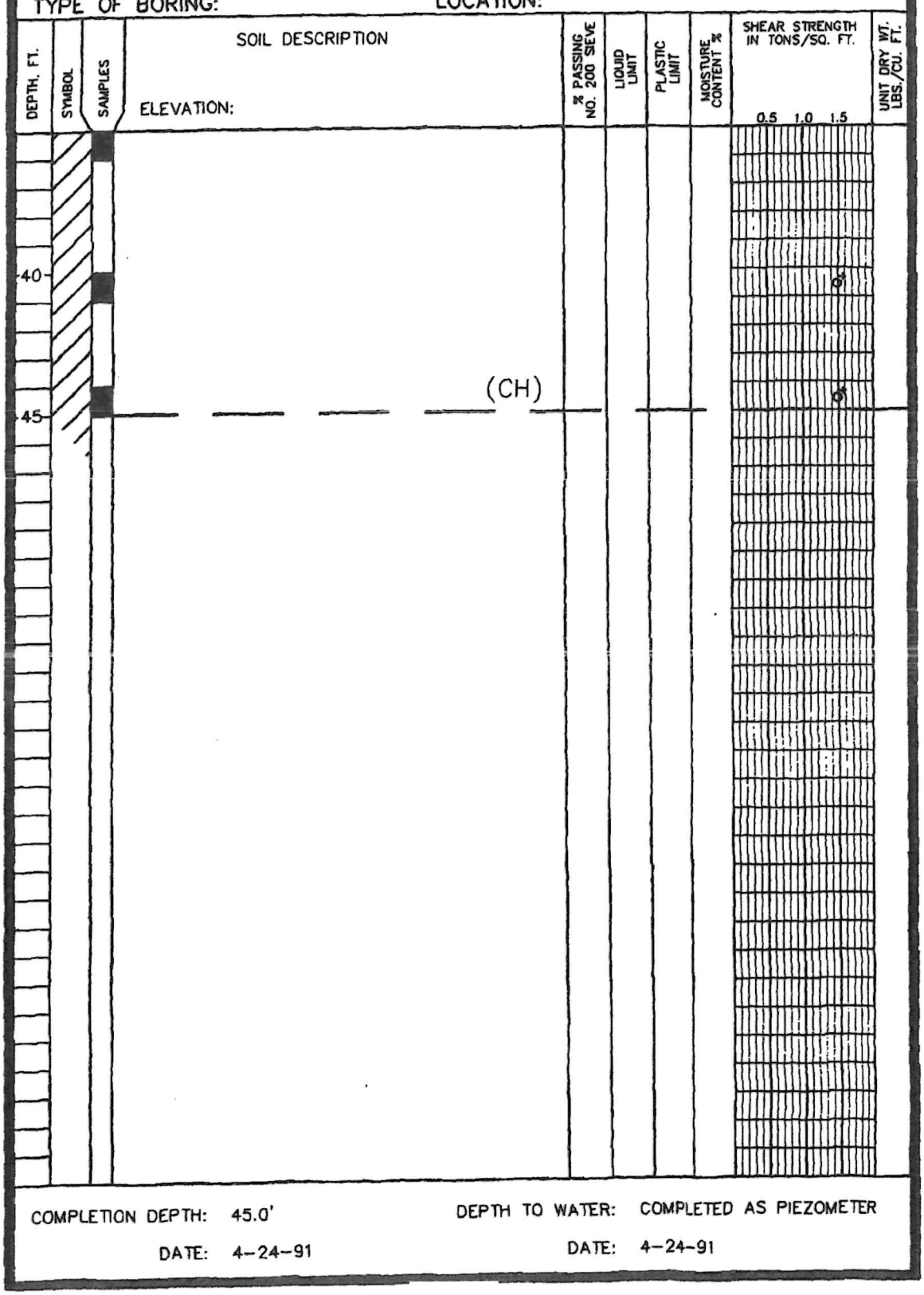


COMPLETION DEPTH: 100.0'
DATE: 4-22-91

DEPTH TO WATER: COMPLETED AS PIEZOMETER
DATE: 4-22-91

LOG OF BORING NO. CB-40
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 45.0'

DATE: 4-24-91

DEPTH TO WATER: COMPLETED AS PIEZOMETER

DATE: 4-24-91

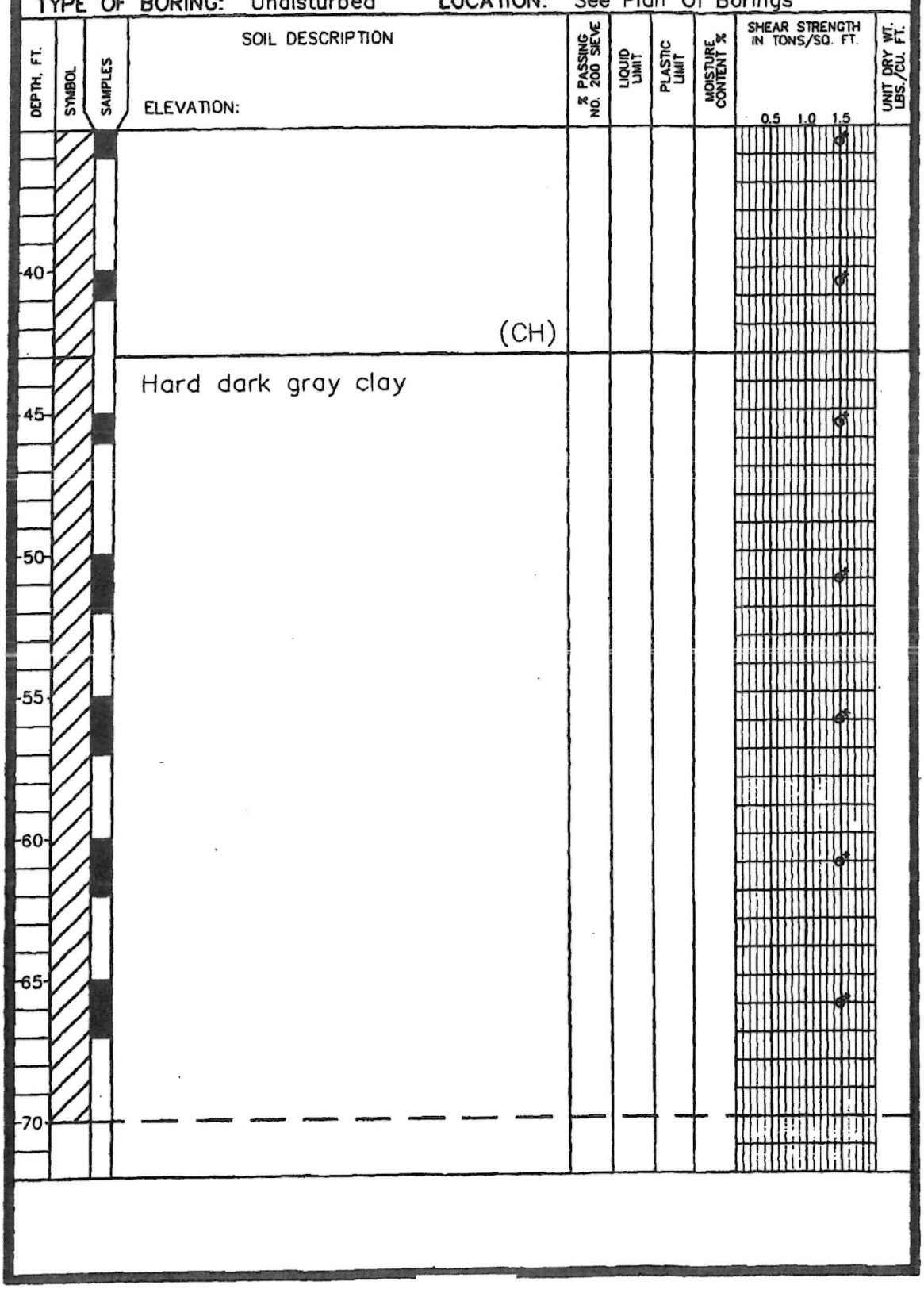
LOG OF BORING NO. CB-41
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 485.4	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
			Very stiff tan and gray clay w/ iron stains						
-5-									
-10-									
-15-			-w/ iron stains and selenite layers		79	25	23		102
-20-			-hard below 20.0'						
-25-									
-30-			(CH)						
-35-			Hard gray clay w/ iron stains						

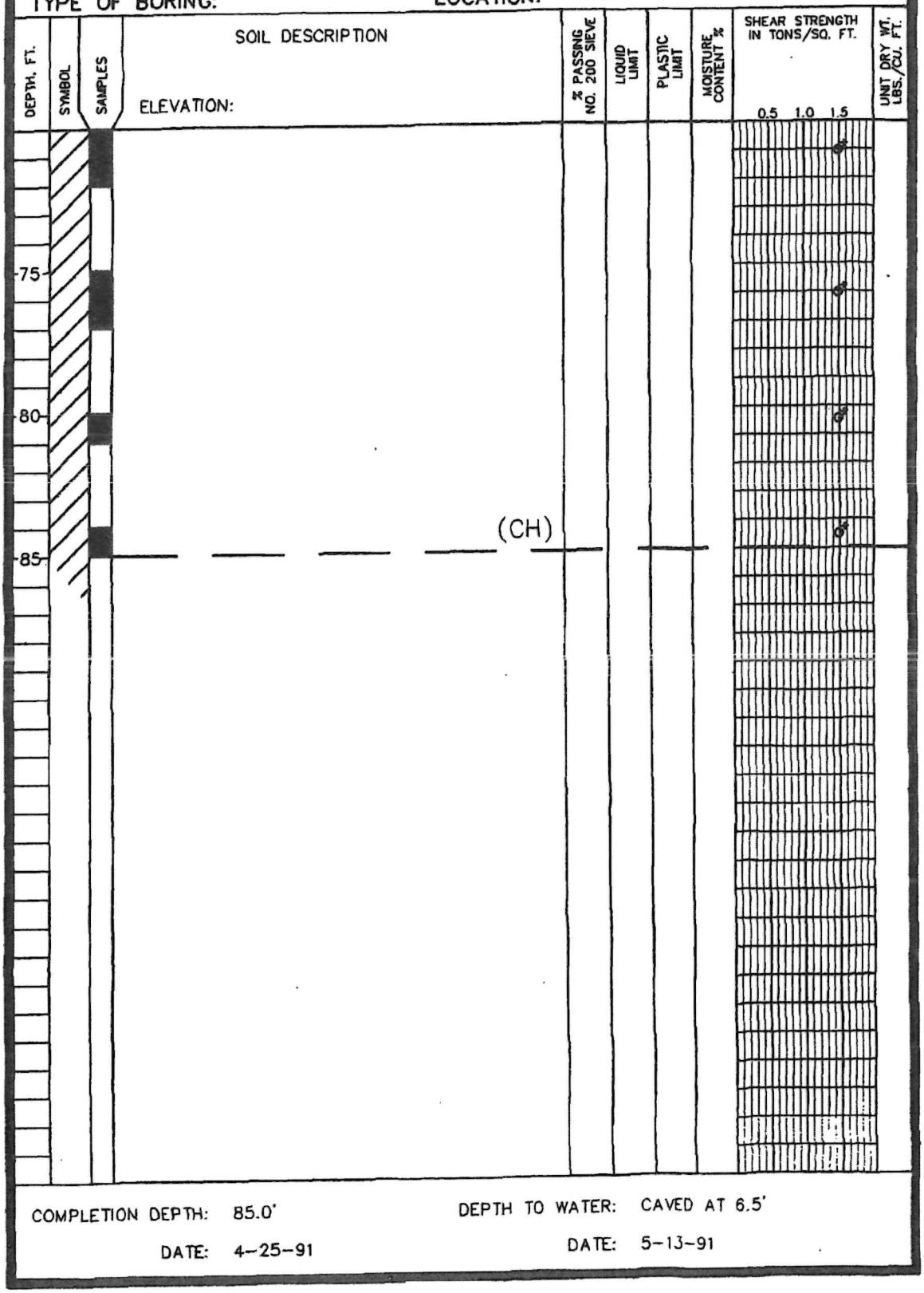
LOG OF BORING NO. CB-41
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings



LOG OF BORING NO. CB-41
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 85.0' DEPTH TO WATER: CAVED AT 6.5'

DATE: 4-25-91 DATE: 5-13-91

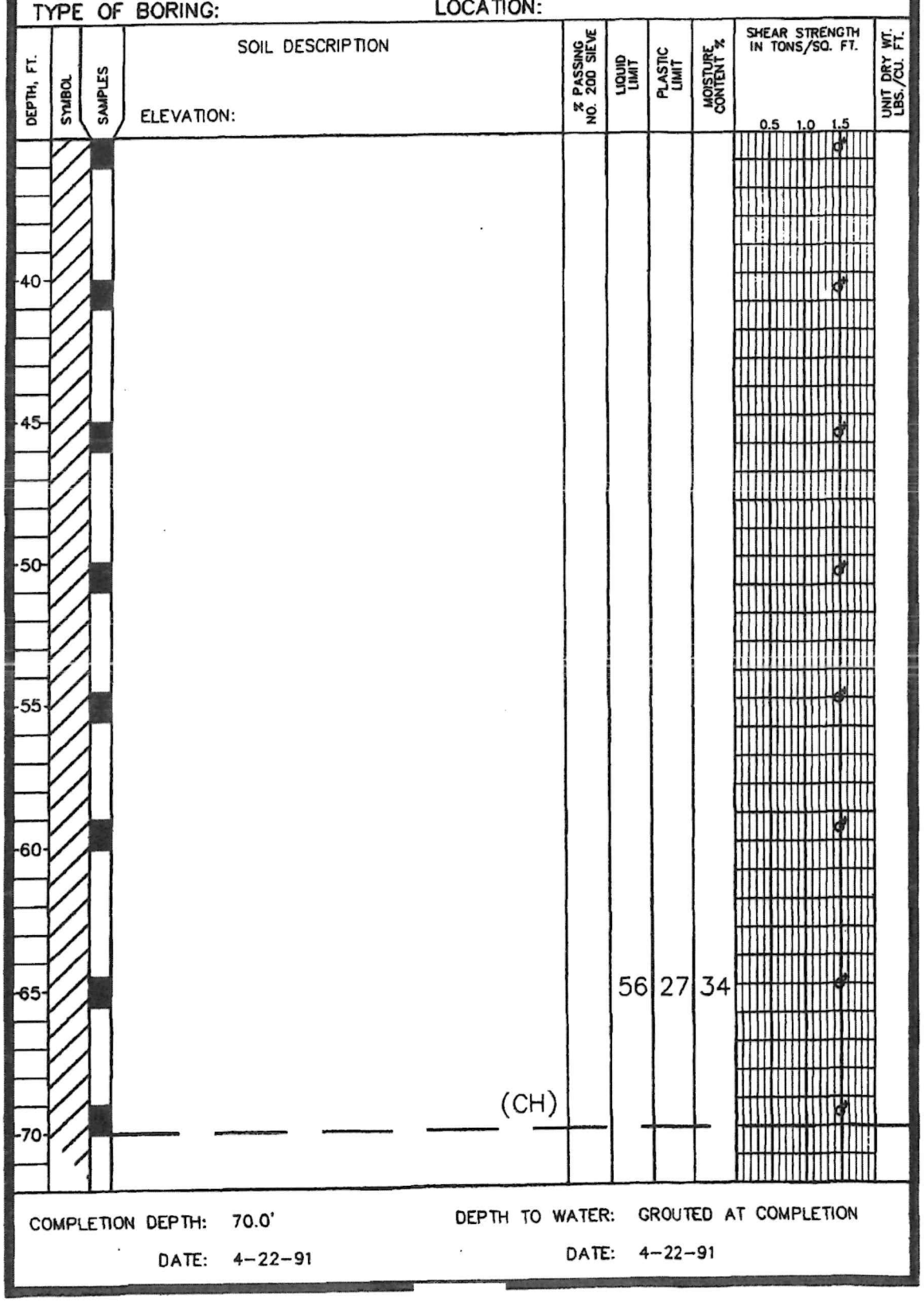
LOG OF BORING NO. CB-42
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 457.2	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)					D	
5			Very stiff tan and gray clay w/ selenite filled fissures and iron stains		72	26	24		
10			–w/ 1/2" selenite filled fissure at 10.2'						
15			Hard gray clay w/ iron stains						
20					70	23	21		
25			–w/ high angle iron stained fissure						
30			Hard dark gray clay						
35									

LOG OF BORING NO. CB-42
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 70.0' DEPTH TO WATER: GROUTED AT COMPLETION

DATE: 4-22-91 DATE: 4-22-91

LOG OF BORING NO. CB-43
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 439.0	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
0			Stiff brown clay w/ roots (CH)						
5			Very stiff tan and yellow clay w/ iron stains, calcareous nodules and selenite						
10			–w/ dark gray clay and selenite filled fissures at 10.5' and 11.0' (CH)						
15			Hard dark gray clay						
20									
25									
30									
35			(CH)						

COMPLETION DEPTH: 35.0 DEPTH TO WATER: DRY

DATE: 4-23-91 DATE: 5-13-91

LOG OF BORING NO. CB-44
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 501.0	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5, 1.0, 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
-5-			Very stiff tan and gray clay						
-10-			-hard below 10.0'						
-15-			-w/ iron stains and selenite						
-20-			-w/ vertical selenite filled fissure		74	24	26		98
-25-			-w/ iron stains						
-30-			-w/ selenite and iron stains (CH)						
-35-									

LOG OF BORING NO. CB-44
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Hard dark gray clay w/ vertical iron stained fissure						
40			-w/ iron stains to 45.0'						
			(CH)						
45			Hard dark gray clay						
50									
55									
60									
65									
70									

LOG OF BORING NO. CB-44
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
75					61	24	22		
80									
85									
90									
95									
100									
105			(CH)						

COMPLETION DEPTH: 105.0' DEPTH TO WATER: 465.0

DATE: 4-29-91 DATE: 5-13-91

LOG OF BORING NO. CB-45
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

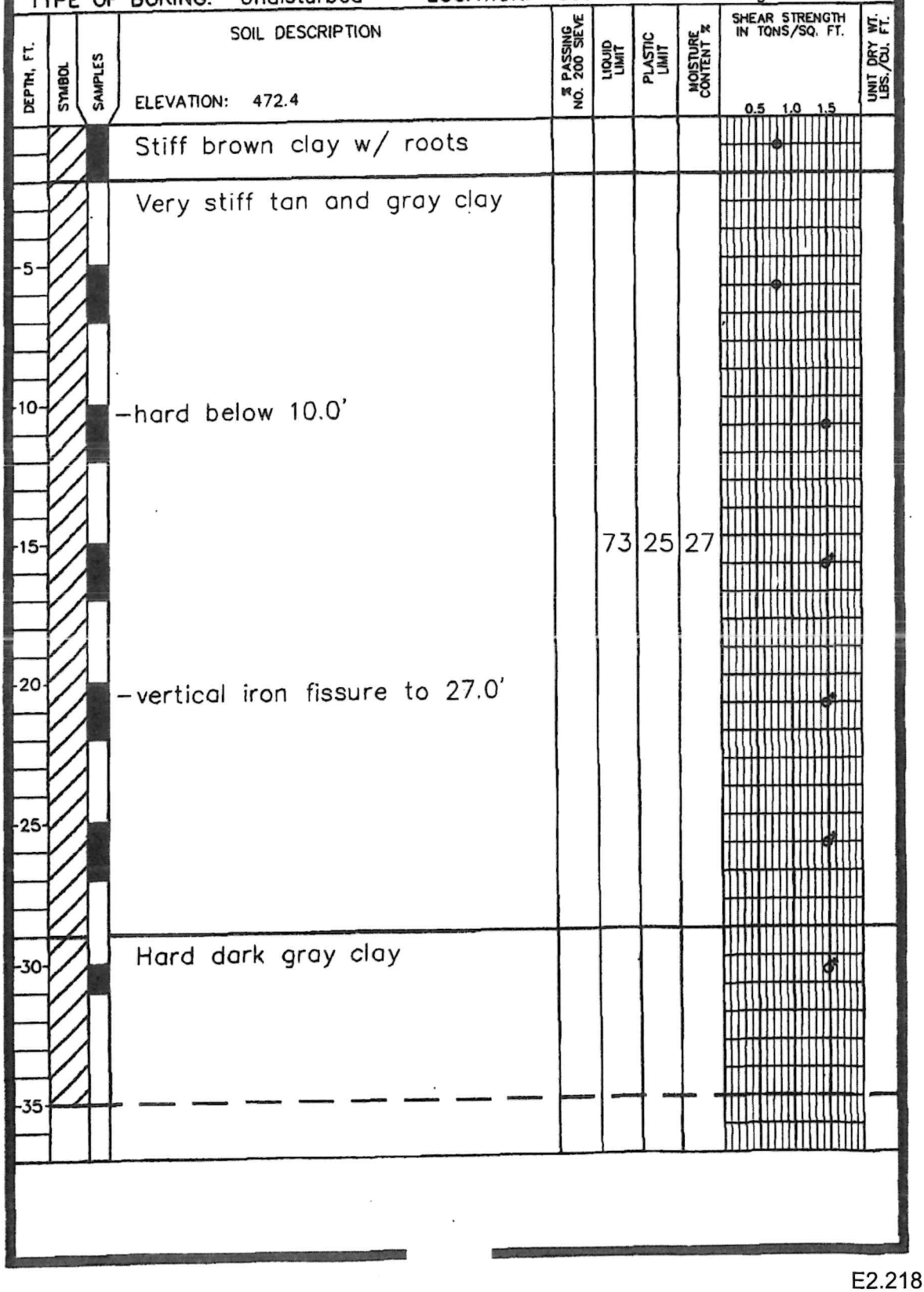
DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 441.5	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
0			Firm brown clay (CH)						
5			Stiff tan and light gray clay w/ occasional small calcareous nodules (CH)						
10			Very stiff gray clay w/ vertical iron stained fissure (CH)						
15			Hard dark gray clay		74	24	20		
20									
25									
30									
35			(CH)						

COMPLETION DEPTH: 35.0' DEPTH TO WATER: CAVED AT 4.0'

DATE: 4-19-91 DATE: 5-13-91

LOG OF BORING NO. CB-46
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings



LOG OF BORING NO. CB-46
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			ELEVATION:		70	24	22		
40									
45									
50									
55									
60									
65			(CH)						

COMPLETION DEPTH: 65.0'
DATE: 4-26-91

DEPTH TO WATER: COMPLETED AS PIEZOMETER
DATE: 4-26-91

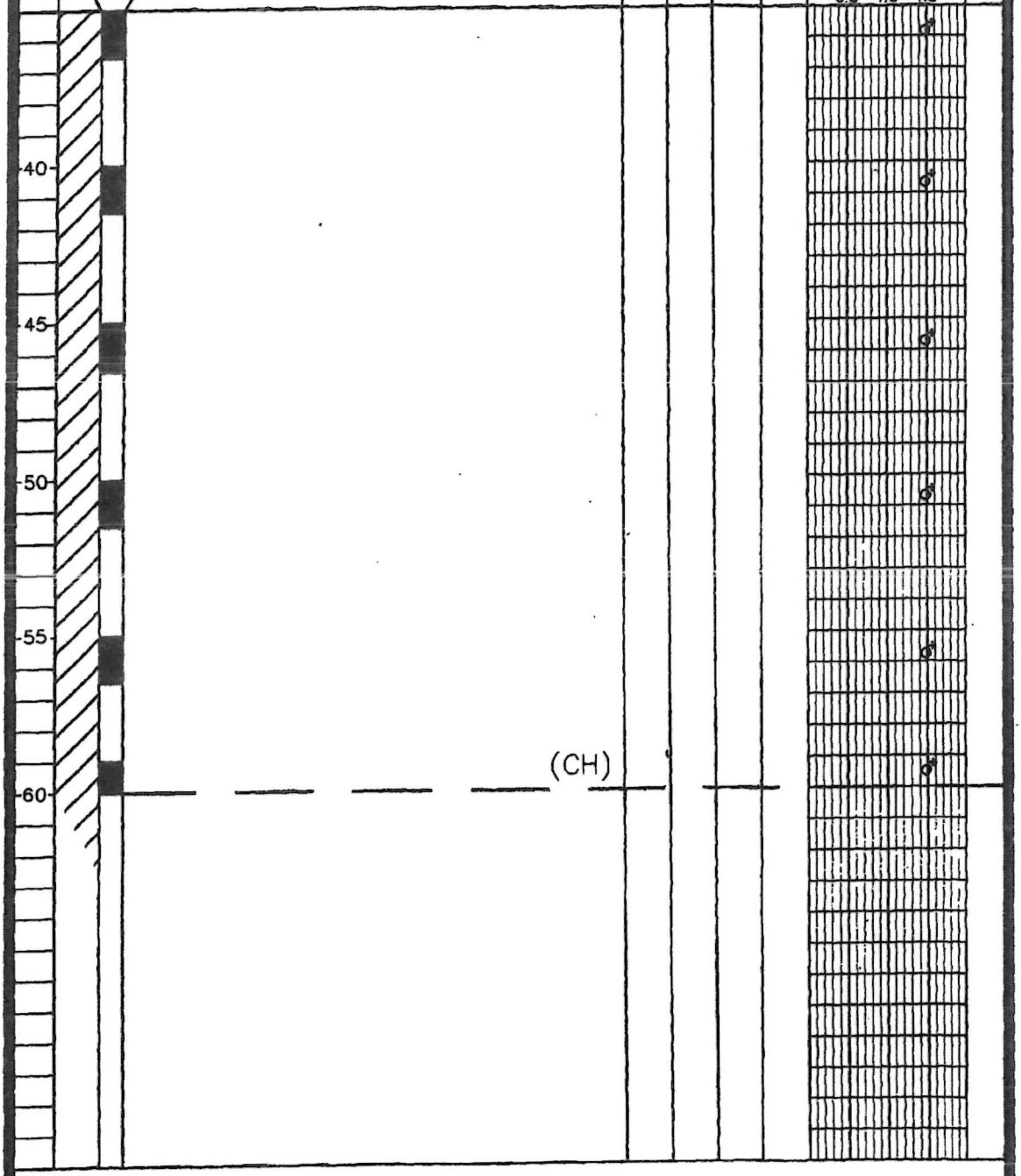
LOG OF BORING NO. CB-47
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 464.3	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5, 1.0, 1.5)	UNIT DRY WT. LBS./CU. FT.
0			Stiff brown clay w/ calcareous nodules (CH)						
-5			Hard tan and light gray clay -iron stained to 26.0' w/ calcareous nodules and selenite filled fissures						
-10									
-15									
-20									
-25			(CH)						
			Hard dark gray clay						
-30									
-35									

LOG OF BORING NO. CB-47
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 60.0' DEPTH TO WATER: 457.4

DATE: 4-27-91 DATE: 5-13-91

LOG OF BORING NO. CB-48
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 492.3	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Firm brown clay w/ iron stains and calcareous nodules (CH)						
5			Very stiff tan and gray clay w/ occasional iron stains						
10			–w/ numerous iron stains to 11.0' (CH)	98.4	67	24	28		
15			Very stiff to hard light gray clay w/ vertical iron filled fissure and numerous iron stains						
20									
25			–light gray and gray						
30			–w/ selenite layer on 30° angle at 31.0'						
35									

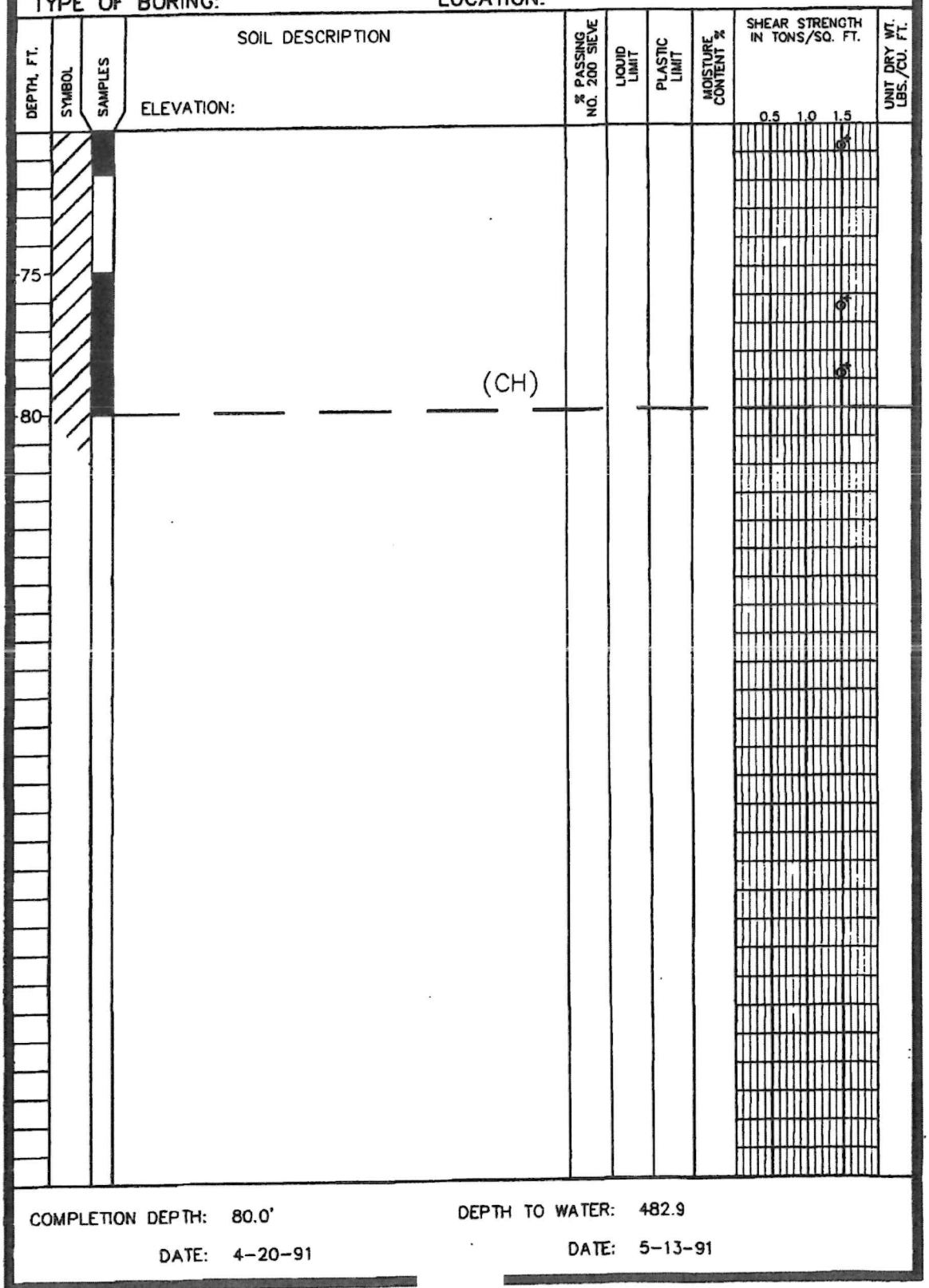
LOG OF BORING NO. CB-48
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			-w/ iron stains and selenite layer						
40			Hard dark gray clay w/ occasional iron stains						
45			-no iron stains below 45.0' $K_v = 6.8 \times 10^{-9}$ CM/SEC	99.7	65	19	20		
50									
55									
60									
65									
70									

LOG OF BORING NO. CB-48
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 80.0' DEPTH TO WATER: 482.9

DATE: 4-20-91 DATE: 5-13-91

LOG OF BORING NO. CB-49
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 493.7	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots and root holes (CH)						
-5-			Stiff light tan clay w/ iron stains and numerous calcareous nodules		44	20	22		105
-10-			-very stiff below 10.0'						
			-w/ gravel						
-15-			-w/ iron stains to 37.0'						
-20-			-w/ limestone cemented gravel lense at 20.0' to 21.0' (CL)		82	24	29		
-25-			Very stiff tan and gray clay						
-30-			-hard below 30.0'						
-35-									

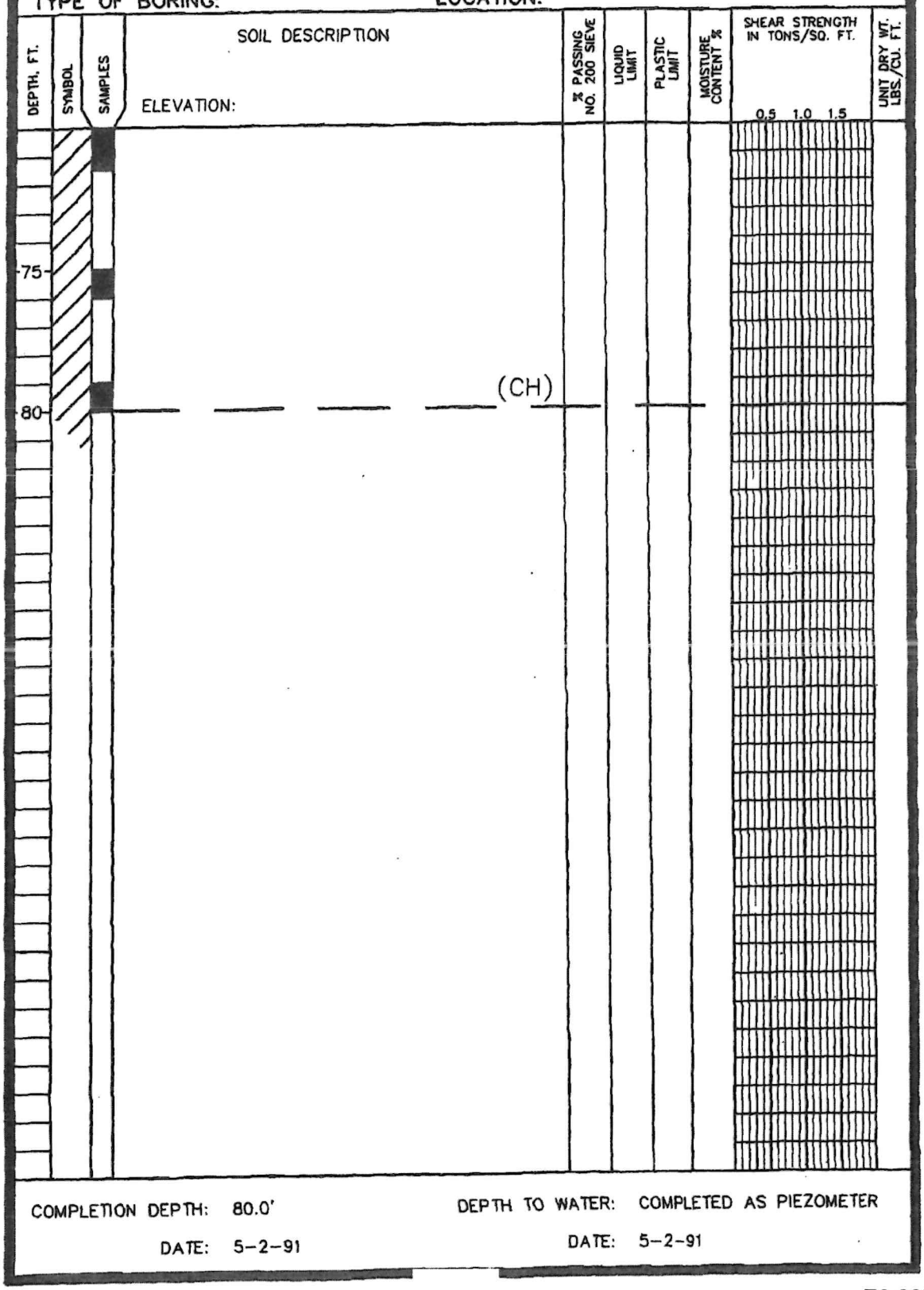
LOG OF BORING NO. CB-49
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			(CH)						
			Hard gray clay						
40			-w/ iron stains and selenite						
45			-w/ iron stains only						
			(CH)						
			Hard dark gray clay						
50									
55									
60									
65									
70									

LOG OF BORING NO. CB-49
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

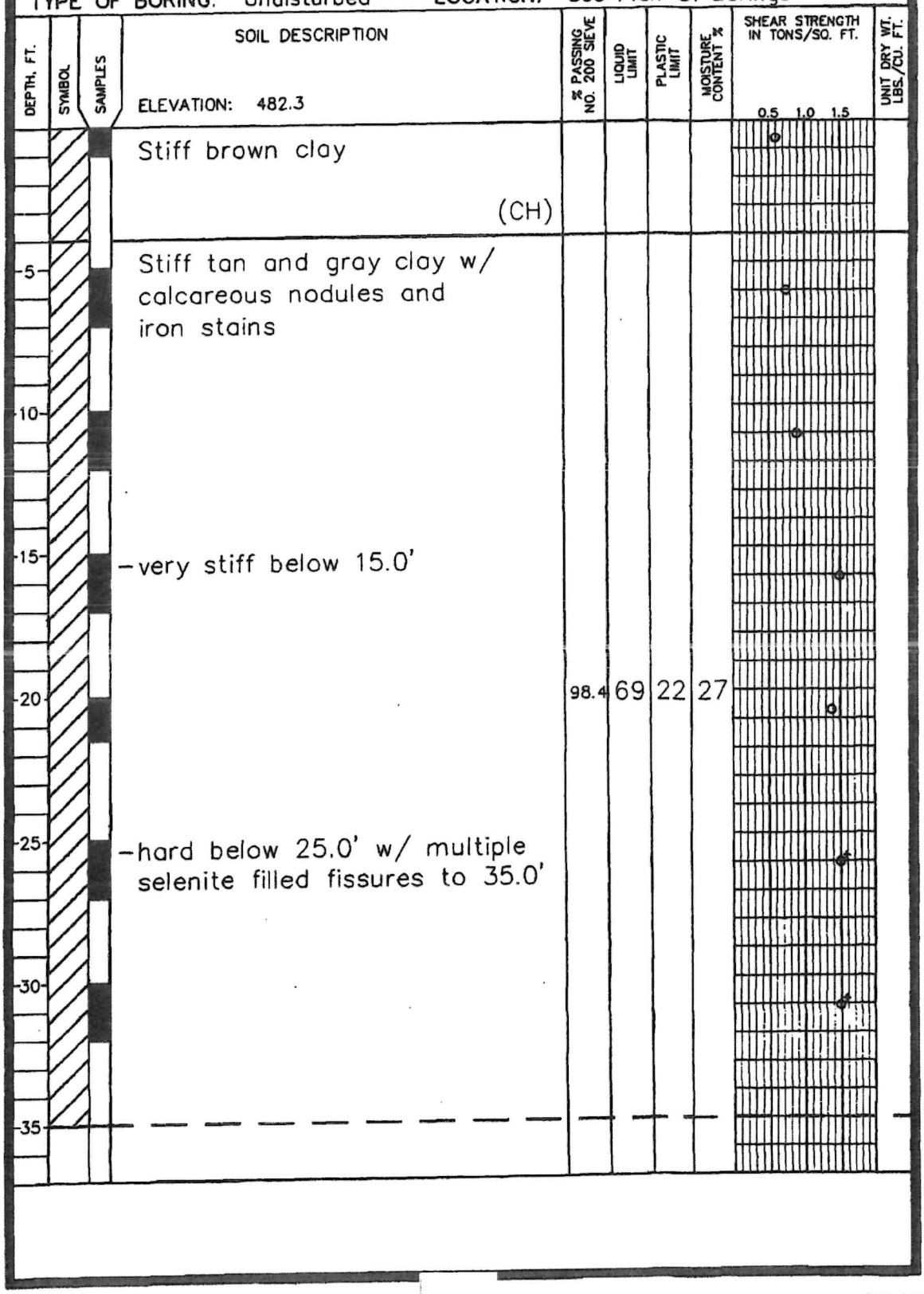


COMPLETION DEPTH: 80.0'
DATE: 5-2-91

DEPTH TO WATER: COMPLETED AS PIEZOMETER
DATE: 5-2-91

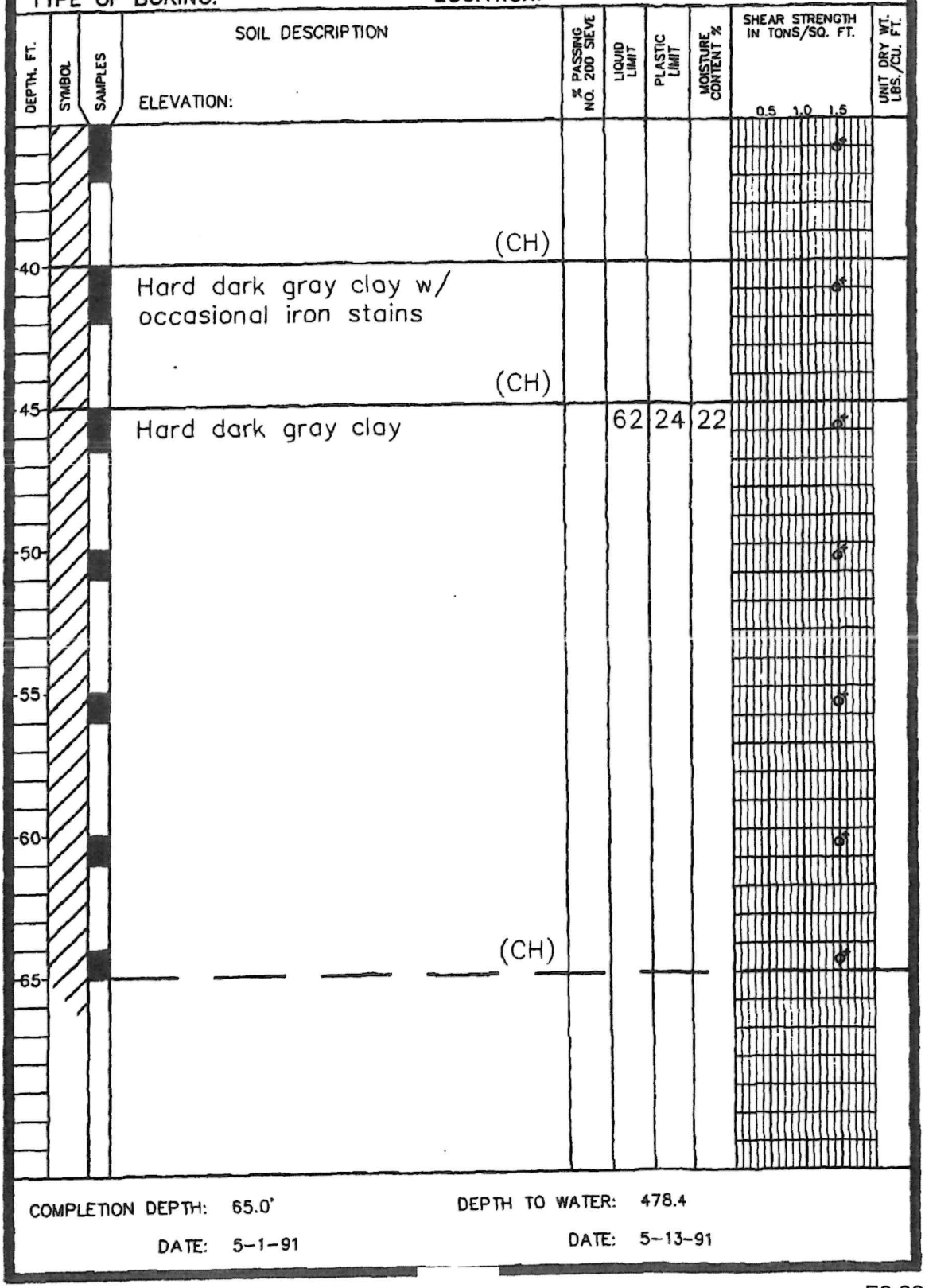
LOG OF BORING NO. CB-50
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings



LOG OF BORING NO. CB-50
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 65.0' DEPTH TO WATER: 478.4

DATE: 5-1-91 DATE: 5-13-91

LOG OF BORING NO. CB-51
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 492.1	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay (CH)						
-5-			Stiff tan and gray clay w/ calcareous nodules						
-10-			–very stiff below 10.0'						
-15-									
-20-			–w/ occasional iron stained fissures						
-25-			–hard below 25.0' w/ iron stained and selenite filled fissures						
-30-			–w/ high angle selenite filled fissure						
-35-									

LOG OF BORING NO. CB-51
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION / ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
40			-w/ iron stains to 58.0'		75	25	28		
45									
50									
55			(CH)						
60			Hard dark gray clay						
65									
70									

LOG OF BORING NO. CB-51
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION / ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
75			(CH)	99.2	62	24	21		

COMPLETION DEPTH: 75.0' DEPTH TO WATER: 488.8

DATE: 4-30-91 DATE: 5-13-91

LOG OF BORING NO. CB-52
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 475.3	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5, 1.0, 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
5			Stiff tan and gray clay w/ iron stains						
10			–very stiff below 10.0'						
15					81	21	27		97
20			–w/ selenite filled fissures						
25			–w/ vertical selenite filled fissure						
30			–hard below 30.0' (CH)						
			Hard gray clay w/ iron stains						
35									

LOG OF BORING NO. CB-52
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			(CH)						
40			Very stiff tan and gray clay w/ iron stains (CH)						
45			Hard gray clay w/ iron stains (CH)						
50			Hard dark gray clay		73	22	22		102
55									
60									
65			(CH)						

COMPLETION DEPTH: 65.0' DEPTH TO WATER: 473.1

DATE: 5-1-91 DATE: 5-13-91

LOG OF BORING NO. CB-53
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 486.4	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Firm brown clay (CH)						
5			Stiff light brown clay w/ calcareous nodules (CH)						
10			Very stiff tan and gray clay w/ a healed vertical iron stained fissure to 20.5'		73	19	33		
15									
20			–iron stained fissure filled w/ iron oxide from 20.5' to 35.5'						
25									
30									
35									

LOG OF BORING NO. CB-53
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION / ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
40			–fissure healed and iron stained from 35.5' to 41.0' (CH)		73	19	28		
45			Hard gray clay w/ iron stains to 66.0'						
50					67	23	25		
55									
60									
65			(CH)						
70			Hard dark gray clay (CH)						

COMPLETION DEPTH: 71.0'
DATE: 4-30-91

DEPTH TO WATER: COMPLETED AS PIEZOMETER
DATE: 4-30-91

LOG OF BORING NO. CB-54
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 468.9	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5 1.0 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ roots (CH)						
-5-			Stiff tan and gray clay w/ iron stains, selenite and weathered calcareous nodules						
-10-			-Hard below 10.0' w/ numerous iron stains						
-15-					79	25	27		97
-20-									
-25-			-w/ selenite filled fissure						
-30-			Hard dark gray clay w/ occasional iron stains						
-35-									

LOG OF BORING NO. CB-54
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION / ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5, 1.0, 1.5)	UNIT DRY WT. LBS./CU. FT.
40			-w/ vertical iron stained fissures to 49.0'						
45									
50			(CH)						

COMPLETION DEPTH: 50.0' DEPTH TO WATER: CAVED AT 4.0'

DATE: 4-26-91 DATE: 5-13-91

LOG OF BORING NO. CB-55
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 474.5	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. (0.5, 1.0, 1.5)	UNIT DRY WT. LBS./CU. FT.
			Stiff brown clay w/ small calcareous nodules						
-5-			-very stiff at 5.0'						
			(CH)						
-10-			Very stiff tan and gray clay iron stained w/ clay filled fissure		87	33	33		
-15-			(CH)						
-20-			Very stiff gray clay w/ iron stains						
-25-			-hard w/ iron stains						
-30-			(CH)						
			Hard dark gray clay w/ numerous iron stains and selenite filled fissures						
-35-									

LOG OF BORING NO. CB-55
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION:	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			-w/ fewer iron stains						
40			-w/ iron stained fissures						
45			-w/ iron stains						
			(CH)						
50			Hard dark gray clay						
55									
			(CH)						
60									

COMPLETION DEPTH: 60.0' DEPTH TO WATER: COMPLETED AS PIEZOMETER

DATE: 4-29-91 DATE: 4-29-91

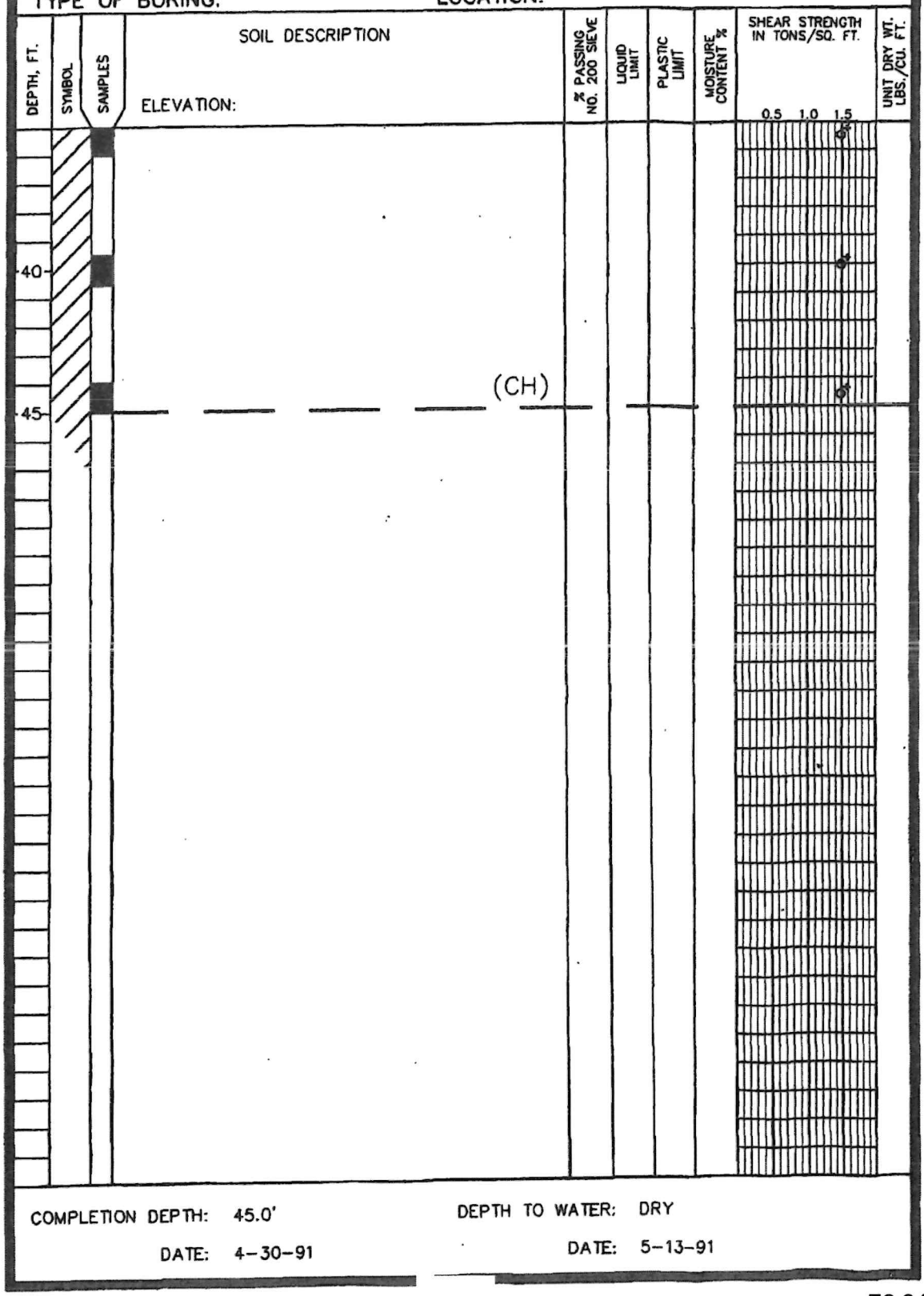
LOG OF BORING NO. CB-56
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

TYPE OF BORING: Undisturbed LOCATION: See Plan Of Borings

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION ELEVATION: 456.1	% PASSING NO. 200 SIEVE	LIQUID LIMIT	PLASTIC LIMIT	MOISTURE CONTENT %	SHEAR STRENGTH IN TONS/SQ. FT. 0.5 1.0 1.5	UNIT DRY WT. LBS./CU. FT.
			Firm brown clay w/ organic material (Fill)						
5			Very stiff tan and gray clay w/ weathered calcareous nodules and selenite (Fill)						
10			Hard tan and gray clay w/ iron stains (CH)		79	24	27		
15			Hard dark gray clay						
20					69	30	22		
25									
30									
35									

LOG OF BORING NO. CB-56
WASTE MANAGEMENT OF TEXAS
SKYLINE LANDFILL EXPANSION
FERRIS, TEXAS

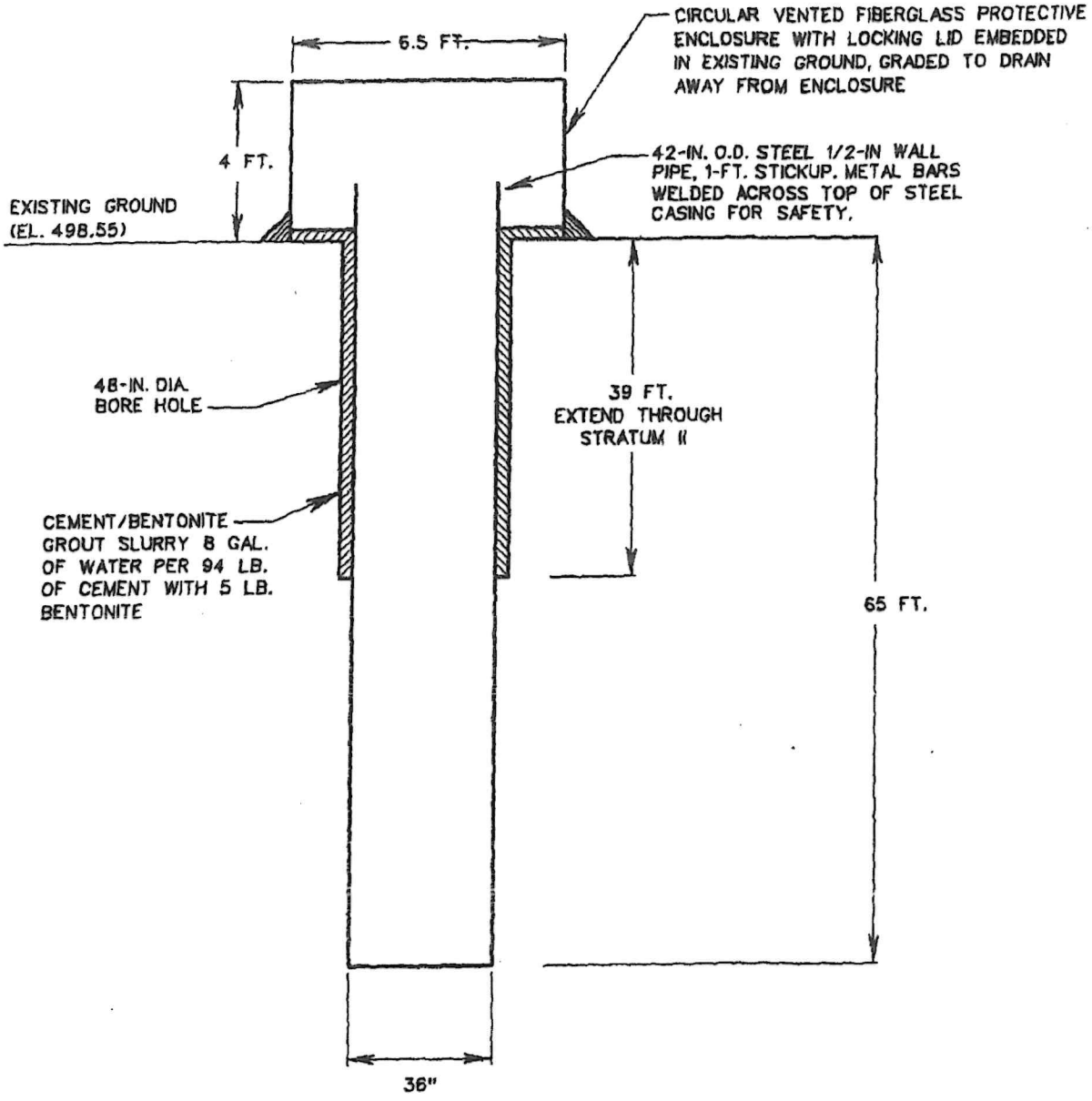
TYPE OF BORING: LOCATION:



COMPLETION DEPTH: 45.0' DEPTH TO WATER: DRY

DATE: 4-30-91 DATE: 5-13-91

LARGE DIAMETER BORING CONSTRUCTION DETAILS



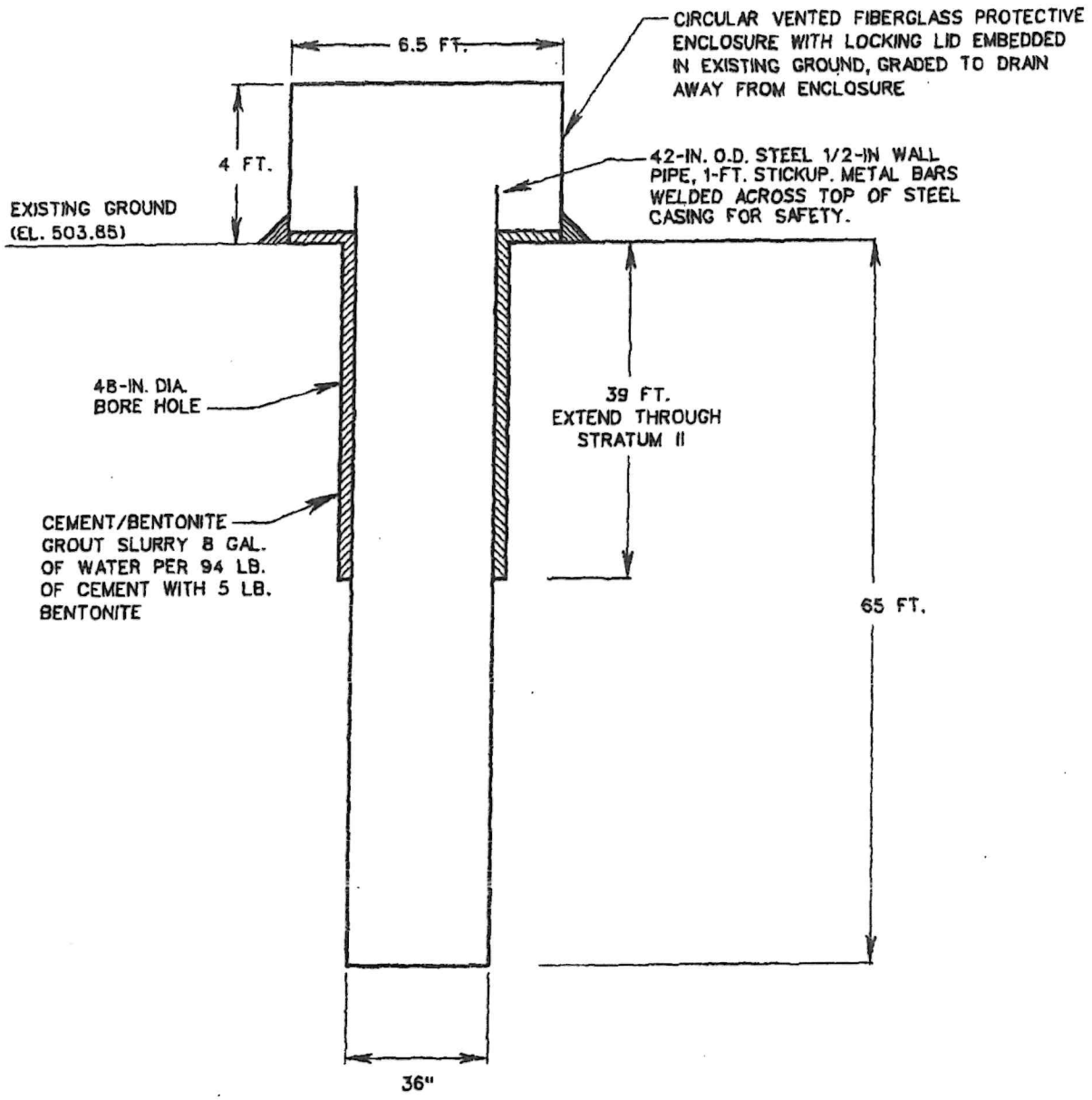
LD-1 LARGE DIAMETER TEST BORING CONSTRUCTION DETAIL

NOT TO SCALE

8/12/93

HDR Engineering, Inc.	SKYLINE LANDFILL Waste Management of Texas, Inc. Dallas, Texas	LARGE DIAMETER BORING CONSTRUCTION DETAIL LD-1			
		Date	Project No.	Figure No.	Issue
		AUG. 1993	00320-004-037	2	2

Sup.11-24



LD-2 LARGE DIAMETER TEST BORING CONSTRUCTION DETAIL

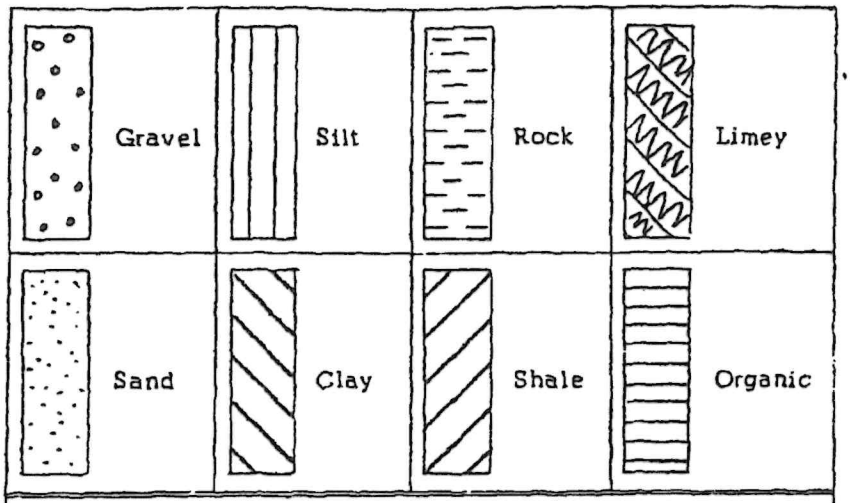
NOT TO SCALE

8/12/93

HDR Engineering, Inc.	SKYLINE LANDFILL Waste Management of Texas, Inc. Dallas, Texas	LARGE DIAMETER BORING CONSTRUCTION DETAIL LD-2			
		Date	Project No.	Figure No.	Issue
		AUG. 1993	00320-004-037	3	2

SOUTHWESTERN LABORATORIES BORINGS

KEY TO SOIL SYMBOLS AND DESCRIPTIONS USED ON LOGS OF BORINGS



COLOR

In color description of soil, the predominating color is stated first.

CONSISTENCY OF COHESIVE SOILS

Classification	Compressive Strength, psf
Very Soft	Less than - 500
Soft	500 - 1000
Plastic	1000 - 2000
Stiff	2000 - 4000
Very Stiff	4000 - 8000
Hard	More than - 8000

CONSISTENCY OF COHESIONLESS SOILS

Classification	Standard Penetration, bpf
Loose	Less than 10
Firm	10 - 30
Dense	More than 30

SOIL STRUCTURE

Jointed - Cut by old shrinkage planes

Fractured - Containing old cracks, frequently filled with sand, silt or clay of differing color

Interbedded - Composed of alternate layers of different soil types

Limey - Contains deposits of calcium carbonate

SOUTHWESTERN LABORATORIES

SUMMARY OF WATER LEVEL READINGS

BORING NO.	SEEPAGE DURING DRILLING	WATER LEVEL BELOW GROUND SURFACE AFTER 1 DAY(FEET)	SHALE DEPTH (FEET)	BORING DEPTH (FEET)
1	None	35	>40	40
2	None	32	>40	40
3	None	39.5	>40	40
4	None	32	30	35
5	None	None	9	15
6	39'	14	39	45
7	None	None	15	20
8	None	None	10	15
9	10'	8	9	15
10	37'	Caved at 4'	>40	40
11	10' and 30'	4	>40	40
#1	Drilled with water	Bailed to 70', water at 23' in 2 days	45	90
#2	Drilled with water	Bailed to 65', water at 92' in 1 day	43	100
#3	Drilled with water	Bailed to 55', water at 23' in 1 day	7	60
#4	Drilled with water	Bailed to 58', water at 50' after 4 hours	32	65

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO.: 1
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN. tsf	LEGEND: ■ SAMPLE, X STANDARD PENETRATION, ▼ WATER	WATER INFORMATION	DESCRIPTION OF STRATUM	U.S.C.
						No seepage encountered during drilling. Water at 35' after 1 day.	Dark brown clay	CH
		■					Brown clay $k=7.4 \times 10^{-10}$ cm/sec	CH
5							Tannish brown clay $k = 4.9 \times 10^{-10}$cm/sec	CH
10							Tan and gray shaley clay $k = 5.9 \times 10^{-10}$cm/sec	CH
15								
20								
25								
30								
35								
40							Bottom of hole at 40'	
45								
50								

SOUTHWESTERN LABORATORIES

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO.: 2
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	LEGEND: ■ SAMPLE, X STANDARD PENETRATION, ▼ WATER	WATER INFORMATION	DESCRIPTION OF STRATUM	U.S.C.
5						No seepage encountered during drilling. Water at 32' after 1 day.	Tannish brown clay	CH
10							Tan and gray shaley clay with calcareous seams k = 4.7 x 10^{-10}cm/sec	CH
15								
20								
25								
30							k = 1.2 x 10^{-10}cm/sec	
35							Tan and gray shaley clay with blue shale seams	
40							Bottom of hole at 40'	
45								
50								

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.
BORING NO: 3
LOCATION: Ferris, Texas
DATE: 8/12/83
TYPE: Auger
CASED TO:
GROUND ELEVATION:

LEGEND
■ SAMPLE
X STANDARD PENETRATION
▼ WATER

WATER INFORMATION
No seepage encountered during drilling. Water at 39.5' after 1 day.

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf.	DESCRIPTION OF STRATUM	U.S.C.
					Brown clay	CH
5					Tannish brown clay $k = 1.8 \times 10^{-9}$ cm/sec	CH
10					Tan and gray shaley clay $k = 8.7 \times 10^{-10}$ cm/sec	CH
15						
20						
25						
30						
35						
40					Bottom of hole at 40'	
45						
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO.: 4
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

LEGEND
- SAMPLE
- STANDARD PENETRATION
- WATER

WATER INFORMATION

No seepage encountered during drilling. Water at 32' after 1 day.

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf.	DESCRIPTION OF STRATUM	U.S.C.
0					Tannish brown clay	CH
5						
10					Tan and gray shaley clay $k = 5.3 \times 10^{-10}$ cm/sec	CH
15						
20						
25					Tan and gray shaley clay with blue shale seams $k = 3.6 \times 10^{-10}$ cm/sec	CH
30					Dark gray shale	CH
35					Bottom of hole at 35'	
40						
45						
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO. 5
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	LEGEND: ■ SAMPLE, X STANDARD PENETRATION, ▼ WATER	WATER INFORMATION	U.S.C.
5		■			Tannish brown clay $k = 2.5 \times 10^{-9}$cm/sec	No seepage encountered during drilling. No water in hole after 1 day.	CH
10		■			Dark gray shale		CH
15					Bottom of hole at 15'		
20							
25							
30							
35							
40							
45							
50							

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO.: 6
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

LEGEND:
- SAMPLE
- X STANDARD PENETRATION
- WATER

WATER INFORMATION: Seepage at 39' during drilling. Water at 14' after 1 day.

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	DESCRIPTION OF STRATUM	U.S.C.
					Dark brown clay	CH
					Brown clay	
5					Tan sandy clay with calcareous deposits $k = 7.6 \times 10^{-10}$ cm/sec	CL
10						
15					Tan sandy clay with clayey sand $k = 5.3 \times 10^{-8}$ cm/sec	CL w/SC
20						
25					Tan and gray shaley clay	CH
30						
35						
40					Dark gray shale	CH
45					Bottom of hole at 45'	
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.
BORING NO.: 7
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

LEGEND:
- SAMPLE
- STANDARD PENETRATION
- WATER

WATER INFORMATION: No seepage encountered during drilling. No water in hole after 1 day.

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	DESCRIPTION OF STRATUM	U.S.C.
5					Tannish brown clay (fill) $k = 2.0 \times 10^{-9}$ cm/sec	CH
10					Dark gray clay	CH
15					Tan and gray shaley clay $k = 9.6 \times 10^{-10}$ cm/sec	CH
20					Dark gray shale	CH
25					Bottom of hole at 20'	
30						
35						
40						
45						
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO: 8
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

LEGEND.
- SAMPLE
- STANDARD PENETRATION
- WATER

WATER INFORMATION

No seepage encountered during drilling.
No water in hole after 1 day.

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	DESCRIPTION OF STRATUM	U.S.C.
					Tannish brown clay	CH
5					Tan and gray shaley clay	CH
					Tannish brown shaley clay $k = 8.2 \times 10^{-11}$ cm/sec	CH
10					Dark gray shale	CH
15					Bottom of hole at 15'	
20						
25						
30						
35						
40						
45						
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT PROPOSED SANITARY LANDFILL
CLIENT Waste Management, Inc.

BORING NO : 9
LOCATION : Ferris, Texas

DATE 8/12/83 TYPE Auger CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	LEGEND: ■ SAMPLE, X STANDARD PENETRATION, ▼ WATER	WATER INFORMATION	U.S.C.
						Seepage at 10' during drilling. Water at 8' after 1 day.	
					DESCRIPTION OF STRATUM		
5		■			Tan and gray clay $k = 6.4 \times 10^{-10}$ cm/sec		CH
		■			Tan and gray shaley clay with blue shale seams		CH
10		■			Dark gray shale		CH
15					Bottom of hole at 15'		
20							
25							
30							
35							
40							
45							
50							

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO.: 10
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft	HAND PEN tsf	LEGEND: ■ SAMPLE, X STANDARD PENETRATION, ▼ WATER	WATER INFORMATION	U.S.C.
						Seepage at 37', caved at 4' after 1 day.	
					DESCRIPTION OF STRATUM		
5					Tannish brown clay $k = 4.3 \times 10^{-10}$ cm/sec		CH
10							
15					Tan shaley clay		CH
20							
25							
30							
35					Tan and gray shaley clay $k = 4.4 \times 10^{-11}$ cm/sec		CH
40							
45					Bottom of hole at 40'		
50							

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED SANITARY LANDFILL
CLIENT: Waste Management, Inc.

BORING NO: 11
LOCATION: Ferris, Texas

DATE: 8/12/83 TYPE: Auger CASED TO: GROUND ELEVATION:

LEGEND
■ SAMPLE
X STANDARD PENETRATION
▼ WATER

WATER INFORMATION

Seepage at 10' and 30' during drilling.
Water at 4' after 1 day.

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	DESCRIPTION OF STRATUM	U.S.C.
5					Brown clay	CH
10					Gray and tan clay $k = 2.1 \times 10^{-9}$ cm/sec	CH
15						
20					Tan and gray shaley clay $k = 1.4 \times 10^{-10}$ cm/sec	CH
25					Tan shaley clay	CH
30						
35						
40					Bottom of hole at 40'	
45						
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED LANDFILL
CLIENT: Waste Management, Inc.
BORING NO.: #1
LOCATION: Ferris, Texas

DATE: 10/16/78 TYPE: Core CASED TO: GROUND ELEVATION:

LEGEND: ■ SAMPLE × STANDARD PENETRATION ▼ WATER

WATER INFORMATION

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	DESCRIPTION OF STRATUM	USC
					Brown clay with pebbles	CH
5					Tan clay with pebbles	CH
					k=2.3 x 10^{-9}cm/sec Tan and gray clay with pebbles	CH
10					Tan and gray jointed clay	CH
					k=1.4 x 10^{-9}cm/sec	
15						
20						
25					Tan and gray jointed clay with some seams of pea gravel and calcareous material	CH
30					Tan and gray shaley clay with rust seams	CH
					k = 2.8 x 10^{-9}cm/sec	
35						
40						
45					Dark gray shale	Clay shale
50						

SOUTHWESTERN LABORATORIES

PROJECT: PROPOSED LANDFILL

CLIENT: Waste Management, Inc.

BORING NO.: #1

LOCATION: Ferris, Texas

DATE: 10/16/78 TYPE: Core CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN tsf	LEGEND: ■ SAMPLE, X STANDARD PENETRATION, ▼ WATER	WATER INFORMATION
					DESCRIPTION OF STRATUM	
55					Dark gray shale	
60						
65						
70						
75						
80						
85						
90					Bottom of hole at 90'	
95						
100						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED LANDFILL
CLIENT: Camp Dresser & McKee, Inc.
BORING NO.: 2
LOCATION: Ferris, Texas

DATE: 10/17/78 TYPE: Core CASED TO: GROUND ELEVATION:

LEGEND:
- SAMPLE
- STANDARD PENETRATION
- WATER

WATER INFORMATION

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN. tsf.	DESCRIPTION OF STRATUM	U.S.C.
0					Dark brown clay with lime pebbles	CH
5					Brown and gray clay with caliche	CH
10					Tan and gray jointed clay with calcareous material	CH
15						
20						
25						
30						
35						
40					Tan and gray shaley clay with gypsum seams	CH
45					Weathered gray shale with tan and gray clay layers	Clay shale
50						

SOUTHWESTERN LABORATORIES

PROJECT: PROPOSED LANDFILL
CLIENT: Waste Management, Inc.

BORING NO.: #2
LOCATION: Ferris, Texas

DATE: 10/17/78 TYPE: Core CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN. tsf.	LEGEND: ■ SAMPLE × STANDARD PENETRATION ▼ WATER	WATER INFORMATION
					DESCRIPTION OF STRATUM	
					Weathered gray shale with tan and gray clay layers Clay shale	
-55-					Dark gray shale	
-60-						
-65-						
-70-						
-75-						
-80-						
-85-						
-90-						
-95-						
-100-					Bottom of hole at 100'	

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED LANDFILL
CLIENT: Camp Dresser & McKee, Inc.
BORING NO.: 3
LOCATION: Ferris, Texas

DATE: 10/18/78 TYPE: Core CASED TO: GROUND ELEVATION:

LEGEND:
- SAMPLE
- STANDARD PENETRATION
- WATER

WATER INFORMATION

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN. tsf.	DESCRIPTION OF STRATUM	USC
					Dark brown clay	CH
					Brown clay with lime pebbles	CH
5					Brown and gray shaley clay	CH
					Weathered gray shale	CH
10					Dark gray shale	Clay shale
15						
20						
25						
30						
35						
40						
45						
50						

SOUTHWESTERN LABORATORIES

LOG OF BORING

PROJECT: PROPOSED LANDFILL
CLIENT: Camp Dresser & McKee, Inc.

BORING NO.: 3
LOCATION: Ferris, Texas

DATE: 10/18/78 TYPE: Core CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN. tsf.	LEGEND: ☐ SAMPLE, X STANDARD PENETRATION, ▽ WATER	WATER INFORMATION	DESCRIPTION OF STRATUM	USC
55							Dark gray shale	Clay shale
60							Bottom of hole at 60'	
65								
70								
75								
80								
85								
90								
95								
100								

SOUTHWESTERN LABORATORIES

LOG OF BORING

Page 1 of 2

PROJECT: PROPOSED LANDFILL
CLIENT: Camp Dresser & McKee, Inc.
BORING NO.: 4
LOCATION: Ferris, Texas

DATE: 10/18/78 TYPE: Core CASED TO: GROUND ELEVATION:

LEGEND:
- SAMPLE
- STANDARD PENETRATION
- WATER

WATER INFORMATION

PTI FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/ft.	HAND PEN. tsf.	DESCRIPTION OF STRATUM	USC
					Brick, gravel and brown clay (fill)	CH
5					Brown and tan clay with pebbles	CH
0					Brown, tan and gray jointed clay with calcareous material	CH
15					Gray shaley clay with tan clay seams	CH
0						
5						
30						
5					Dark gray shale	Clay shale
40						
5						
0						

SOUTHWESTERN LABORATORIES

PROJECT: PROPOSED LANDFILL
CLIENT: Camp Dresser & McKee, Inc.

BORING NO.: 4
LOCATION: Ferris, Texas

DATE: 10/18/78 TYPE: Core CASED TO: GROUND ELEVATION:

DEPTH IN FEET	SYMBOL	SAMPLE	STANDARD PENETRATION BLOWS/FT.	HAND PEN. tsf.	LEGEND: ▣ SAMPLE, X STANDARD PENETRATION, ▽ WATER	WATER INFORMATION	DESCRIPTION OF STRATUM	USC
55							Dark gray shale	Shale
60								
65							Bottom of hole at 65'	
70								
75								
80								
85								
90								
95								
100								

SOUTHWESTERN LABORATORIES

MONITORING WELL LOGS

LOG OF BORING MONITOR WELL MW-1

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: C+15 56+80

ELEVATION: Top Pipe 493.70 Ground 491.06

DEPTH, FT.	SAMPLES	SOIL DESCRIPTION
0		Firm, dark brown CLAY with calcareous nodules. (CH)
7.0'		Firm to stiff, tan and gray CLAY (Weathered Taylor) with calcareous nodules and iron stained joints.
10		Fewer calcareous nodules below 10'.
17		More gray at 17'.

7/27/98 2626.110

LOG OF BORING MONITOR WELL MW-1 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA | LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	ELEVATION:
			Selenite crystals at 36'.	
40			Mostly light gray below 40'.	
			44'	(CH)
45			Hard, dark gray CLAY (Taylor Marl).	
			Iron stain at 47.5'.	
50				
			Iron stain at 53'. No iron staining below 53'.	
55				
			Total Depth 59'	(CH)
60				
65				
70				

7/27/95 26786.110

LOG OF MONITORING WELL NO. MW-1R

Project Description: Skyline Landfill
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews
1700 Robert Road Ste 100
Mansfield, TX 76063
Phone: 817-869-1144

Location: E 2253711.210 N 319648.700

Top of Casing El.: 491.65 ft. msl
Surface El.: 488.99 ft. msl
Completion Depth: 55.0 ft.
Date Boring Started: 10/9/2018
Date Boring Completed: 8/1/2019

Depth, feet	Sample	Symbol / USCS	MATERIAL DESCRIPTION	Monitoring Well Construction Details	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lbs/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			Clay, dark brown with rootlets, with calcareous nodules, stiff										
5			488.99										
			Clay, tan and gray, with calcareous nodules, with ferrous stains, hard										
10													
15													
20			- tan and light gray										
25													
30													
35			- light gray and tan										
40													
45			- light gray and brown										
50													

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

9-11-2019

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

Drilling Contractor: HET
Drilling Method: Hollow Stem Auger
Sampling Method: Cuttings
Geologist/Engineer: S. Stamoulis
Project No.: 191.91.120

Groundwater Observations

Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Cemented protective casing. Set concrete pad on 8/1/19

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

PJ B&M DATA TEMPLATE.GDT 8/22/19
BME LOG SKYL

LOG OF MONITORING WELL NO. MW-1R

Project Description: Skyline Landfill

1201 North Central Avenue, Ferris, Texas

Biggs & Mathews
1700 Robert Road Ste 108
Mansfield, TX 76063
Phone: 817-563-1144

Location: E 2253711.210 N 319949.700

Top of Casing El.: 491.65 ft. msl
Surface El.: 488.99 ft. msl
Completion Depth: 65.0 ft.
Date Boring Started: 10/8/2018
Date Boring Completed: 8/1/2019

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Monitoring Well Completion Details	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lbs/ft3	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
55			Clay, tan and gray, with calcareous nodules, with ferrous stains, hard (continued)										
60			427.99 Clay (marl), unweathered, dark gray, hard										
65			423.99										
70													
75													
80													
85													
90													
95													
100													

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
LICENSED
PROFESSIONAL GEOSCIENTIST

9-11-2019

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

Drilling Contractor: HWT
Drilling Method: Hollow Stem Auger
Sampling Method: Cuttings
Geologist/Engineer: S. Stamoulis
Project No.: 191.51.129

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Cemented protective casing. Set concrete pad on 8/1/19

BIGGS & MATHEWS

B&E LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/22/19

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING MONITOR WELL MW-2

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: PPP+18 47+89

ELEVATION: Top Pipe 472.39 Ground 469.56

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Stiff to very stiff, dark brown CLAY with calcareous nodules.
			3.0' (CH)
			Very stiff, tan CLAY (Weathered Taylor) with calcareous nodules and iron stains.
5			
			Occasional light gray and selenite crystals from 8 to 9.5'.
10			
15			
20			
			Tan and dark gray from 22'.
25			
			30' (CH)
30			Hard, dark gray CLAY (Taylor Marl).
			Iron stained joint at 34.5'.
35			No iron staining below 34.5'.

8/18/95 26286.110

LOG OF BORING MONITOR WELL MW-2 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA | LOCATION:

DEPTH, FT.	SYMBOL	SAMPLE	SOIL DESCRIPTION	ELEVATION:
			Hard, dark gray CLAY (Taylor Marl).	
			Total Depth 37.5'	(CH)
40				
45				
50				
55				
60				
65				
70				

8/18/95 2628A.110

LOG OF BORING	Apex geoscience inc.	ENVIRONMENTAL SAMPLING
Project Number: 307-052	Name: Skyline Landfill	Boring No: MW-2R
Location/Description: IH-45, Ferris, Texas		Date: 8/27/2007

SILTS & SANDS	CONSISTENCY	COLORS	MATERIALS	SAND TYPE	CHARACTERISTICS
VLo- Very Loose Lo- Loose MDe – Medium Dense De – Dense VDe – Very Dense	Vso – Very Soft So – Soft Mst – Medium Stiff St – Stiff Vst – Very Stiff H - Hard	Bk – Black, Bl – Blue Br – Brown, Dk – Dark G – Gray, Gr – Green Li – Light, R – Red Rdish – Reddish Y-Yellow, W - White	Cl – Clay, Clayey Gr – Gravel Ls – Limestone Sa – Sand, Sandy SS – Sandstone Sh – Shale, Si – Silt, Silty SiS - Siltstone	F – Fine M – Medium Co – Coarse Si - Silty	Calc – Calcareous Lam – Laminated Lig – Lignite Nod – Nodules Org – Organic Sm – Seam, Sl – Slightly Sls – Slickensided

SAMPLE #	DEPTH FT	CONDITION OR CONSISTENCY	COLOR	MINOR MATERIALS OR ADJECTIVES	PREDOMINATE MATERIAL	CHARACTERISTICS OR MODIFICATIONS	MOISTURE DESC.	PID	LEL
	0	So	Br	Si	Cl	Compacted fill	Dry		
	5								
	10								
	15								
	20								
	25								
	30	Mst	Li Br			Calc			
	35								

Project Number: 307-052	Name: Skyline Landfill	Boring No: MW-2R
Location/Description: IH-45, Ferris, Texas		Date: 8/27/2007

SILTS & SANDS	CONSISTENCY	COLORS	MATERIALS	SAND TYPE	CHARACTERISTICS
VLo- Very Loose Lo- Loose MDe – Medium Dense De – Dense VDe – Very Dense	Vso – Very Soft So – Soft Mst – Medium Stiff St – Stiff Vst – Very Stiff H - Hard	Bk – Black, Bl – Blue Br – Brown, Dk – Dark G – Gray, Gr – Green Li – Light, R – Red Rdish – Reddish Y-Yellow, W - White	Cl – Clay, Clayey Gr – Gravel Ls – Limestone Sa – Sand, Sandy SS – Sandstone Sh – Shale, Si – Silt, Silty SiS - Siltstone	F – Fine M – Medium Co – Coarse Si - Silty	Calc – Calcareous Lam – Laminated Lig – Lignite Nod – Nodules Org – Organic Sm – Seam, Sl – Slightly Sls – Slickensided

SAMPLE #	DEPTH FT	CONDITION OR CONSISTENCY	COLOR	MINOR MATERIALS OR ADJECTIVES	PREDOMINATE MATERIAL	CHARACTERISTICS OR MODIFICATIONS	MOISTURE DESC.	PID	LEL
	40	Mst	Li Br	Si	Cl	Calc	Dry		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	45	"	"	"	"	"	"		
		St	Bl	"	"	Fissle	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	Br	"	"	Selentic crystals	"		
	50	"	"	"	"	Fissle	"		
		St	G	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	55	"	"	"	"	"	"		
		H	G	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	60	"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	65	"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	70	"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	75	"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	TD – 77'	"		

COMPLETION RECORD

ype of Boring: ☒ HSA ☐ Other _____	Logged By: B Collier	W.L. @ ____ Dry ___ Ft. On Completion: Caved to ___0___ Ft.
creen From: ___55___ Ft. to ___75___ Ft.	Riser From ___0___ Ft. to ___55___ Ft.	Surface Completion ☐ Flush ☐ 2x2 Pad ☐ 4x4 Pad ☒ 6x6 Pad ☐ Other
Sand ___52___ Ft. to ___77___ Ft.; Bentonite ___49___ Ft. to ___52___ Ft.; Grout ___2___ Ft. to ___49___ Ft.		TD @ ___77___ Ft

LOG OF BORING MONITOR WELL MW-3

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: JJJ+83 38+99

ELEVATION: Top Pipe 485.65 Ground 483.12

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
5			Stiff to very stiff, tan and light gray CLAY (Weathered Taylor) with occasional iron staining and selenite crystals.
10			Selenite at 7'.
15			
20			
25			Selenite at 23'.
30			25.5' (CH) Hard, dark gray CLAY (Taylor Marl). Tan and light gray seam from 27' to 27.5'. Iron stain at 29.5'. No iron staining below 29.5'.
35			

7/27/95 26206.110

LOG OF BORING MONITOR WELL MW-3 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA — LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	ELEVATION:
			Hard, dark gray CLAY (Taylor Marl).	
40				
45				
50				
55			*Total Depth 55'*	(CH)
60				
65				
70				

7/27/95 26286.110

LOG OF BORING	Apex geoscience inc.	ENVIRONMENTAL SAMPLING
Project Number: 307-052	Name: Skyline Landfill	Boring No: MW-3R
Location/Description: IH-45, Ferris, Texas		Date: 8/27/2007

SILTS & SANDS	CONSISTENCY	COLORS	MATERIALS	SAND TYPE	CHARACTERISTICS
VLo- Very Loose Lo- Loose MDe – Medium Dense De – Dense VDe – Very Dense	Vso – Very Soft So – Soft Mst – Medium Stiff St – Stiff Vst – Very Stiff H - Hard	Bk – Black, Bl – Blue Br – Brown, Dk – Dark G – Gray, Gr – Green Li – Light, R – Red Rdish – Reddish Y-Yellow, W - White	Cl – Clay, Clayey Gr – Gravel Ls – Limestone Sa – Sand, Sandy SS – Sandstone Sh – Shale, Si – Silt, Silty SlS - Siltstone	F – Fine M – Medium Co – Coarse Sl - Silty	Calc – Calcareous Lam – Laminated Lig – Lignite Nod – Nodules Org – Organic Sm – Seam, Sl – Slightly Sls – Slickensided

SAMPLE #	DEPTH FT	CONDITION OR CONSISTENCY	COLOR	MINOR MATERIALS OR ADJECTIVES	PREDOMINATE MATERIAL	CHARACTERISTICS OR MODIFICATIONS	MOISTURE DESC.	PID LEVEL
	0	Mst	Li Br	Si	Cl	Org	Dry	
		"	"	"	"	Selentic crystals	"	
		"	Br	"	"	"	"	
		"	"	"	"	Calc	"	
	5	"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	Li Br	"	"	"	Moist	
		"	"	"	"	"	"	
	10	"	"	"	"	"	"	
		St	Dk G	"	"	Calc	Dry	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
	15	"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
	20	"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
	25	"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		Vst	Dk G	"	"	Fissile	"	
	30	"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
	35	"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	
		"	"	"	"	"	"	

Project Number: 307-052	Name: Skyline Landfill	Boring No: MW-3R
Location/Description: IH-45, Ferris, Texas		Date: 8/27/2007

SILTS & SANDS	CONSISTENCY	COLORS	MATERIALS	SAND TYPE	CHARACTERISTICS
VLo- Very Loose Lo- Loose MDe – Medium Dense De – Dense VDe – Very Dense	Vso – Very Soft So – Soft Mst – Medium Stiff St – Stiff Vst – Very Stiff H - Hard	Bk – Black, Bl – Blue Br – Brown, Dk – Dark G – Gray, Gr – Green Li – Light, R – Red Rdish – Reddish Y-Yellow, W - White	Cl – Clay, Clayey Gr – Gravel Ls – Limestone Sa – Sand, Sandy SS – Sandstone Sh – Shale, Si – Silt, Silty SiS - Siltstone	F – Fine M – Medium Co – Coarse Si - Silty	Calc – Calcareous Lam – Laminated Lig – Lignite Nod – Nodules Org – Organic Sm – Seam, Sl – Slightly Sls – Slickensided

SAMPLE #	DEPTH FT	CONDITION OR CONSISTENCY	COLOR	MINOR MATERIALS OR ADJECTIVES	PREDOMINATE MATERIAL	CHARACTERISTICS OR MODIFICATIONS	MOISTURE DESC.	PID	LEL
	40	Vst	Dk, G	Si	Cl	Fissile	Dry		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	45	"	Bl	"	"		"		
		"	"	"	"	Iron stain @ 47'	"		
		"	"	"	"	"	"		
		"	Bl	"	"	"	"		
	50	"	"	"	"	"	"		
		Vst	G	Si	Cl	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	55	"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
	60	H	Dk, G	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	"	"		
		"	"	"	"	TD – 63'	"		
	65								

COMPLETION RECORD

Type of Boring: ☒HSA ☐ Other _____	Logged By: B. Collier	W.L. @ Dry Ft. On Completion; Caved to 0 Ft.
Screen From: 41 Ft. to 61 Ft.	Riser From 0 Ft. to 41 Ft.	Surface Completion ☐ Flush ☐ 2x2 Pad ☐ 4x4 Pad ☒ 8x8 Pad ☐ Other
Sand 38 Ft. to 63 Ft.; Bentonite 35 Ft. to 38 Ft.; Grout 2 Ft. to 35 Ft.		TD @ 63 Ft.

LOG OF BORING MONITOR WELL MW-4

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: HHH+84 29+24

ELEVATION: Top Pipe 437.00 Ground 433.82

DEPTH, FT.	SOIL DESCRIPTION
5	Firm to stiff, tan CLAY (Weathered Taylor) with calcareous nodules.
10	Tan and gray below 9'.
	12.5' (CH)
15	Hard, dark gray CLAY (Taylor Marl).
	With iron stained vertical joint from 17' to 18'.
	No iron staining below 18'.
20	
25	Total Depth 25' (CH)
30	
35	

7/21/95 26086.110

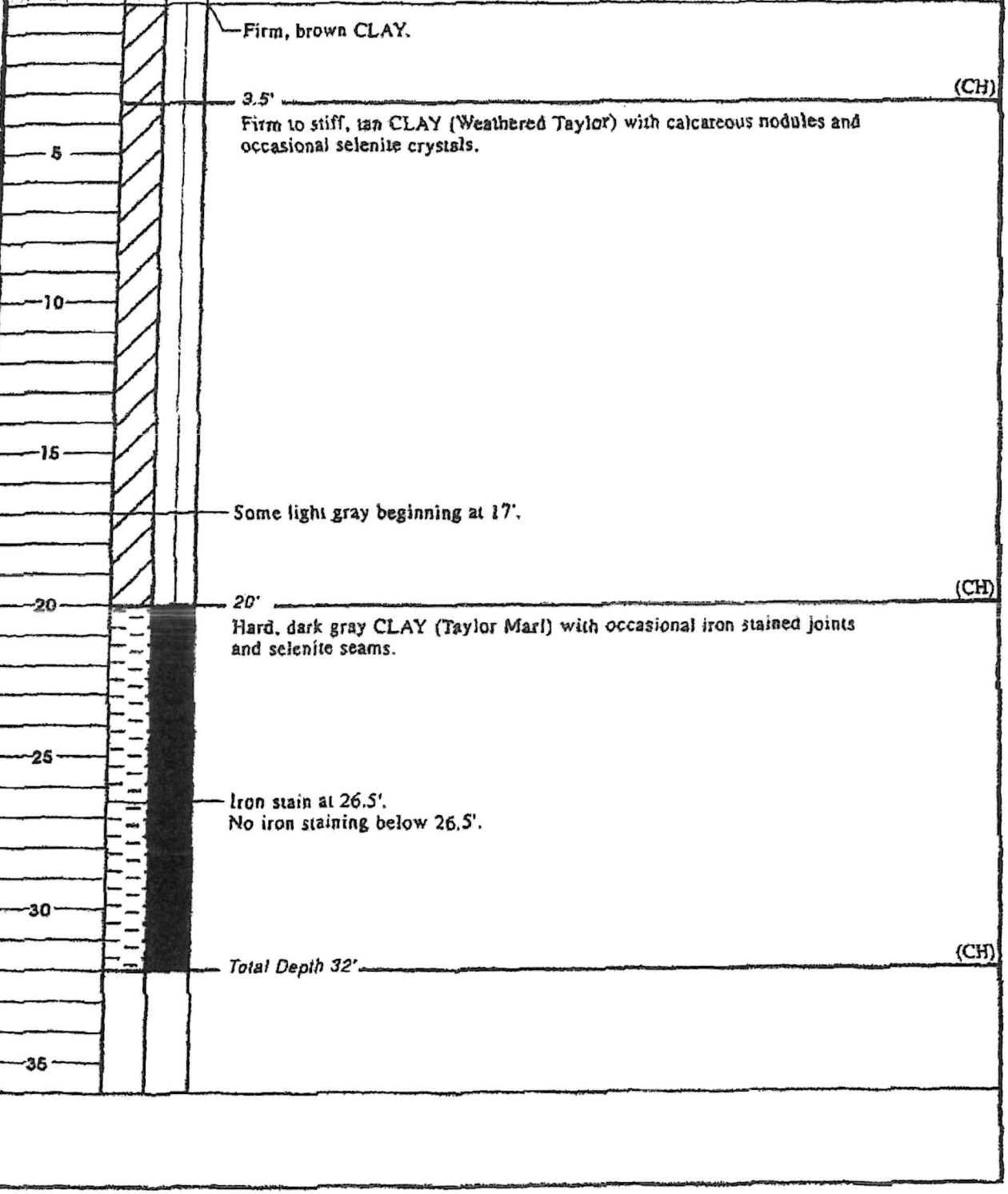
LOG OF BORING MONITOR WELL MW-5

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: LLL+34 20+75

ELEVATION: Top Pipe 425.14 Ground 421.92



LOG OF MONITORING WELL NO. MW-5R

Biggs and Mathews Environmental
1765 Roban Road, Suite 100
Mansfield, Texas 76063
Phone: 817-563-1141

Project Description: Skyline Landfill

1201 North Central Avenue, Ferris, Texas

Location: 32° 33' 10", 096° 41' 01"
E 2251549.383 N 323329.182

Surface El.: 421.56 ft. msl
Completion Depth: 20.6 ft.
Date Boring Started: 5/16/2020
Date Boring Completed: 5/16/2020

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			Clay, brown, firm									
			417.56									
5			Clay (marl), weathered, tan, with calcareous nodules, stiff									
10												
15												
			402.56									
20			Clay (marl), unweathered, grey, hard									
			401.56									
25												
30												
35												
40												
45												
50												

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
5923
LICENSED
PROFESSIONAL GEOSCIENTIST

6-30-2020

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

Contractor: H/ET
Method: Hollow Stem Auger
Sampling Method: Cuttings and Shelby Tube
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed well upon completion of borehole. Dry upon completion

The stratification lines represent approximate soil boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING MONITOR WELL MW-6

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: MMM+54 15+85

ELEVATION: Top Pipe 419.96 Ground 416.81

DEPTH, FT.	SOIL DESCRIPTION
	Firm to stiff, brown CLAY.
3'	(CH)
	Firm to stiff, tan CLAY (Weathered Taylor).
5	
	Tan and gray at 9'.
10	
12'	(CH)
	Hard, dark gray CLAY (Taylor Marl).
15	
20	
25	Total Depth 25' (CH)
30	
35	

7/27/95 20284.110

LOG OF BORING MONITOR WELL MW-7

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: 111+53, 14+64

ELEVATION: Top Pipe 432.67, Ground 429.73

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Firm, brown CLAY with occasional selenite crystals.
			Brown and tan below 4.5'.
5			3' (CH)
			Firm to stiff, tan CLAY (Weathered Taylor) with occasional selenite seams.
10			
			13' (CH)
			Hard, dark gray CLAY (Taylor Marl).
15			Iron stained joint at 13.5'.
			Iron stained joint from 16' to 16.5'.
			No iron staining below 16.5'.
20			
			Total Depth 25' (CH)
25			
30			
35			

7/27/05 2020a.110

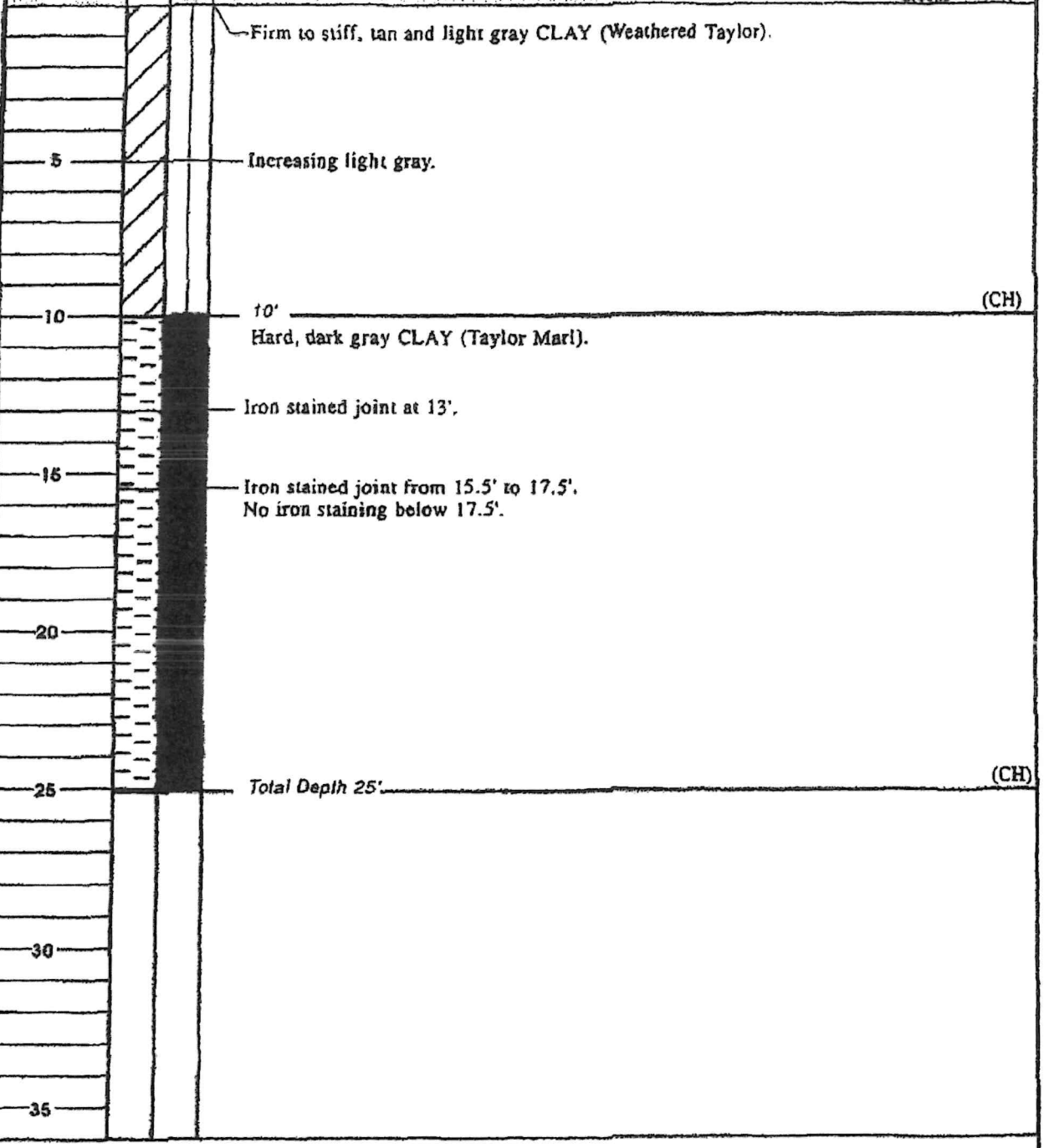
LOG OF BORING MONITOR WELL MW-8

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: WWW+74 18+12

ELEVATION: Top Pipe 447.06 Ground 444.06



DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Firm to stiff, tan and light gray CLAY (Weathered Taylor).
5			Increasing light gray.
10			10' (CH)
			Hard, dark gray CLAY (Taylor Marl).
			Iron stained joint at 13'.
15			Iron stained joint from 15.5' to 17.5'. No iron staining below 17.5'.
20			
25			Total Depth 25' (CH)
30			
35			

7/27/96 26286.110

LOG OF MONITORING WELL NO. MW-8R

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2252745.000 N 323997.600**

Top of Casing El.: **457.56 ft. msl**
Surface El.: **455.43 ft. msl**
Completion Depth: **12.5 ft.**
Date Boring Started: **7/20/15**
Date Boring Completed: **7/20/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, dark brown and brown, stiff									
5			- brown to dark brown, stiff to very stiff									
			446.43									
10			SHALE, unweathered, dark gray, hard									
			442.93									
15												
20												
25												
30												
35												
40												
45												
50												

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/22/15

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF BORING MONITOR WELL MW-9

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: F-03 17+62

ELEVATION: Top Pipe 421.64 Ground 418.19

DEPTH, FT.	SYMBOL	SAMPLE	SOIL DESCRIPTION
			Firm, dark brown CLAY with calcareous nodules.
5			Brown and tan at 6'. (CH)
			7.0' Firm, tan CLAY (Weathered Taylor) with calcareous nodules.
10			
15			Some light gray.
20			
25			
30			Tan and gray below 30'. (CH)
			33' Hard, dark gray CLAY (Taylor Marl).
35			

7/21/95 26288.110

LOG OF BORING MONITOR WELL MW-9 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA | LOCATION:

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	ELEVATION:
			Hard, dark gray CLAY (Taylor Marl).	
40			*Total Depth 40'*	(CH)
45				
50				
55				
60				
65				
70				

7/27/95 26286.110

LOG OF MONITORING WELL NO. MW-9R

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Location: **E 2253559.84 N 323889.59**

Top of Casing El.: **416.16 ft. msl**
Surface El.: **412.40 ft. msl**
Completion Depth: 44.5 ft.
Date Boring Started: 7/13/2022
Date Boring Completed: 7/13/2022

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			Clay, silty, dark brown and gray, hard									
			408.90									
5			Clay, brown, hard									
10												
15												
20												
25												
30												
35												
40												
			369.40									
45			Shale, dark gray, hard (Taylor Marl)									
			367.90									
50												

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

9/6/2022

Contractor: H/ET
Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Dry upon completion. Set HDPE - surface completion.

BME

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/31/22

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING MONITOR WELL MW-10

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: I-20 15+48

ELEVATION: Top Pipe 417.53 Ground 415.30

DEPTH, FT.	SAMPLE	SOIL DESCRIPTION
		Firm, dark brown CLAY with numerous calcareous nodules.
5		Brown and tan.
		6.0' (CH)
		Firm to stiff, tan CLAY (Weathered Taylor) with numerous calcareous nodules, iron staining, and some selenite crystals.
10		
15		
		Some light gray below 17'.
20		
25		
30		
35		

7/27/95 26293.110

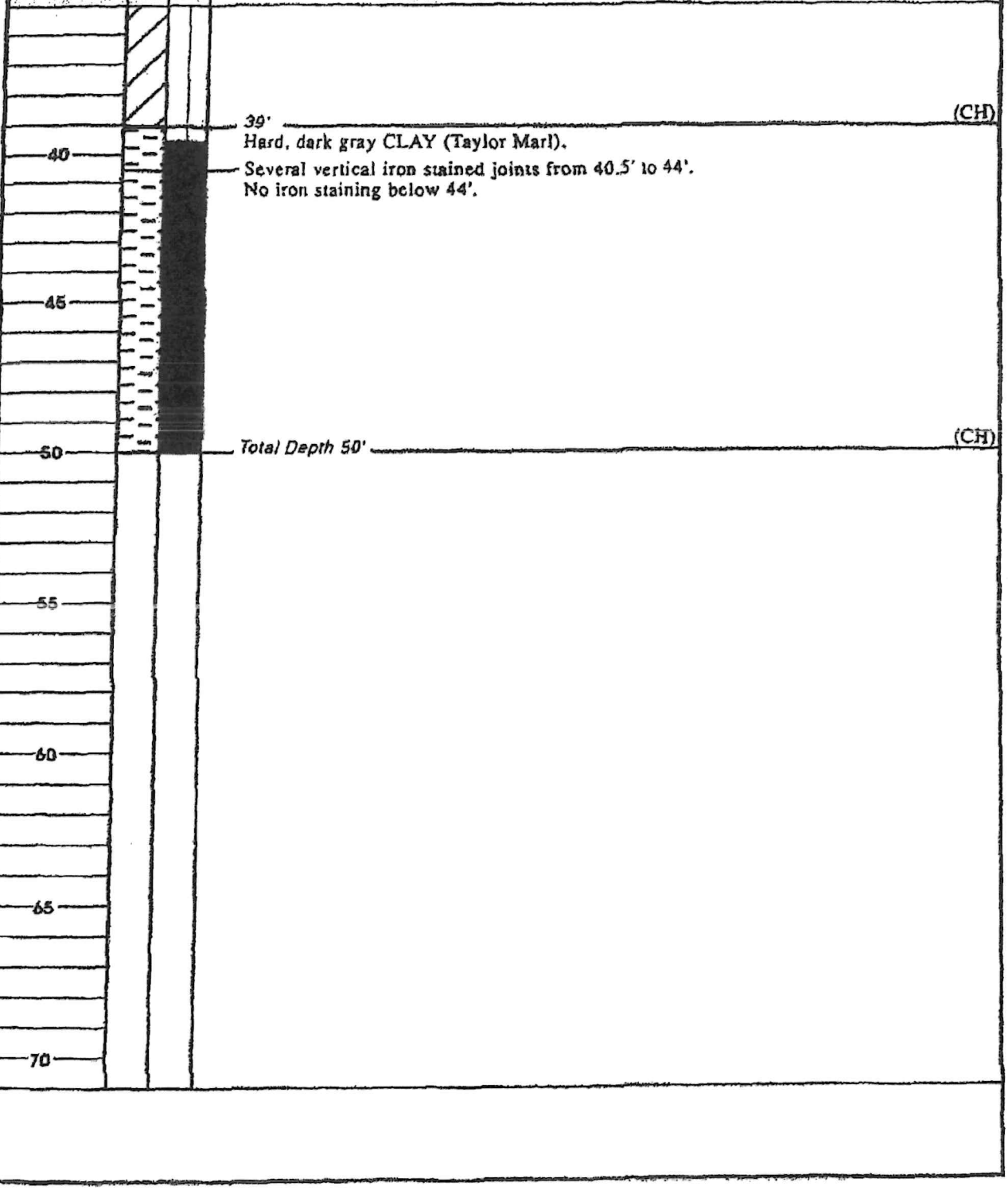
LOG OF BORING MONITOR WELL MW-10 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION:

ELEVATION:



1/27/95 26766.110

LOG OF MONITORING WELL NO. MW-10R

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Location: **E 2253831.51 N 323982.139**

Top of Casing El.: **410.83 ft. msl**
Surface El.: **408.50 ft. msl**
Completion Depth: 45.0 ft.
Date Boring Started: 9/5/2025
Date Boring Completed: 9/5/2025

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
0			Clay, dark brown and dark gray, with rootlets	
				404.50
5			Clay, brown to tan, with calcareous nodules, with ferrous stains	
10				
15				
20				
25				
30				
35				
40				
				364.50
45			Shale, unweathered, hard	363.50
50				

Contractor: **H/ET**
Method: **HSA**
Sampling Method: **Cuttings**
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.925**

Groundwater Observations

Date	Depth

Remarks: Installed monitoring well upon completion of borehole.

BME

SKYLINE 202- SKYLINE.GPJ B&M DATA TEMPLATE.GDT 9/25/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING MONITOR WELL MW-11

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: P+36 14+33

ELEVATION: Top Pipe 417.59 Ground 415.10

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
5			Firm, dark brown CLAY with calcareous nodules. (CH)
			5.0' Firm to stiff, tan and light gray CLAY (Weathered Taylor) with calcareous nodules.
10			
15			
20			
25			
30			
35			33.5' Hard, dark gray CLAY (Taylor Marl). (CH)

8/18/95 2628A.110

LOG OF BORING MONITOR WELL MW-11 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA | LOCATION:

DEPTH, FT.	SYMBOL	SAMPLE	SOIL DESCRIPTION	ELEVATION:
			Hard, dark gray CLAY (Taylor Marl).	
			Iron stained joint at 35' and 36'. No iron staining below 36'.	
40			*Total Depth 40'*	(CH)
45				
50				
55				
60				
65				
70				

8/18/95 26786.110

LOG OF MONITORING WELL NO. MW-11R

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2254605.000 N 323823.300**

Top of Casing El.: **426.10 ft. msl**
Surface El.: **423.37 ft. msl**
Completion Depth: **29.5 ft.**
Date Boring Started: **7/20/15**
Date Boring Completed: **7/20/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, dark brown and black, stiff									
5			- light brown and tan, stiff to very stiff									
10												
15												
20			- moisture									
25			395.37									
30			SHALE, unweathered, dark gray 393.87									
35												
40												
45												
50												

Drilling Contractor: H/ET
Drilling Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations

Date	Depth

Remarks: Installed monitoring well upon completion of borehole.

BIGGS & MATHEWS Consulting Engineers

LOG OF MONITORING WELL NO. MW-11R
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transitio gradual.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/22/15

LOG OF BORING MONITOR WELL MW-12

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: X+90 15+48

ELEVATION: Top Pipe 420.95 Ground 417.83

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Firm, dark brown CLAY.
5			*5.0'* (CH)
			Firm, tan and light gray CLAY (Weathered Taylor).
			8.0' (CH)
			Hard dark gray CLAY (Taylor Marl) with occassional iron stained joints and selenite crystals.
10			No iron staining or selenite below 10'.
15			
20			*Total Depth 22'* (CH)
25			
30			
35			

7/27/95 29286.110

LOG OF MONITORING WELL NO. MW-12R

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Location: **E 2255375.47 N 323841.87**

Top of Casing El.: **421.48 ft. msl**
Surface El.: **419.01 ft. msl**
Completion Depth: 21.5 ft.
Date Boring Started: 1/8/2026
Date Boring Completed: 1/9/2026

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
0			Clay, tan and light brown, with rootlets, *stiff*	
5				412.01
10			Shale, dark gray, unweathered, hard	
15				
20				397.51
25				
30				
35				
40				
45				
50				

Contractor: **H/ET**

Groundwater Observations	
Date	Depth

Remarks: Installed *monitoring* well upon completion of borehole.

BME

SKYLINE 2025 BORING LOGS SKYLINE.GPJ B&M DATA TEMPLATE.GDT 1/30/26

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING MONITOR WELL MW-13

WASTE MANAGEMENT OF TEXAS
MSW Permit 42-C
Dallas & Ellis County, Texas

TYPE OF BORING: HSA

LOCATION: Z+77 23+47

ELEVATION: Top Pipe 435.22 Ground 432.23

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Firm, brown CLAY with calcareous nodules and brick fragments.
			3.0' (Fill)
			Stiff, tan CLAY (Weathered Taylor) with occasional calcareous nodules.
5			
			Tan with light gray at 9'.
10			
			13.5' (CH)
			Hard, dark gray CLAY (Taylor Marl).
15			Iron stained joint at 15'.
			Iron stained joint at 17'. No iron staining below 17'.
20			
			Total Depth 25' (CH)
25			
30			
35			

1/21/95 20286.110

LOG OF MONITORING WELL NO. MW-13R

Biggs and Mathews Environmental, Inc.
1700 Robert Rd. Ste 100
Mansfield, TX 76063
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255548.054 N 322883.995**

Top of Casing El.: **457.07 ft. msl**
Surface El.: **454.92 ft. msl**
Completion Depth: **45.5 ft.**
Date Boring Started: **7/21/16**
Date Boring Completed: **7/21/16**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Monitoring Well Construction Details	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, *trace silt, light brown* and brown, stiff to hard. (Fill)										
5													
10													
15													
20			-CLAY, brown and grey, stiff to hard. (Fill)										
25													
30													
35													
40			-CLAY, grey and brown, stiff to hard. (Fill)										
			411.42										
45			SHALE, unweathered, dark grey, hard.										
			409.42										
50													

Drilling Contractor: H/ET
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Dry upon completion. Installed monitoring well.

3ME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/1/16

The stratification *lines represent approximate* strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

E2-285MWIR

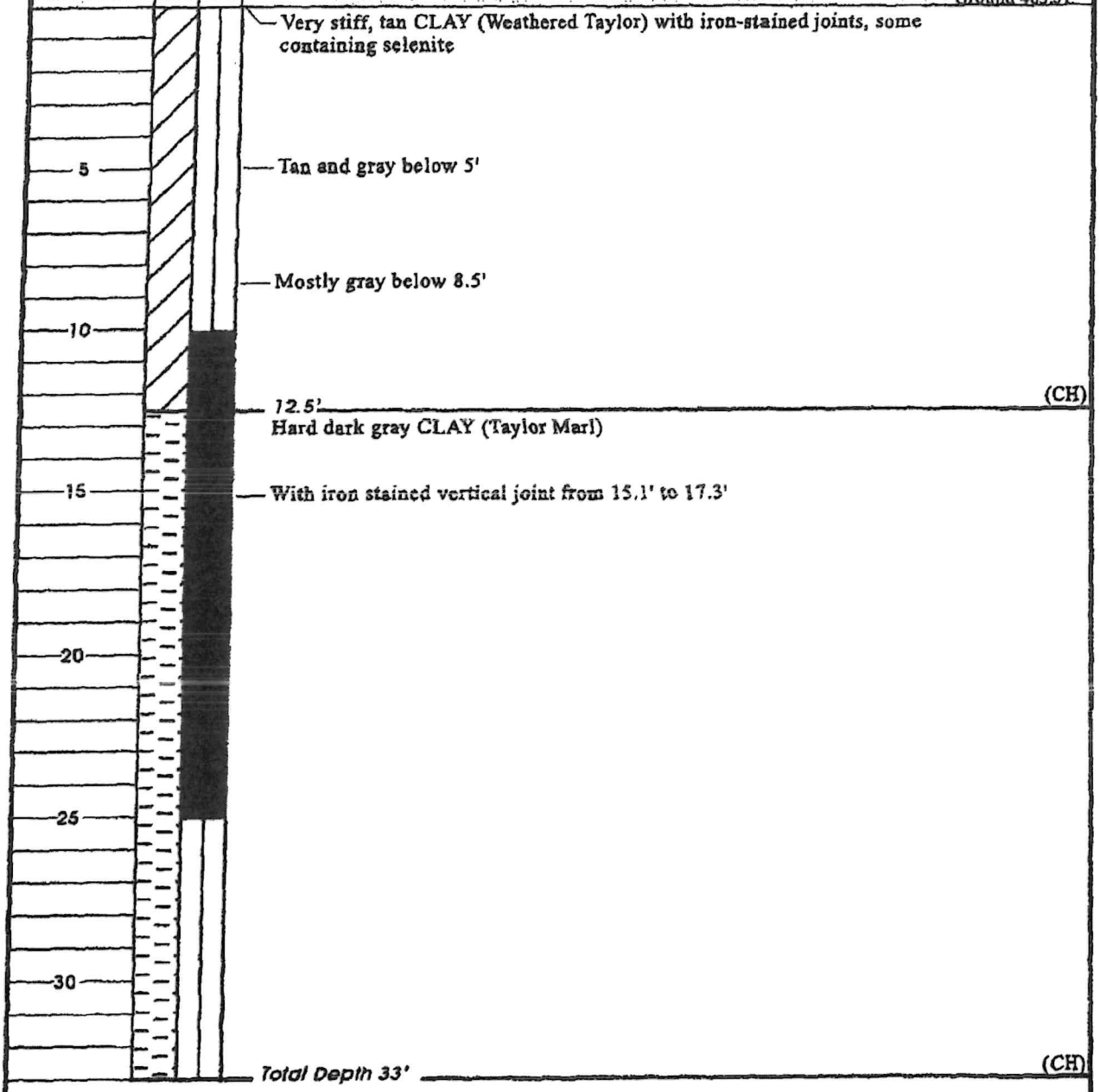
LOG OF BORING MONITORING WELL 14

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: GG+11.66 34+02.75

ELEVATION: Top Pipe 466.71 Ground 463.51



Notes:
1. Water not encountered during drilling.
2. Continuous core from 10' to 25'.
3. Completed as monitor well 9/20/94

9/30/94 26216.100

LOG OF BORING MONITORING WELL 15

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: NN+02,91 37+02,75

ELEVATION: Top Pipe 452.20 Ground 448.66

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Stiff, tan CLAY with calcaveous nodules and brick fragments (Fill)
			2' Very stiff tan and gray CLAY (Weathered Taylor) with occasional iron-stained joints
5			
			8' Hard dark gray CLAY (Taylor Marl) (CH)
10			
15			
20			
25			Total Depth 26' (CH)
30			
35			

Notes:
1. Water not encountered during drilling.
2. Continuous core from 10' to 25'.
3. Completed as monitor well 9/21/94

9/30/94 26286.100

LOG OF BORING MONITORING WELL 16

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: 00+95.01
50+21.93

ELEVATION: Top Pipe 449.56
Ground 446.36

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Stiff, tan CLAY
			Tan and gray from 2.5'
5			Gray from 6'
			Firm from 7.5', moisture content increasing
			9.5' (Fill)
10			Stiff gray CLAY (Weathered Taylor)
			12' (CH)
			Hard dark gray CLAY (Taylor Marl)
15			
20			
25			Total Depth 26' (CH)
30			
35			

Notes:
1. Water not encountered during drilling.
2. Continuous core from 12.5' to 25'.
3. Completed as monitor well 9/22/94

9/00/P4 26286.100

LOG OF BORING MONITORING WELL 17

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Augers / Undisturbed

LOCATION: CC+46.77
51+52.66

ELEVATION: Top Pipe 492.75
Ground 489.85

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Stiff, dark brown CLAY with light brown seams
5			(Fill)
			6' Stiff tan CLAY (Weathered Taylor) with calcareous nodules
10			
			Very stiff, gray and tan with occassional iron-stained joints with some selenite
15			
20			
25			
30			
35			

9/30/94 25286.100

LOG OF BORING MONITORING WELL 17 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: CC+46.77 51+52.66

ELEVATION: Top Pipe 492.75 Ground 489.85

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
40			With horizontal selenite seams from 38'
			Tan and dark gray from 41'
			(CH)
			44'
45			Hard, dark gray CLAY (Taylor Marl)
50			
55			
			(CH)
			Total Depth 59'
60			

Notes:
1. Free water encountered in selenite seam at 40'.
2. Continuous core from 37' to 45'.
3. Completed as monitor well 9/26/94

9/30/94 2926.100

LOG OF MONITORING WELL NO. MW-17R

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2255849.94 N 320230.27**

Top of Casing El.: **490.14 ft. msl**
Surface El.: **487.03 ft. msl**
Completion Depth: 56.0 ft.
Date Boring Started: 1/7/2026
Date Boring Completed: 1/8/2026

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
0			Clay, dark brown with light brown seams, stiff
5			481.03
			Clay, tan, with calcareous nodules, stiff
10			
15			
20			
25			
30			
35			
40			
			443.03
45			Shale, dark gray, unweathered, hard
50			

Contractor: **H/ET**

Groundwater Observations

Date	Depth

Remarks: Installed monitoring well upon completion of borehole.

BME

SKYLINE 2025 BORING LOGS SKYLINE.GPJ B&M DATA TEMPLATE.GDT 1/30/26

Continued Next Page

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF MONITORING WELL NO. MW-17R

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Location: **E 2255849.94 N 320230.27**

Top of Casing El.: **490.14 ft. msl**
Surface El.: **487.03 ft. msl**
Completion Depth: 56.0 ft.
Date Boring Started: 1/7/2026
Date Boring Completed: 1/8/2026

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION
55			Shale, dark gray, unweathered, hard *(continued)*
			431.03

Contractor: **H/ET**

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole.

BME

SKYLINE 2025 BORING LOGS SKYLINE.GPJ B&M DATA TEMPLATE.GDT 1/30/26

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF BORING MONITORING WELL 18

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: S+48.54 56+89.65

ELEVATION: Top Pipe 470.20 Ground 467.00

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION
			Very stiff, dark brown CLAY
			Stiff brown from 3'
5			(CH)
			7' Stiff tan CLAY (Weathered Taylor)
10			Tan and gray from 12'
15			
20			
			Occasional iron-stained seams with some selenite from 23'
25			
30			Dark gray and tan from 32'
35			

9/20/94 26280.100

LOG OF BORING MONITORING WELL 18 (cont.)

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: S+48.54 56+89.65

ELEVATION: Top Pipe 470.20 Ground 467.00

DEPTH, FT.	SYMBOL	SAMPLES	SOIL DESCRIPTION	
40				
			42'	(CH)
			Hard, dark gray CLAY (Taylor Marl) with occasional iron-stained seams	
45				
			Total Depth 49'	(CH)
50				
55				
60				

Notes:
1. Water not encountered during drilling.
2. Continuous core from 40'to 45'.
3. Completed as monitor well 9/26/94

9/20/94 26286.100

LOG OF BORING MONITORING WELL 19

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: 00+69.89
45+00.36

ELEVATIONS: Top Pipe 466.71
Ground 463.51

DEPTH, FT.	SOIL DESCRIPTION	
	Firm to stiff tan and brown CLAY with calcareous nodules and brick fragments	
5	Moist and turning gray below 7'	
	9.5'	(Fill)
10	Stiff tan CLAY (Weathered Taylor)	
	Very stiff, tan and gray, with iron-stained joints below 12'	
15		
	Mostly gray below 18.5'	
	19.5'	(CH)
20	Hard, dark gray CLAY (Taylor Marl)	
25		
30	*Total Depth 31'*	
35		

Notes:
1. Free water was observed during drilling between 15' and 20' bgs.
2. Continuous core from 20' to 30'.
3. Completed as monitor well 9/23/94.

9/30/94 2038A.100

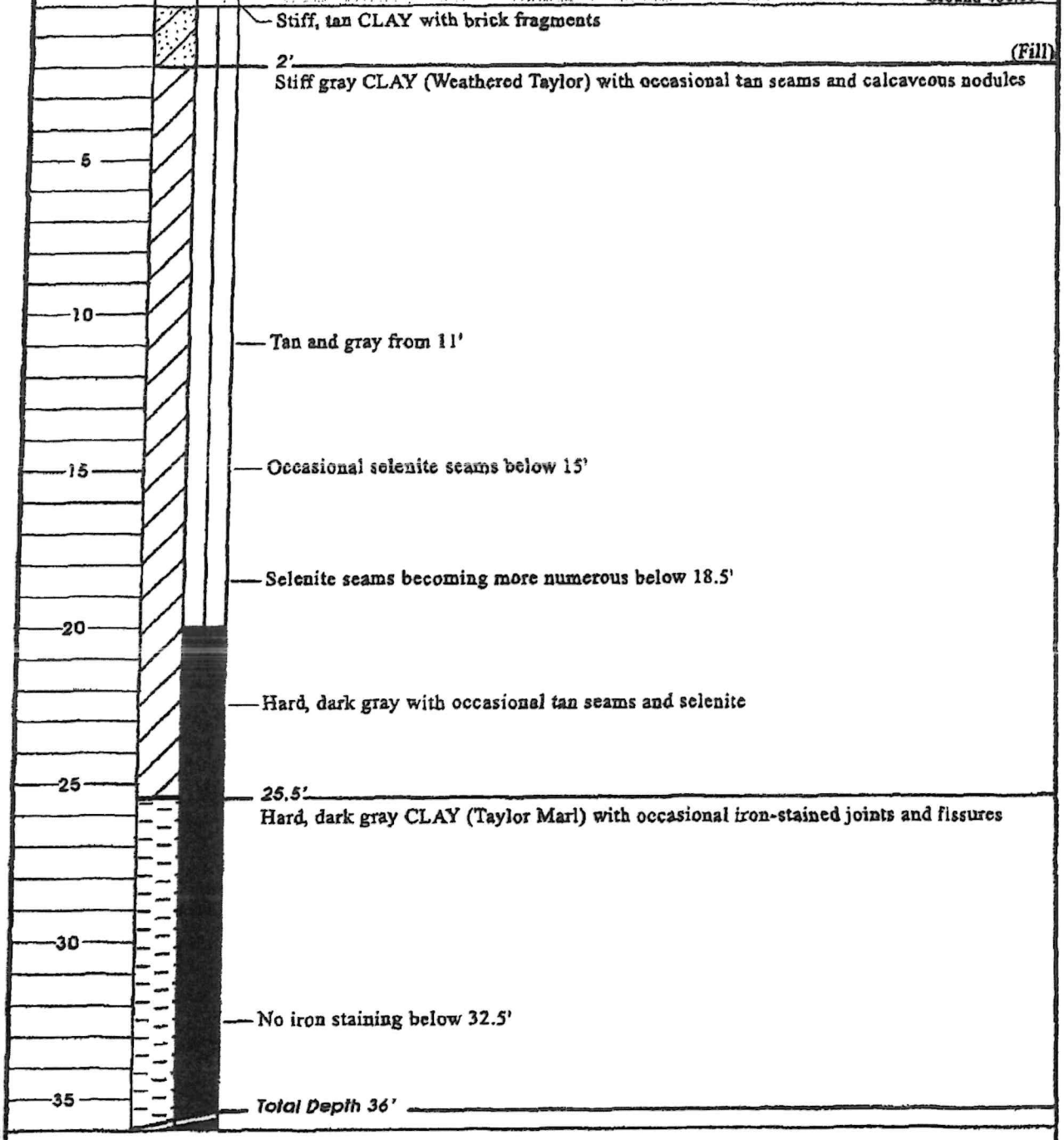
LOG OF BORING MONITORING WELL 20

WASTE MANAGEMENT OF TEXAS
MSW Permit 42A
Dallas & Ellis Counties, Texas

TYPE OF BORING: Auger / Undisturbed

LOCATION: II+94.61 62+82.82

ELEVATION: Top Pipe 469.04 Ground 466.00



Notes:
1. Water not encountered during drilling.
2. Continuous core from 20' to 37.5'.
3. Completed as monitor well 9/27/94

9/30/94 23284.100

Apex geoscience inc.

Client: Waste Management of Texas	Project Number: 303-063	MW No. 20R
Project: Waste Management of Texas		Sheet No. 1 of 1
Boring Depth (ft.): 36.0	Elevation: 464.63	Driller: J. Markle
Datum/Notes: See Plan of Boring		Starting Date: 10/20/03
		Ending Date: 10/20/03

Elev. (Feet)	Depth (Feet)	Lith-ology	Material Description	Well Detail	Comments	Samples	LEL Reading
			Stiff, tan, CLAY (CL), with brick fragments (fill)		Surface completion with locking cap & cover		
			Stiff, gray, CLAY (CL), weathered Taylor, with occasional tan seams and calcareous nodules		Bentonite seal & riser		
460	5				Riser with filter sand		
455	10		-tan and gray from 11'				
450	15		-occasional selenite seams below 15'				
			-Selenite seams becoming more numerous below 18.5'				
445	20				0.010 inch slotted 2" PVC screen with filter sand		
			-hard, dark gray with occasional tan seams and selenite				
440	25		Hard, dark gray, CLAY (CL), Taylor Marl, with occasional iron-stained joints and fissures				
435	30						
			-no iron staining below 32.5'				
430	35		DRY		Capped end of monitor well		
			Boring terminated at 36'				
425							

Project: Skyline Landfill
Dallas and Ellis Counties, Texas

Project Number: 0809-1377

BORING LOG
MW-21

Sheet 1 of 1

Location: See MW Installation Map
Surface El.: 412.2
Northing: 324124 Easting: 2252019

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows / Foot	Recovery %	RQD	Moisture Content, %	Unit Dry Weight, pcf	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	A1		CLAY, dark brown, soft, moist											
5	A2		5.5											
			CLAY, light brown & tan, stiff, dry											
10	A3													
15	A4		17.0											
			CLAY, tan, very stiff, dry											
20	A5		22.0											
			SHALE (Unweathered), gray, very stiff, dry											
25	A6		25.0											
30														
35														
40														

STATE OF TEXAS
THOMAS D. BAKER
40060
REGISTERED PROFESSIONAL ENGINEER

12-8-09

Thomas D Baker

Completion Depth: 25 ft
Date: 10/20/09

Remarks: Dry at completion.
Top of Casing El.: 414.90'

BORING LOG NO WORD FIGURE 1377 SKYLINE LOGS.GPJ LANDTEC.GDT 12/3/09

LANDTEC

Soil and rock descriptions on this boring log are a compilation of data collected in both the field and the laboratory. The stratification lines represent the approximate boundary between soil types and the transition can be gradual.

LOG OF MONITORING WELL NO. MW-21R

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2252013.000 N 323866.300**

Top of Casing El.: **419.25 ft. msl**
Surface El.: **416.65 ft. msl**
Completion Depth: **16.0 ft.**
Date Boring Started: **7/20/15**
Date Boring Completed: **7/20/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			SHALE, dark gray and brown, stiff									
5			- unweathered, dark gray, hard									
10												
15			400.65									
20												
25												
30												
35												
40												
45												
50												

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.



BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/22/15

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.

LOG OF MONITORING WELL NO. MW-21R

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2252014.400 N 323866.500**

Top of Casing El.: **431.94 ft. msl**
Surface El.: **429.10 ft. msl**
Completion Depth: 16.0 ft.
Date Boring Started: 7/20/2015
Date Boring Completed: 7/20/2015

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			SHALE, dark gray and brown, stiff									
5			- unweathered, dark gray, hard									
10												
15			413.10									
20												
25												
30												
35												
40												
45												
50												

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST
9/8/2022

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

Contractor: H/ET
Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BIGGS & MATHEWS

BME LOG SKYLINE... BM DATA TEMPLATE.GDT 10/13/21

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

Project: Skyline Landfill
Dallas and Ellis Counties, Texas

Project Number: 0809-1377

BORING LOG
MW-22

Sheet 1 of 1

Location: See MW Installation Map
Surface El.: 429.5
Northing: 323585 Easting: 2253083

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows / Foot	Recovery %	RQD	Moisture Content, %	Unit Dry Weight, pcf	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	A1		CLAY, brown & tan, stiff, moist											
5	A2													
			8.0											
			CLAY, brown & tan, stiff, dry to moist											
10	A3													
15	A4													
20	A5													
25	A6													
			29.5											
30	A7		SHALE (Unweathered), gray, very stiff, dry											
	A8		33.0											
35														
40														

STATE OF TEXAS
THOMAS D. BAKER
40060
REGISTERED
PROFESSIONAL ENGINEER
12-8-09

Completion Depth: 33 ft
Date: 10/20/09

Remarks: Dry at completion.
Top of Casing El.: 432.26'

LANDTEC

Soil and rock descriptions on this boring log are a compilation of data collected in both the field and the laboratory. The stratification lines represent the approximate boundary between soil types and the transition can be gradual.

BORING LOG NO WORD FIGURE L377 SKYLINE LOGS.GPJ LANDTEC.GDT 12/3/09

LOG OF MONITORING WELL NO. MW-22R

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2253089.000 N 323669.900**

Top of Casing El.: **421.75 ft. msl**
Surface El.: **419.65 ft. msl**
Completion Depth: **12.5 ft.**
Date Boring Started: **7/20/15**
Date Boring Completed: **7/20/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, brown and tan, very stiff									
			410.65									
10			SHALE, unweathered, dark gray, hard									
			407.15									

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/22/15

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF MONITORING WELL NO. MW-22R2

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Location: **E 2253165.15 N 323919.19**

Top of Casing El.: **416.30 ft. msl**
Surface El.: **413.58 ft. msl**
Completion Depth: 19.5 ft.
Date Boring Started: 7/13/2022
Date Boring Completed: 7/13/2022

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			Clay, dark gray, stiff (Fill)									
			409.58									
5			Clay, light gray and brown, weathered, hard									
10												
15			395.58									
			Shale, dark gray, hard (Taylor Marl)									
20			394.08									
25												
30												
35												
40												
45												
50												

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222
9/8/2022

Contractor: H/ET
Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Dry upon completion.

BME

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/31/22

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

Project: Skyline Landfill
Dallas and Ellis Counties, Texas

Project Number: 0809-1377

BORING LOG
MW-23

Sheet 1 of 1

Location: See MW Installation Map
Surface El.: 416.7
Northing: 323908 Easting: 2254227

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows / Foot	Recovery %	RQD	Moisture Content, %	Unit Dry Weight, pcf	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	A1		CLAY, brown, soft, moist											
5	A2													
10	A3													
15	A4													
20	A5													
25	A6													
30	A7		32.0											
35	A8		SHALE (Unweathered), gray, very stiff, dry 35.0											
40														

STATE OF TEXAS
THOMAS D. BAKER
40060
REGISTERED
PROFESSIONAL ENGINEER
12-8-09

Completion Depth: 35 ft
Date: 10/20/09

Remarks: Seepage observed at 32 ft. during drilling.
Top of Casing El.: 419.46'

BORING LOG NO WORD FIGURE 1377 SKYLINE LOGS.GPJ LANDTEC.GDT 12/3/09

LANDTEC

Soil and rock descriptions on this boring log are a compilation of data collected in both the field and the laboratory. The stratification lines represent the approximate boundary between soil types and the transition can be gradual.

LOG OF MONITORING WELL NO. MW-23R

Biggs and Mathews Environmental
1700 Robert Road, Ste 100
Mansfield, Texas 76063-5892
Phone: 817-563-1144

Project Description: **Skyline Landfill**

1201 North Central Avenue, Ferris, Texas

Location: **E 2254224.945 N 323987.373**

Top of Casing El.: **414.18 ft. msl**
Surface El.: **411.70 ft. msl**
Completion Depth: 50.0 ft.
Date Boring Started: 9/5/2025
Date Boring Completed: 9/5/2025

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	
0			Clay, tan to light brown, with calcareous nodules	407.20
5			Clay, brown to light brown, with calcareous nodules	
45				364.70
50			Shale, dark gray, unweathered, hard	361.70

Contractor: H/ET
Method: HSA
Sampling Method: Cuttings
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.925

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion

SKYLINE 2024 SKYLINE.GPJ B&M DATA TEMPLATE.GDT 9/23/25

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

Project: Skyline Landfill
Dallas and Ellis Counties, Texas

Project Number: 0809-1377

BORING LOG
MW-24

Sheet 1 of 1

Location: See MW Installation Map
Surface El.: 421.6
Northing: 323900 Easting: 2255000

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows / Foot	Recovery %	RQD	Moisture Content, %	Unit Dry Weight, pcf	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, brown, soft, moist w/reddish brown sandstone (brick) 2.0											
			CLAY, brown & tan, soft, moist											
5														
10														
15			17.0											
			SHALE (Unweathered), gray, very stiff, dry											
20			20.0											
25														
30														
35														
40														

STATE OF TEXAS
THOMAS D. BAKER
40060
REGISTERED
PROFESSIONAL ENGINEER

12-8-09

Completion Depth: 20 ft
Date: 11/9/09

Remarks: Seepage observed at 17 ft. during drilling.
Top of Casing El.: 424.62'

BORING LOG NO WORD FIGURE 1377 SKYLINE LOGS.GPJ LANDTEC.GDT 12/3/09

LANDTEC

Soil and rock descriptions on this boring log are a compilation of data collected in both the field and the laboratory. The stratification lines represent the approximate boundary between soil types and the transition can be gradual.

Project: Skyline Landfill
Dallas and Ellis Counties, Texas

Project Number: 0809-1377

BORING LOG
MW-25

Sheet 1 of 1

Location: See MW Installation Map
Surface El.: 459.5
Northing: 322022 Easting: 2255727

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows / Foot	Recovery %	RQD	Moisture Content, %	Unit Dry Weight, pcf	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
	A1		CLAY, brown & tan, soft, moist (FILL)											
			3.0											
			CLAY, shaly, brown & tan, soft, dry (POSSIBLE FILL)											
5	A2													
	A3													
10														
			13.0											
			CLAY, tan, stiff, moist											
	A4													
15														
	A5													
20														
			22.0											
			CLAY, gray & brown, shaly, stiff, moist											
	A6													
25														
	A7													
30														
			32.0											
			SHALE (Unweathered), gray, very stiff, dry											
	A8													
35			35.0											
40														

STATE OF TEXAS
THOMAS D. BAKER
40060
REGISTERED
PROFESSIONAL ENGINEER
12-8-09

Completion Depth: 35 ft
Date: 10/20/09

Remarks: Dry at completion.
Top of Casing El.: 462.33'

LANDTEC

Soil and rock descriptions on this boring log are a compilation of data collected in both the field and the laboratory. The stratification lines represent the approximate boundary between soil types and the transition can be gradual.

BORING LOG NO WORD FIGURE 1377 SKYLINE LOGS.GPJ LANDTEC.GDT 12/3/09

Project: Skyline Landfill
Dallas and Ellis Counties, Texas

Project Number: 0809-1377

BORING LOG
MW-26

Sheet 1 of 1

Location: See MW Installation Map
Surface El.: 448.1
Northing: 321909 Easting: 2256556

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows / Foot	Recovery %	RQD	Moisture Content, %	Unit Dry Weight, pcf	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0	A1		CLAY, brown, stiff, moist											
5	A2													
			7.0											
			SHALY CLAY, gray & tan, very stiff											
10	A3													
			13.0											
			SHALY CLAY, gray, very stiff, dry w/gray shale layers											
15	A4													
			17.0											
			SHALE (Unweathered), gray, very stiff, dry											
20	A5		20.0											
25														
30														
35														
40														

STATE OF TEXAS
THOMAS D. BAKER
40060
REGISTERED
PROFESSIONAL ENGINEER

12-8-09

Completion Depth: 20 ft
Date: 9/29/09

Remarks: Dry at completion.
Top of Casing El.: 451.06'

BORING LOG NO WORD FIGURE 1377 SKYLINE LOGS.GPJ LANDTEC.GDT 12/3/09

LANDTEC

Soil and rock descriptions on this boring log are a compilation of data collected in both the field and the laboratory. The stratification lines represent the approximate boundary between soil types and the transition can be gradual

LOG OF MONITORING WELL NO. MW-27

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2251746.216 N 321173.141**

Top of Casing El.: **482.59 ft. msl**
Surface El.: **480.25 ft. msl**
Completion Depth: **37.5 ft.**
Date Boring Started: **7/21/15**
Date Boring Completed: **7/21/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			(Fill) CLAY, dark gray and tan, very stiff									
			478.25									
			CLAY, brown to light brown, stiff									
5			472.25									
			CLAY, tan and light brown, stiff to very stiff									
10												
15												
20												
25												
30			- dark brown below 30'									
35			444.25									
			SHALE, unweathered, dark gray, hard									
			442.75									
40												
45												
50												

Drilling Contractor: H/ET
Drilling Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/14/15

LOG OF MONITORING WELL NO. MW-27
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF MONITORING WELL NO. MW-28

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2251182.569 N 322020.214**

Top of Casing El.: **449.26 ft. msl**
Surface El.: **446.88 ft. msl**
Completion Depth: **14.5 ft.**
Date Boring Started: **7/21/15**
Date Boring Completed: **7/21/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, brown and light brown, stiff to very stiff									
			433.88									
			SHALE, unweathered, dark gray, hard									
			432.38									

Drilling Contractor: H/ET
Drilling Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.



BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/14/15

LOG OF MONITORING WELL NO. MW-28
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF MONITORING WELL NO. MW-29

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2255488.000 N 323432.300**

Top of Casing El.: **434.91 ft. msl**
Surface El.: **432.57 ft. msl**
Completion Depth: **18.0 ft.**
Date Boring Started: **7/20/15**
Date Boring Completed: **7/20/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION		Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, light brown and tan, *stiff to very stiff*										
				415.57									
			SHALE, unweathered, dark gray, hard	414.57									

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/22/15

LOG OF MONITORING WELL NO. MW-29
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF MONITORING WELL NO. MW-29R

Biggs and Mathews Environmental, Inc.
1700 Robert Rd. Ste 100
Mansfield, TX 76063
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255470.160 N 323420.650**

Top of Casing El.: **442.23 ft. msl**
Surface El.: **439.60 ft. msl**
Completion Depth: **22.0 ft.**
Date Boring Started: **6/20/16**
Date Boring Completed: **6/20/16**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Monitoring Well Construction Details	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, light brown, stiff. (Fill)										
5			-light brown and brown, stiff. (Fill)										
10													
15			-light brown and brown, stiff. (Fill)										
20			416.60										
			SHALE, dark grey, unweathered, hard, dry. 417.60										
25													
30													
35													
40													
45													
50													

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Dry upon completion. Installed monitoring well.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/26/16

LOG OF MONITORING WELL NO. MW-29R
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

E2-286MWR

LOG OF MONITORING WELL NO. MW-30

Biggs and Mathews Environmental, Inc.
1700 Robert Rd. Ste 100
Mansfield, TX 76063
Phone: 817-563-1144

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255510.879 N 322350.975**

Top of Casing El.: **437.29 ft. msl**
Surface El.: **434.85 ft. msl**
Completion Depth: **14.5 ft.**
Date Boring Started: **7/20/15**
Date Boring Completed: **7/20/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, light brown and tan, stiff to very stiff									
			421.85									
			SHALE, unweathered, dark gray, hard									
			420.35									

5 10 15 20 25 30 35 40 45 50

Drilling Contractor: H/ET
Drilling Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 9/1/15

The stratification lines represent appro ı boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

LOG OF MONITORING WELL NO. MW-30R

Biggs and Mathews Environmental, Inc.
1700 Robert Rd. Ste 100
Mansfield, TX 76063
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2255440.820 N 322364.140**

Top of Casing El.: **459.42 ft. msl**
Surface El.: **456.76 ft. msl**
Completion Depth: **39.0 ft.**
Date Boring Started: **6/20/16**
Date Boring Completed: **6/20/16**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Monitoring Well Construction Details	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, light brown and brown, stiff. (Fill)										
5													
10			-dark greenish brown, stiff. (Fill)										
15													
20			-dark greenish brown and brown, stiff. (Fill)										
25			-dark green and brown, stiff. (Fill)										
30													
35													
				418.76									
			SHALE, grey, dark, unweathered, hard.	417.76									
40													
45													
50													

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Dry upon completion. Installed monitoring well.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 7/26/16

LOG OF MONITORING WELL NO. MW-30R
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual.
LOGS ARE NOT INTENDED TO BE USED SEPARATELY FROM THE ORIGINAL REPORT.

E2-287MWIR

LOG OF MONITORING WELL NO. MW-31

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2257003.961 N 321214.412**

Top of Casing El.: **440.81 ft. msl**
Surface El.: **438.23 ft. msl**
Completion Depth: **11.0 ft.**
Date Boring Started: **7/21/15**
Date Boring Completed: **7/21/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, light gray and brown, stiff 435.73									
5			CLAY, light brown and brown, stiff 431.23									
10			SHALE, unweathered, dark gray, hard 427.23									
15												
20												
25												
30												
35												
40												
45												
50												

Drilling Contractor: H/ET
Drilling Method:
Sampling Method:
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

BIGGS & MATHEWS Consulting Engineers

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/14/15

The stratification lines represent approximate strata boundaries. In situ, the transitio gradual.

LOG OF MONITORING WELL NO. MW-32

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2257126.358 N 319903.208**

Top of Casing El.: **451.41 ft. msl**
Surface El.: **449.45 ft. msl**
Completion Depth: **18.0 ft.**
Date Boring Started: **7/21/15**
Date Boring Completed: **7/21/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			CLAY, light brown and brown, stiff									
16.5			432.95									
			SHALE, unweathered, dark gray, hard									
18.0			431.45									

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Dry upon completion.

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF MONITORING WELL NO. MW-33

Project Description: **Skyline Recycling and Disposal Facility**
1201 North Central Avenue, Ferris, Texas

Biggs & Mathews Environmental, Inc.
1700 Robert Road, Suite 100
Mansfield, TX 76063
Phone: 817-563-1144
Fax: www.biggsandmathews.com

Location: **E 2257144.015 N 319325.449**

Top of Casing El.: **452.75 ft. msl**
Surface El.: **450.15 ft. msl**
Completion Depth: **18.5 ft.**
Date Boring Started: **7/22/15**
Date Boring Completed: **7/22/15**

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
			CLAY, light brown and tan, with rootlets, stiff									
			448.15									
5			CLAY, brown and tan, stiff to very stiff									
10												
15			433.15									
			SHALE, unweathered, dark gray, hard									
			431.65									
20												
25												
30												
35												
40												
45												
50												

Drilling Contractor: **H/ET**
Drilling Method:
Sampling Method:
Geologist/Engineer: **S. Stamoulis**
Project No.: **101.01.120**

Groundwater Observations

Date	Depth

Remarks: Installed monitoring well upon completion of borehole.

BME LOG SKYLINE.GPJ B&M DATA TEMPLATE.GDT 8/14/15

LOG OF MONITORING WELL NO. MW-33
PAGE 1 OF 1

The stratification lines represent approximate strata boundaries. In situ, the transitic gradual.

LOG OF MONITORING WELL NO. MW-34

Biggs & Mathews
1700 Robert Road Ste 100
Mansfield, TX 76063
Phone: 817-563-1144

Project Description: **Skyline Landfill**
1201 North Central Avenue, Ferris, Texas

Location: **E 2251235.530 N 322962.820**

Top of Casing El.: **435.12 ft. msl**
Surface El.: **432.50 ft. msl**
Completion Depth: 40.0 ft.
Date Boring Started: 10/5/2018
Date Boring Completed: 8/1/2019

Depth, feet	Samples	Symbol / USCS	MATERIAL DESCRIPTION	Monitoring Well Construction Details	Hand Penetrometer, tsf	Penetration Blows/Foot	Moisture Content, %	Unit Dry Weight, lb/cu ft.	Liquid Limit	Plastic Limit	Plasticity Index	% Passing No. 200 Sieve	Unc. Compressive Strength, tsf
0			(FILL)										
			423.50										
10			Clay, light gray, with calcareous nodules, sitff to very stiff										
			417.50										
15			Clay, tan to light gray, hard										
20													
25													
30													
35			396.50										
			Clay (marl), unweathered, dark gray, hard										
40			392.50										
45													
50													

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

9-11-2019

Biggs & Mathews Environmental, Inc.
Firm Registration No. 50222

Drilling Contractor: H/ET
Drilling Method: Hollow Stem Auger
Sampling Method: Cuttings
Geologist/Engineer: S. Stamoulis
Project No.: 101.01.120

Groundwater Observations	
Date	Depth

Remarks: Installed monitoring well upon completion of borehole. Cemented protective casing. Set concrete pad on 8/1/19

BIGGS & MATHEWS Consulting Engineers

PJ B&M DATA TEMPLATE.GDT 8/20/19
BME LOG SKY

LOG OF MONITORING WELL NO. MW-34
PAGE 1 OF 1
The stratification lines represent approximate strata boundaries. In situ, the transition may be gradual

MONITORING WELL DATA SHEETS

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 10/5/18
Monitor Well Latitude: 32°32'33.7" Longitude: 96°40'37.01"
Monitor Well Groundwater Gradient Position:
Upgradient X Downgradient

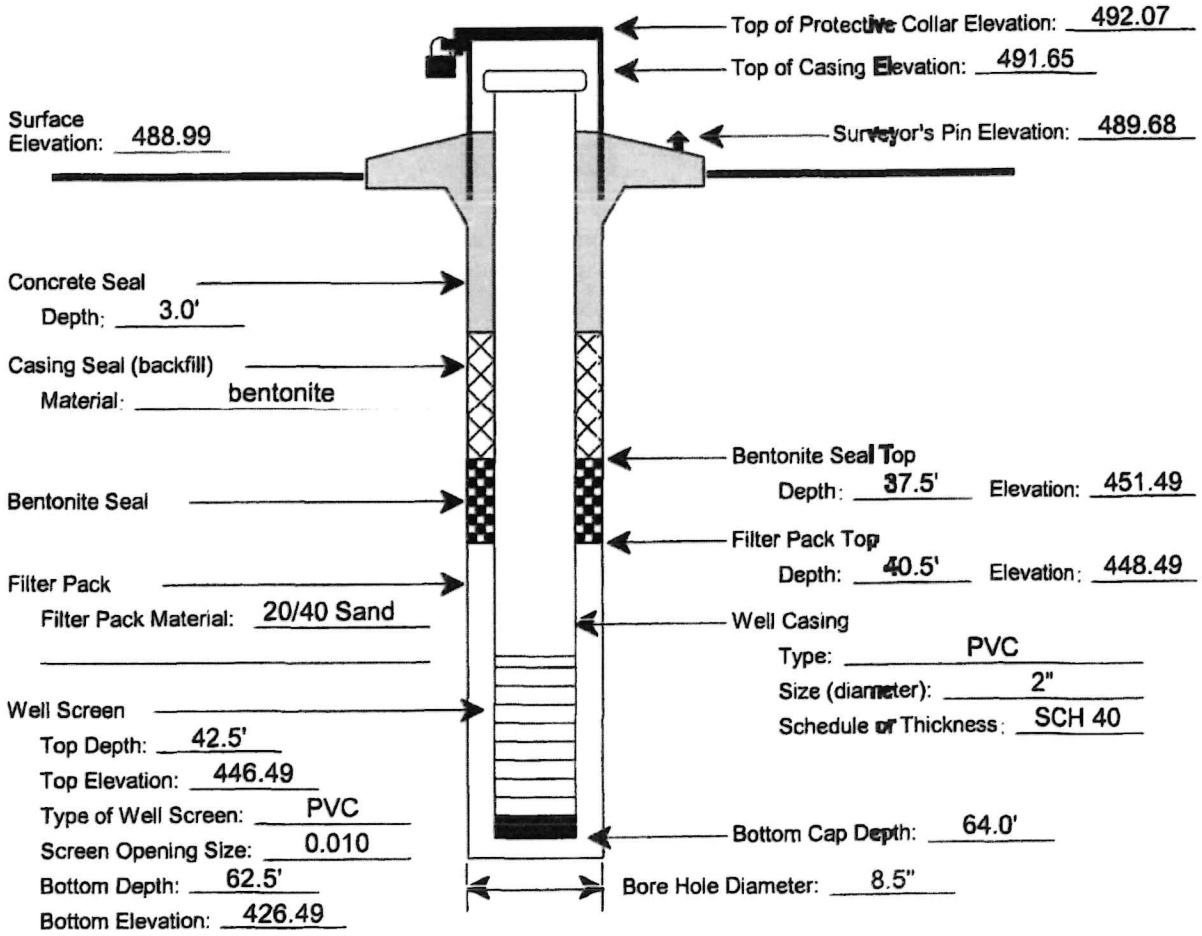
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-1R
Date of Monitor Well Development: 8/1/19
Monitor Well Driller Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: 431.55
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: PVC
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6' x 6"



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 8/23/07
Monitor Well Latitude: 32°32'44.6" Longitude: 96°40'55.9"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

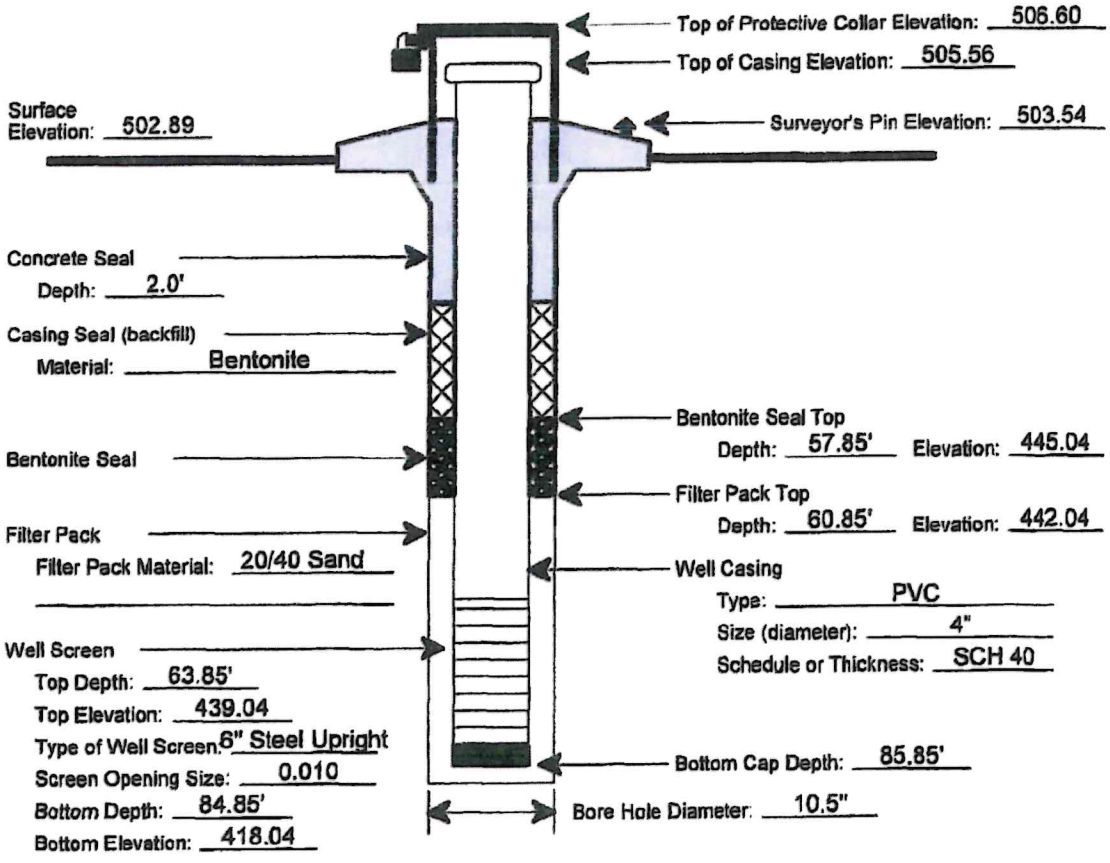
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-2R
Date of Monitor Well Development: 8/23/07
Monitor Well Driller
Name: Bufford Collier
License No.: 50089M

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Timothy L. McDaniel, P.E., P.G.
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6x6x6



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 8/23/07
Monitor Well Latitude: 32°32'52.7" Longitude: 96°41'3.1"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

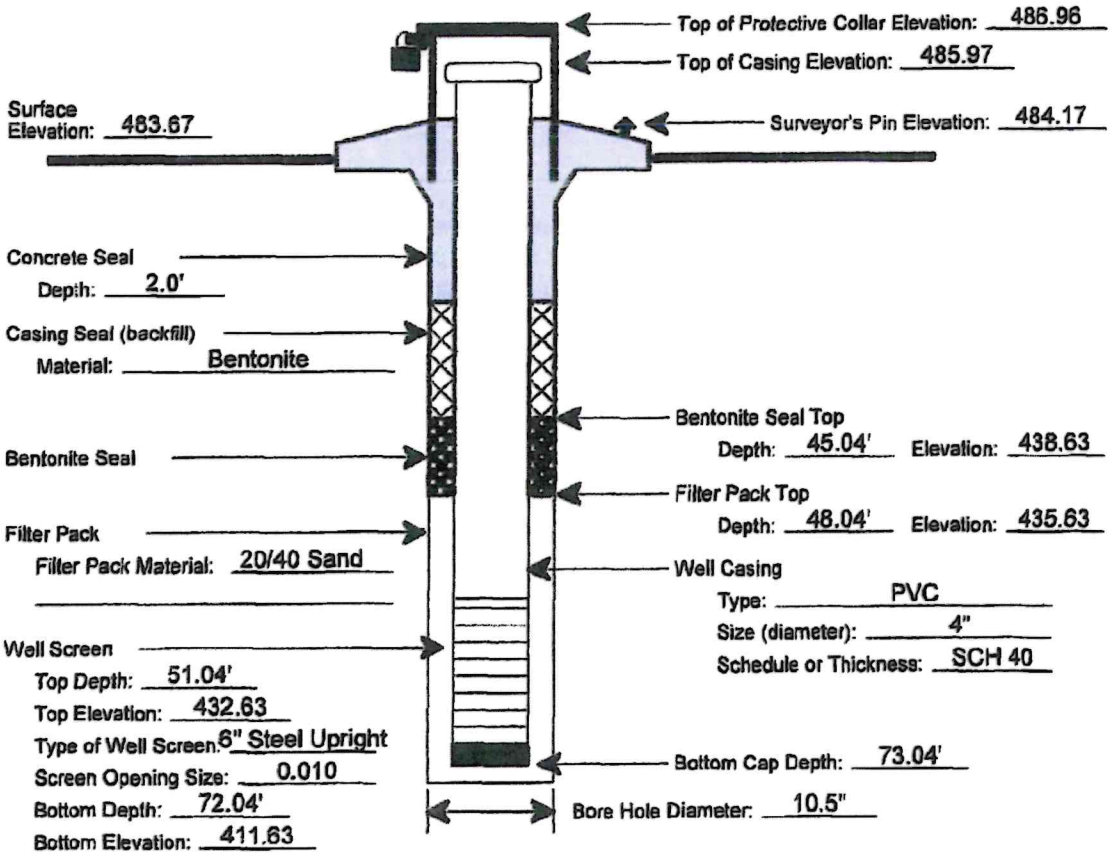
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-3R
Date of Monitor Well Development: 8/23/07
Monitor Well Driller Name: Bufford Collier
License No.: 50089M

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Timothy L. McDaniel, P.E., P.G.
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6x6



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 5/12/95
Monitor Well Latitude: _____ Longitude: _____
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

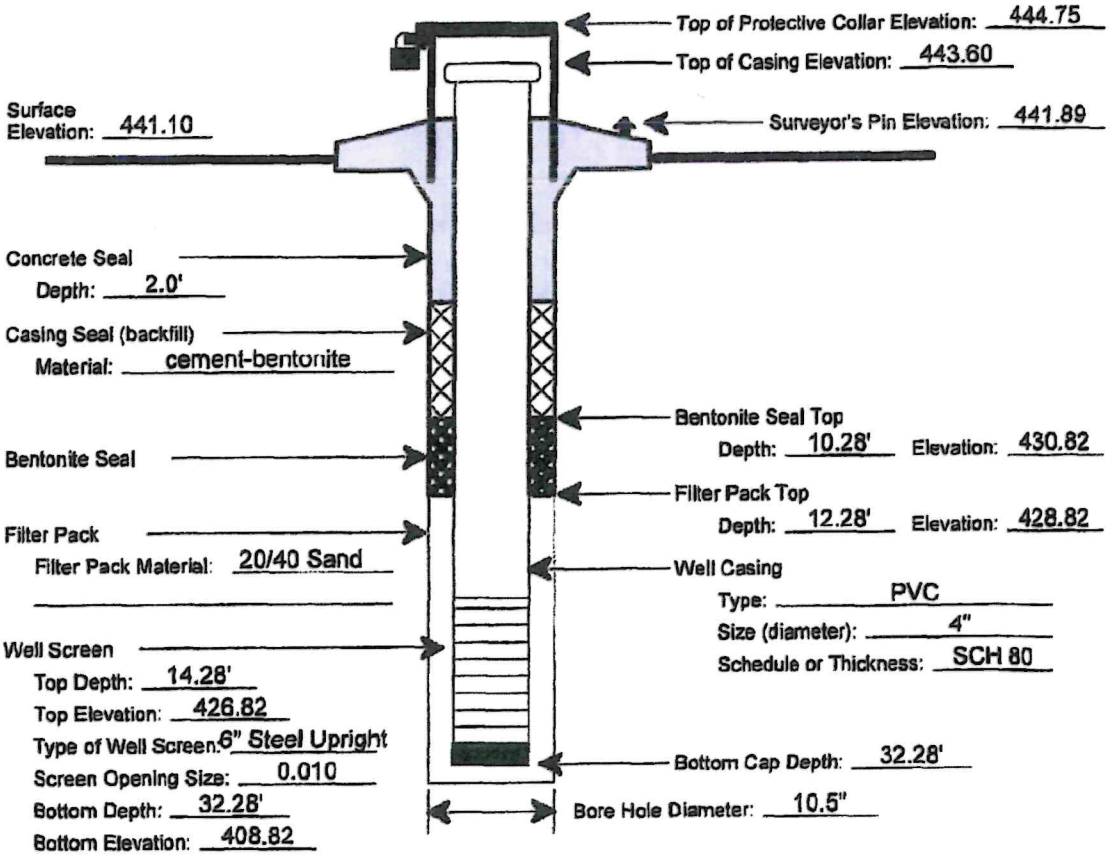
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-4
Date of Monitor Well Development: 5/12/95
Monitor Well Driller Name: William P. McGuire
License No.: 2763M

NOTES:

- Report all depths from *Surface Elevation* and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- *Use flush screw joint casing only*, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and *conductivity* are stable.

Geologist, Hydrologist, or *Engineer Supervising* Well Installation: Pierce L. Chandler, Jr., P. E.
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6x6



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 5/15/20
Monitor Well Latitude: 32°33'10" Longitude: 96°41'1"
Monitor Well Groundwater Gradient Position:
Upgradient X Downgradient

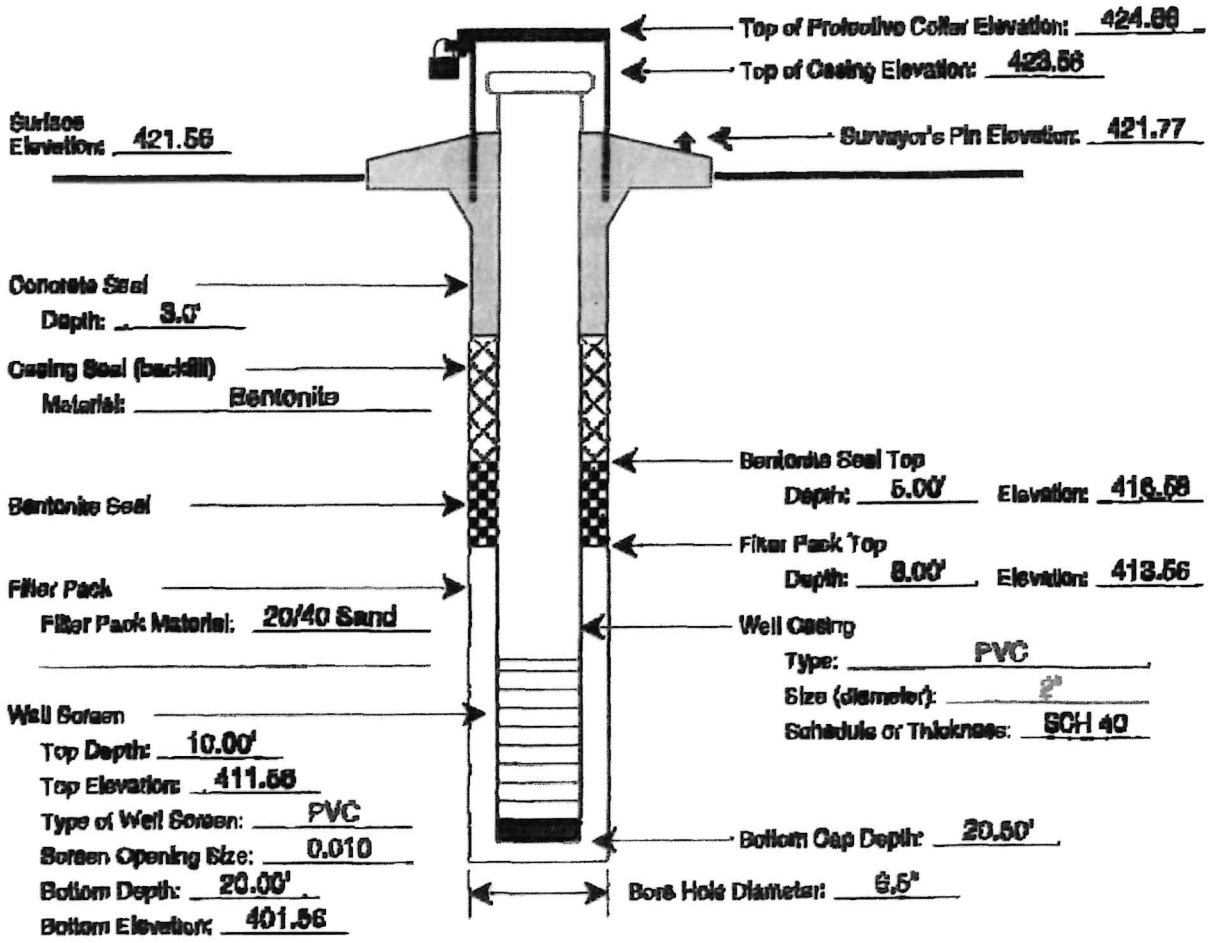
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-6R
Date of Monitor Well
Development: 5/15/20
Monitor Well Driller
Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development:
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6x6



TCEQ-10555

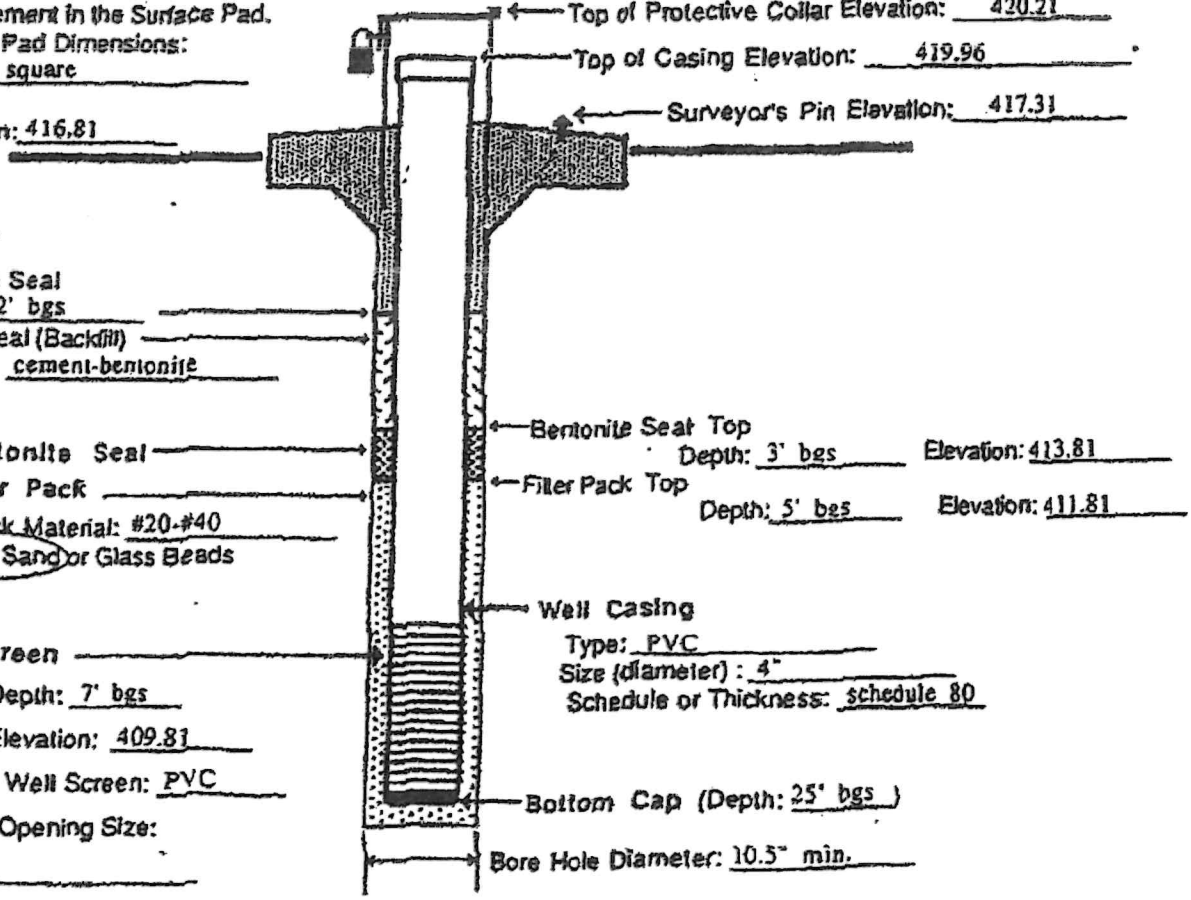
A. Monitor Well Data Sheet

Texas Department of Health
Division of Solid Waste Management
SE. 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF
TDH Permit No. : 42-C
County: Dallas and Ellis Counties
Monitor Well I.D. No.: MW-6
Date of Monitor Well Installation: 5-11-95
Date of Monitor Well Development: *
Monitor Well: State Plane N: 323815.262 E: 2251654.426
Monitor Well Groundwater Gradient: Upgradient ___ Downgradient ✓ Cross-Gradient ___
Monitor Well Driller Name: William P. McGuire
License No.: 2763M

NOTE:
(A) The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimun distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.
Static Water Level Elevation (with respect to MSL) after Well Development : *
Name of Geologic Formation(s) in which Well is completed: Taylor Marl
Type of Locking Device: Padlock
Type of Casing Protection: 6" Steel Tube
Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions: 6' x 6' square
Surface Elevation: 416.81



* *Trace of water in well at EL.394.81.*

A. Monitor Well Data Sheet

Texas Department of Health
Division of Solid Waste Management
SE 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF

TDH Permit No. : 42-C

County: Dallas and Ellis Counties

Monitor Well I.D. No.: MW-7

Date of Monitor Well Installation: 5-10-95

Date of Monitor Well Development: *

Monitor Well: State Plane N: 323936.083 E: 2252352.735

Monitor Well Groundwater Gradient: Upgradient ___ Downgradient ✓ Cross-Gradient ___

Monitor Well Driller Name: William P. McGuire

License No.: 2763M

NOTE:

(A) The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimun distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.

Static Water Level Elevation (with respect to MSL) after Well Development : *

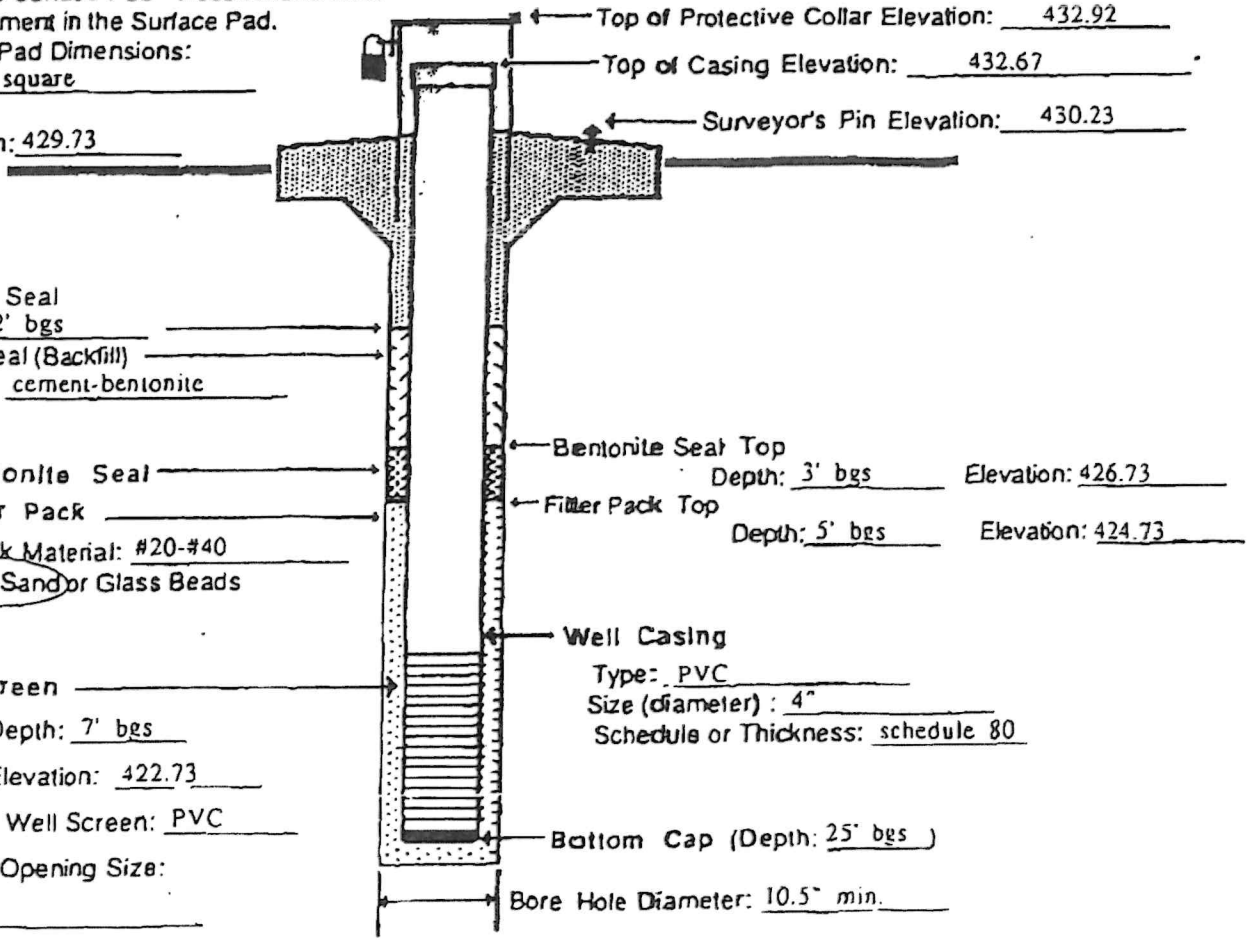
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock

Type of Casing Protection: 6" Steel Tube

Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions: 6' x 6' square

Surface Elevation: 429.73



* No water in well through 7-25-95.

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 7/20/15
Monitor Well Latitude: 32°33'16.8" Longitude: 96°40'48"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

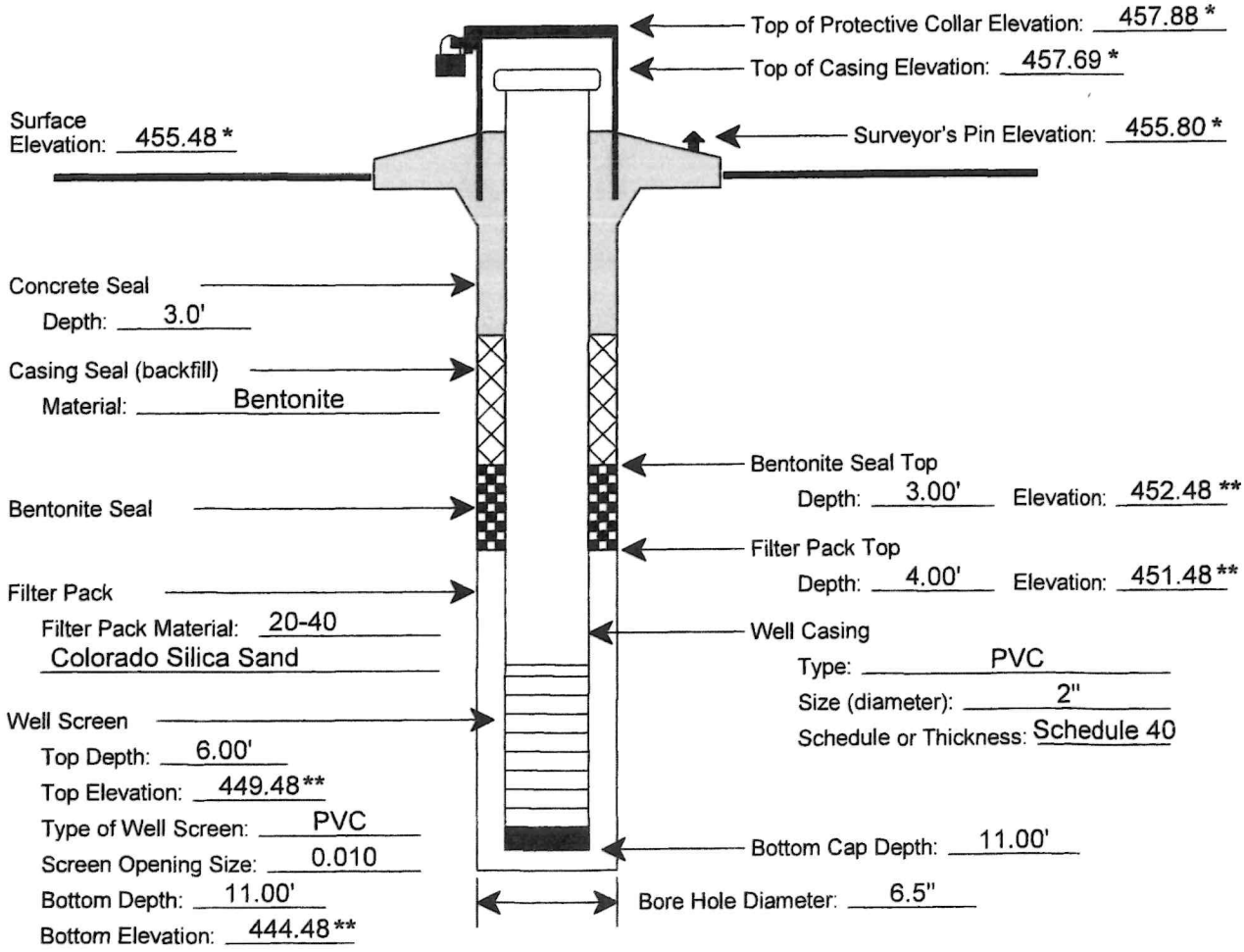
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-8R
Date of Monitor Well Development: 7/20/15
Monitor Well Driller Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

* Resurveyed 9/11/2025 ** Recalculated 9/11/2025

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 7/13/22
Monitor Well Latitude: 32°34'26" Longitude: 96°40'35"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

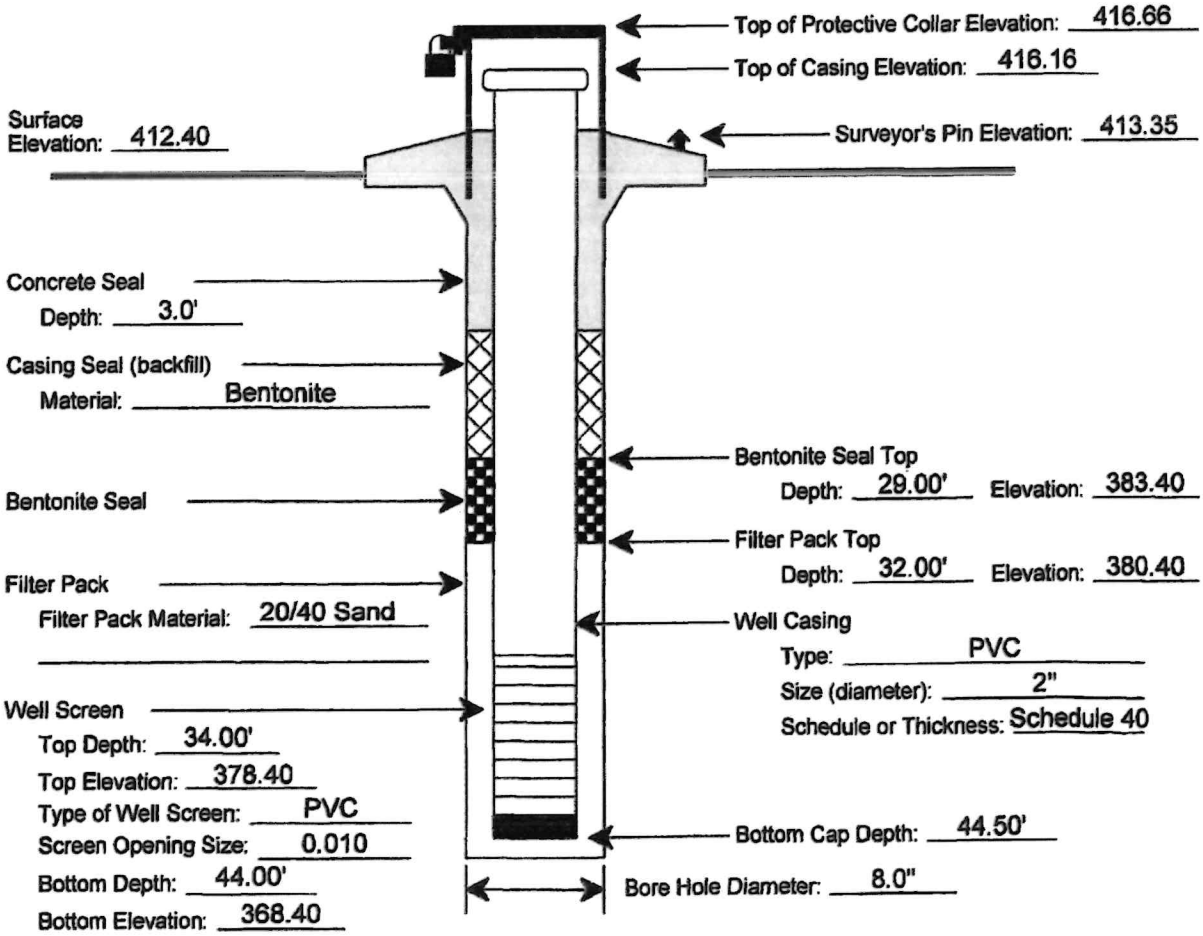
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-9R
Date of Monitor Well Development: 7/13/22
Monitor Well Driller Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Bolts/Flange Type of Casing Protection: HDPE outer casing with an HDPE cap and gaskets.
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x18"



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 9/5/25
Monitor Well Latitude: 32°33'17" Longitude: 96°40'35"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

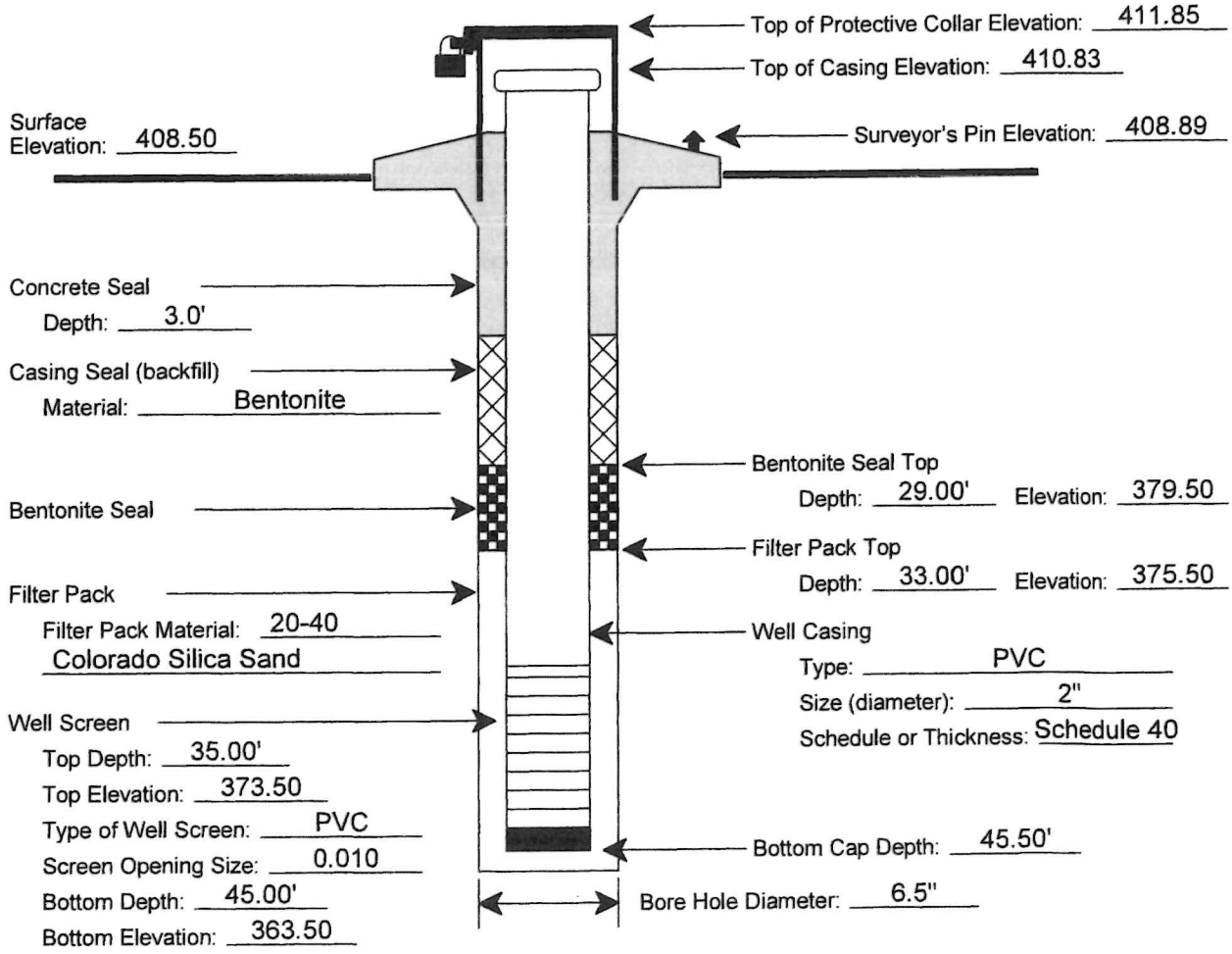
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-10R
Date of Monitor Well Development: 9/5/25
Monitor Well Driller
Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: 394.49
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: Aluminum
Concrete Surface Pad (with steel reinforcement) Dimensions: 4'x4'x6"



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Recycling and Disposal Facility
County: Dallas
Date of Monitor Well Installation: 7/20/15
Monitor Well Latitude: 32°33'15" Longitude: 96°40'26"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

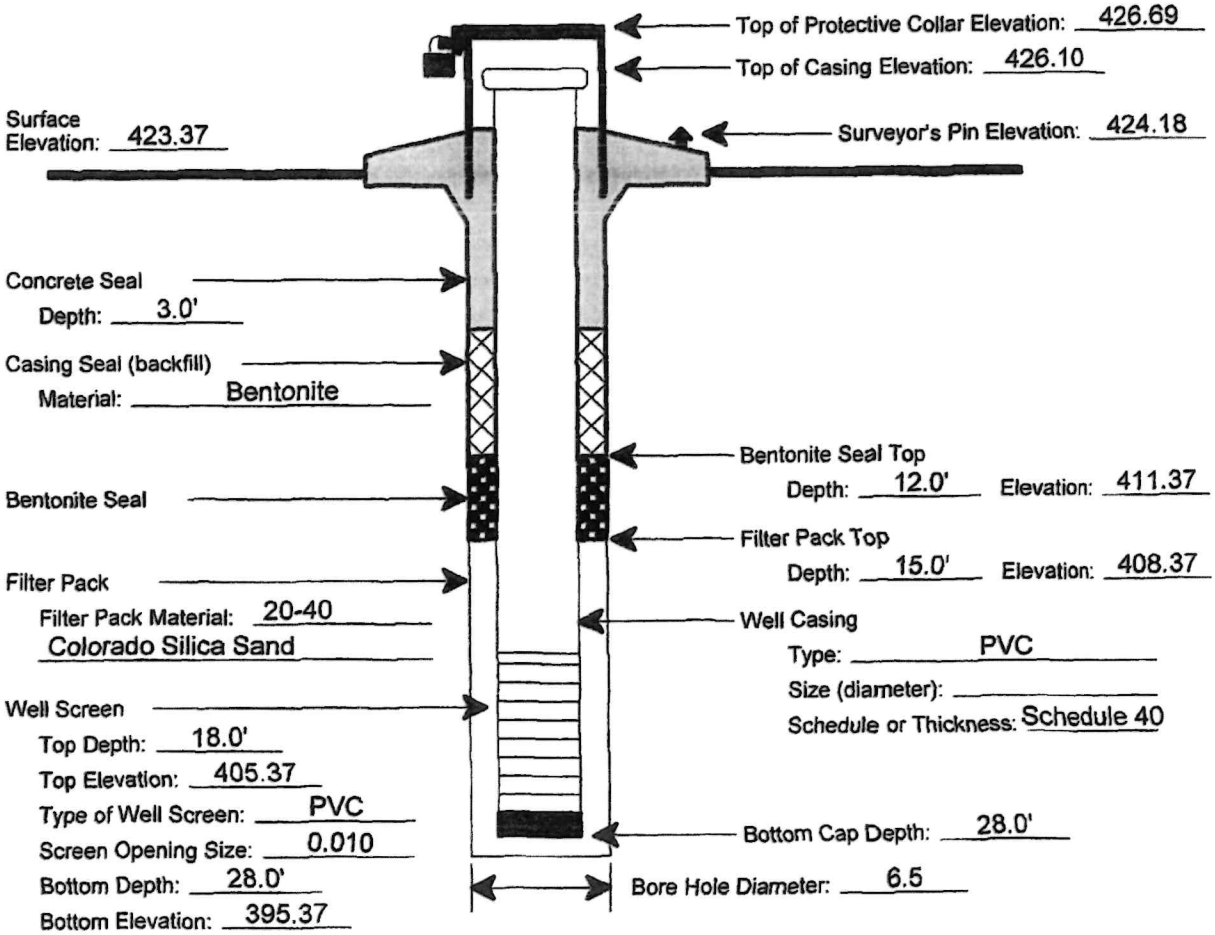
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-11R
Date of Monitor Well Development: 7/20/15
Monitor Well Driller Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: 6.55
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 1/8/26
Monitor Well Latitude: 32°33'15" Longitude: 96°40'17"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

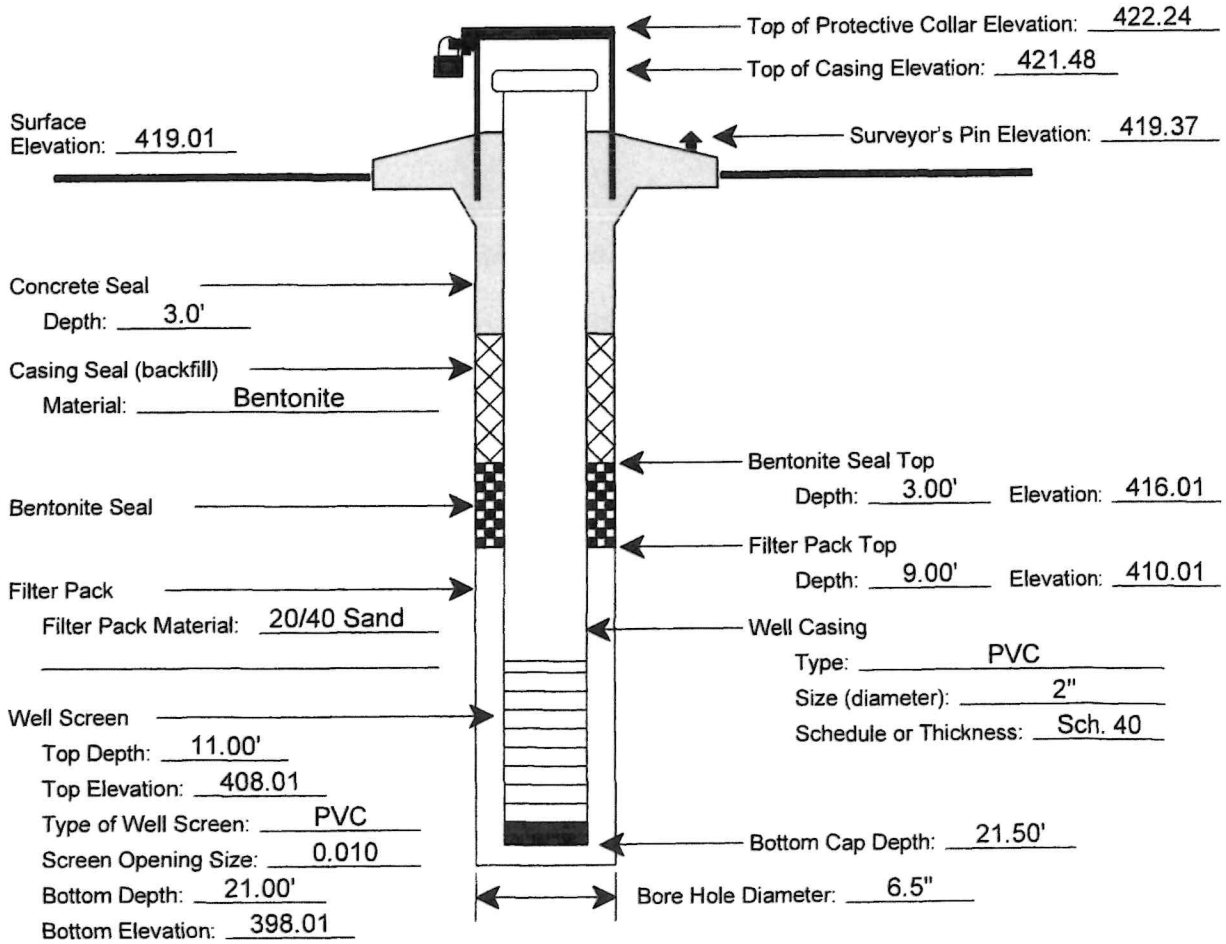
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-12R
Date of Monitor Well Development: _____
Monitor Well Driller
Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: _____
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: Aluminum
Concrete Surface Pad (with steel reinforcement) Dimensions: 4' x 4' x 6"



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 7/21/16
Monitor Well Latitude: 32°33'5.6" Longitude: 96°40'15.3"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

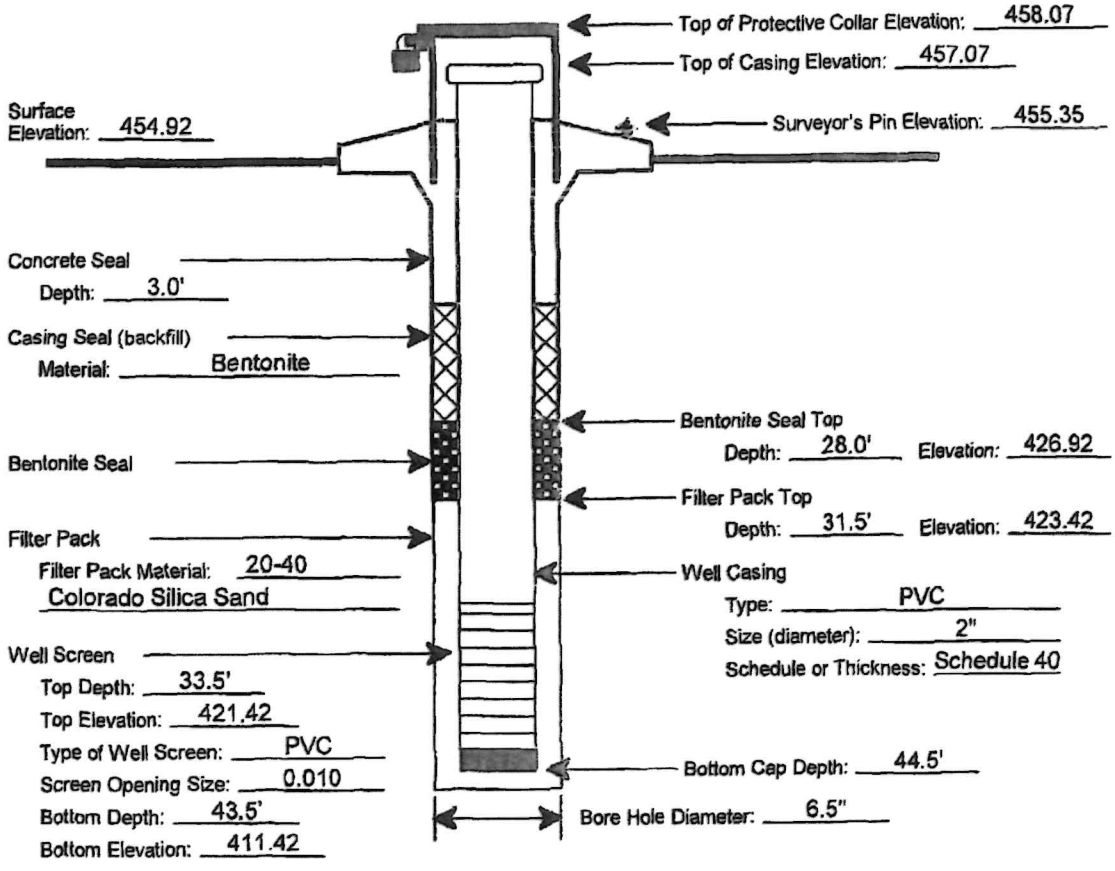
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-13R
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry upon completion
Name of Geologic Formation(s) in which Well is completed: Grayson Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

E2-288MWIR

A. Monitor Well Data Sheet

Texas Department of Health
Division of Solid Waste Management
SE. 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF

County: Dallas and Ellis Counties

Date of Monitor Well Installation: 9/20/94

Monitor Well: Latitude: 32° 32.83' Longitude: 96° 40.25'

Monitor Well Groundwater

Gradient: Upgradient (Downgradient)

TDH Permit No.: 42-A

Monitor Well I.D. No.: MW-14

Date of Monitor Well

Development: *

Monitor Well Driller

Name: William P. McGuire

License No.: 2763M

NOTE:

(A) The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimum distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.

Static Water Level Elevation (with respect to MSL) after Well Development: *

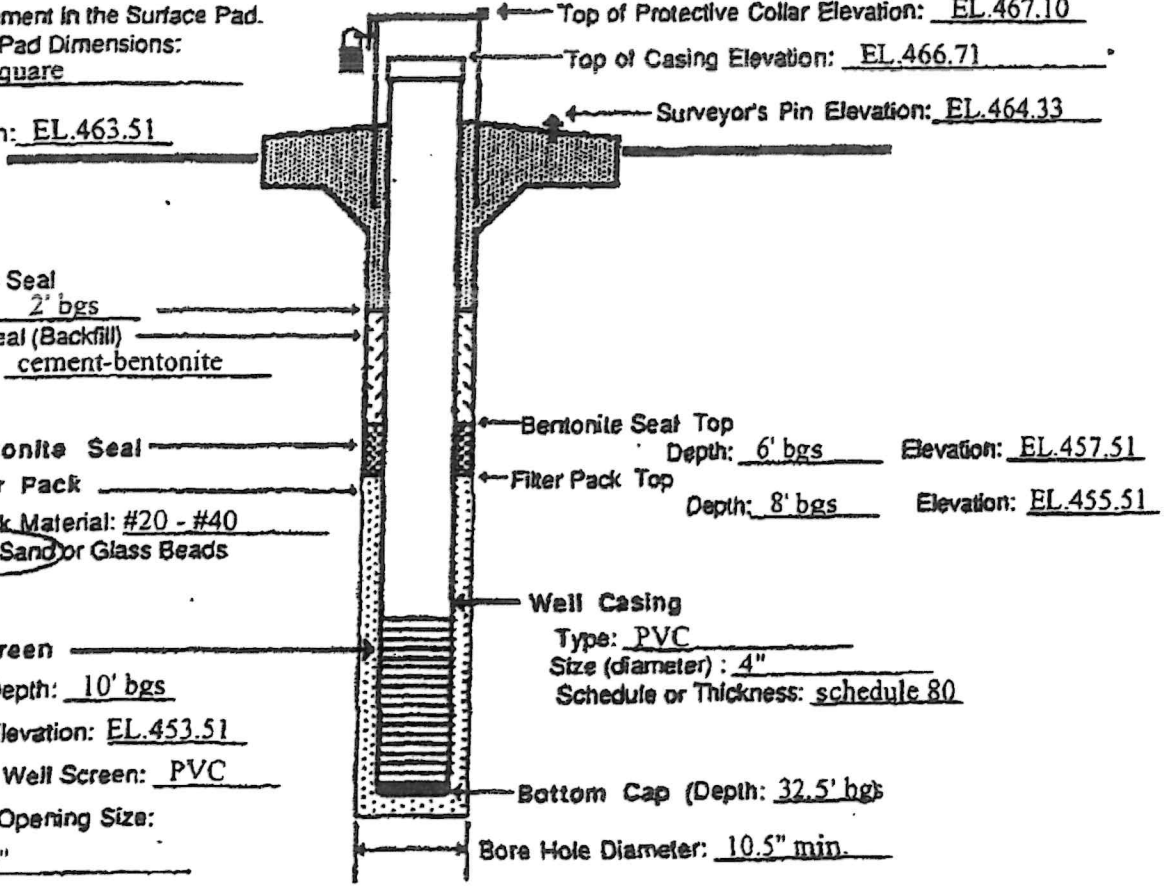
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock

Type of Casing Protection: 6" Steel Tube

Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions: 6' x 6' square

Surface Elevation: EL.463.51



* To be developed when sufficient water accumulates in well.

A. Monitor Well Data Sheet

Texas Department of Health
Division of Solid Waste Management
SE. 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF

County: Dallas and Ellis Counties

Date of Monitor Well Installation: 9/20/94

Monitor Well: Latitude: 32° 32.83' Longitude: 96° 40.25'

Monitor Well Groundwater

Gradient: Upgradient (Downgradient)

TDH Permit No. : 42-A

Monitor Well I.D. No.: MW-15

Date of Monitor Well

Development: *

Monitor Well Driller

Name: William P. McGuire

License No.: 2763M

NOTE:

(A)The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimun distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.

Static Water Level Elevation (with respect to MSL) after Well Developement : *

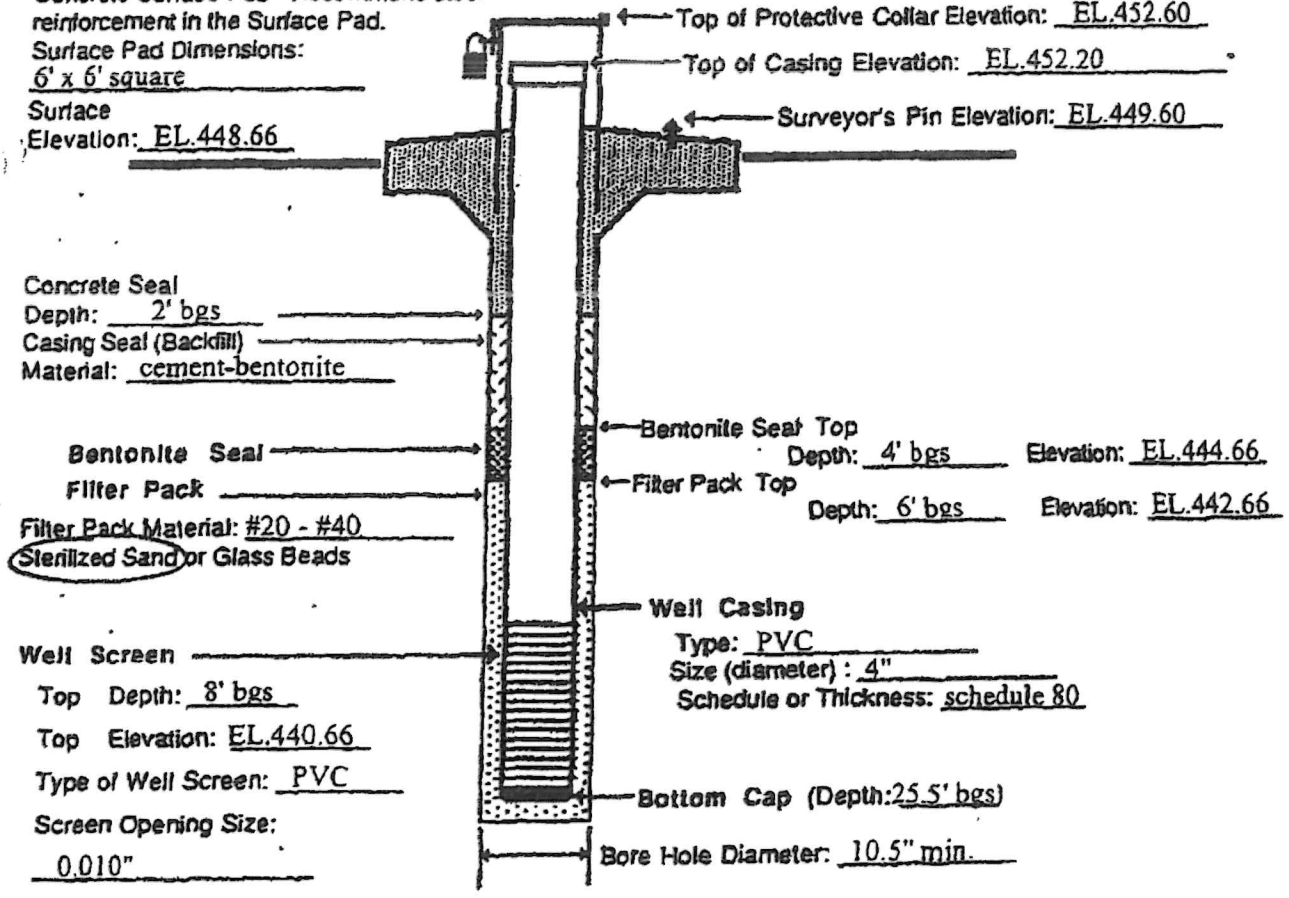
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock

Type of Casing Protection: 6" Steel Tube

Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions:
6' x 6' square

Surface Elevation: EL.448.66



* To be developed when sufficient water accumulates in well.

A. Monitor Well Data Sheet

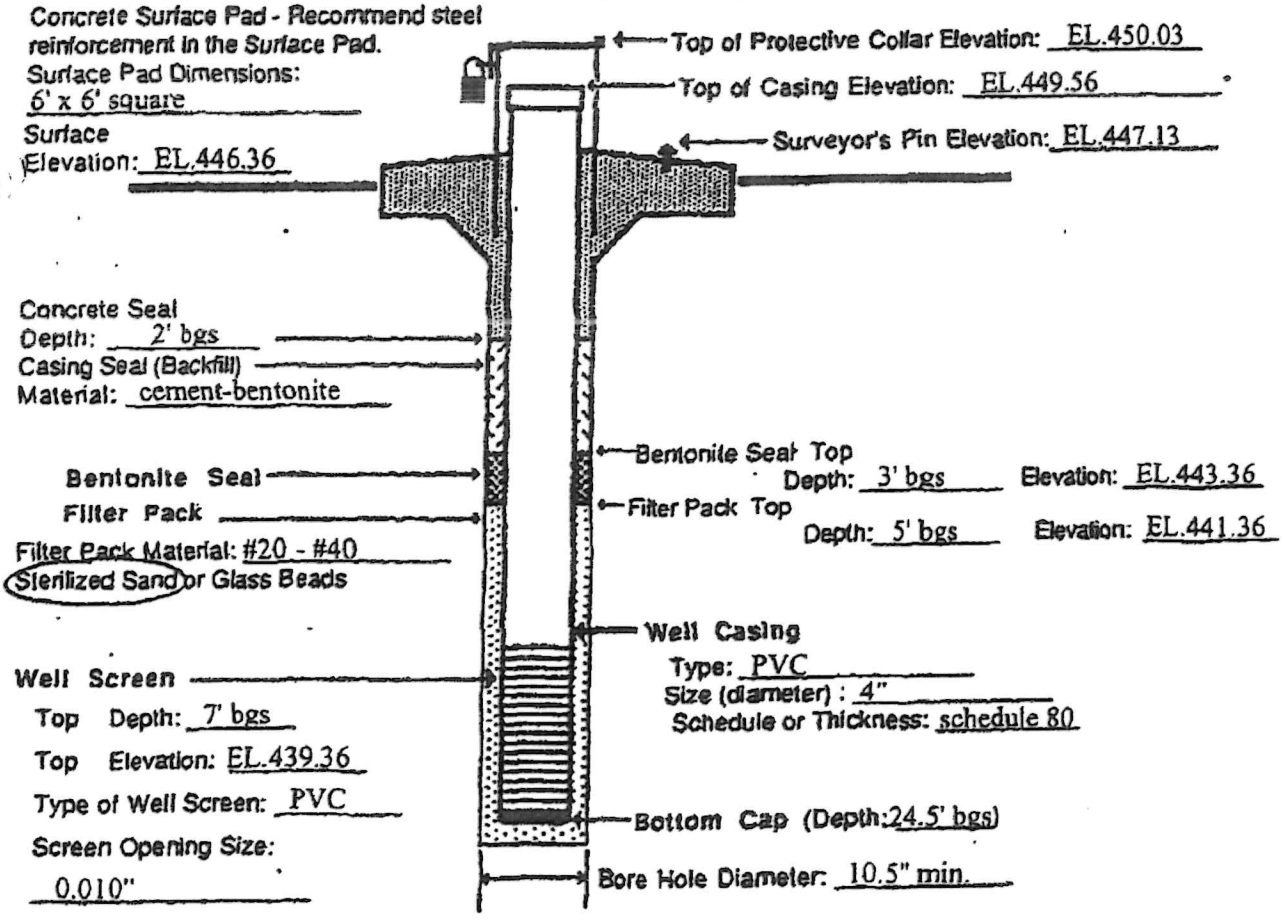
Texas Department of Health
Division of Solid Waste Management
SE. 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF
TDH Permit No. : 42-A
County: Dallas and Ellis Counties
Monitor Well I.D. No.: MW-16
Date of Monitor Well Installation: 9/20/94
Date of Monitor Well Development: *
Monitor Well: Latitude: 32° 32.83' Longitude: 96° 40.25'
Monitor Well Groundwater Gradient: Upgradient (Downgradient)
Monitor Well Driller Name: William P. McGuire
License No.: 2763M

NOTE:
(A)The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimun distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.
Static Water Level Elevation (with respect to MSL) after Well Developement : *
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock
Type of Casing Protection: 6" Steel Tube
Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions: 6' x 6' square
Surface Elevation: EL.446.36



* To be developed when sufficient water accumulates in well.

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 1/7/26
Monitor Well Latitude: 32°32'39" Longitude: 96°40'12"
Monitor Well Groundwater Gradient Position:
Upgradient X Downgradient _____

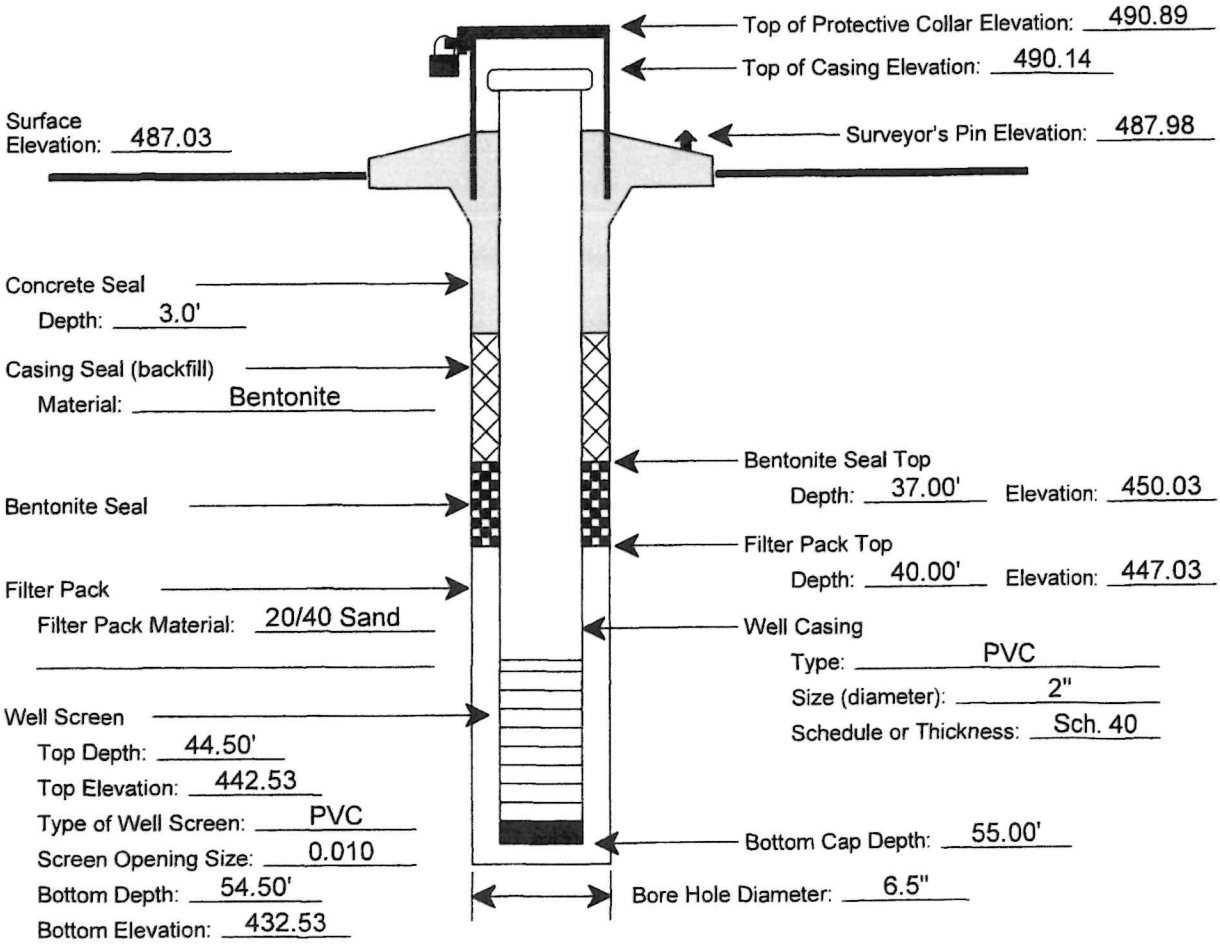
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-17R
Date of Monitor Well Development: _____
Monitor Well Driller
Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: _____
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: Aluminum
Concrete Surface Pad (with steel reinforcement) Dimensions: 4' x 4' x 6"



TCEQ-10308

A. Monitor Well Data Sheet

Texas Department of Health
Division of Solid Waste Management
SE. 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF

County: Dallas and Ellis Counties

Date of Monitor Well Installation: 9/20/94

Monitor Well: Latitude: 32° 32.83' Longitude: 96° 40.25'

Monitor Well Groundwater
Gradient: (Upgradient) ___ Downgradient ___

TDH Permit No. : 42-A

Monitor Well I.D. No.: MW-18

Date of Monitor Well
Development: *

Monitor Well Driller
Name: William P. McGuire
License No.: 2763M

NOTE:
(A)The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimun distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.

Static Water Level Elevation (with respect to MSL) after Well Development : *

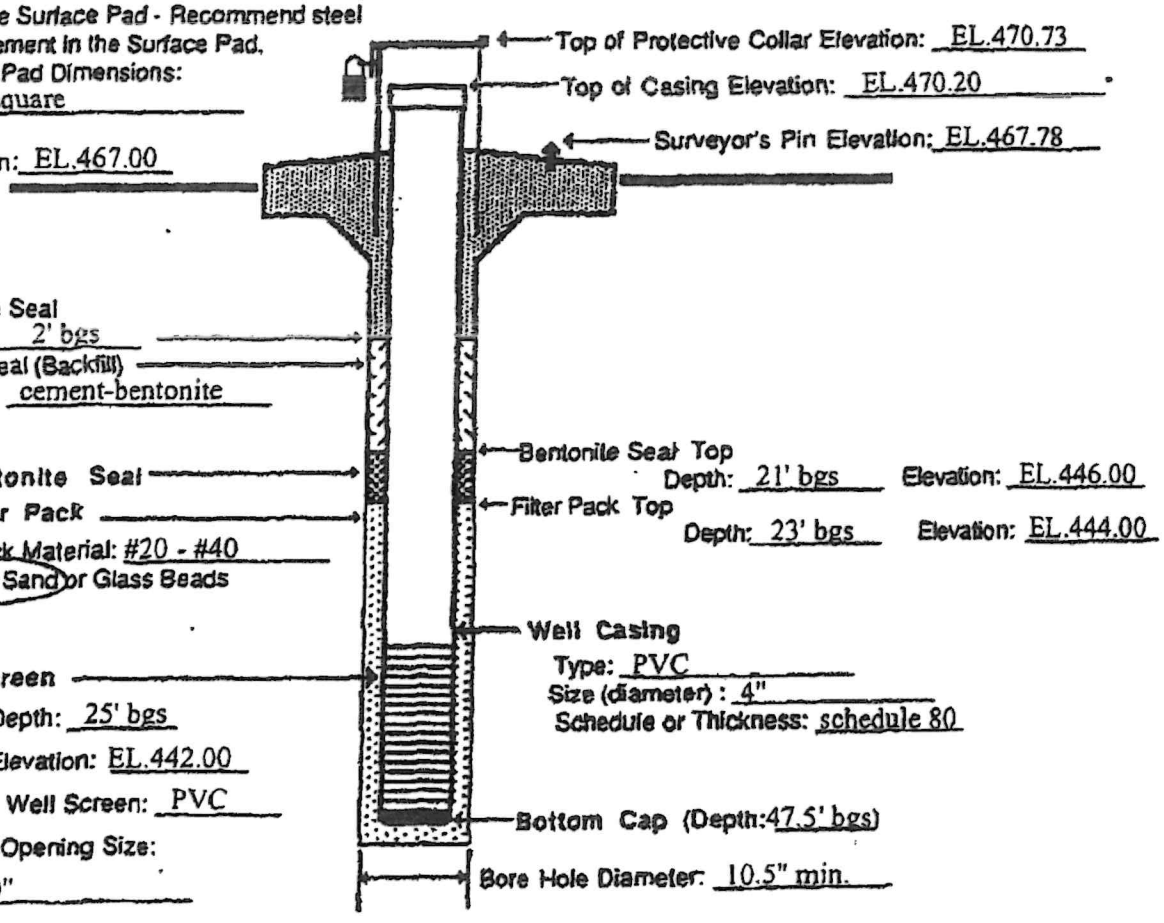
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock

Type of Casing Protection: 6" Steel Tube

Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions:
6' x 6' square

Surface Elevation: EL.467.00



* To be developed when sufficient water accumulates in well.

A. Monitor Well Data Sheet

Texas Department of Health
Division of Solid Waste Management
SE 67 (3/1/89-B)

Permittee or Site Name: Skyline RDF

TDH Permit No. : 42-A

County: Dallas and Ellis Counties

Monitor Well I.D. No.: MW-19

Date of Monitor Well Installation: 9/20/94

Date of Monitor Well Development: 10/28/94-12/09/94

Monitor Well: Latitude: 32°32.83' Longitude: 96°40.25'

Monitor Well Groundwater Gradient: (Upgradient) ... Downgradient ____

Monitor Well Driller Name: William P. McGuire

License No.: 2763M

NOTE:

(A) The information shown in the sketch below should be considered the minimum required for an installed ground-water monitor well.
(B) Report All Depths from Surface Elevation and all Elevations relative to Mean Sea Level.
(C) The minimun distance between the inside wall of the Bore Hole and the outside of the Well Casing shall be 3".
(D) Use Flush Screw Joint Casing only, 2" diameter or larger. Recommend 4" diameter minimum & Teflon Taping Casing Joints.
(E) Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist or Engineer Supervising Well Installation: Pierce L. Chandler, Jr. P.E.

Static Water Level Elevation (with respect to MSL) after Well Developement : 438.04 ft

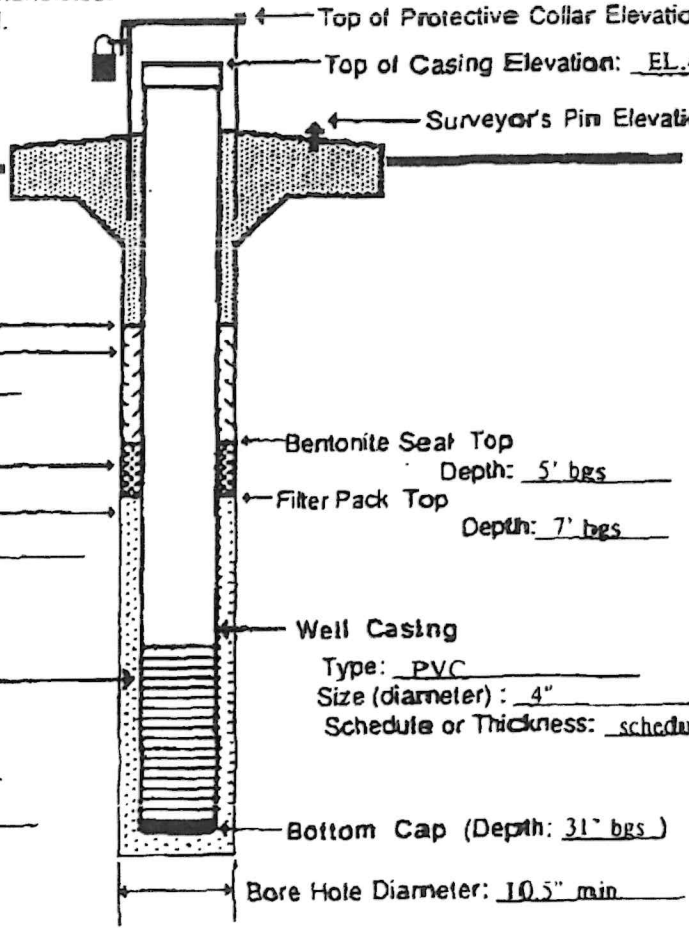
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock

Type of Casing Protection: 6" Steel Tube

Concrete Surface Pad - Recommend steel reinforcement in the Surface Pad.
Surface Pad Dimensions: 6' x 6' square

Surface Elevation: EL.441.25



Top of Protective Collar Elevation: EL.444.87

Top of Casing Elevation: EL.444.45

Surveyor's Pin Elevation: EL.441.67

Concrete Seal
Depth: 2' bgs
Casing Seal (Backfill)
Material: cement-bentonite

Bentonite Seal

Filter Pack

Filter Pack Material: #20-#40
Sterilized Sand or Glass Beads

Bentonite Seal Top
Depth: 5' bgs Elevation: EL.436.25

Filter Pack Top
Depth: 7' bgs Elevation: EL.434.25

Well Casing
Type: PVC
Size (diameter) : 4"
Schedule or Thickness: schedule 80

Well Screen
Top Depth: 8.5' bgs
Top Elevation: EL.432.75
Type of Well Screen: PVC
Screen Opening Size: 0.010"

Bottom Cap (Depth: 31' bgs)

Bore Hole Diameter: 10.5" min

Monitor Well Data Sheet

Permittee or Site Name: Skyline RDF
County: Dallas and Ellis
Date of Monitor Well Installation: 10/20/03
Monitor Well Latitude: N32°32'28.3 Longitude: W96°40'04.7
Monitor Well Groundwater Gradient Position:
Upgradient X Downgradient _____

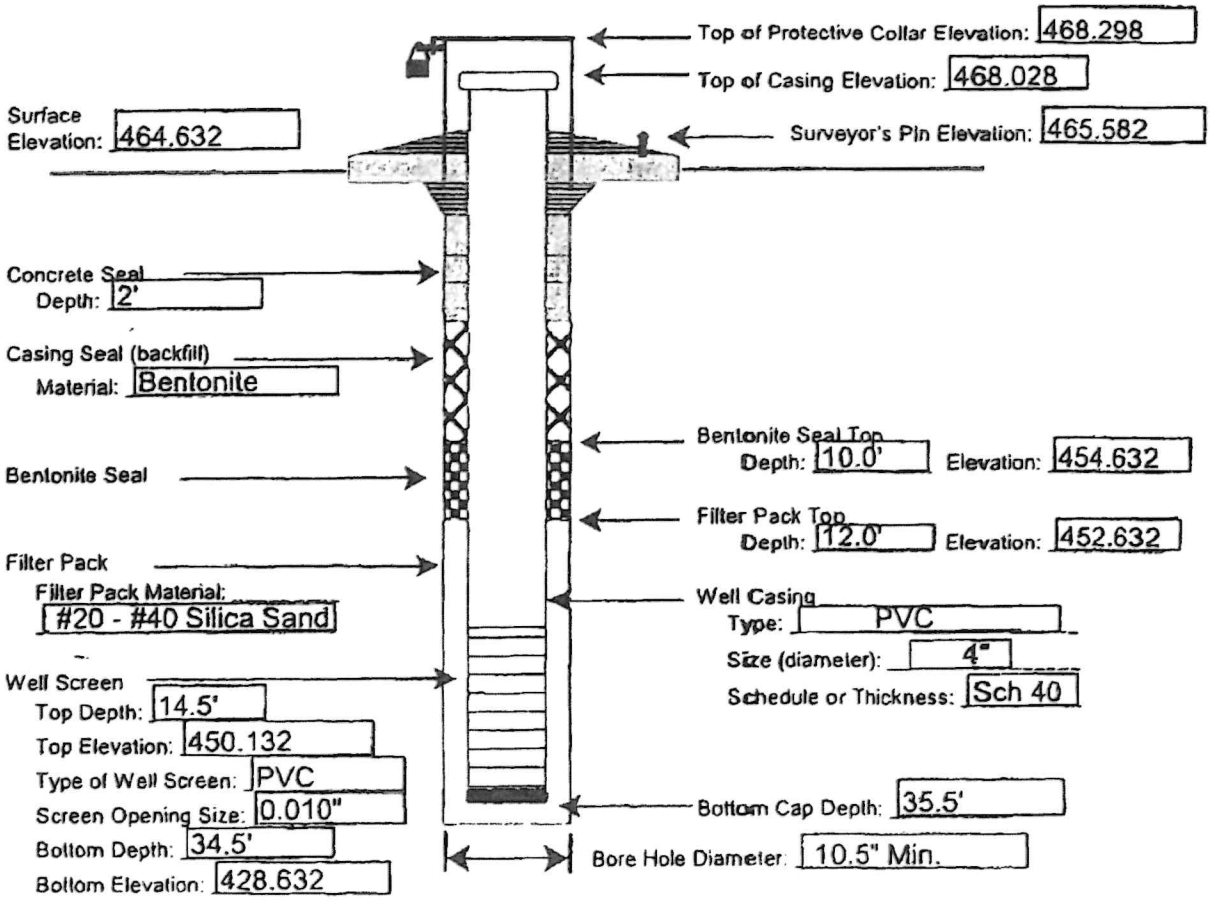
MSW Permit No.: 42C
Monitor Well I.D. No.: MW-20R
Date of Monitor Well Development: 10/27/03
Monitor Well Driller
Name: Jim Markle
License No.: 54289-M

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Timothy L. McDaniel
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Tube
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6' Square



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 7/20/15
Monitor Well Latitude: 32°33'15.6" Longitude: 96°40'56.5"
Monitor Well Groundwater Gradient Position:
Upgradient ____ Downgradient X

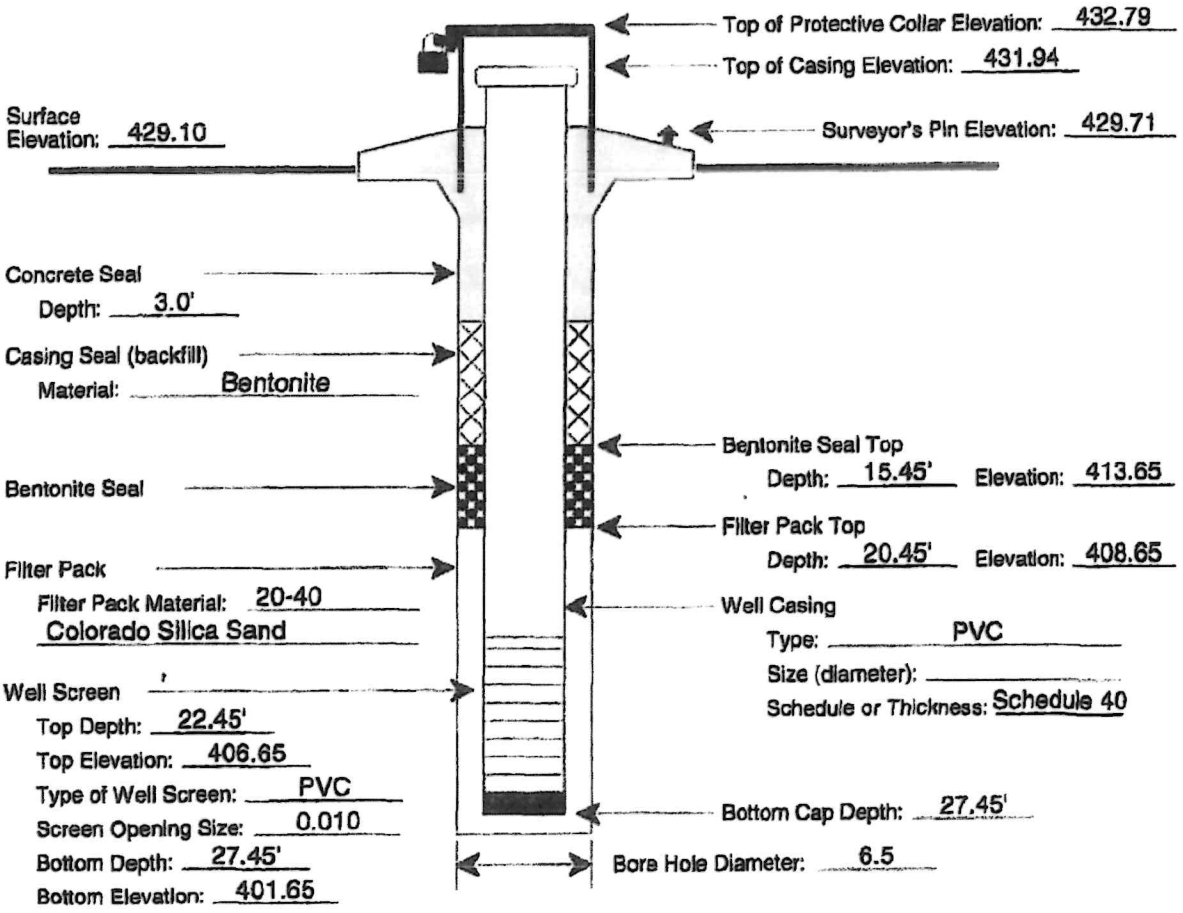
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-21R
Date of Monitor Well Development: 7/20/15
Monitor Well Driller Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 7/13/22
Monitor Well Latitude: 32°33'16" Longitude: 96°40'43"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

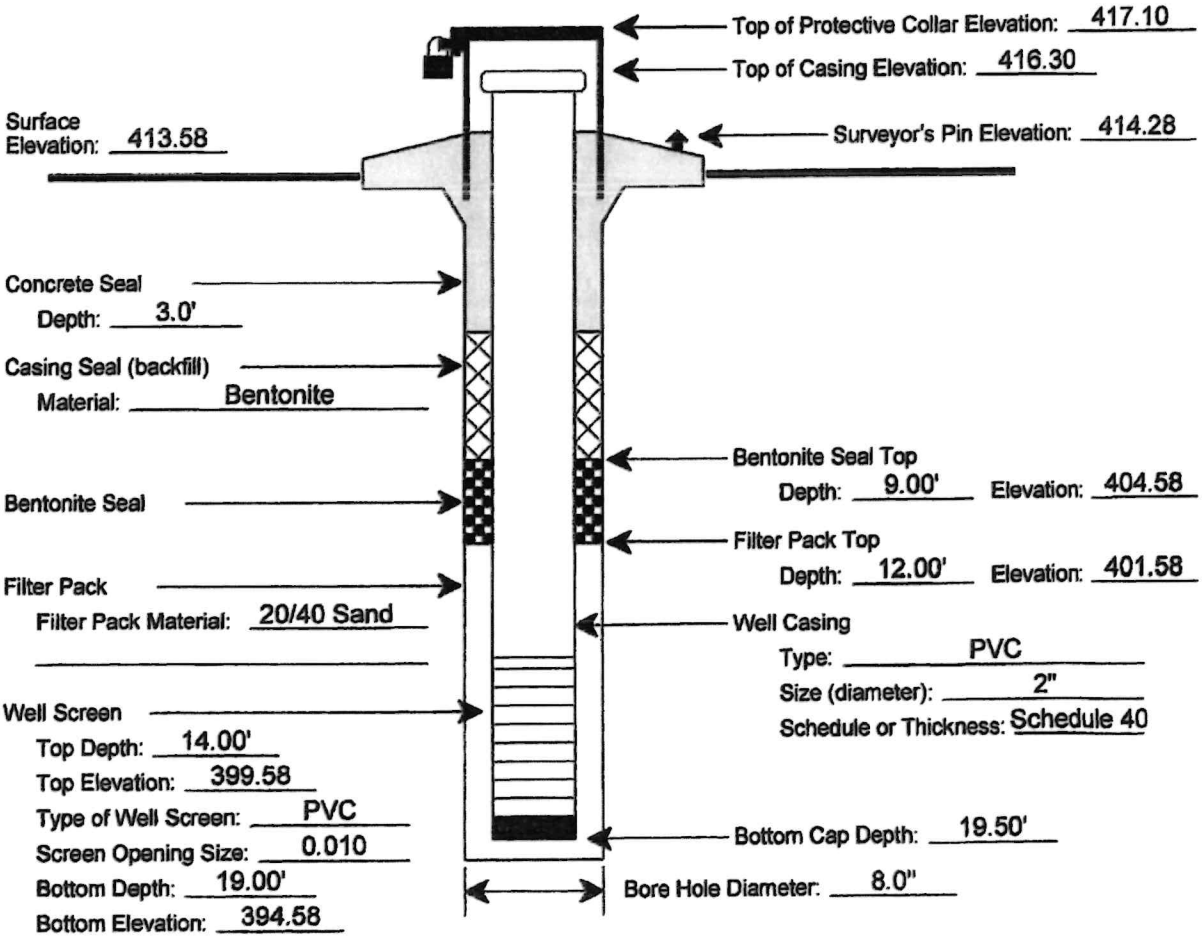
MSW Permit No.: 42-S
Monitor Well I.D. No.: MW-22R2
Date of Monitor Well Development: 7/13/22
Monitor Well Driller Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 4" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6'x6'x6"



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 9/5/25
Monitor Well Latitude: 32°33'17" Longitude: 96°40'31"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

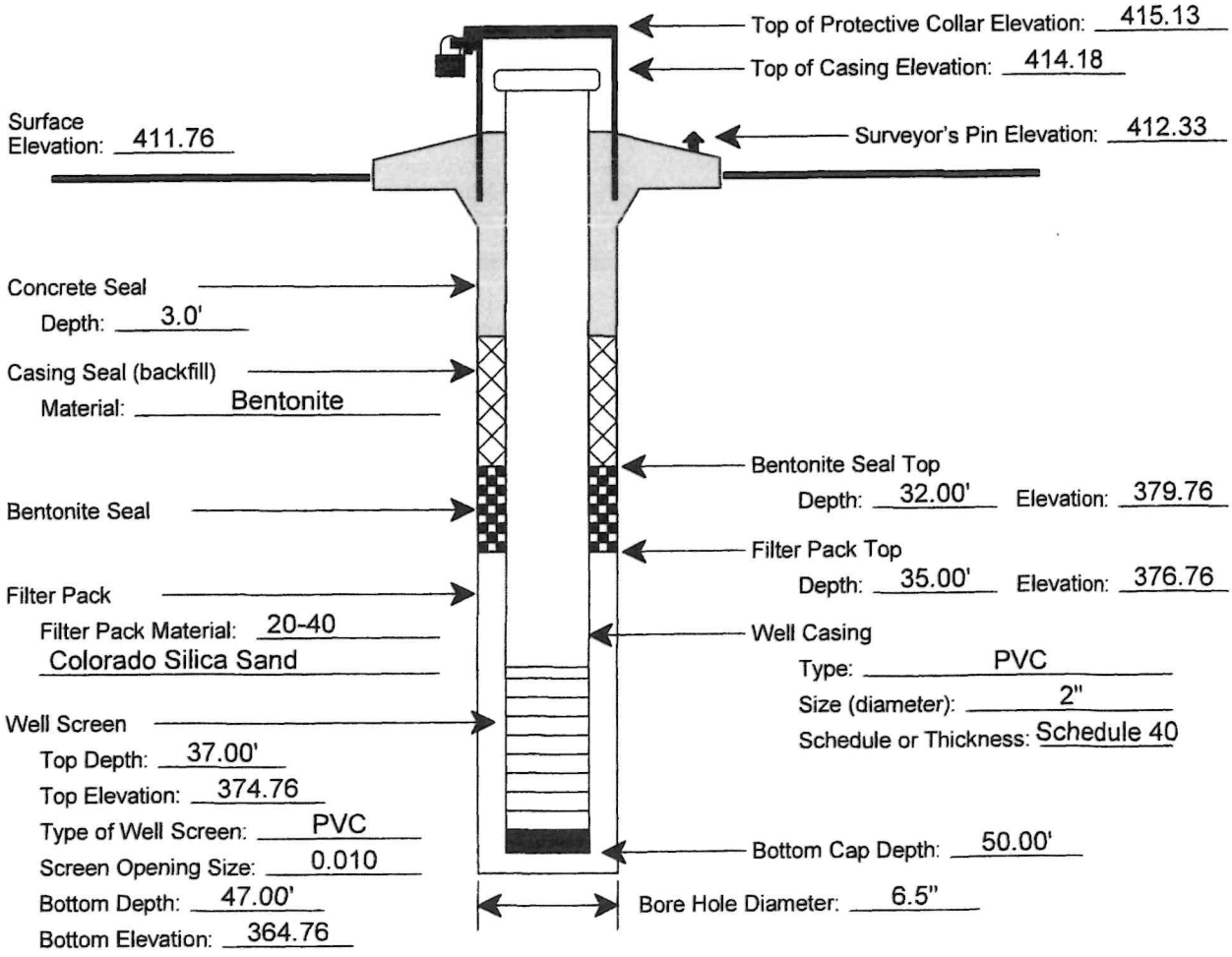
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-23R
Date of Monitor Well Development: 9/5/25
Monitor Well Driller Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: 395.74
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: Aluminun
Concrete Surface Pad (with steel reinforcement) Dimensions: 4'x4'x6"



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas and Ellis Counties, Texas
Date of Monitor Well Installation 11/9/09
Monitor Well Latitude: 32°33'15" Longitude: 96°40'21"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

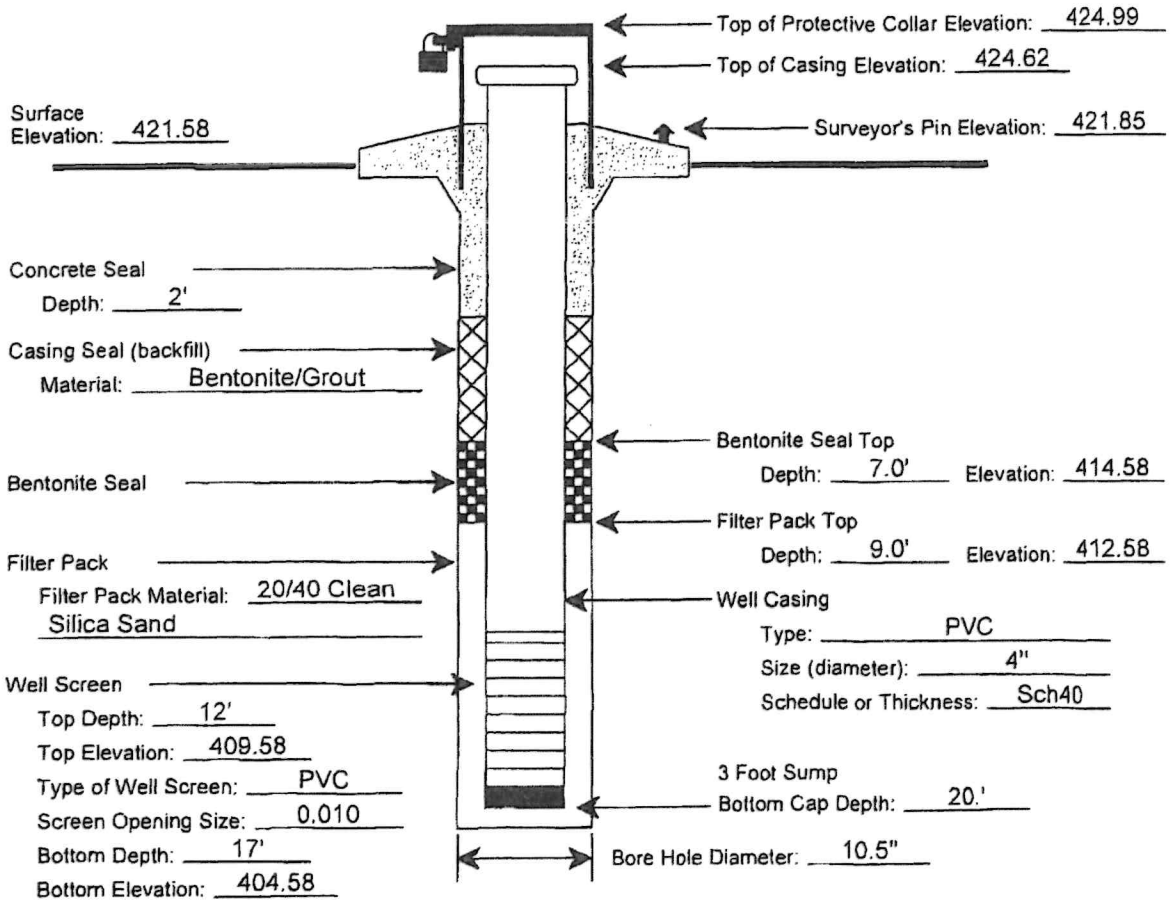
MSW Permit No.: 42-C
Monitor Well I.D. No.: MW-24
Date of Monitor Well Development: 11/12/09
Monitor Well Driller Name: Thomas D. Baker
License No.: 3016M

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Thomas D. Baker, P.E.
Static Water Level Elevation (with respect to MSL) after Well Development: 415.44
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6' x 6"



TNRCC-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas and Ellis Counties, Texas
Date of Monitor Well Installation 10/20/09
Monitor Well Latitude: 32°32'57" Longitude: 96°40'12"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

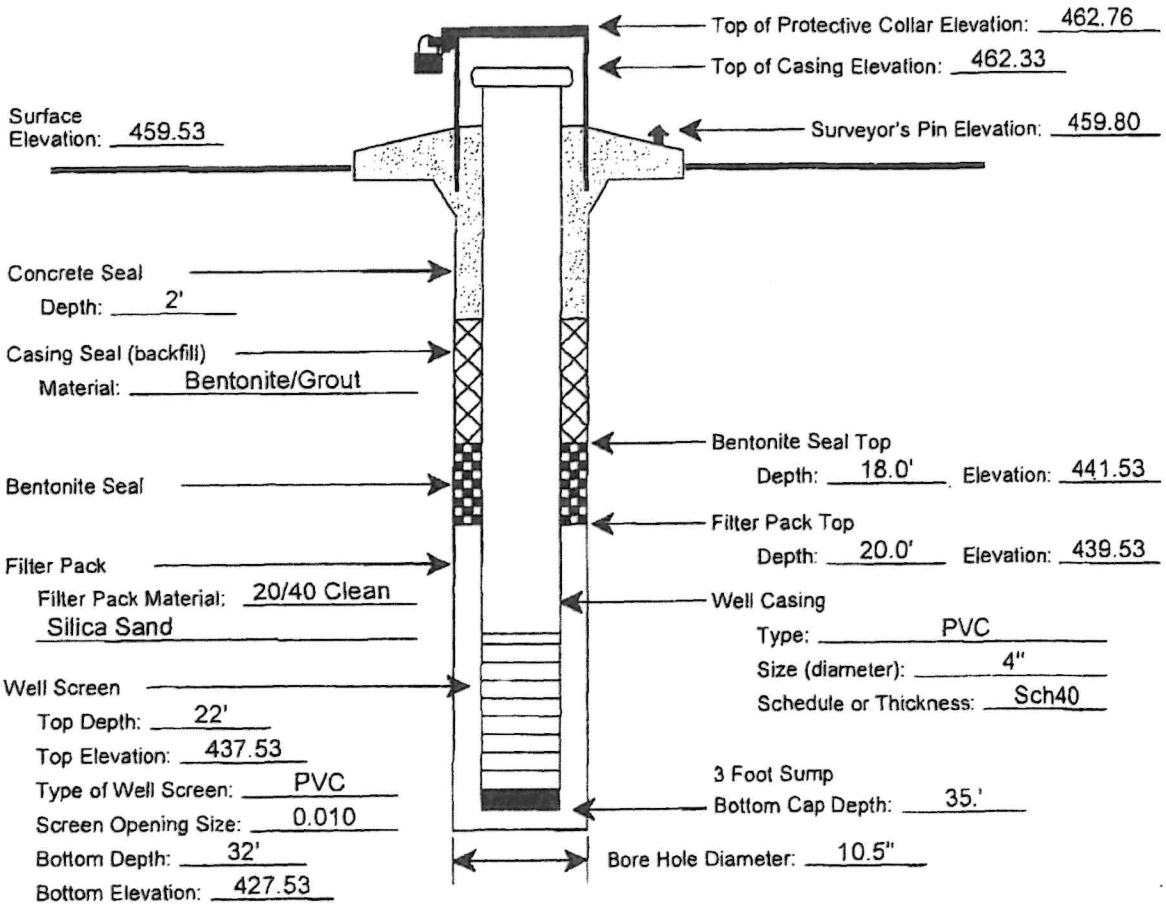
MSW Permit No.: 42
Monitor Well I.D. No.: MW-25
Date of Monitor Well Development: 11/11/09
Monitor Well Driller
Name: Thomas D. Baker
License No.: 3016M

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Thomas D. Baker, P.E.
Static Water Level Elevation (with respect to MSL) after Well Development: 437.33
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6' x 6"



TNRCC-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas and Ellis Counties, Texas
Date of Monitor Well Installation 9/29/09
Monitor Well Latitude: 32°32'55" Longitude: 96°40'2"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

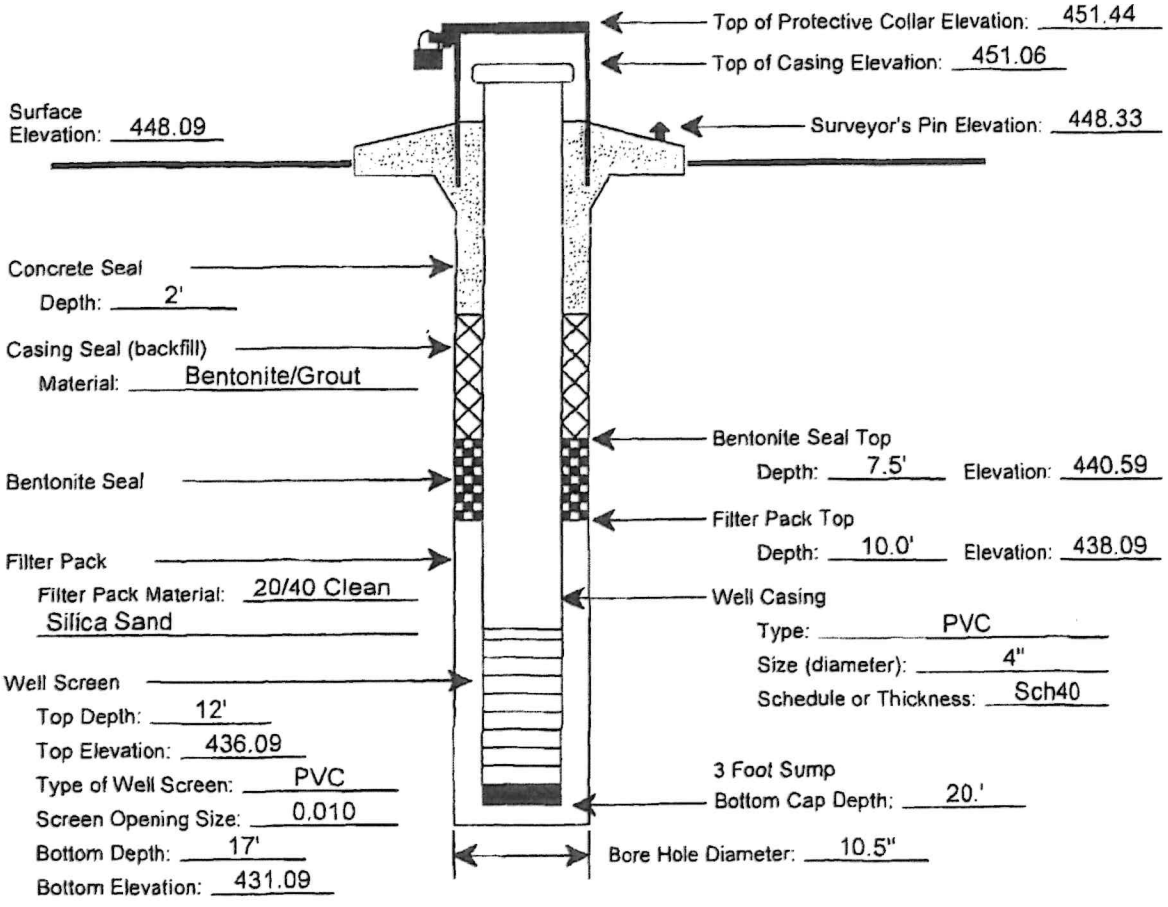
MSW Permit No.: 42-C
Monitor Well I.D. No.: MW-26
Date of Monitor Well Development: 11/12/09
Monitor Well Driller Name: Thomas D. Baker
License No.: 3016M

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Thomas D. Baker, P.E.
Static Water Level Elevation (with respect to MSL) after Well Development: 428.21
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6' x 6"



TNRCC-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 7/21/15
Monitor Well Latitude: 32°32'49" Longitude: 96°41'0"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

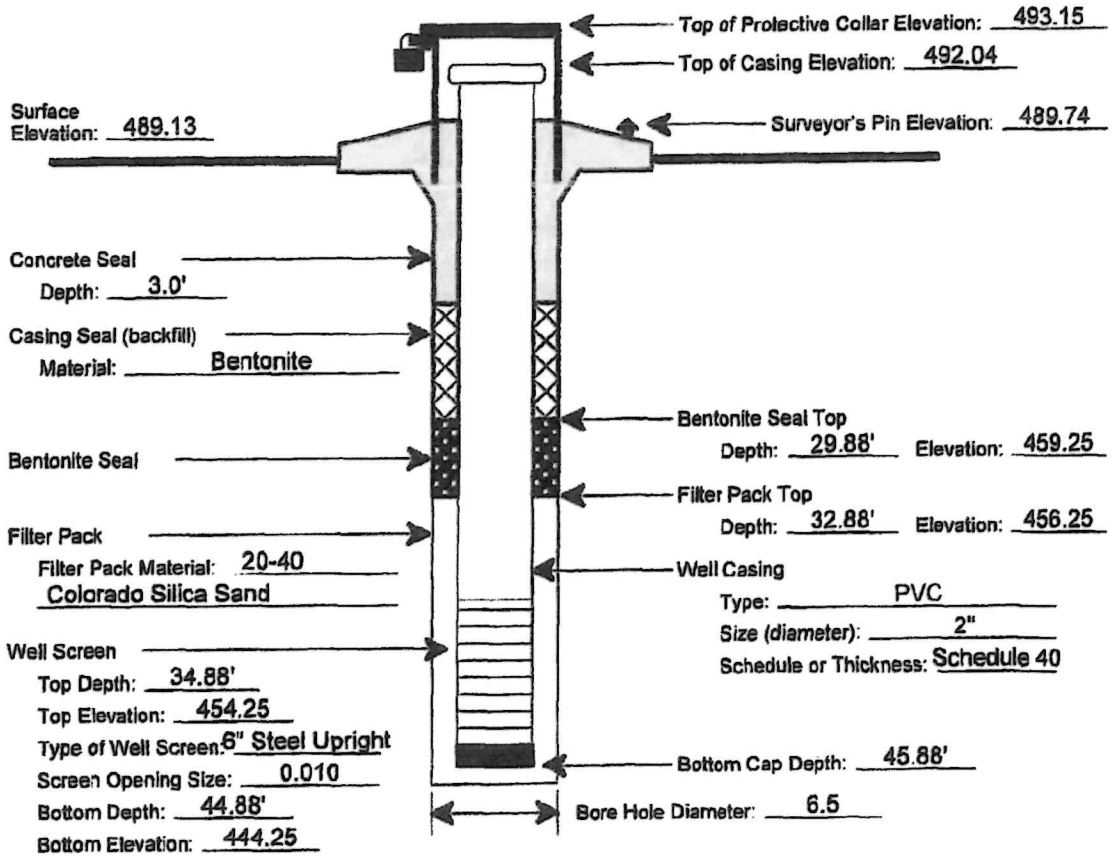
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-27
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" Steel Upright
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 7/21/15
Monitor Well Latitude: 32°32'57" Longitude: 96°41'6"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

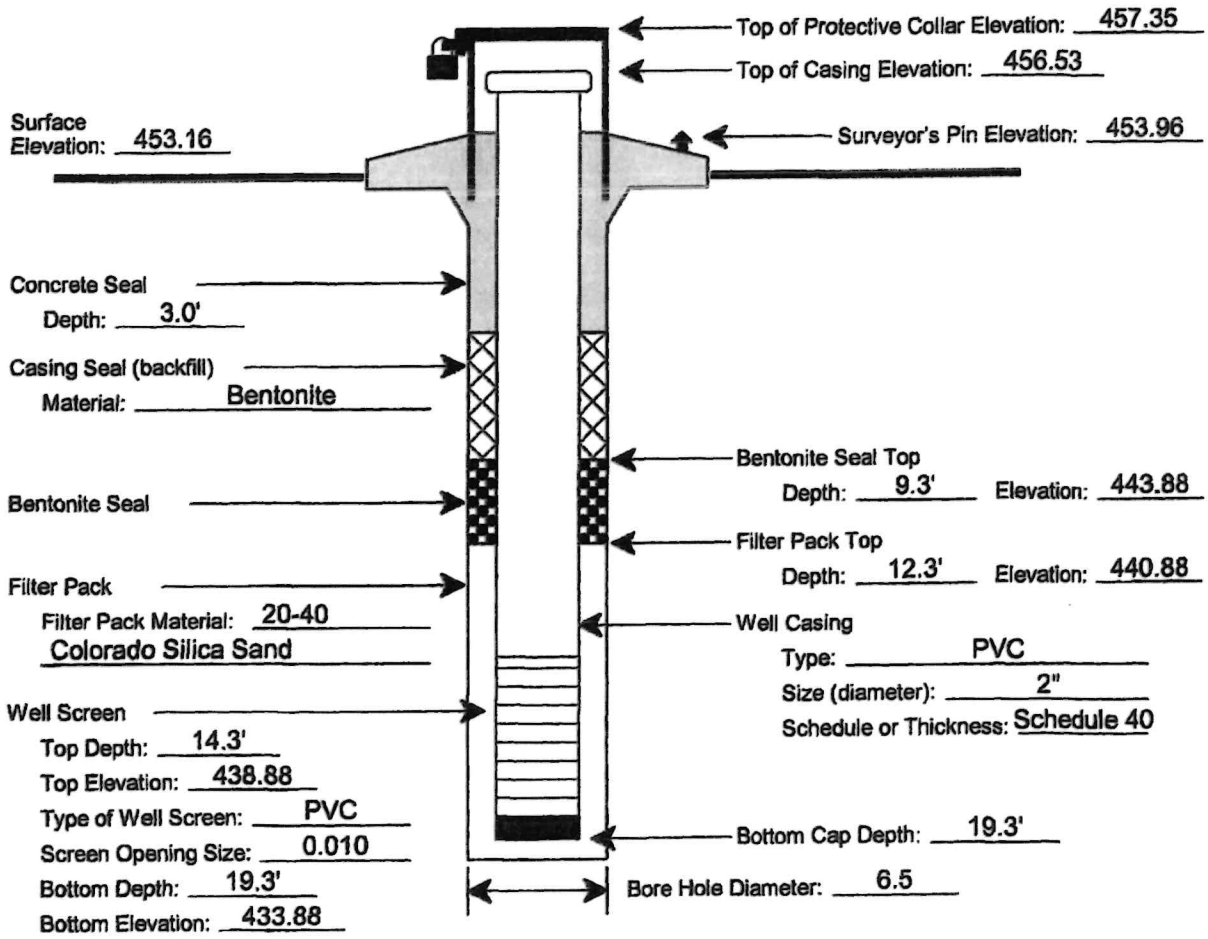
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-28
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation: 6/20/16
Monitor Well Latitude: 32°33'10" Longitude: 96°40'16"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

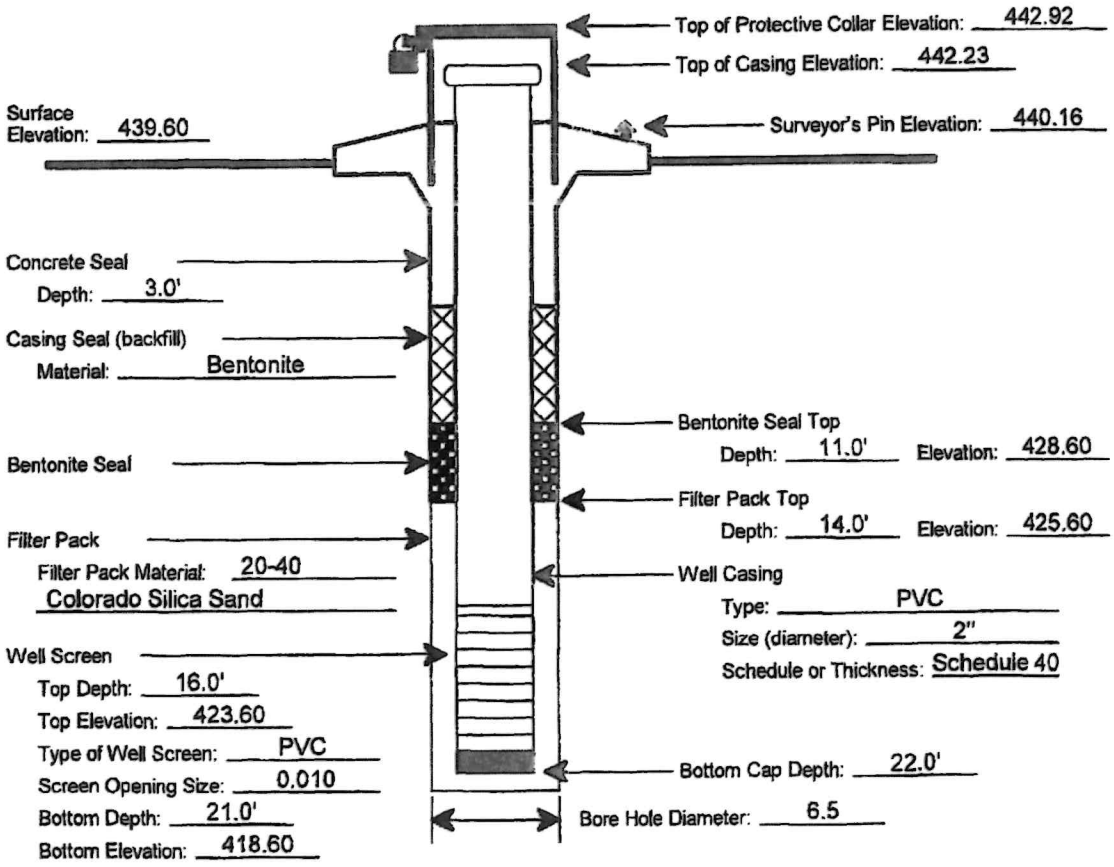
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-29R
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry upon completion
Name of Geologic Formation(s) in which Well is completed: Grayson Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

E2-289MWIR

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 6/20/16
Monitor Well Latitude: 32°33'0.6" Longitude: 96°40'16"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

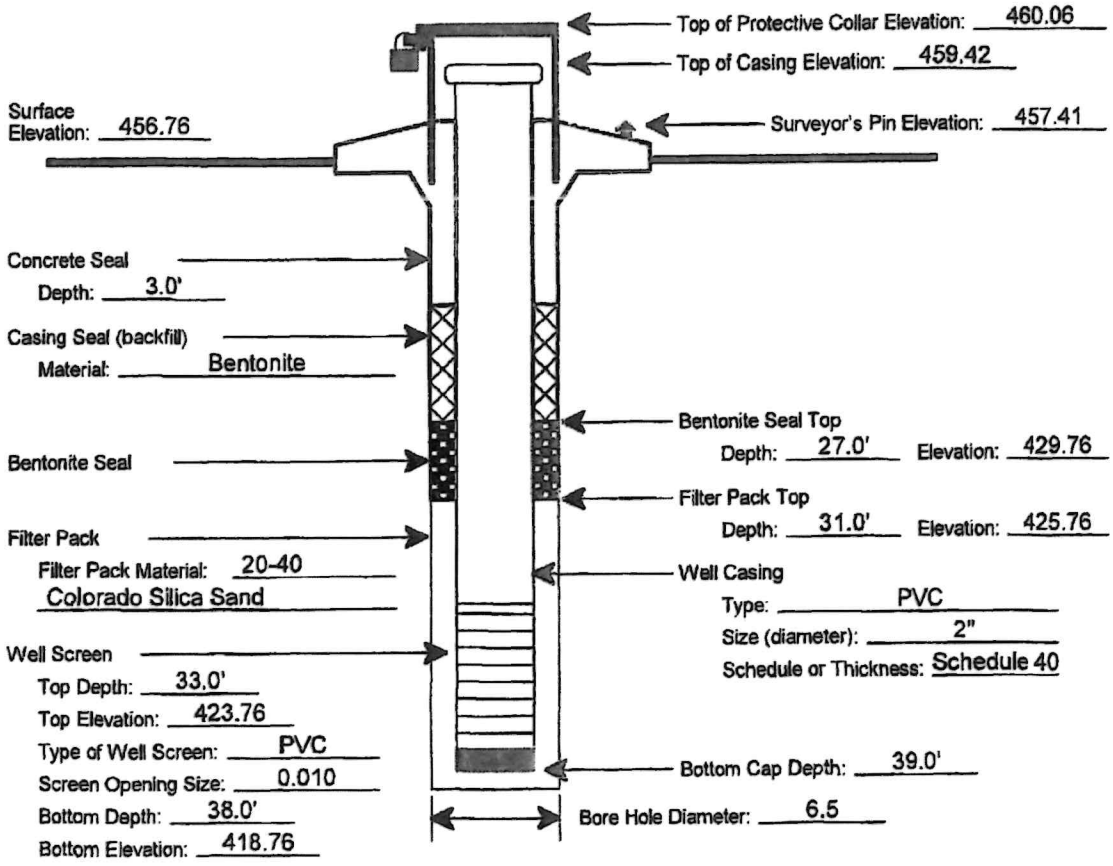
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-30R
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry upon completion
Name of Geologic Formation(s) in which Well is completed: Grayson Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 4'



TCEQ-10308

E2-290MWIR

Monitor Well Data Sheet

Permittee or Site Name: Skyline Recycling and Disposal Facility
County: Dallas & Ellis
Date of Monitor Well Installation 7/21/15
Monitor Well Latitude: 32°32'49" Longitude: 96°39'58"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

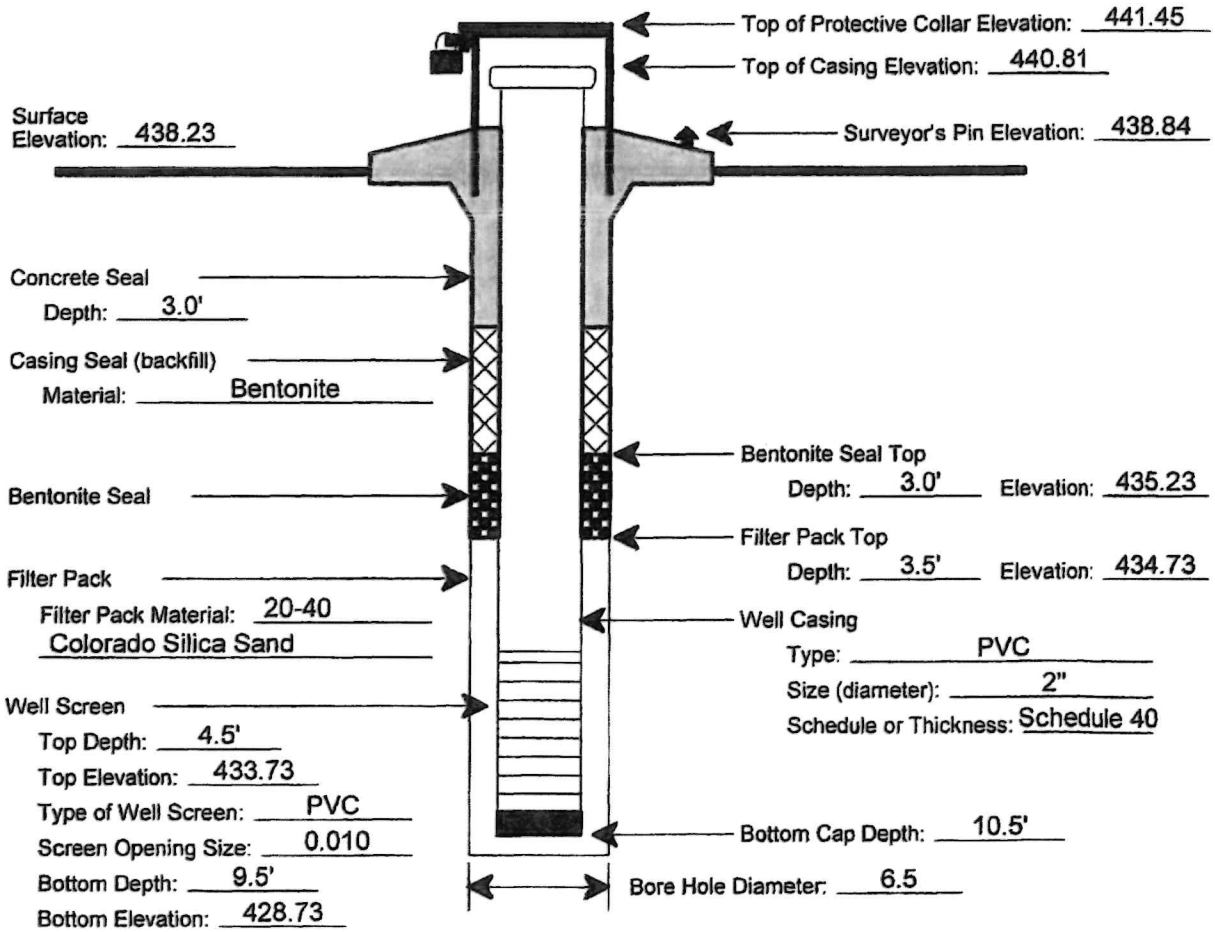
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-31
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Recycling and Disposal Facility
County: Dallas & Ellis
Date of Monitor Well Installation 7/21/15
Monitor Well Latitude: 32°32'36" Longitude: 96°39'57"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

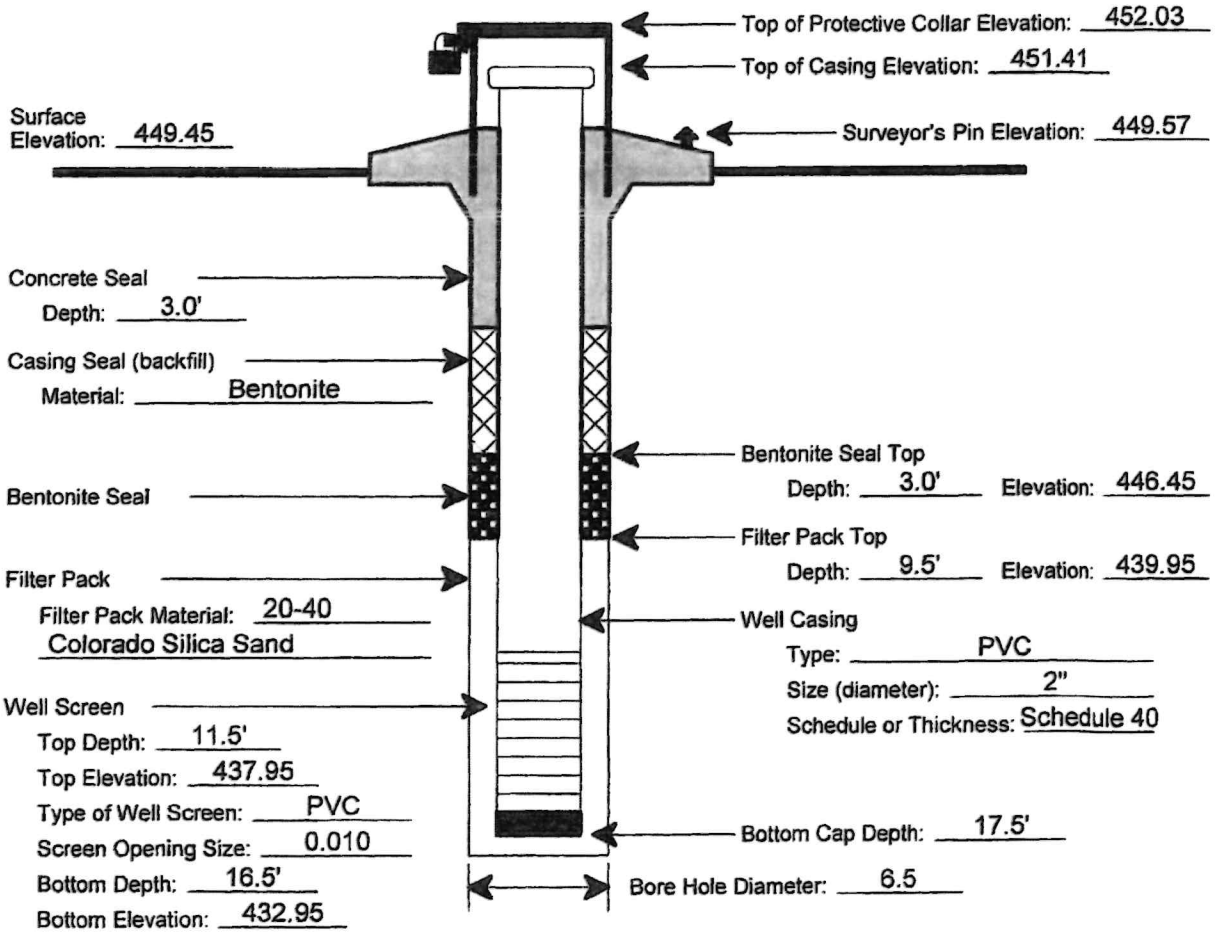
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-32
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Recycling and Disposal Facility
County: Dallas & Ellis
Date of Monitor Well Installation 7/22/15
Monitor Well Latitude: 32°32'30" Longitude: 96°39'57"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

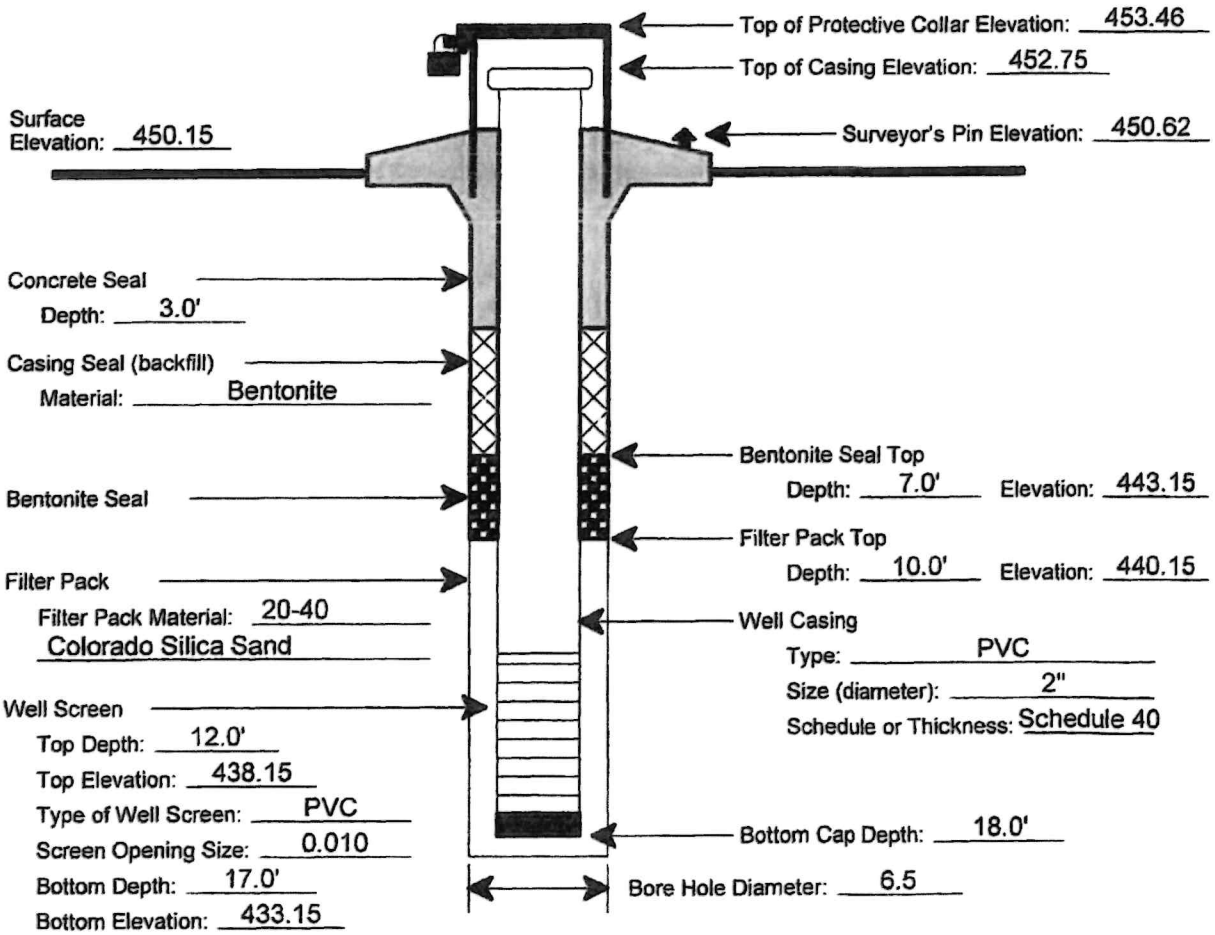
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-33
Date of Monitor Well Development: _____
Monitor Well Driller
Name: Stefan Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: Dry
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: 6" O.D.
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6'



TCEQ-10308

Monitor Well Data Sheet

Permittee or Site Name: Skyline Landfill
County: Dallas & Ellis
Date of Monitor Well Installation 10/5/18
Monitor Well Latitude: 32°33'6.7" Longitude: 96°41'5.6"
Monitor Well Groundwater Gradient Position:
Upgradient _____ Downgradient X

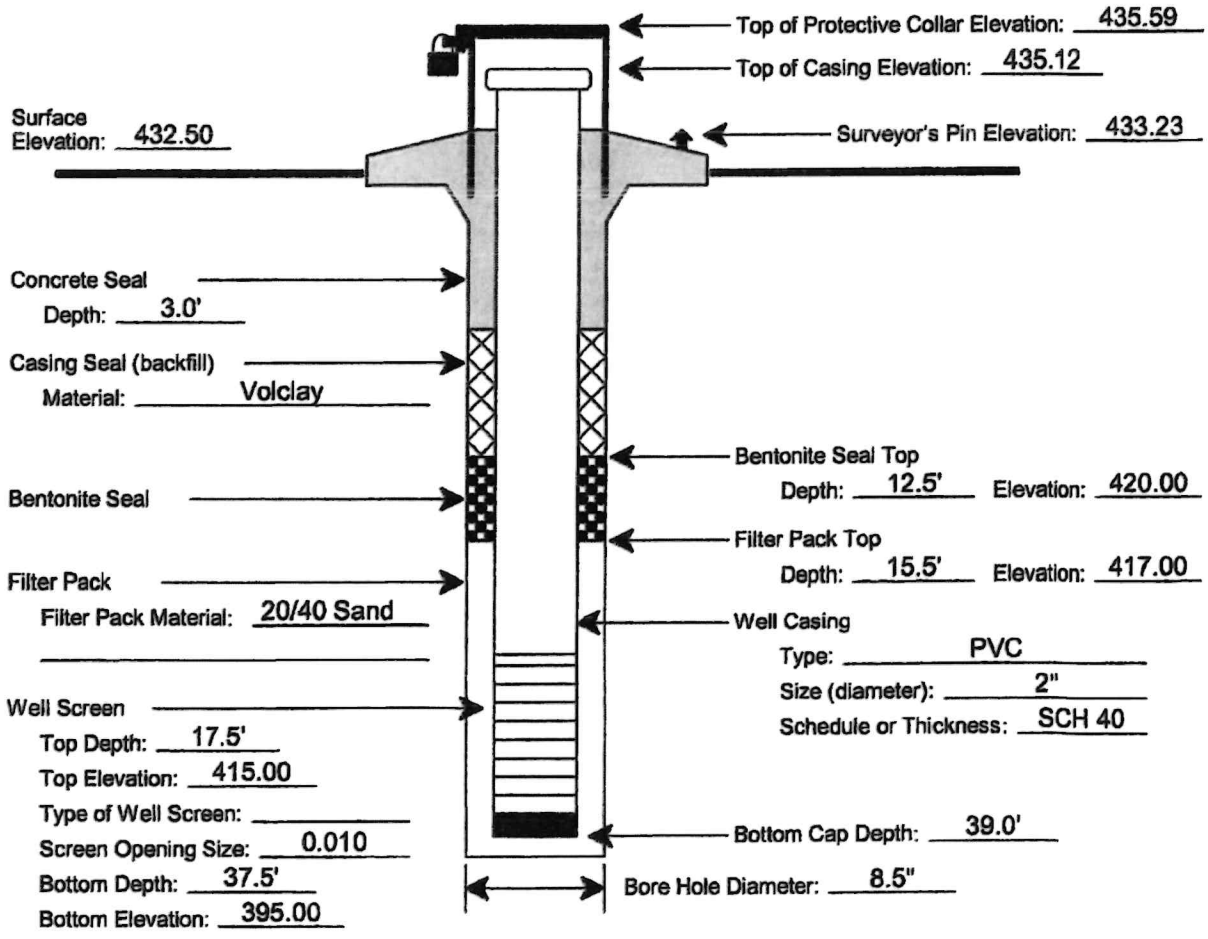
MSW Permit No.: 42-D
Monitor Well I.D. No.: MW-34
Date of Monitor Well Development: 8/1/19
Monitor Well Driller Name: S. Stamoulis
License No.: 54882

NOTES:

- Report all depths from Surface Elevation and all Elevations relative to Mean Sea Level (MSL), to nearest hundredth of a foot.
- Diameter of boring should be at least 4 inches larger than diameter of well casing.
- Use flush screw joint casing only, 2-inch diameter or larger, with o-rings or PTFE tape in joints (4-inch diameter recommend).
- Well development should continue until water is clear, and pH and conductivity are stable.

Geologist, Hydrologist, or Engineer Supervising Well Installation: S. Stamoulis
Static Water Level Elevation (with respect to MSL) after Well Development: 407.07
Name of Geologic Formation(s) in which Well is completed: Taylor Marl

Type of Locking Device: Padlock Type of Casing Protection: PVC
Concrete Surface Pad (with steel reinforcement) Dimensions: 6' x 6' x 6"



TCEQ-10308

State of Texas Well Reports

Existing Monitoring Wells

STATE OF TEXAS WELL REPORT for Tracking #517682

Owner:	WMI SKYLINE	Owner Well #:	MW-1R
Address:	1201 N CENTRAL STREET FERRIS, TX 75215	Grid #:	33-27-5
Well Location:	1201 N CENTRAL STREET FERRIS, TX 75215	Latitude:	32° 32' 33" N
		Longitude:	096° 40' 37" W
Well County:	Ellis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 10/5/2018 Drilling End Date: 8/1/2019

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.5	0	65

Drilling Method: Hollow Stem Auger

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	40.5	65	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	37.5	Bentonite 2.5 Bags/Sacks
	37.5	40.5	BENTONITE CHIPS 1 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed — Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET

17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	6	CLAY, DARK BROWN, W/ROOTLETS W/CAL NODS
6	61	CLAY, TAN AND GREY, W/CAL NODS, W/FE STRAINS
61	65	MARL, DK GREY, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	42.5
2	Screen	New Plastic (PVC)	0.010	42.5	62.5
2	SUMP	New Plastic (PVC)	SCH 40	62.5	64

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #124515

Owner:	North Texas Market Area Waste Management	Owner Well #:	MW-2R
Address:	1201 N. Central Ferris , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. Central Ferris , TX 75125	Latitude:	32° 32' 45" N
Well County:	Ellis	Longitude:	096° 40' 56" W
Elevation:	No Data	GPS Brand Used:	Garmin eTrex
Type of Work:	Replacement Well	Proposed Use:	Monitor

Drilling Date: Started: 8/27/2007
Completed: 8/27/2007

Diameter of Hole: Diameter: 10.5 in From Surface To 76 ft

Drilling Method: Hollow Stem Auger

Borehole Completion: Gravel Packed From: 52 ft to 77 ft
Gravel Pack Size: filtersand

Annular Seal Data: 1st Interval: From 0 ft to 2 ft with 2 concrete (#sacks and material)
2nd Interval: From 2 ft to 52 ft with 10 grout/1 bent (#sacks and material)
3rd Interval: From 52 ft to 77 ft with 5 filter sand (#sacks and material)
Method Used: gravity flow
Cemented By: Buford Collier
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: No Data
Method of Verification: No Data
Approved by Variance: No Data

Surface Completion: Surface Slab Installed

Water Level: Static level: No Data
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: Other: handbailed
Depth to pump bowl: (No Data) ft

Well Tests: No Data

Water Quality: Type of Water: No Data
Depth of Strata: No Data
Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company: Apex Geoscience Inc.

Information:	**2120 Brandon Dr. Tyler , TX 75703**
Driller License Number:	**50089**
Licensed Well Driller Signature:	**Buford Collier**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#124515**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-28' Soft, dry, brown silty clay
28'-45' Medium stiff, dry, light brown silty clay, calcareous
45'-48' Stiff, dry, black, silty clay, fissle
48'-48' Stiff, brown, dry, silty clay, selentic crystals
48'-50' Stiff, brown, dry, silty clay, fissle
50'-55' Stiff, gray, dry, silty clay fissle
55'-77' Hard, gray, dry silty clay fissle

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
4" N Sch 40 PVC Riser 0-55'
4" N Sch 40 PVC Slotted screen 55'-75' 0.010"
4" N Sch 40 PVC Sump 75'-76'

STATE OF TEXAS WELL REPORT for Tracking #124518

Owner:	North Texas Market Area Waste Management	Owner Well #:	MW-3R
Address:	1201 N. Central Ferris , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. Central Ferris , TX 75125	Latitude:	32° 32' 53" N
Well County:	Ellis	Longitude:	096° 41' 03" W
Elevation:	No Data	GPS Brand Used:	Garmin eTrex
Type of Work:	Replacement Well	Proposed Use:	Monitor

Drilling Date: Started: **8/27/2007**
Completed: **8/27/2007**

Diameter of Hole: Diameter: **10.5 in From Surface To 62 ft**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: Gravel Packed From: **3 ft to 63 ft**
Gravel Pack Size: **filtersand**

Annular Seal Data: 1st Interval: **From 0 ft to 2 ft with 2 concrete (#sacks and material)**
2nd Interval: **From 2 ft to 38 ft with 10 grout/1 bent (#sacks and material)**
3rd Interval: **From 38 ft to 63 ft with 5 filter sand (#sacks and material)**
Method Used: **gravity flow**
Cemented By: **Buford Collier**
Distance to Septic Field or other Concentrated Contamination: **No Data**
Distance to Property Line: **No Data**
Method of Verification: **No Data**
Approved by Variance: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: Static level: **No Data**
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: Casing or Cement/Bentonite left in well: **No Data**

Type Of Pump: **Other: handbailed**
Depth to pump bowl: **(No Data) ft**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No**
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company **Apex Geoscience Inc.**

Information:	**2120 Brandon Dr. Tyler , TX 75703**
Driller License Number:	**50089**
Licensed Well Driller Signature:	**Buford Collier**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. *CODE* Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #124518) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-1' Medium stiff, dry, light brown, silty clay, organic
1'-2' Medium stiff, dry, light brown, silty clay, selentic crystals
2'-3' Medium stiff, dry, brown silty clay selentic crystals
3'-7' Medium stiff, dry, brown silty clay calcareous
7'-10' Medium stiff, moist, light brown, silty clay calcareous
10'-28' Stiff, dark gray, dry, silty clay, calcareous
28'-45' Very stiff, dry, dark gray, silty clay, fissile
45'-50' Very stiff, black, dry, silty clay, with iron stain below 47'
50'-59' Very stiff, gray, dry, silty clay
59'-63' Hard, dry, dark gray, silty clay

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
4" N Sch 40 PVC Riser 0-41'
4" N Sch 40 PVC Slotted screen 41'-61' 0.010"
4" N Sch 40 PVC Sump 61'-62'

STATE OF TEXAS WELL REPORT for Tracking #545555

Owner:	WMI SKYLINE	Owner Well #:	MW-5R
Address:	1201 N CENTRAL ST FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N CENTRAL ST FERRIS, TX 75125	Latitude:	32° 33' 10" N
		Longitude:	096° 41' 01" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 5/15/2020 Drilling End Date: 5/15/2020

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	20.5

Drilling Method: Hollow Stem Auger

Borehole Completion: Screened

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	3	Cement 1 Bags/Sacks
	3	5	BENTONITE GROUT 1 Bags/Sacks
	5	8	BENTONITE CHIPS 1 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed — Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET
17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4	CLAY, BROWN, FIRM
4	19	CLAY, TAN (WEATHERED TAYLOR) W/CAL NODS, STIFF
19	20.5	GREY, HARD (UNWEATHERED TAYLOR)

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	10
2	Screen	New Plastic (PVC)	SCH 40 0.010	10	20

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #399871

Owner:	WMI - SKYLINE LANDFILL	Owner Well #:	MW-8R
Address:	1201 N. CENTRAL ST. FERRIS , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL ST FERRIS , TX 75125	Latitude:	32° 33' 16" N
Well County:	Dallas	Longitude:	096° 40' 48" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:
Started: 7/20/2015
Completed: 7/20/2015

Diameter of Hole:
Diameter: 6 1/2 In From Surface To 12.5 ft

Drilling Method:
Other: SOLID FLIGHT AUGERS

Borehole Completion:
Gravel Packed From: 4.0 ft to 12.5 ft
Gravel Pack Size: 20/40 SAND

Annular Seal Data:
1st Interval: From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material)
2nd Interval: From 3.0 ft to 4.0 ft with 1 BENT. CHIPS (#sacks and material)
3rd Interval: No Data
Method Used: HAND POUR
Cemented By: DRILLER
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: No Data
Method of Verification: No Data
Approved by Variance: No Data

Surface Completion:
Surface Slab Installed

Water Level:
Static level: No Data
Artesian flow: No Data

Packers:
No Data

Plugging Info:
Casing or Cement/Bentonite left in well: No Data

Type Of Pump:
No Data

Well Tests:
No Data

Water Quality:
Type of Water: No Data
Depth of Strata: No Data
Chemical Analysis Made: No Data
Did the driller knowingly penetrate any strata which contained undesirable constituents: No Data

Certification Data:
The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information:
H/ET
17226 E HWY 6
ALVIN , TX 77511

Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #399871) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-2.0 CLAY, DK BRN AND BLACK, STIFF.
2.0-9.0 CLAY, BRN TO DK BRN, STIFF TO VERY STIFF.
9.0-12.5 SHALE, UNWEATHERED, DK GRAY, HARD.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	N	PVC - RISER	0-6.0 SCH.40
2"	N	PVC - SCREEN	6.0-11.0 0.010

STATE OF TEXAS WELL REPORT for Tracking #615010

Owner:	WMI - SKYLINE LANDFILL	Owner Well #:	MW-9R
Address:	1201 N. CENTRAL AVE FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL AVE FERRIS, TX 75125	Latitude:	32° 34' 26" N
		Longitude:	096° 40' 35" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: **7/13/2022** Drilling End Date: **7/13/2022**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	8	0	44.5

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	32	44.5	Sand	20/40

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	29	BENTONITE GROUT 2 Bags/Sacks
	29	32	BENTONITE CHIPS 2 Bags/Sacks

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3.5	CLAY, SILTY, DK BRN AND GREY, HARD
3.5	43	CLAY, BRN, HARD
43	44.5	SHALE, DK GREY, HARD (TAYLOR MARL)

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	34
2	Screen	New Plastic (PVC)	0.010	34	44

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #705353

Owner:	WMI - SKYLINE	Owner Well #:	MW-10R
Address:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 NORTH CENTRAL AVE. FERRIS, TX 75109	Latitude:	32° 33' 17" N
		Longitude:	096° 40' 35" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: **9/5/2025** Drilling End Date: **9/5/2025**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	45

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	33	45	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	29	Bentonite 4 Bags/Sacks
	29	33	CHIPS 1 Bags/Sacks

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET

11550 FM 1764
SANTA FE, TX 77510

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4	CLAY, DK BRN AND DK GREY, HARD W/ROOTLETS
4	44	CLAY (WEATHERED TAYLOR) BRN TO TAN W/CAL NODS W/FE STAINS
44	45	SHALE, UNWEATHERED, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	35
2	Screen	New Plastic (PVC)	0.010	35	45

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #399876

Owner:	WMI - SKYLINE LANDFILL	Owner Well #:	MW-11R
Address:	1201 N. CENTRAL ST. FERRIS , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL ST. FERRIS , TX 75125	Latitude:	32° 33' 15" N
Well County:	Dallas	Longitude:	096° 40' 26" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date: Started: 7/20/2015
Completed: 7/20/2015

Diameter of Hole: Diameter: 6 1/2 in From Surface To 29.5 ft

Drilling Method: Other: SOLID FLIGHT AUGERS

Borehole Completion: Gravel Packed From: 15.0 ft to 29.5 ft
Gravel Pack Size: 20/40 SAND

Annular Seal Data: 1st Interval: From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material)
2nd Interval: From 3.0 ft to 12.0 ft with 2 BENTONITE (#sacks and material)
3rd Interval: From 12.0 ft to 15.0 ft with 1 BENT. CHIPS (#sacks and material)
Method Used: TREMIE
Cemented By: DRILLER
Distance to Septic Field or other Concentrated Contamination: No Data
Distance to Property Line: No Data
Method of Verification: No Data
Approved by Variance: No Data

Surface Completion: Surface Slab Installed

Water Level: Static level: No Data
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: No Data

Well Tests: No Data

Water Quality: Type of Water: No Data
Depth of Strata: No Data
Chemical Analysis Made: No Data
Did the driller knowingly penetrate any strata which contained undesirable constituents: No Data

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information:

H/ET
17226 E HWY 6
ALVIN , TX 77511

Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. *The Department* shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #399876) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-2.0 CLAY, DK BRN TO BLACK, STIFF.
2.0-28.0 CLAY, LIGHT BRN TO TAN, STIFF TO VERY STIFF.
28.0-29.5 SHALE, UNWEATHERED, DK GRAY, HARD.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	N	PVC - RISER	0-18.0 SCH.40
2"	N	PVC - SCREEN	18.0-28.0 0.010

STATE OF TEXAS WELL REPORT for Tracking #714768

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-12R**
Address:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Latitude:	**32° 33' 15" N**
		Longitude:	**096° 40' 17" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **1/8/2026** Drilling End Date: **1/9/2026**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**21.5**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**9**	**21.5**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**9**	**BENTONITE CHIPS 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

11550 FM 1764
SANTA FE, TX 77510

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	7	CLAY, TAN TO LIGHT BRN, W/ROOTLETS, STIFF
7	21.5	SHALE, DK GREY, UNWEATHERED HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	11
2	Screen	New Plastic (PVC)	0.010	11	21

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #427730

Owner:	WMI SKYLINE	Owner Well #:	MW-13R
Address:	1201 N CENTRAL ST. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N CENTRAL ST. FERRIS, TX 75125	Latitude:	32° 33' 05.6" N
		Longitude:	096° 40' 15.3" W
Well County:	Dallas	Elevation:	No Data

Type of Work: Replacement for Tracking # 424946 Proposed Use: Monitor

Drilling Start Date: 7/21/2016 Drilling End Date: 7/21/2016

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	45.5

Drilling Method: SOLID FLIGHT AUGERS

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	31.5	45.5	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	28	Bentonite 2 Bags/Sacks
	28	31.5	BENTONITE CHIPS 1 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: HVET
17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	43.5	CLAY, LIGHT BROWN, BROWN AND GREY, STIFF TO HARD (FILL)
43.5	45.5	SHALE, DARK GREY, UNWEATHERED, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch/Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	33.5
2	Screen	New Plastic (PVC)	0.010	33.5	43.5
2	SUMP	New Plastic (PVC)	40	43.5	44.5

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS WELL REPORT for Tracking #714770

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-17R**
Address:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Latitude:	**32° 32' 39" N**
		Longitude:	**096° 40' 12" W**
Well County:	**Ellis**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **1/7/2026** Drilling End Date: **1/8/2026**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**56**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**40**	**56**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**37**	**Bentonite 4 Bags/Sacks**
	37	**40**	**BENTONITE CHIPS 1 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

11550 FM 1764
SANTA FE, TX 77510

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	6	CLAY DK BRN, STIFF W/LIGHT BRN, SEAMS
6	44	CLAY, TAN, STIFF W/CAL NODS
44	56	SHALE, DK GREY, UNWEATHERED, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	44.5
2	Screen	New Plastic (PVC)	0.010	44.5	54.5

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #27847

Owner:	**N. TX Market Area Waste Mngmt**	Owner Well #:	**20-R**
Address:	**1201 N. Central Ferris, TX 75125**	Grid #:	**33-27-8**
		Latitude:	**32° 32' 28" N**
Well Location:	**Skyline Landfill Ferris, TX 75125**	Longitude:	**096° 40' 04" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **10/20/2003** Drilling End Date: **10/20/2003**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.5**	**0**	**36**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Silica sand #20-#40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**12**	**36**	**Gravel**	**20/40 Sand**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**1 Cement**
	2	**12**	**5 Bent.Pellets**

Seal Method: **gravity flow**

Sealed By: **Driller**

Distance to Property Line (ft.): **n/a**

Distance to Septic Field or other concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **city maps**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Hand bailed**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Geoscience Inc**

2120 Brandon Dr.
Tyler, TX 75703

Driller Name: **Jim Markle** License Number: **54289**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
		0-2 Stiff, tan, Clay with brick fragments (fill)
		2-25.5 Stiff, gray, Clay, weathered Taylor, with occasional tan seams and calcareous nodules
		11 tan and gray below 11
		15 occasional selenite seams below 15
		18.5 Selenite seams becoming more numerous below 18.5
		22.5 hard, dark gray with occasional tan seams and selenite
		25.5-36 Hard, dark gray, clay Taylor Marl, with occasional iron-stained joints and fissures
		32.5 no iron staining below 32.5

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
			2" N Riser, PVC, FJT, Sch 40 0-14.5'
			2" N Screen, PVC, FJT, Sch 40 12'-34.5 0.010

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #399869

Owner:	WMI - SKYLINE LANDFILL	Owner Well #:	MW-21R
Address:	1201 N. CENTRAL ST. FERRIS , TX 75125	Grid #:	33-27-5
Well Location:	F1201 N. CENTRAL ST. FERRIS , TX 75125	Latitude:	32° 33' 15" N
Well County:	Dallas	Longitude:	096° 40' 56" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: 7/20/2015 Completed: 7/20/2015
Diameter of Hole:	Diameter: 6 1/2 in From Surface To 16.0 ft
Drilling Method:	Other: SOLID FLIGHT AUGERS
Borehole Completion:	Gravel Packed From: 8.0 ft to 16.0 ft Gravel Pack Size: 20/40 SAND
Annular Seal Data:	1st Interval: From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material) 2nd Interval: From 3.0 ft to 8.0 ft with 2 BENT. CHIPS (#sacks and material) 3rd Interval: No Data Method Used: HAND POUR Cemented By: DRILLER Distance to Septic Field or other Concentrated Contamination: No Data Distance to Property Line: No Data Method of Verification: No Data Approved by Variance: No Data
Surface Completion:	Surface Slab Installed
Water Level:	Static level: No Data Artesian flow: No Data
Packers:	No Data
Plugging Info:	Casing or Cement/Bentonite left in well: No Data
Type Of Pump:	No Data
Well Tests:	No Data
Water Quality:	Type of Water: No Data Depth of Strata: No Data Chemical Analysis Made: No Data Did the driller knowingly penetrate any strata which contained undesirable constituents: No Data
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	H/ET 17226 E HWY 6 ALVIN , TX 77511

Driller License Number:	54662
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #399869) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-4.5 SHALE, WEATHERED, DK GREY AND BRN, STIFF.
4.5-16.0 SHALE, UNWEATHERED, DK GREY, HARD

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" N PVC - RISER 0-10.0 SCH.40
2" N PVC - SCREEN 10.0-15.0 0.010

STATE OF TEXAS WELL REPORT for Tracking #615011

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-22R2**
Address:	**1201 N. CENTRAL AVE FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL AVE FERRIS, TX 75125**	Latitude:	**32° 33' 16" N**
		Longitude:	**096° 40' 43" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **7/13/2022** Drilling End Date: **7/13/2022**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**20**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**12**	**20**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**9**	**BENTONITE GROUT 1 Bags/Sacks**
	9	**12**	**BENTONITE GROUT 1.5 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET

17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4	DARK GREY CLAY, STIFF (FILL)
4	18	CLAY, LIGHT GREY AND BRN, WEATHERED, HARD
18	20	SHALE, DARK GREY, HARD (TAYLOR MARL)

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	14
2	Screen	New Plastic (PVC)	0.010	14	19

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #705354

Owner:	WMI - SKYLINE	Owner Well #:	MW-23R
Address:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Latitude:	32° 33' 17" N
		Longitude:	096° 40' 31" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: **9/5/2025** Drilling End Date: **9/5/2025**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	50

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	35	50	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	32	Bentonite 5 Bags/Sacks
	32	35	CHIPS 3/8 1 Bags/Sacks

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET
11550 FM 1764
SANTA FE, TX 77510

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4.5	CLAY TAN TO LIGHT BRN, HARD
4.5	47	CLAY, L BRN, W/CAL NODS, W/FE-STAINS
47	50	SHALE, UNWEATHERED, DK GREY, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	37
2	Screen	New Plastic (PVC)	0.010	37	47

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #199774

Owner:	Waste Management	Owner Well #:	MW-24
Address:	1201 N. Central Ave. Ferris , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. Central Ave Ferris, Tx , TX 75125	Latitude:	32° 33' 15" N
Well County:	Dallas	Longitude:	096° 40' 21" W
Elevation:	422 ft.	GPS Brand Used:	Trimble R8
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: **11/9/2009** Completed: **11/9/2009**
Diameter of Hole:	Diameter: **10.5 in From Surface To 20 ft**
Drilling Method:	**Hollow Stem Auger**
Borehole Completion:	Other: **20/40 Silica Sand**
Annular Seal Data:	1st Interval: **From 2 ft to 9 ft with 4 bentonite (#sacks and material)** 2nd Interval: **From 0 ft to 2 ft with 2 concrete (#sacks and material)** 3rd Interval: **No Data** Method Used: **tremie** Cemented By: **Thomas Baker** Distance to Septic Field or other Concentrated Contamination: **500 ft** Distance to Property Line: **200 ft** Method of Verification: **site plan** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **415.4 ft. below land surface on 11/12/2009** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**LandTec Engineers, LLC** **1700 Robert Road, Suite 101**

	Mansfield , TX 76063
Driller License Number:	3016
Licensed Well Driller Signature:	Thomas D. Baker
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #199774) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	17	Clay, brown to brown & tan
17	20	Shale, gray

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
4	new	PVC	12 to 17 0.01 slot screen
4	new	pvc	0 to 12 blank

STATE OF TEXAS WELL REPORT for Tracking #199775

Owner:	Waste Management	Owner Well #:	MW-25
Address:	1201 N. Central Ave. Ferris , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. Central Ave Ferris, Tx , TX 75125	Latitude:	32° 33' 57" N
Well County:	Dallas	Longitude:	096° 40' 12" W
Elevation:	460 ft.	GPS Brand Used:	Trimble R8
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: 10/20/2009 Completed: 10/20/2009
Diameter of Hole:	Diameter: 10.5 in From Surface To 35 ft
Drilling Method:	Hollow Stem Auger
Borehole Completion:	Other: 20/40 Silica Sand
Annular Seal Data:	1st Interval: From 2 ft to 20 ft with 6 bentonite (#sacks and material) 2nd Interval: From 0 ft to 2 ft with 2 concrete (#sacks and material) 3rd Interval: No Data Method Used: tremie Cemented By: Thomas Baker Distance to Septic Field or other Concentrated Contamination: 500 ft Distance to Property Line: 200 ft Method of Verification: site plan Approved by Variance: No Data
Surface Completion:	Surface Slab Installed
Water Level:	Static level: 437.3 ft. below land surface on 11/12/2009 Artesian flow: No Data
Packers:	No Data
Plugging Info:	Casing or Cement/Bentonite left in well: No Data
Type Of Pump:	No Data
Well Tests:	No Data
Water Quality:	Type of Water: No Data Depth of Strata: No Data Chemical Analysis Made: No Data Did the driller knowingly penetrate any strata which contained undesirable constituents: No
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	LandTec Engineers, LLC 1700 Robert Road, Suite 101

	Mansfield , TX 76063
Driller License Number:	3016
Licensed Well Driller Signature:	Thomas D. Baker
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #199775) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 to 32 Clay, brown, tan & gray
32 to 35 Shale, gray

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
4 new PVC 22 to 32 0.01 slot screen
4 new pvc 0 to 22 blank

STATE OF TEXAS WELL REPORT for Tracking #199776

Owner:	Waste Management	Owner Well #:	MW-26
Address:	1201 N. Central Ave. Ferris , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. Central Ave Ferris, Tx , TX 75125	Latitude:	32° 32' 55" N
Well County:	Dallas	Longitude:	096° 40' 02" W
Elevation:	448 ft.	GPS Brand Used:	Trimble R8
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date: Started: 9/29/2009
Completed: 9/29/2009

Diameter of Hole: Diameter: 10.5 in From Surface To 20 ft

Drilling Method: Hollow Stem Auger

Borehole Completion: Other: 20/40 Silica Sand

Annular Seal Data: 1st Interval: From 2 ft to 10 ft with 5 bentonite (#sacks and material)
2nd Interval: From 0 ft to 2 ft with 2 concrete (#sacks and material)
3rd Interval: No Data
Method Used: tremie
Cemented By: Thomas Baker
Distance to Septic Field or other Concentrated Contamination: 500 ft
Distance to Property Line: 200 ft
Method of Verification: site plan
Approved by Variance: No Data

Surface Completion: Surface Slab Installed

Water Level: Static level: 428.2 ft. below land surface on 11/12/2009
Artesian flow: No Data

Packers: No Data

Plugging Info: Casing or Cement/Bentonite left in well: No Data

Type Of Pump: No Data

Well Tests: No Data

Water Quality: Type of Water: No Data
Depth of Strata: No Data
Chemical Analysis Made: No Data
Did the driller knowingly penetrate any strata which contained undesirable constituents: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: LandTec Engineers, LLC
1700 Robert Road, Suite 101

	Mansfield , TX 76063
Driller License Number:	3016
Licensed Well Driller Signature:	Thomas D. Baker
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#199776**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	17	Clay & Shaly Clay, brown, tan & gray
17	20	Shale, gray

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
4	new	PVC	12 to 17 0.01 slot screen
4	new	pvc	0 to 12 blank

STATE OF TEXAS WELL REPORT for Tracking #401031

Owner:	WMI-SKYLINE LANDFILL	Owner Well #:	MW-27
Address:	1201 N. CENTRAL ST. FERRIS , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL ST. FERRIS , TX 75125	Latitude:	32° 32' 49" N
Well County:	Dallas	Longitude:	096° 41' 00" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: **7/21/2015** Completed: **7/21/2015**
Diameter of Hole:	Diameter: **6 1/2 in From Surface To 37.5 ft**
Drilling Method:	Other: **SOLID FLIGHT AUGERS**
Borehole Completion:	Gravel Packed From: **24.0 ft to 37.5 ft** Gravel Pack Size: **20/40 SAND**
Annular Seal Data:	1st Interval: **From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material)** 2nd Interval: **From 3.0 ft to 21.0 ft with 2 BENTONITE (#sacks and material)** 3rd Interval: **From 21.0 ft to 24.0 ft with 1.5 BENT. CHIPS (#sacks and material)** Method Used: **TREMIE** Cemented By: **DRILLER** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	

H/ET
17226 E. HWY 6
ALVIN , TX 77511

Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #401031) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-2.0 (FILL) CLAY, DARK GREY AND TAN, VERY STIFF.
2.0-8.0 CLAY, BRN TO L. BRN, STIFF.
8.0-36.0 CLAY, TAN AND L. BRN, STIFF TO VERY STIFF.
36.0-37.5 SHALE (UNWEATHERED) DARK GREY, HARD.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" N PVC-RISER 0-26.0 SCH 40
2" N PVC-SCREEN 26.0-36.0 0.010

STATE OF TEXAS WELL REPORT for Tracking #401030

Owner:	WMI-SKYLINE LANDFILL	Owner Well #:	MW-28
Address:	1201 N. CENTRAL STREET FERRIS , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL STREET FERRIS , TX 75125	Latitude:	32° 32' 57" N
Well County:	Dallas	Longitude:	096° 41' 06" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: 7/21/2015 Completed: 7/21/2015
Diameter of Hole:	Diameter: 6 1/2 in From Surface To 14.5 ft
Drilling Method:	Other: SOLID FLIGHT AUGERS
Borehole Completion:	Gravel Packed From: 6.0 ft to 14.5 ft Gravel Pack Size: 20/40
Annular Seal Data:	1st Interval: From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material) 2nd Interval: From 3.0 ft to 6.0 ft with 1 BENT. CHIPS (#sacks and material) 3rd Interval: No Data Method Used: HAND POUR Cemented By: DRILLER Distance to Septic Field or other Concentrated Contamination: No Data Distance to Property Line: No Data Method of Verification: No Data Approved by Variance: No Data
Surface Completion:	Surface Slab Installed
Water Level:	Static level: No Data Artesian flow: No Data
Packers:	No Data
Plugging Info:	Casing or Cement/Bentonite left in well: No Data
Type Of Pump:	No Data
Well Tests:	No Data
Water Quality:	Type of Water: No Data Depth of Strata: No Data Chemical Analysis Made: No Data Did the driller knowingly penetrate any strata which contained undesirable constituents: No Data
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	H/ET 17226 E. HWY 6 ALVIN , TX 77511

Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #401030) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-13.0 CLAY, BRN AND LIGHT BRN, STIFF TO VERY STIFF.
13.0-14.5 SHALE, UNWEATHERED, DARK GREY, HARD.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" N PVC-RISER 0-8.0 SCH 40
2" N PVC-SCREEN 8.0-13.0 0.010

STATE OF TEXAS WELL REPORT for Tracking #424947

Owner:	WMI - SKYLINE	Owner Well #:	MW-29R
Address:	1201 N. CENTRAL ST. FERRIS, TX 15125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL ST. FERRIS, TX 15125	Latitude:	32° 33' 10" N
		Longitude:	096° 40' 16" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 6/20/2016 Drilling End Date: 6/21/2016

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	22

Drilling Method: SOLID FLIGHT AUGERS

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	14	22	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Concrete 1 Bags/Sacks
	3	11	Bentonite 1.5 Bags/Sacks
	11	14	BENTONITE CHIPS 1.5 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed — Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: HIET
17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	21	CLAY, LIGHT BROWN AND BROWN, STIFF (FILL)
21	22	SHALE, UNWEATHERED, DARK GREY, HARD.

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	16
2	Screen	New Plastic (PVC)	40 0.010	16	21
2	SUMP	New Plastic (PVC)	40	21	22

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS WELL REPORT for Tracking #424948

Owner:	WMI-SKYLINE	Owner Well #:	MW-30R
Address:	1201 N. CENTRAL ST. FERRIS, TX 75125	Grid #:	33-27-5
		Latitude:	32° 33' 09.6" N
Well Location:	1201 N. CENTRAL ST. FERRIS, TX 75125	Longitude:	096° 40' 16" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 6/20/2016 Drilling End Date: 6/21/2016

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	39

Drilling Method: SOLID FLIGHT AUGER

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	31	39	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	27	Bentonite 1.5 Bags/Sacks
	27	31	BENTONITE CHIP 1.5 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed

Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET

17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	38	CLAY, LIGHT BROWN AND BROWN, STIFF (FILL)
38	39	SHALE, UNWEATHERED, DARK GREY, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	40	0	33
2	Screen	New Plastic (PVC)	40 0.010	33	38
2	SUMP	New Plastic (PVC)	40	38	39

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS WELL REPORT for Tracking #401028

Owner:	WMI-SKYLINE	Owner Well #:	MW-31
Address:	1201 N. CENTRAL STREET FERRIS , TX 75125	Grid #:	33-27-6
Well Location:	1201 N. CENTRAL STREET FERRIS , TX 75125	Latitude:	32° 32' 49" N
Well County:	Dallas	Longitude:	096° 39' 58" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: 7/21/2015 Completed: 7/21/2015
Diameter of Hole:	Diameter: 6 1/2 in From Surface To 11.0 ft
Drilling Method:	Other: SOLID FLIGHT AUGERS
Borehole Completion:	Gravel Packed From: 3.5 ft to 11.0 ft Gravel Pack Size: 20/40 SAND
Annular Seal Data:	1st Interval: From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material) 2nd Interval: From 3.0 ft to 3.5 ft with 1 BENT. CHIPS (#sacks and material) 3rd Interval: No Data Method Used: HAND POUR Cemented By: DRILLER Distance to Septic Field or other Concentrated Contamination: No Data Distance to Property Line: No Data Method of Verification: No Data Approved by Variance: No Data
Surface Completion:	Surface Slab Installed
Water Level:	Static level: No Data Artesian flow: No Data
Packers:	No Data
Plugging Info:	Casing or Cement/Bentonite left in well: No Data
Type Of Pump:	No Data
Well Tests:	No Data
Water Quality:	Type of Water: No Data Depth of Strata: No Data Chemical Analysis Made: No Data Did the driller knowingly penetrate any strata which contained undesirable constituents: No Data
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	H/ET 17226 E. HWY 6 ALVIN , TX 77511

Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #401028) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-2.5 CLAY, LIGHT GREY AND BRN, STIFF.
2.5-7.0 CLAY, LIGHT BRN AND BRN, STIFF.
7.0-11.0 SHALE (UNWEATHERED) DARK GREY, HARD.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" N PVC-RISER 0-4.5 SCH 40
2" N PVC-SCREEN 4.5-9.5 0.010

STATE OF TEXAS WELL REPORT for Tracking #401027

Owner:	**WMI-SKYLINE**	Owner Well #:	**MW-32**
Address:	**1201 N. CENTRAL STREET FERRIS , TX 75125**	Grid #:	**33-27-6**
Well Location:	**1201 N. CENTRAL STREET FERRIS , TX 75125**	Latitude:	**32° 32' 36" N**
Well County:	**Ellis**	Longitude:	**096° 39' 57" W**
Elevation:	**No Data**	GPS Brand Used:	**GARMIN**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **7/21/2015** Completed: **7/21/2015**
Diameter of Hole:	Diameter: **6 1/2 in From Surface To 18.0 ft**
Drilling Method:	Other: **SOLID FLIGHT AUGERS**
Borehole Completion:	Gravel Packed From: **9.5 ft to 18.0 ft** Gravel Pack Size: **20/40**
Annular Seal Data:	1st Interval: **From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material)** 2nd Interval: **From 3.0 ft to 9.5 ft with 2.5 BENT. CHIPS (#sacks and material)** 3rd Interval: **No Data** Method Used: **HAND POUR** Cemented By: **DRILLER** Distance to Septic Field or other Concentrated Contamination: **No Data** Distance to Property Line: **No Data** Method of Verification: **No Data** Approved by Variance: **No Data**
Surface Completion:	**Surface Slab Installed**
Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing or Cement/Bentonite left in well: **No Data**
Type Of Pump:	**No Data**
Well Tests:	**No Data**
Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No Data**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**H/ET** **17226 E. HWY 6** **ALVIN , TX 77511**

Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #401027) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-16.5 CLAY, LIGHT BRN AND BRN, STIFF.
16.5-18.0 SHALE (UNWEATHERED) DARK GREY, HARD.

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" N PVC-RISER 0-11.5 SCH 40
2" N PVC-SCREEN 11.5-16.5 0.010

STATE OF TEXAS WELL REPORT for Tracking #401026

Owner:	WMI-SKYLINE	Owner Well #:	MW-33
Address:	1201 N. CENTRAL STREET FERRIS , TX 75125	Grid #:	33-27-6
Well Location:	1201 N. CENTRAL STREET FERRIS , TX 75125	Latitude:	32° 32' 30" N
Well County:	Ellis	Longitude:	096° 39' 57" W
Elevation:	No Data	GPS Brand Used:	GARMIN
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Date:	Started: 7/22/2015 Completed: 7/22/2015
Diameter of Hole:	Diameter: 6 1/2 in From Surface To 18.5 ft
Drilling Method:	Other: SOLID FLIGHT AUGERS
Borehole Completion:	Gravel Packed From: 10.0 ft to 18.5 ft Gravel Pack Size: 20/40 SAND
Annular Seal Data:	1st Interval: From 0 ft to 3.0 ft with 1 CEMENT (#sacks and material) 2nd Interval: From 3.0 ft to 7.0 ft with 1 BENTONITE (#sacks and material) 3rd Interval: From 7.0 ft to 10.0 ft with 1 BENTONITE CHI (#sacks and material) Method Used: TREMIE Cemented By: DRILLER Distance to Septic Field or other Concentrated Contamination: No Data Distance to Property Line: No Data Method of Verification: No Data Approved by Variance: No Data
Surface Completion:	Surface Slab Installed
Water Level:	Static level: No Data Artesian flow: No Data
Packers:	No Data
Plugging Info:	Casing or Cement/Bentonite left in well: No Data
Type Of Pump:	No Data
Well Tests:	No Data
Water Quality:	Type of Water: No Data Depth of Strata: No Data Chemical Analysis Made: No Data Did the driller knowingly penetrate any strata which contained undesirable constituents: No Data
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	

	H/ET 17226 E. HWY 6 ALVIN , TX 77511
Driller License Number:	54882
Licensed Well Driller Signature:	STEFAN STAMOULIS
Registered Driller Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Comments:	No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking #401026) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0-2.0 CLAY, LIGHT BRN AND TAN, W/ROOTLETS, STIFF.
2.0-17.0 CLAY, BROWN AND TAN, STIFF TO VERY STIFF.
17.0-18.5 SHALE,(UNWEATHERED), DARK GREY, HARD

CASING, BLANK PIPE & WELL SCREEN DATA

Dia. New/Used Type Setting From/To
2" N PVC-RISER 0-12.0 SCH 40
2" N PVC-SCREEN 12.0-17.0 0.010

STATE OF TEXAS WELL REPORT for Tracking #517681

Owner:	WMI SKYLINE	Owner Well #:	MW-34
Address:	1201 N CENTRAL STREET FERRIS, TX 75215	Grid #:	33-27-5
Well Location:	1201 N CENTRAL STREET FERRIS, TX 75215	Latitude:	32° 33' 06" N
		Longitude:	096° 41' 05" W
Well County:	Dallas	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 10/5/2018 Drilling End Date: 8/1/2019

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.5	0	40

Drilling Method: Hollow Stem Auger

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	15.5	40	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	12.5	Bentonite 1.5 Bags/Sacks
	12.5	15.5	BENTONITE CHIPS 1 Bags/Sacks

Seal Method: Tremie

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed — Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET

17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	9	CLAY, GREY AND TAN (FILL)
9	15	CLAY, L GREY STIFF TO VERY STIFF
15	36	CLAY, L GREY AND TAN, HARD
36	40	MARL, DARK GREY, HARD

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	17.5
2	Screen	New Plastic (PVC)	0.010	17.5	37.5
2	SUMP	New Plastic (PVC)	SCH 40	37.5	40

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

State of Texas Well Reports

Existing Piezometers

STATE OF TEXAS WELL REPORT for Tracking #652659

Owner:	**WMI SKYLINE**	Owner Well #:	**BME-P-1**
Address:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Grid #:	**33-27-5**
		Latitude:	**32° 33' 12" N**
Well Location:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Longitude:	**096° 41' 17" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **10/14/2023** Drilling End Date: **10/15/2023**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**28**

Drilling Method: **SONIC**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**15**	**28**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**12**	**BENTONITE GROUT 2 Bags/Sacks**
	12	**15**	**BENTONITE CHIPS 1.5 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

Report Amended on 5/14/2024 by Request #42340

Report Amended on 10/16/2025 by Request #46188

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1.5	CLAY, DK BRN W/CAL NODS
1.5	24	CLAY, DK BRN AND TAN, WEATHERED, W/CAL NODS W/FE STAINS
24	28	CLAY, UNWEATHERED, DK GREY

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	sch 40	0	17
2	Screen	New Plastic (PVC)	0.010	17	27

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #652660

Owner:	**WMI SKYLINE**	Owner Well #:	**BME-P-5**
Address:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Latitude:	**32° 33' 01" N**
		Longitude:	**096° 41' 20" W**
Well County:	**Dallas**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **10/14/2023** Drilling End Date: **10/15/2023**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**28.5**

Drilling Method: **SONIC**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**16**	**28.5**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**13**	**BENTONITE GROUT 2 Bags/Sacks**
	13	**16**	**BENTONITE CHIPS 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **Stefan Stamoulis** License Number: **54882**

Comments: **No Data**

Report Amended on 5/14/2024 by Request #42341

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3	CLAY, DK BRN, W/ CAL NODS
3	25	CLAY, WEATHERED, LIGHT GREY AND LIGHT BRN
25	28.5	CLAY, UNWEATHERED, LK GREY

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	18
2	Screen	New Plastic (PVC)	0.010	18	28

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #652661

Owner:	**WMI SKYLINE**	Owner Well #:	**BME-P-12**
Address:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Latitude:	**32° 32' 51" N**
		Longitude:	**096° 41' 20" W**
Well County:	**Ellis**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **10/14/2023** Drilling End Date: **10/15/2023**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**46**

Drilling Method: **SONIC**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**31.5**	**46**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**28.5**	**BENTONITE GROUT 3 Bags/Sacks**
	28.5	**31.5**	**BENTONITE CHIPS 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	**No Data**	**No Data**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **Stefan Stamoulis** License Number: **54882**

Comments: **No Data**

Report Amended on 5/14/2024 by Request #42339

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	CLAY, SILTY, DK GRAY AND BRN
2	42	CLAY, WEATHERED, LIGHT BRN AND TAN
42	46	CLAY, UNWEATHERED, DK GREY

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	35
2	Screen	New Plastic (PVC)	0.010	35	45

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #652662

Owner:	WMI SKYLINE	Owner Well #:	BME-P-16
Address:	1201 N. CENTRAL AVE. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL AVE. FERRIS, TX 75125	Latitude:	32° 32' 45" N
		Longitude:	096° 41' 08" W
Well County:	Ellis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: **10/14/2023** Drilling End Date: **10/15/2023**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	46.5

Drilling Method: **SONIC**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	32	46.5	Sand	20/40

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	3	Cement 1 Bags/Sacks
	3	29	BENTONITE GROUT 3 Bags/Sacks
	29	32	BENTONITE CHIPS 2 Bags/Sacks

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	CLAY, SILTY, DK GRAY
2	42	CLAY, WEATHERED, TAN AND LIGHT BRN
42	46.5	CLAY, UNWEATHERED, DK GRAY

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	35
2	Screen	New Plastic (PVC)	0.010	35	45

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #652663

Owner:	**WMI SKYLINE**	Owner Well #:	**BME-P-19**
Address:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL AVE. FERRIS, TX 75125**	Latitude:	**32° 32' 37" N**
		Longitude:	**096° 41' 06" W**
Well County:	**Ellis**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **10/14/2023** Drilling End Date: **10/15/2023**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6.5**	**0**	**46**

Drilling Method: **SONIC**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**32**	**46**	**Sand**	**20/40**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**3**	**Cement 1 Bags/Sacks**
	3	**28.5**	**BENTONITE GROUT 3 Bags/Sacks**
	28.5	**32**	**BENTONITE CHIPS 2 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: H/ET

17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	5	CLAY, DK BRN
5	42	CLAY, WEATHERED, TAN AND LIGHT BRN
42	46	CLAY, UNWEATHERED DK GRAY

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Riser	New Plastic (PVC)	SCH 40	0	35
2	Screen	New Plastic (PVC)	0.010	35	45

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

PLUGGING REPORTS

STATE OF TEXAS PLUGGING REPORT for Tracking #184500

Owner:	**WMI-SKYLINE**	Owner Well #:	**MW-1**
Address:	**1201 N. CENTRAL STREET FERRIS, TX 75215**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL STREET FERRIS, TX 75215**	Latitude:	**32° 32' 34" N**
		Longitude:	**096° 40' 43" W**
Well County:	**Ellis**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **No Data** License Number: **No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.5**	**0**	**55**

Plugging Information

Date Plugged: **1/3/2019** Plugger: **STAMOULIS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	*Top (ft.)*	*Bottom (ft.)*	*Top (ft.)*	*Bottom (ft.)*	*Description (number of sacks & material)*
4	**0**	**55**	**0**	**55**	**Cement 2 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **stefan stamoulis** License Number: **54882**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #42832

Owner:	Skyline RDF	Owner Well #:	MW-2
Address:	1201 N. Central Ferris , TX 75125	Grid #:	33-27-5
Well Location:	1201 N. Central Ferris , TX 75125	Latitude:	32° 32' 46" N
Well County:	Ellis	Longitude:	096° 40' 58" W
		GPS Brand Used:	Garmin eTrex

Well Type: Monitor

HISTORICAL DATA ON WELL TO BE PLUGGED

Original Well Driller:	William P. McGuire
Driller's License Number of Original Well Driller:	2763
Date Well Drilled:	5/23/1995
Well Report Tracking Number:	No Data
Diameter of Well:	10.5" inches
Total Depth of Well:	37' feet

Date Well Plugged:	8/27/2007
Person Actually Performing Plugging Operation:	Buford Collier
License Number of Plugging Operator:	50089
Plugging Method:	Pour in 3/8 bentonite chips when standing water in well is less than 100 feet in depth, cement top 2 feet.
Plugging Variance #:	No Data
Casing Left Data:	1st Interval: No Data 2nd Interval: No Data 3rd Interval: No Data
Cement/Bentonite Plugs Placed in Well:	1st Interval: From 0 ft to 2 ft; Sack(s)/type of cement used: 1 cement 2nd Interval: From 2 ft to 37 ft; Sack(s)/type of cement used: 15 bentonite 3rd Interval: No Data 4th Interval: No Data 5th Interval: No Data

Certification Data:	The plug installer certified that the plug installer plugged this well (or the well was plugged under the plug installer's direct supervision) and that each and all of the statements herein are true and correct. The plug installer understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	Apex Geoscience Inc. 2120 Brandon Dr.

	Tyler , TX 75703
Plug Installer License Number:	50089
Licensed Plug Installer Signature:	Buford Collier
Registered Plug Installer Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Plugging Method Comments:	No Data

Please include the plugging report's tracking number (Tracking #42832) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS PLUGGING REPORT for Tracking #42833

Owner:	Skyline RDF	Owner Well #:	MW-3
Address:	1201 N. Central Ferris , TX 75125	Grid #:	33-27-8
Well Location:	1201 N. Central Ferris , TX 75125	Latitude:	32° 31' 52" N
Well County:	Ellis	Longitude:	096° 41' 04" W
		GPS Brand Used:	Garmin eTrex

Well Type: Monitor

HISTORICAL DATA ON WELL TO BE PLUGGED

Original Well Driller:	William P. McGuire
Driller's License Number of Original Well Driller:	2763
Date Well Drilled:	5/24/1995
Well Report Tracking Number:	No Data
Diameter of Well:	10.5 inches
Total Depth of Well:	55' feet

Date Well Plugged:	8/27/2007
Person Actually Performing Plugging Operation:	Buford Collier
License Number of Plugging Operator:	50089
Plugging Method:	Pour in 3/8 bentonite chips when standing water in well is less than 100 feet in depth, cement top 2 feet.
Plugging Variance #:	No Data
Casing Left Data:	1st Interval: No Data 2nd Interval: No Data 3rd Interval: No Data
Cement/Bentonite Plugs Placed in Well:	1st Interval: From 0 ft to 2 ft; Sack(s)/type of cement used: 1 cement 2nd Interval: From 2 ft to 55 ft; Sack(s)/type of cement used: 20 bentonite 3rd Interval: No Data 4th Interval: No Data 5th Interval: No Data

Certification Data:	The plug installer certified that the plug installer plugged this well (or the well was plugged under the plug installer's direct supervision) and that each and all of the statements herein are true and correct. The plug installer understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	Apex Geoscience Inc. 2120 Brandon Dr.

	Tyler , TX 75703
Plug Installer License Number:	50089
Licensed Plug Installer Signature:	*Buford Colller*
Registered Plug Installer Apprentice Signature:	No Data
Apprentice Registration Number:	No Data
Plugging Method Comments:	No Data

Please include the plugging report's tracking number (Tracking #42833) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

STATE OF TEXAS PLUGGING REPORT for Tracking #199534

Owner:	WMI SKYLINE	Owner Well #:	MW-5
Address:	1201 N CENTRAL ST FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N CENTRAL ST FERRIS, TX 75125	Latitude:	32° 33' 10" N
		Longitude:	096° 41' 01" W
Well County:	Dallas	Elevation:	No Data
Well Type:	Monitor		

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	No Data	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4	0	32

Plugging Information

Date Plugged: 5/15/2020 Plugger: STAMOULIS

Plug Method: Tremmie pipe cement from bottom to top

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	Top (ft.)	Bottom (ft.)	Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
4	0	32	0	32	Cement 2.5 Bags/Sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: H/ET

17226 E HWY 6
ALVIN, TX 77511

Driller Name: STEFAN STAMOULIS License Number: 54882

Comments: No Data

STATE OF TEXAS PLUGGING REPORT for Tracking #32173

Owner:	**TPI Petroleum, Inc.**	Owner Well #:	**MW-8**
Address:	**6000 N. Loop 1604 West San Antonio, TX 78249**	Grid #:	**33-27-5**
		Latitude:	**32° 32' 30" N**
Well Location:	**104 South Interstate 45 Wilmer, TX 75172**	Longitude:	**096° 40' 39" W**
Well County:	**Dallas**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **unknown** License Number: **No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**2**		**25**

Plugging Information

Date Plugged: **6/14/2006** Plugger: **Chad E. Anderson**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete**
2	**25**	**Bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **CFCS, LP**

4200 N. Main St, Suite 250
Fort Worth, TX 76106

Driller Name: **Chad E. Anderson** License Number: **54635**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #222111

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-9**
Address:	**1201 N. CENTRAL AVE FERRIS, TX 75125**	Grid #:	**33-27-5**
		Latitude:	**32° 33' 13" N**
Well Location:	**1201 N. CENTRAL AVE FERRIS, TX 75125**	Longitude:	**096° 40' 39" W**
Well County:	**Dallas**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	11	0	38

Plugging Information

Date Plugged: **7/13/2022** Plugger:

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	*Top (ft.)*	*Bottom (ft.)*	*Top (ft.)*	*Bottom (ft.)*	*Description (number of sacks & material)*
4	0	38	0	38	**Cement 5 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **GROUTED WELL IN PLACE**

STATE OF TEXAS PLUGGING REPORT for Tracking #248714

Owner:	WMI - SKYLINE	Owner Well #:	MW-10
Address:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Latitude:	32° 33' 14.8" N
		Longitude:	096° 40' 30" W
Well County:	Dallas	Elevation:	No Data

Well Type: **Monitor**

Drilling Information

Company:	UNKNOWN	Date Drilled:	5/23/1995
Driller:	WILLIAM MCGUIRE	License Number:	2763M

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10.5	0	49

Plugging Information

Date Plugged: **9/5/2025** Plugger: **STAMOULIS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	Top (ft.)	Bottom (ft.)	Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
4	20	49	0	49	Cement 5 Bags/Sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

11550 FM 1764
SANTA FE, TX 77510

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **REMOVED SURFACE COMPLETION**

STATE OF TEXAS PLUGGING REPORT for Tracking #103557

Owner:	WMI - SKYLINE	Owner Well #:	MW-11
Address:	1201 N. CENTRAL STREET FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL STREET FERRIS, TX 75125	Latitude:	32° 33' 16" N
		Longitude:	096° 40' 27" W
Well County:	Dallas	Elevation:	No Data

Well Type: **Monitor**

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	UNKNOWN	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		37

Plugging Information

Date Plugged: **7/24/2015** Plugger: **STAMOULIS**

Plug Method: **Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	Top (ft.)	Bottom (ft.)	Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
4	10	37	0	2	1 CEMENT
			2	37	3 BENTONITE CHIPS

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E. HWY 6
ALVIN, TX 77511

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #251396

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-12**
Address:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Latitude:	**32° 33' 15" N**
		Longitude:	**096° 40' 17" W**
Well County:	**Dallas**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.5**	**0**	**21.5**

Plugging Information

Date Plugged: **1/8/2026** Plugger:

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	*Top (ft.)*	*Bottom (ft.)*	*Top (ft.)*	*Bottom (ft.)*	*Description (number of sacks & material)*
1	**0**	**21.5**	**0**	**21.5**	**Cement 3 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

11550 FM 1764
SANTA FE, TX 77510

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #159355

Owner:	**Waste Management of Texas**	Owner Well #:	**MW-13**
Address:	**1201 N. Central St. Ferris, TX 75125**	Grid #:	**33-27-5**
		Latitude:	**32° 33' 10" N**
Well Location:	**1201 N. Central St. Ferris, TX 75125**	Longitude:	**096° 40' 17" W**
Well County:	**Dallas**	Elevation:	**433**
Well Type:	**Monitor**		

Drilling Information

Company:	**No Data**	Date Drilled:	**5/15/1995**
Driller:	**William P. McGuire**	License Number:	**2763**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.5**	**0**	**25**

Plugging Information

Date Plugged: **5/6/2016** Plugger: **Thomas D. Baker**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
4	**2**	**25**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**2**	**Cement 1 Bags/Sacks**
2	**25**	**Bentonite 4 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **LandTec Engineers, LLC**
1700 Robert Road
Mansfield, TX 76063

Driller Name: **Thomas D. Baker** License Number: **3016**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #251398

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-17**
Address:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Grid #:	**33-27-5**
Well Location:	**1201 N. CENTRAL STREET FERRIS, TX 75125**	Latitude:	**32° 32' 39" N**
		Longitude:	**096° 40' 12" W**
Well County:	**Ellis**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.5**	**0**	**56**

Plugging Information

Date Plugged: **1/8/2026** Plugger: **STAMOULIS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	*Top (ft.)*	*Bottom (ft.)*	*Top (ft.)*	*Bottom (ft.)*	*Description (number of sacks & material)*
4	**0**	**56**	**0**	**56**	**Cement 4 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

11550 FM 1764
SANTA FE, TX 77510

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #14293

Owner:	N. TX Market Area Waste Mngmt	Owner Well #:	MW-20
Address:	1201 N. Central Ferris, TX 75125	Grid #:	33-27-5
Well Location:	Ferris, TX 75125	Latitude:	32° 33' 23" N
		Longitude:	096° 40' 25" W
Well County:	Dallas	Elevation:	No Data
Well Type:	Monitor		

Drilling Information

Company:	No Data	Date Drilled:	9/20/1994
Driller:	William P. McGuire	License Number:	2763

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10.5		35.5

Plugging Information

Date Plugged: **10/15/2003** Plugger: **Jim Markle**

Plug Method: **Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
6	5.5	35.5

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	2	1 cement
2	35.5	27 bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Apex Geoscience Inc.**

2120 Brandon Dr.
Tyler, TX 75703

Driller Name: **Jim Markle** License Number: **54289**

Comments: **No Data**

Tracking# 14293

State of Texas

PLUGGING REPORT

A. WELL IDENTIFICATION AND LOCATION DATA

OWNER: N. TX Market Area Waste Mngmt
ADDRESS: 1201 N. Central Ferris TX 75125

ADDRESS OF WELL: Ferris TX 75125

County: Dallas Latitude: 323283 Longitude: 964025 Brand/Model of GPS: Garmin

OWNER'S WELL NO. MW-20

WELL TYPE (Check) ☐ Water ☑ Monitor ☐ Injection ☐ De-Watering

B. HISTORICAL DATA ON WELL TO BE PLUGGED (if available)

Driller: William P. McGuire License No.: 2763

Date Drilled: 9/20/1994 State Well Report Tracking No.

Diameter of hole: 10.5 inches. Total Depth of well: 35.5 feet.

C. CURRENT PLUGGING DATA

Date well plugged: 10/15/2003 Name of Driller/Pump Installer who actually performed the plugging operations: Jim Markle

Method of Plugging:

☐ Tremmie pipe cement from bottom to top

☐ Pour in 3/8 bentonite chips when standing water in well is less than 100 feet in depth, cement top 2 feet

☐ Other, Explained in comments section

☑ Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet

☐ Large diameter well filled with clay material from top to bottom

Plugging Variance No.

Casing and cementing data relative to the plugging operations:

Casing Left In Well:

Diameter (inches)	From (feet)	To (feet)
6	35.5	5.5

Materials Used for Plugging Well:

From (feet)	To (feet)	Sack(s) of Cement (or specify other) Used
0	2	1 cement
35.5	2	27 bentonite

Comments:

D. VALIDATION OF INFORMATION INCLUDED IN FORM

I certify that I plugged this well (or the well was plugged under my supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 13 will result in the report(s) being returned for completion and resubmittal.

Company or Individual's Name: Apex Geoscience Inc.

Address: 2120 Brandon Dr. Tyler TX 75703

Signatures: Licensed Driller/Pump Installer Trainee/Apprentice Apprentice Lic. No.

Lic# 54289 Jim Markle (As Signature) (As Signature)

STATE OF TEXAS PLUGGING REPORT for Tracking #103558

Owner:	WMI-SKYLINE	Owner Well #:	MW-21
Address:	1201 N. CENTRAL STREET FERRIS, TX 75125	Grid #:	33-27-5
		Latitude:	32° 33' 18" N
Well Location:	1201 N. CENTRAL STREET FERRIS, TX 75125	Longitude:	096° 40' 56" W
Well County:	Dallas	Elevation:	No Data

Well Type: **Monitor**

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	UNKNOWN	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		25

Plugging Information

Date Plugged: **7/24/2015** Plugger: **STAMOULIS**

Plug Method: **Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	5	25

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	2	1 CEMENT
2	25	3 BENTONITE CHIPS

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E. HWY 6
ALVIN, TX 77511

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #222129

Owner:	**WMI - SKYLINE LANDFILL**	Owner Well #:	**MW-22R**
Address:	**1201 N. CENTRAL AVE FERRIS, TX 75125**	Grid #:	**33-27-5**
		Latitude:	**32° 33' 14" N**
Well Location:	**1201 N. CENTRAL AVE FERRIS, TX 75125**	Longitude:	**096° 40' 48" W**
Well County:	**Dallas**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**2**	**0**	**30**

Plugging Information

Date Plugged: **8/18/2022** Plugger: **Stamoulis**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:			Plug(s) Placed in Well:		
Dia (in.)	*Top (ft.)*	*Bottom (ft.)*	*Top (ft.)*	*Bottom (ft.)*	*Description (number of sacks & material)*
2	**0**	**30**	**0**	**30**	**Cement 1.5 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

17226 E HWY 6
ALVIN, TX 77511

Driller Name: **Stefan Stamoulis** License Number: **54882**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #248715

Owner:	WMI - SKYLINE	Owner Well #:	MW-23
Address:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Grid #:	33-27-8
Well Location:	1201 NORTH CENTRAL AVE. FERRIS, TX 75125	Latitude:	32° 32' 15" N
		Longitude:	096° 40' 30" W
Well County:	Ellis	Elevation:	No Data

Well Type: **Monitor**

Drilling Information

Company:	LANDTEC	Date Drilled:	10/20/2009
Driller:	THOMAS BAKER	License Number:	3016M

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10.5	0	35

Plugging Information

Date Plugged: **9/5/2025** Plugger: **STEFAN STAMOULIS**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	35	Cement 4 Bags/Sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **H/ET**

11550 FM 1764
SANTA FE, TX 77510

Driller Name: **STEFAN STAMOULIS** License Number: **54882**

Comments: **REMOVED SURFACE COMPLETION**

STATE OF TEXAS PLUGGING REPORT for Tracking #159346

Owner:	WMI - SKYLINE LANDFILL	Owner Well #:	MW-29
Address:	1201 N. CENTRAL ST. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL ST. FERRIS, TX 75125	Latitude:	32° 33' 11" N
		Longitude:	096° 40' 15" W
Well County:	Dallas	Elevation:	No Data

Well Type: **Monitor**

Drilling Information

Company: **H/ET** Date Drilled: **7/20/2015**

Driller: **Stefan Stamoulis** License Number: **54882**

Well Report Tracking #399877

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	18

Plugging Information

Date Plugged: **5/6/2016** Plugger: **Thomas D. Baker**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
2	2	18

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
2	18	Bentonite 2 Bags/Sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **LandTec Engineers, LLC**

1700 Robert Road
Mansfield, TX 76063

Driller Name: **Thomas D. Baker** License Number: **3016**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #159347

Owner:	WMI-SKYLINE LANDFILL	Owner Well #:	MW-30
Address:	1201 N. CENTRAL ST. FERRIS, TX 75125	Grid #:	33-27-5
Well Location:	1201 N. CENTRAL ST. FERRIS, TX 75125	Latitude:	32° 33' 00" N
		Longitude:	096° 40' 15" W
Well County:	Dallas	Elevation:	No Data

Well Type: **Monitor**

Drilling Information

Company: **H/ET** Date Drilled: **7/20/2015**

Driller: **Stefan Stamoulis** License Number: **54882**

Well Report Tracking #401029

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	6.5	0	14.5

Plugging Information

Date Plugged: **5/6/2016** Plugger: **Thomas D. Baker**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
2	2	14.5

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	2	Cement 1 Bags/Sacks
2	14.5	Bentonite 2 Bags/Sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **LandTec Engineers, LLC**

1700 Robert Road
Mansfield, TX 76063

Driller Name: **Thomas D. Baker** License Number: **3016**

Comments: **No Data**

PIEZOMETER DETAIL SHEETS

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas
CLIENT: Waste Management of North America
Dallas, Texas
LOCATION: Near Boring CB-23

WELL NO: P-1
PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 5-27-87

DRY AUGURED 0 TO 23 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID none

PIEZOMETER DEVELOPMENT

DATE: 5-28-87

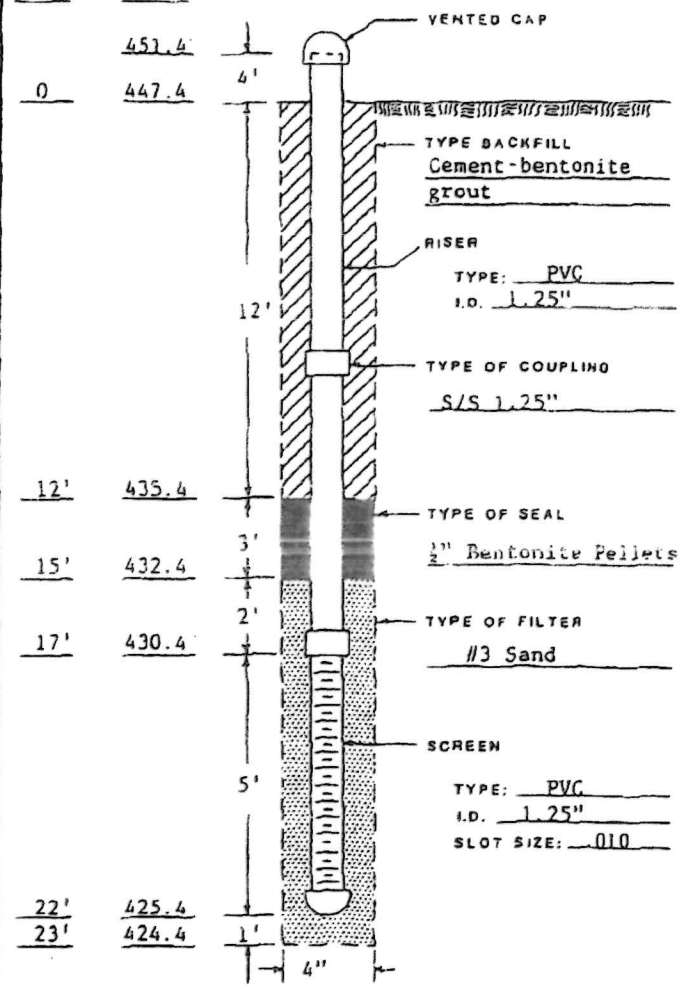
METHOD: Air

WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH [a]	ELEVATION
5-28-87		Dry
6-02-87		Dry
7-01-87		Dry
10-16-87		Dry
11-5-87 [b]		Dry
3-10-88 [b]	1.4	446.0
5-27-88 [b]	16.7	430.7
11-7-90	17.4	430.0
11-16-90	17.9	429.5
12-18-90	19.2	428.2
1-9-91	18.8	428.6

a - Depth below ground surface
b - Water level readings taken by WMNA.



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas
CLIENT: Waste Management of North America
Dallas, Texas
LOCATION: Near Boring CB-23

WELL NO: P-2
PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 5-27-87

DRY AUGURED 0 TO 13.5 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID none

PIEZOMETER DEVELOPMENT

DATE: 5-28-87

METHOD: Air

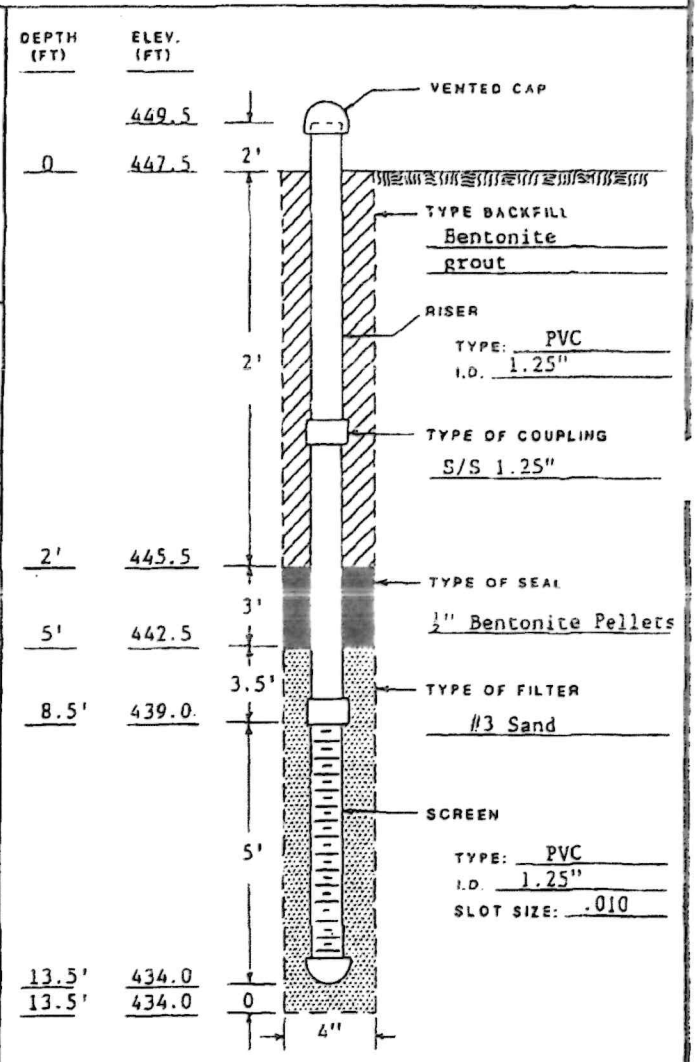
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH [a]	ELEVATION
5-28-87		Dry
6-02-87		Dry
7-01-87		Dry
10-16-87		Dry
11-5-87[b]		Dry
3-10-88[b]		Dry
5-27-88[b]		Dry
11-7-90		Dry
11-16-90		Dry
12-18-90		Dry
1-9-91		Dry

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS:

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

CLIENT: Waste Management of North America
Dallas, Texas

LOCATION: Near Boring CB-25

WELL NO: P-3

PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 5-27-87

DRY AUGURED 0 TO 25 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID none

PIEZOMETER DEVELOPMENT

DATE: 5-28-87

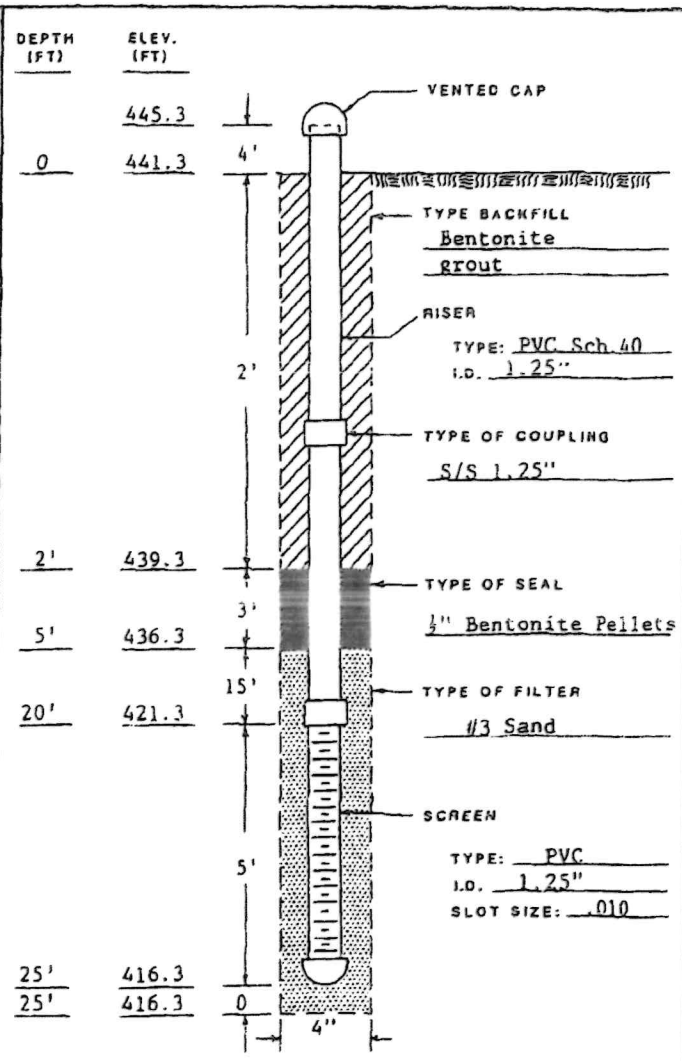
METHOD: Air

WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH[a]	ELEVATION
5-28-87		Dry
6-02-87		Dry
7-01-87	22.8	418.5
10-16-87	22.0	419.3
11-5-87 [b]	21.5	419.8
3-10-88 [b]	14.8	426.5
5-11-88 [b]	12.9	428.4
11-7-90	18.6	422.7
11-16-90	24.3	417.0
12-18-90	22.8	418.5
1-9-91	5.9	435.4

a - Depth below ground surface
b - Water level readings taken by WMNA.



REMARKS:

McBride Ratcliff and Associates Inc

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas
CLIENT: Waste Management of North America
Dallas, Texas
LOCATION: Near Boring GB-25

WELL NO: P-4
PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 5-28-87

DRY AUGURED 0 TO 24 FT

WASH BORED _____ TO _____ FT

DRILLING FLUID none

PIEZOMETER DEVELOPMENT

DATE: 5-29-87

METHOD: Air

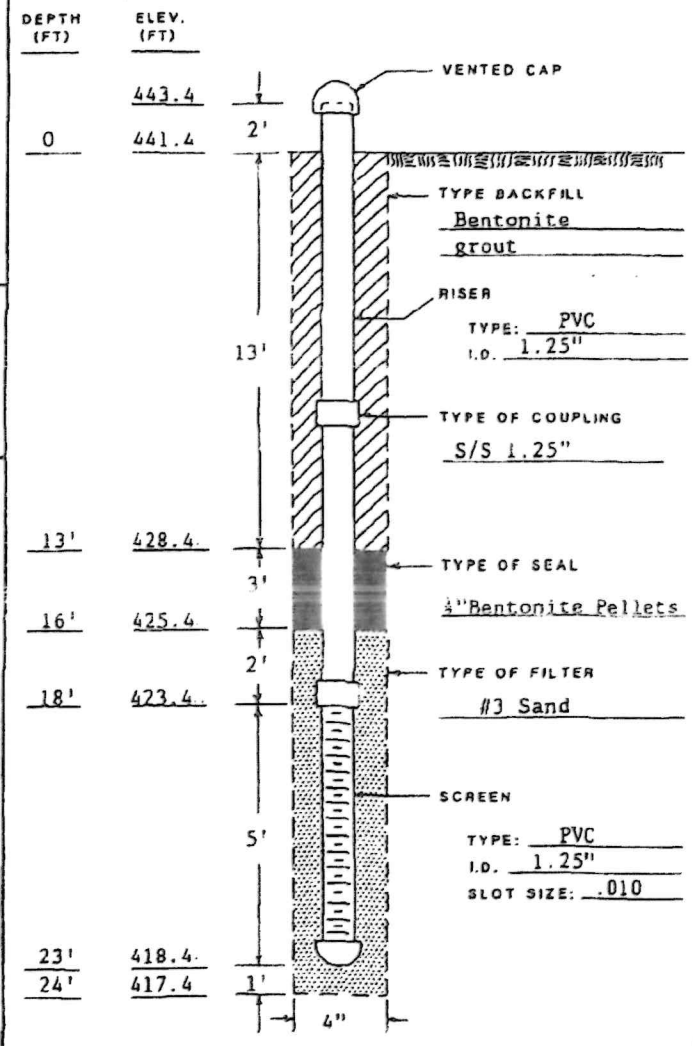
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH[a]	ELEVATION
5-28-87		Dry
6-02-87	12.4	429.0
7-01-87	12.9	428.5
10-16-87	16.1	425.3
11-5-87[b]	17.5	423.9
3-10-88[b]	12.4	429.0
5-27-88[b]	13.8	427.6
11-7-90	17.2	424.2
11-16-90	16.6	424.8
12-18-90	16.3	425.1
1-9-91	14.8	426.6

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

CLIENT: Waste Management of North America
Dallas, Texas

LOCATION: Near Boring CB-6

WELL NO: P-5

PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 5-28-87

DRY AUGURED 0 TO 38 FT

WASH BORED 38 TO 53' FT

DRILLING FLUID water

PIEZOMETER DEVELOPMENT

DATE: 5-29-87

METHOD: Air

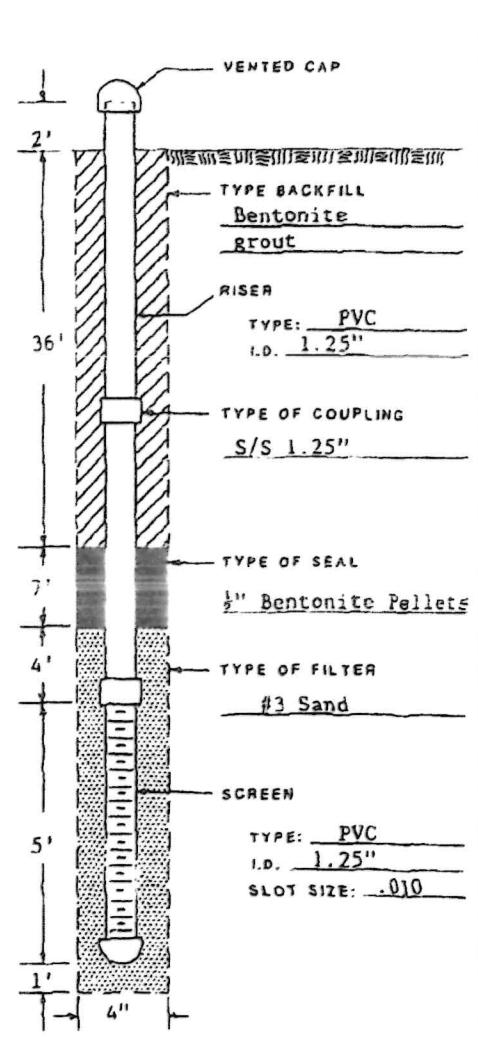
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH[a]	ELEVATION
7-01-87	46.2	445.4
10-16-87	46.2	445.4
11-5-87[b]	47.6	444.0
3-10-88[b]	33.7	457.9
5-27-88[b]	32.4	459.2
11-7-90	48.6	443.0
11-16-90	46.1	445.5
12-18-90	41.2	450.4
1-9-91	40.3	451.3

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas
CLIENT: Waste Management of North America
Dallas, Texas
LOCATION: Near Boring CB-6

WELL NO: P-6

PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 5-28-87

DRY AUGURED 0 TO 42' FT

WASH BORED ____ TO ____ FT

DRILLING FLUID none

PIEZOMETER DEVELOPMENT

DATE: 5-29-87

METHOD: Air

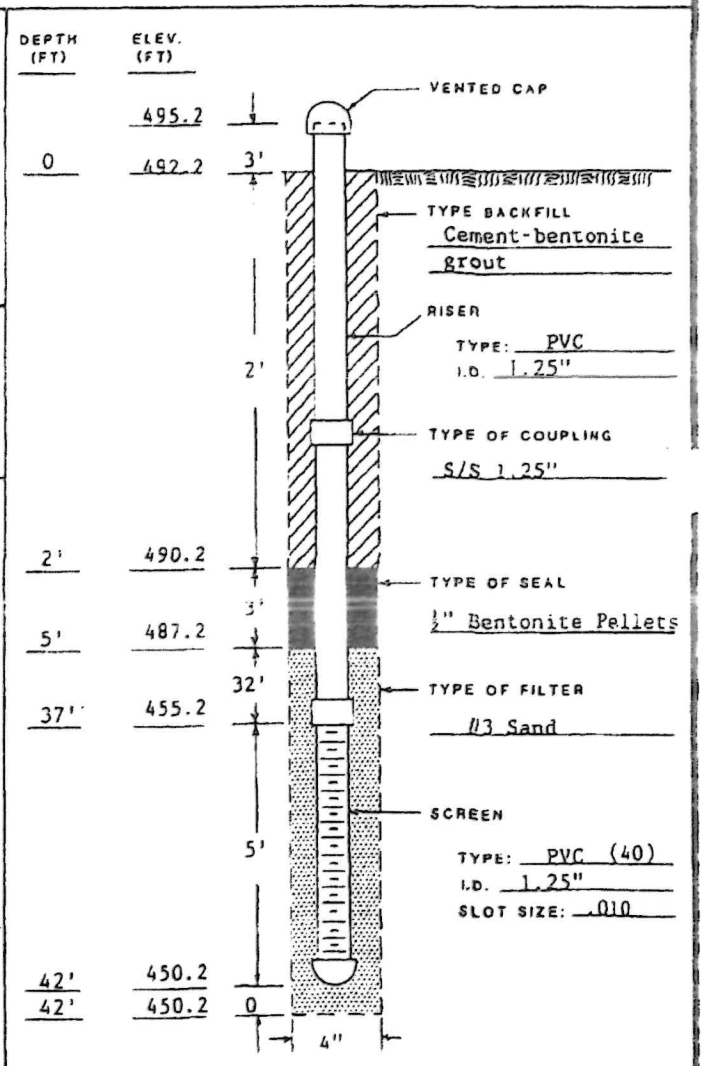
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH[a]	ELEVATION
6-02-87	37.8	454.4
7-01-87	34.3	457.9
10-16-87	34.1	458.1
11-5-87[b]	34.5	457.7
3-10-88[b]	31.0	461.2
5-27-88[b]	32.4	459.8
11-7-90	32.3	453.9
11-16-90	37.9	454.3
12-18-90	34.2	458.0
1-9-91	33.7	458.5

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

WELL NO: P-7

CLIENT: Waste Management of North America
Dallas, Texas

PROJECT NO: 87-042

LOCATION: Near Boring CB-10

COMPLETION DATE: 6-2-87

DRY AUGERED 0 TO 30 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID: none

DEVELOPMENT DATE: 6-3-87

METHOD OF DEVELOPMENT: Air

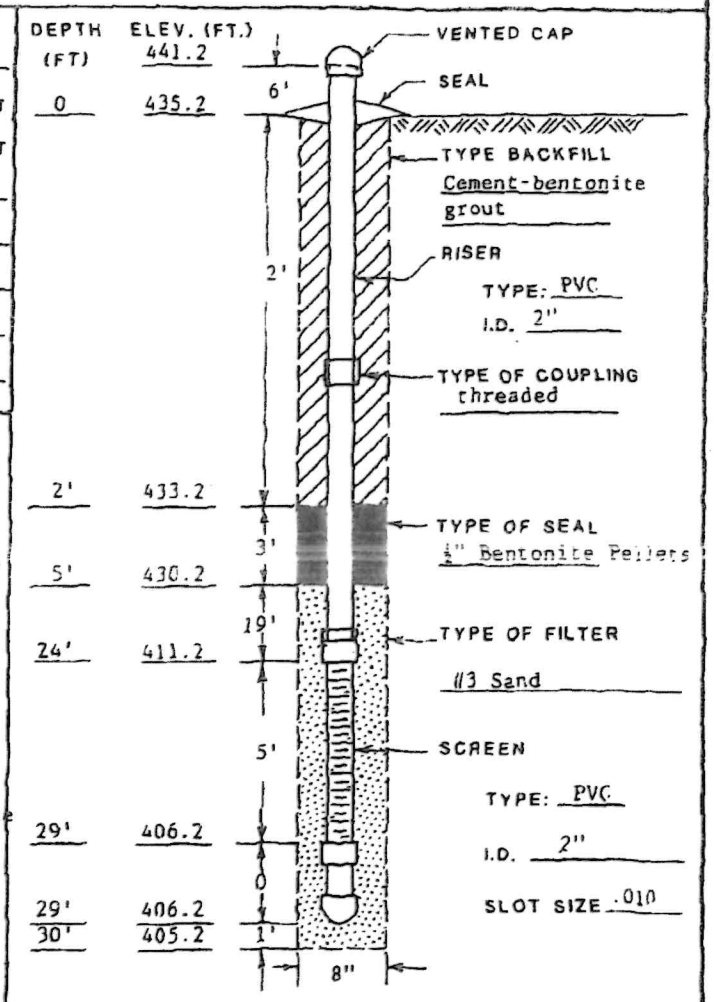
FREE WATER AT NA FT.

WATER LEVEL READINGS:

DATE	DEPTH [a]	ELEVATION
7-01-87	29.0	406.2
10-16-87	29.0	406.2
11-05-87[b]	26.7	408.5
3-11-88[b]	(+1.7)	436.9

a - Depth below ground surface

b - Water level reading taken by WMNA.



REMARKS: This piezometer was plugged on April 27, 1988 by TEAM Consultants, Inc. at the request of WMNA.

McBride-Ratcliff and Associates Inc

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

WELL NO: P-8

CLIENT: Waste Management of North America
Dallas, Texas

PROJECT NO: 87-042

LOCATION: Near Boring CB-12

COMPLETION DATE: 6-2-87

DRY AUGERED 0 TO 40 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID: none

DEVELOPMENT DATE: 6-3-87

METHOD OF DEVELOPMENT: Air

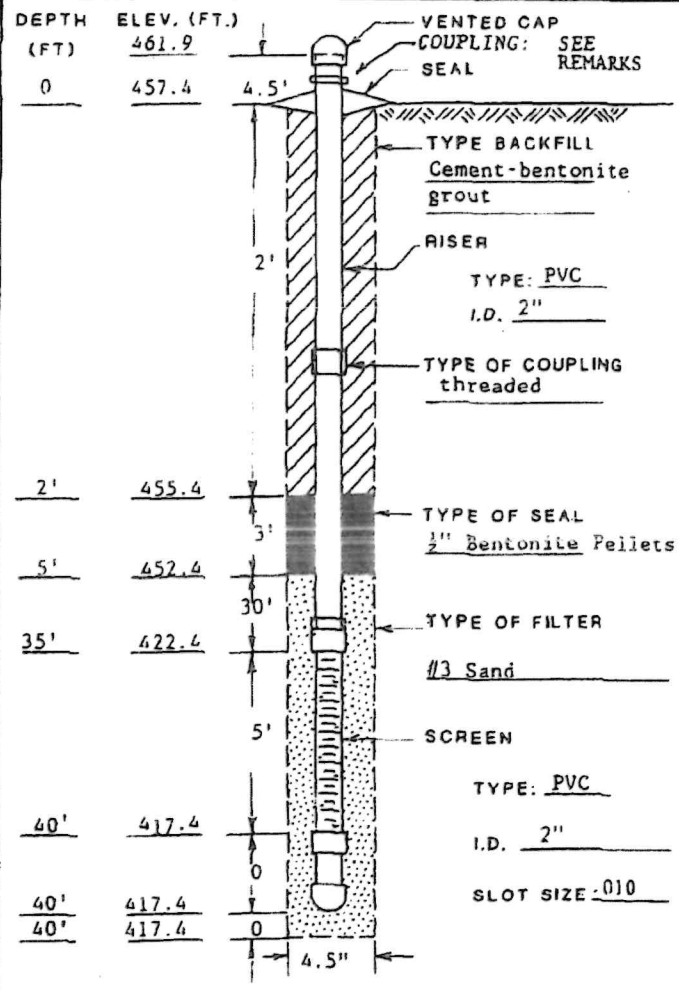
FREE WATER AT NA FT.

WATER LEVEL READINGS:

DATE	DEPTH [a]	ELEVATION
6-3-87	-	Dry
7-01-87	15.3	442.1
10-16-87	24.7	432.7
11-05-87 [b]	20.8	436.6
3-10-88 [b]	19.1	438.3
5-27-88 [b]	20.0	437.4
11-7-90	20.6	436.8
11-16-90	19.8	437.6
12-18-90	18.1	439.3
1-9-91	17.6	439.8

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS:
WMNA water level readings were taken from a coupling located 3.2 feet from top of stick-up.

McBride-Ratcliff and Associates Inc

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

WELL NO: P-9

CLIENT: Waste Management of North America
Dallas, Texas

PROJECT NO: 87-042

LOCATION: Near Boring CB-12

PIEZOMETER COMPLETION

DATE: 9-30-87

DRY AUGURED 0 TO 40 FT

WASH BORED _____ TO _____ FT

DRILLING FLUID _____

PIEZOMETER DEVELOPMENT

DATE: 10-1-87

METHOD: Air

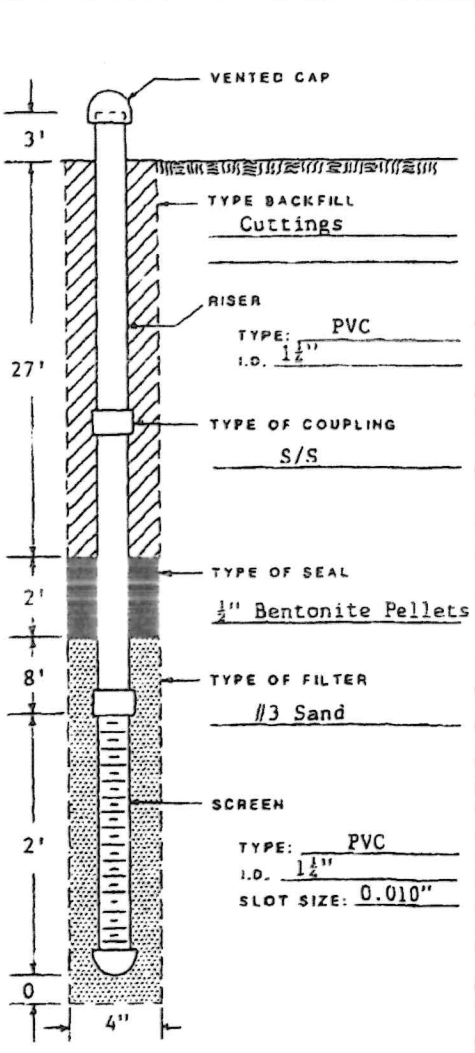
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH [a]	ELEVATION
10-1-87	36.0	423.0
10-16-87	36.0	423.0
11-5-87[b]	25.4	433.6
3-10-88[b]	17.9	441.1
5-27-88[b]	18.6	440.4
11-7-90	32.4	426.6
11-16-90	30.4	428.6
12-18-90	19.6	439.4
1-9-91	17.8	441.2

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

CLIENT: Waste Management of North America
Dallas, Texas

LOCATION: Near Boring CB-6

WELL NO: P-10

PROJECT NO: 87-042

PIEZOMETER COMPLETION

DATE: 9-30-87

DRY AUGURED 0 TO 41 FT

WASH BORED _____ TO _____ FT

DRILLING FLUID _____

PIEZOMETER DEVELOPMENT

DATE: 10-1-87

METHOD: Air

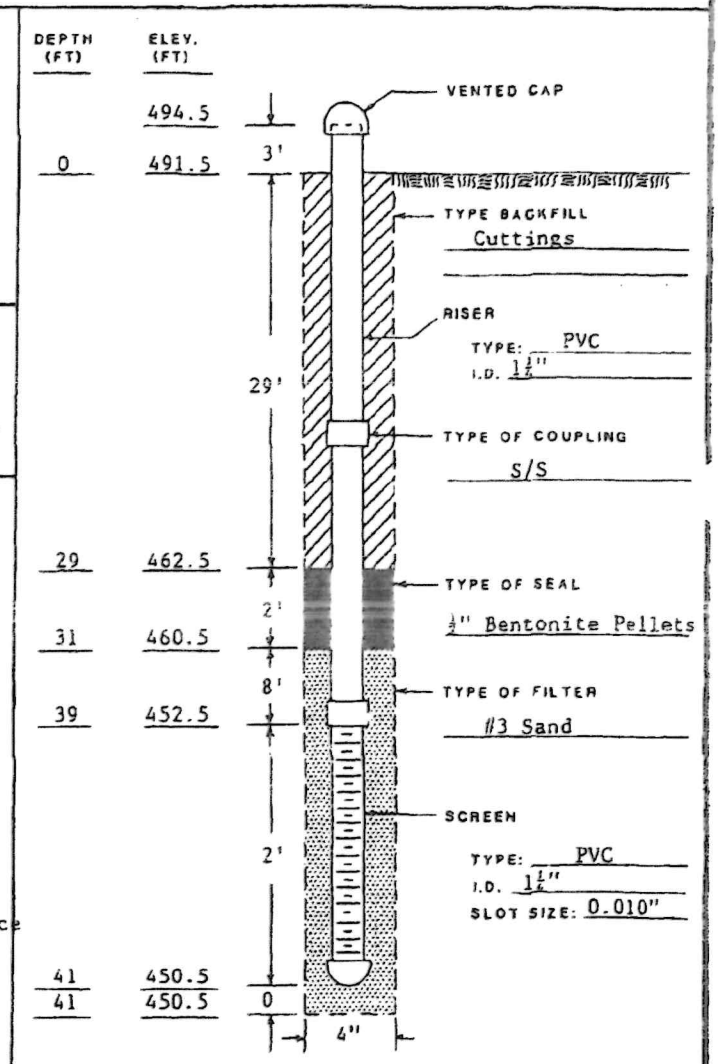
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH[a]	ELEVATION
10-1-87	-	Dry
10-16-87	32.7	458.8
11-5-87[b]	32.7	458.8
3-10-88[b]	30.4	461.1
5-27-88[b]	32.1	459.4
11-7-90	37.8	453.7
11-16-90	36.7	454.8
12-18-90	33.8	457.7
1-9-91	33.2	458.3

a - Depth below ground surface

b - Water level readings taken by MWNA.



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas & Ellis Counties, Texas

WELL NO: P-11

CLIENT: Waste Management of North America
Dallas, Texas

PROJECT NO: 87-042

LOCATION: Near Boring CB-25

PIEZOMETER COMPLETION

DATE: 9-30-87

DRY AUGURED 0 TO 25 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID ____

PIEZOMETER DEVELOPMENT

DATE: 10-1-87

METHOD: Air

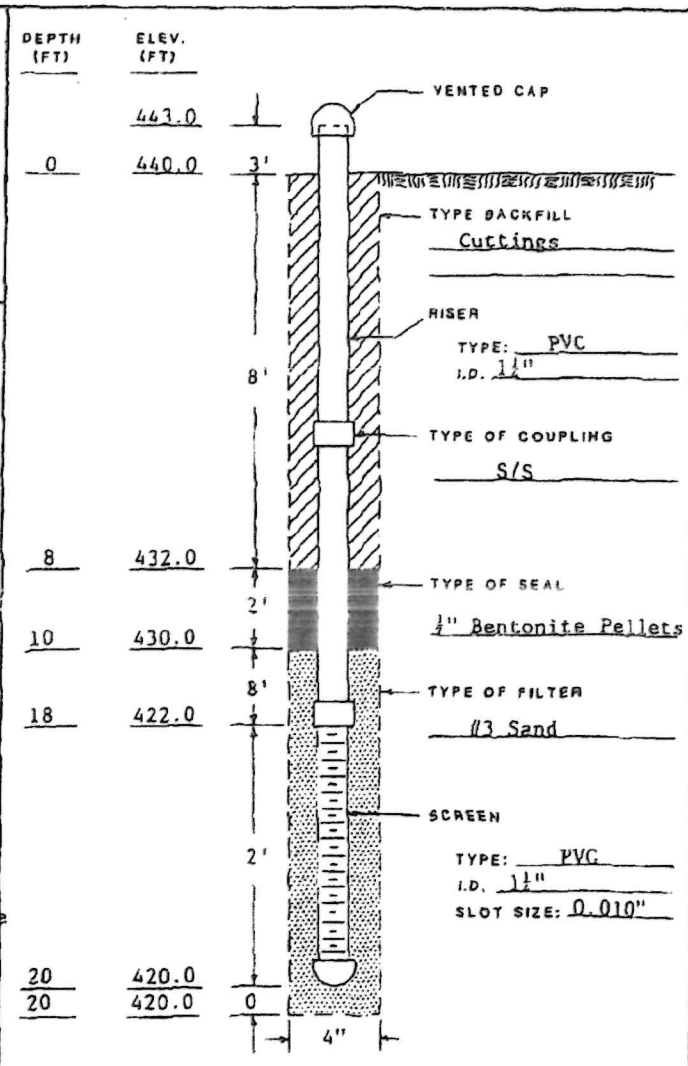
WATER LEVEL READINGS

FREE WATER AT NA FT

DATE	DEPTH[a]	ELEVATION
10-1-87	-	Dry
10-16-87	15.7	424.3
11-5-87[b]	12.7	427.3
3-10-88[b]	12.1	427.9
5-27-88[b]	13.4	426.6
11-7-90	17.8	422.2
11-16-90	16.1	423.9
12-18-90	15.9	424.1
1-9-91	14.4	425.6

a - Depth below ground surface

b - Water level readings taken by WMNA.



REMARKS: Caved to 20'.

McBride-Ratcliff and Associates, Inc

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-12

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-10

PIEZOMETER COMPLETION

DATE: 11-7-90

DRY AUGURED _____ TO _____ FT

Air Bored 0 TO 11 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: _____

METHOD: _____

WATER LEVEL READINGS

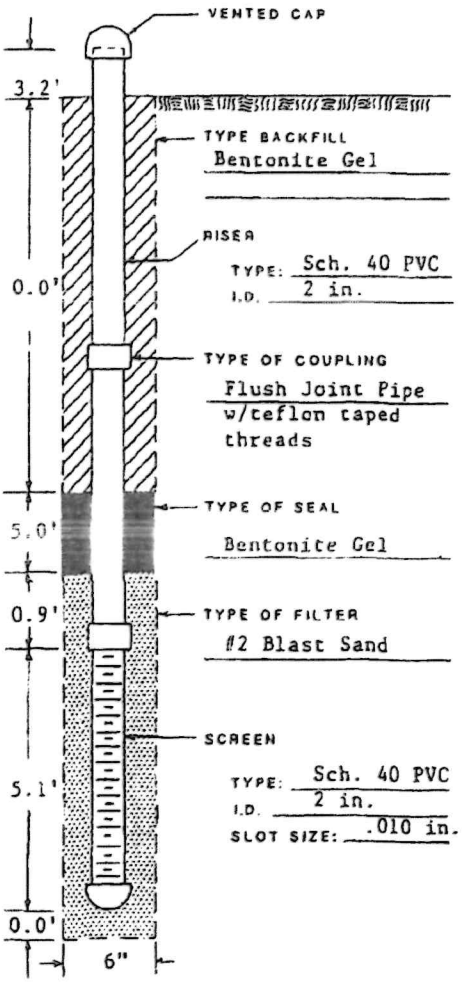
FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-7-90	*	
11-16-90	*	
12-18-90	*	
1-9-91	*	

NE - Free water not encountered while drilling the borehole

* - Dry piezometer

DEPTH (FT)	ELEV. (FT)
	442.2
0	439.0
0	439.0
5.0	434.0
5.9	433.1
11.0	428.0
11.0	428.0



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-13

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-25

PIEZOMETER COMPLETION

DATE: 11-14-90

DRY AUGURED 0 TO 26 FT

Air Bored 26 TO 35 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: _____

METHOD: _____

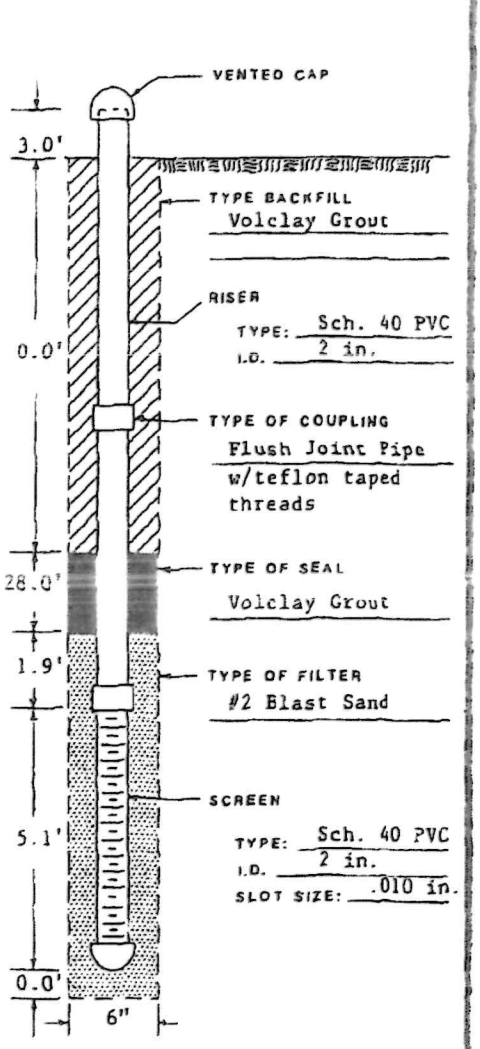
WATER LEVEL READINGS

FREE WATER AT 18 FT

DATE	DEPTH	ELEVATION
11-14-90	*	
11-16-90	*	
12-18-90	*	
1-9-91	*	406.0

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS: 6 in. Sch. 40 PVC surface casing was installed from elevation 440.0 to elevation 414.0 and grouted in place with a cement-bentonite grout.

McBride-Ratcliff and Associates Inc

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-14

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-21

PIEZOMETER COMPLETION

DATE: 11-6-90

DRY AUGURED ____ TO ____ FT

Air Bored 0 TO 30.8 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: 11-14-90

METHOD: Hand Bailed

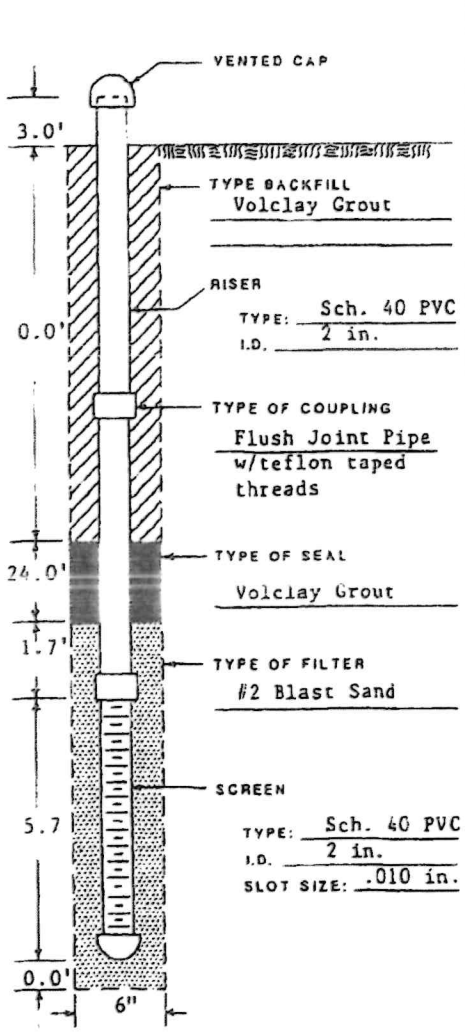
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-7-90	*	
11-13-90	25.6'	478.4'
11-15-90	26.6'	477.4'
11-16-90	25.8'	478.2'
12-18-90	12.9'	491.1'
1-9-91	12.0'	492.0'

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-15

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-21

PIEZOMETER COMPLETION

DATE: 11-6-90

DRY AUGURED ____ TO ____ FT

Air Bored 0 TO 21.4 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: ____

METHOD: ____

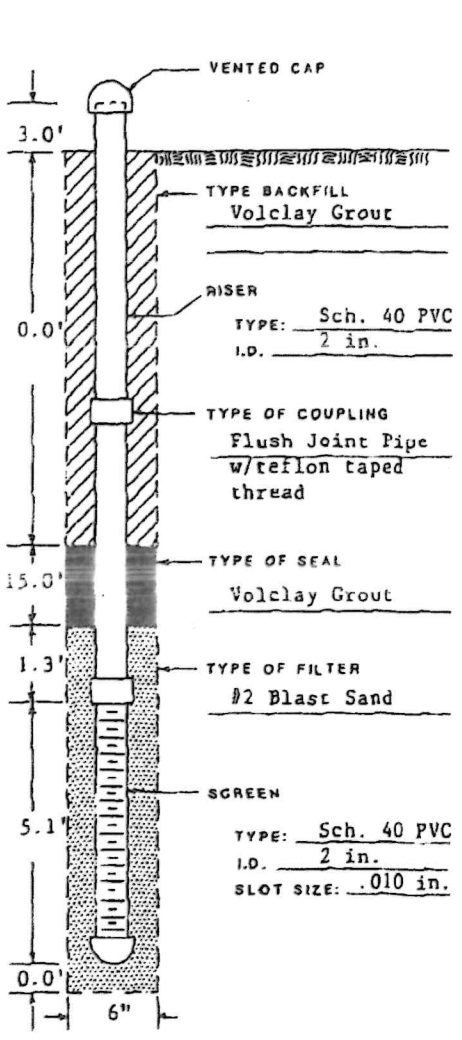
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-7-90	*	
11-13-90	*	
11-15-90	*	
11-16-90	*	
12-18-90	*	
1-9-91	20.5	483.5

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-16

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-21

PIEZOMETER COMPLETION

DATE: 11-13-90

DRY AUGURED 0 TO 46 FT

Air Bored 46 TO 61 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: _____

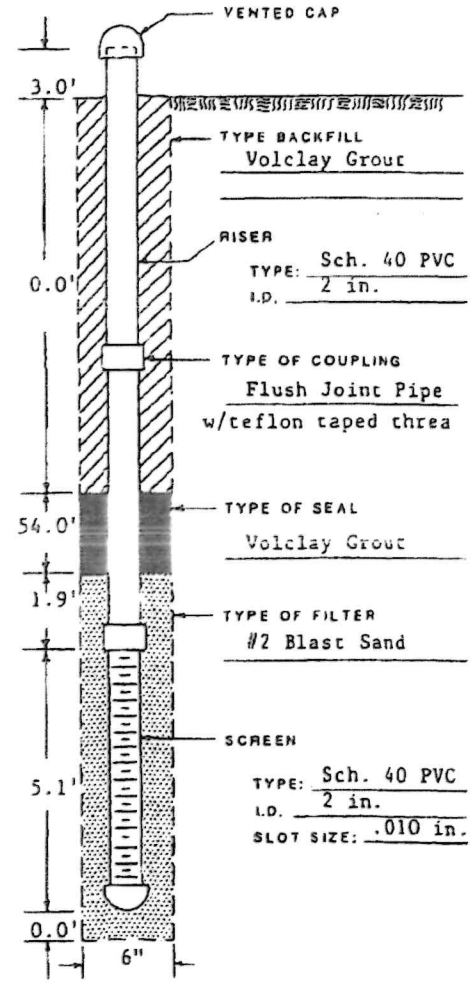
METHOD: _____

WATER LEVEL READINGS

FREE WATER AT 50 FT

DATE	DEPTH	ELEVATION
11-14-90	*	
11-15-90	*	
11-16-90	*	
12-18-90	55.4'	448.6'
1-9-91	49.1'	454.9'

* - Dry piezometer



REMARKS: 6 in. Sch. 40 PVC surface casing was installed from elevation 504 to elevation 458 and grouted in place with a cement-bentonite grout.

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-17

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Between CB-3 and CB-4

PIEZOMETER COMPLETION

DATE: 11-13-90

DRY AUGURED 0 TO 20 FT

WASH BORED ____ TO ____ FT

DRILLING FLUID ____

PIEZOMETER DEVELOPMENT

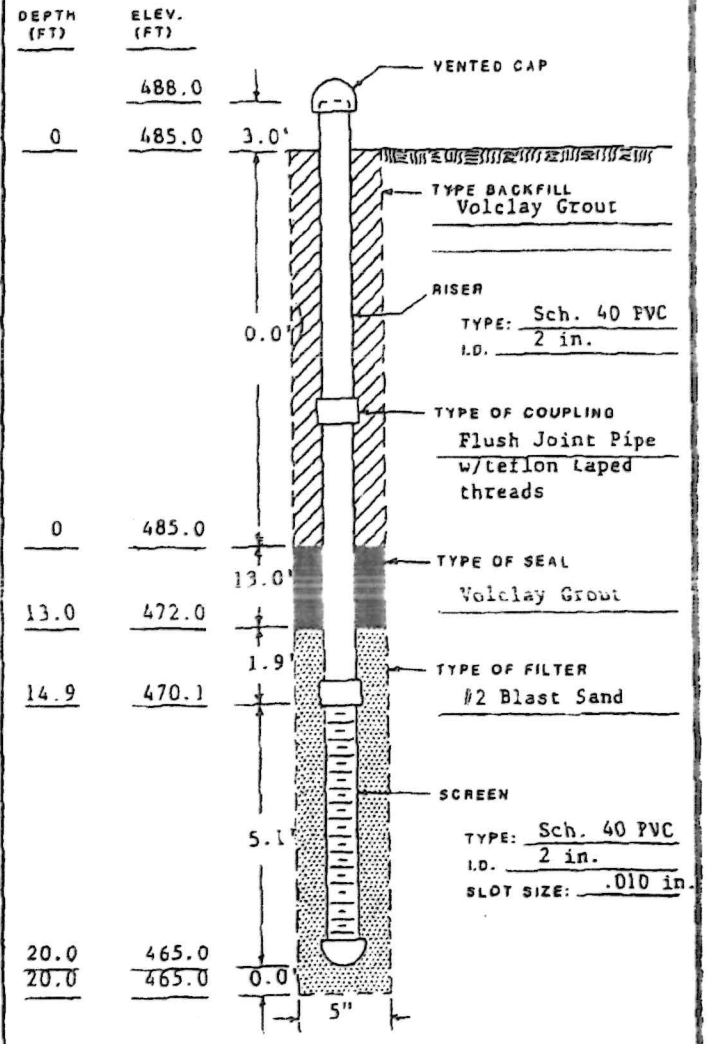
DATE: 11-14-90

METHOD: Hand Bailed

WATER LEVEL READINGS

FREE WATER AT 18 FT

DATE	DEPTH	ELEVATION
11-16-90	18.5'	466.5'
12-18-90	7.5'	477.5'
1-9-91	7.7'	477.3'



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-18

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Between CB-3 and CB-4

PIEZOMETER COMPLETION

DATE: 11-13-90

DRY AUGURED _____ TO _____ FT

Air Bored 0 TO 35 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: _____

METHOD: _____

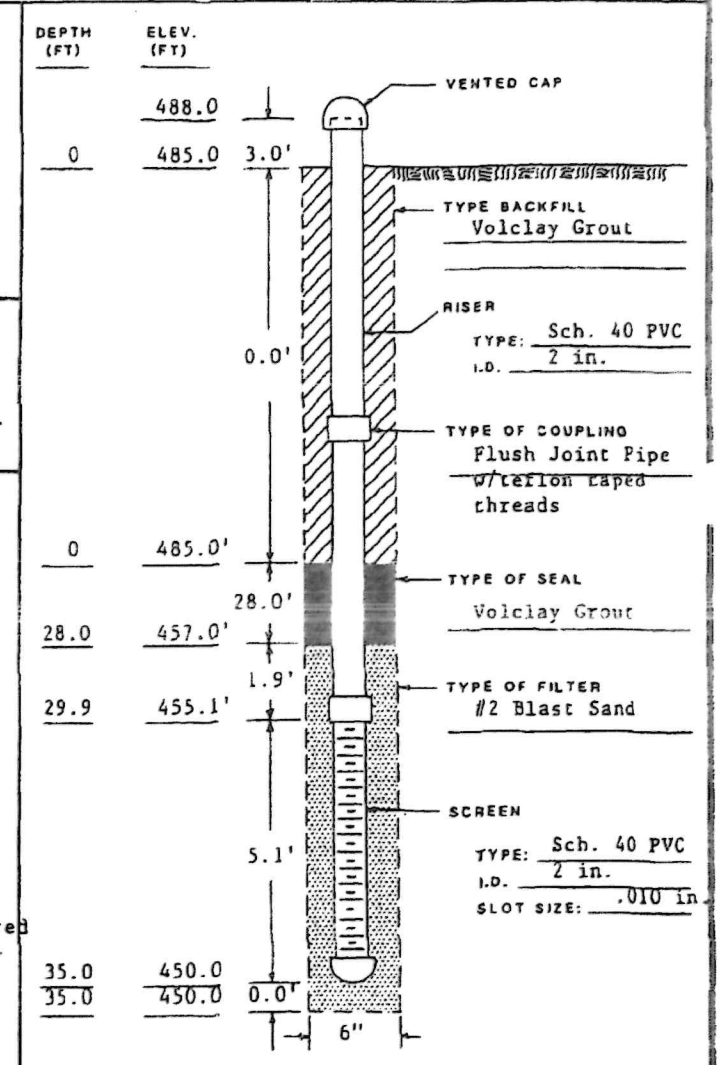
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-16-90	*	
12-18-90	19.8'	465.2'
1-9-91	14.3'	470.7'

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS:

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-19

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-19

PIEZOMETER COMPLETION

DATE: 11-15-90

DRY AUGURED 0 TO 31 FT

Air Bored 31 TO 76 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE:

METHOD:

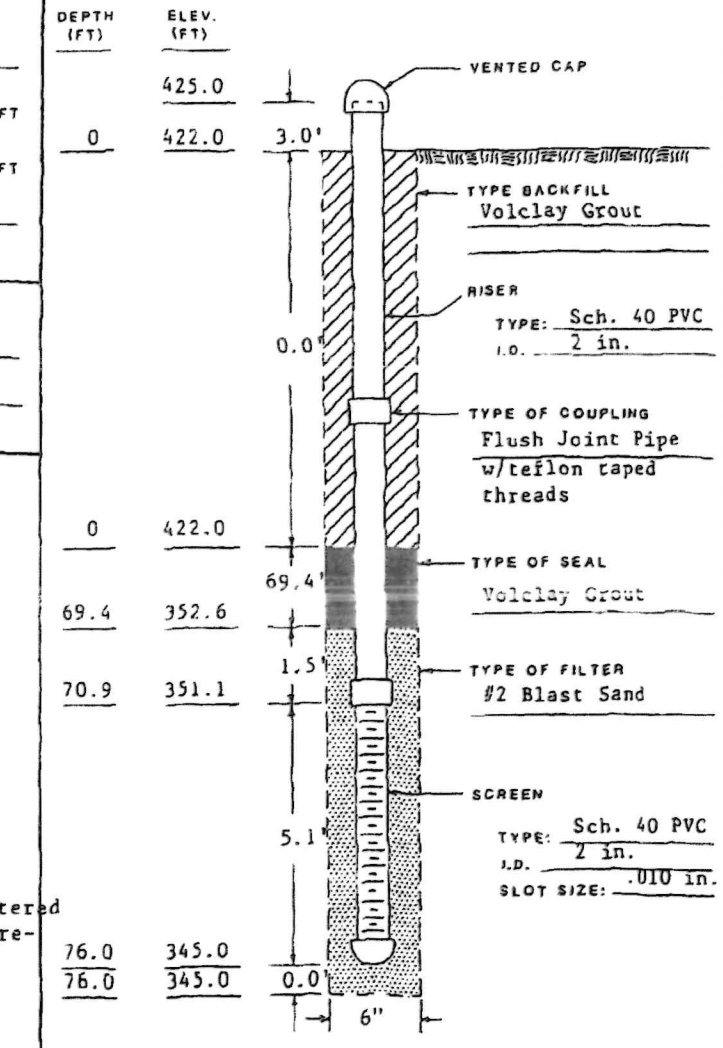
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-15-90	*	
11-16-90	*	
12-18-90	65.8	356.2
1-9-91	55.7	366.3

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS: 6 in. Sch. 40 PVC surface casing was installed from elevation 424 to elevation 393 and grouted in place with a cement-bentonite grout.

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-20

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-19

PIEZOMETER COMPLETION

DATE: 11-14-90

DRY AUGURED _____ TO _____ FT

Air Bored 0 TO 22 FT

DRILLING FLUID _____

PIEZOMETER DEVELOPMENT

DATE: _____

METHOD: _____

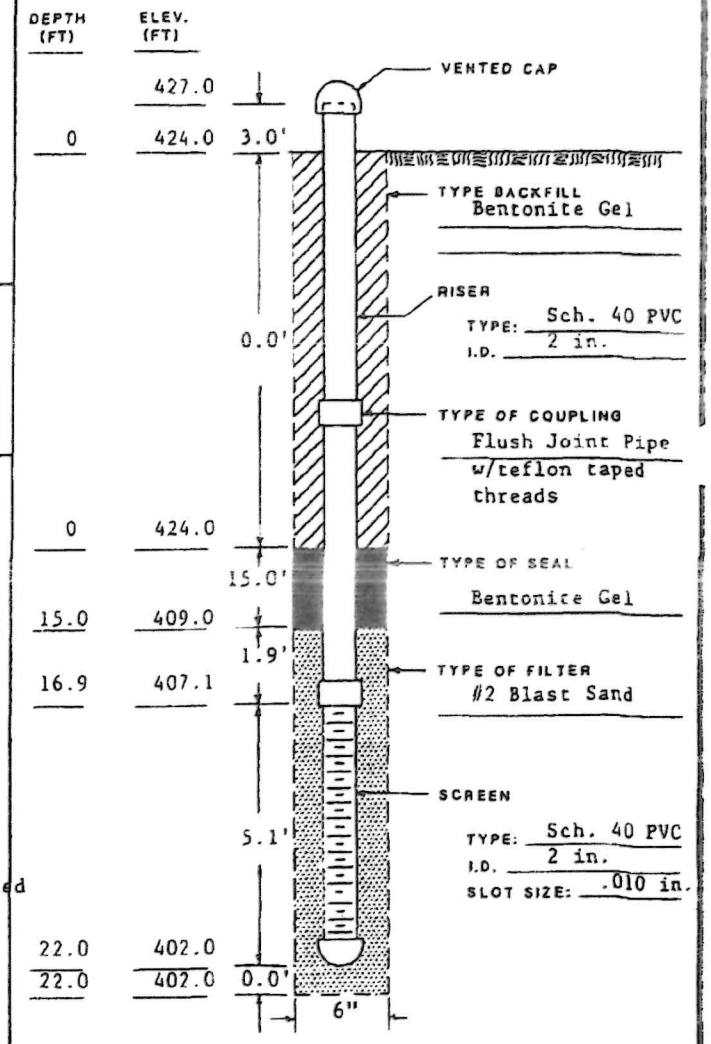
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-14-90	*	
11-15-90	*	
11-16-90	*	
12-18-90	20.8	403.2
1-9-91	19.1	404.9

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS:

McBride Parcliff and Associates Inc

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-21

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-19

PIEZOMETER COMPLETION

DATE: 11-14-90

DRY AUGURED _____ TO _____ FT

Air Bored 0 TO 12 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE: _____

METHOD: _____

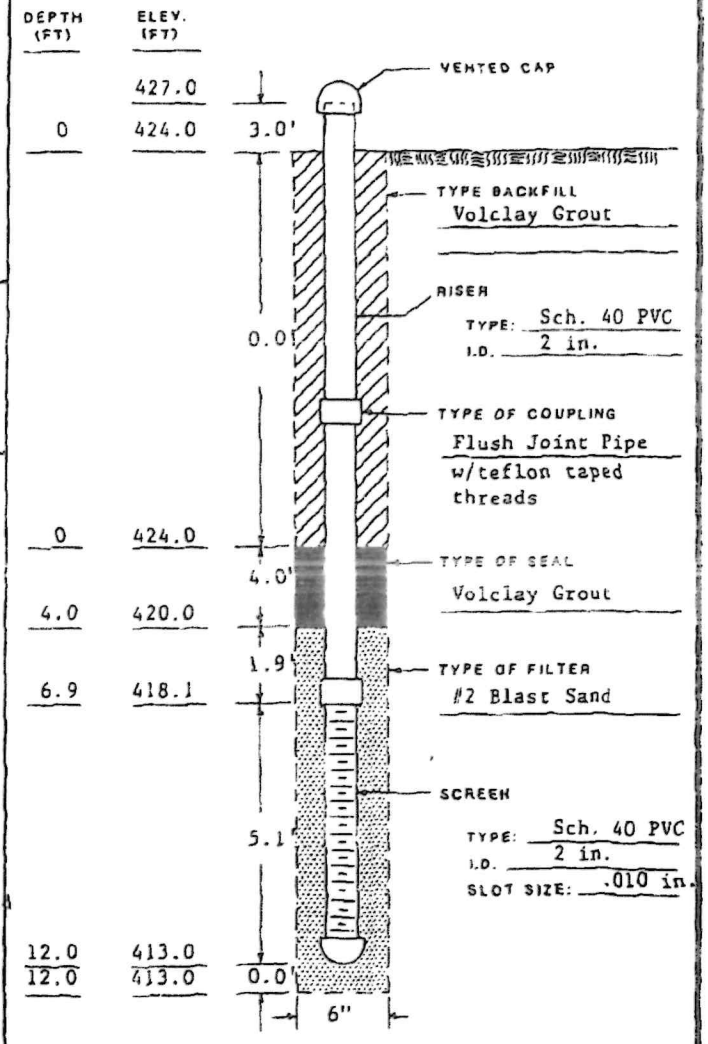
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-14-90	*	
11-15-90	*	
11-16-90	*	
12-18-90	*	
1-9-91	*	

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS:

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-22

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-19

PIEZOMETER COMPLETION

DATE: 11-16-90

DRY AUGURED 0 TO 28 FT

Air Bored 28 TO 43 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE:

METHOD:

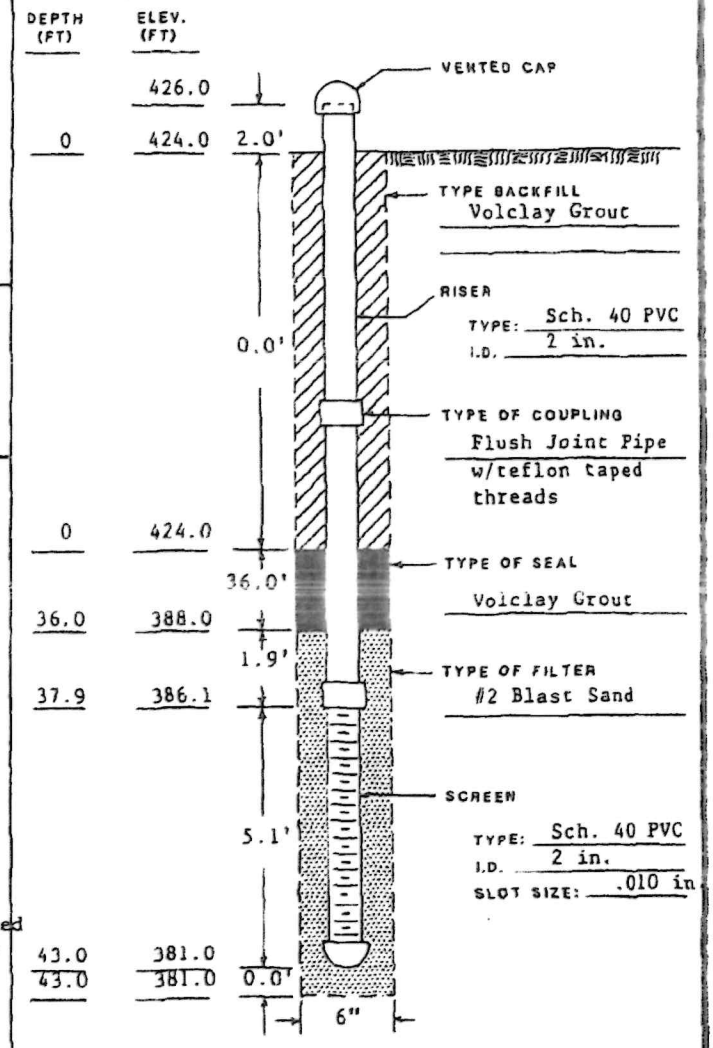
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-16-90	*	
12-18-90	34.9	389.1
1-9-91	28.0	396.0

NE - Free water not encountered while drilling the borehole

* - Dry piezometer



REMARKS: 6 in. Sch. 40 PVC surface casing was installed from elevation 424 to elevation 396 and grouted in place with a cement-bentonite grout.

McBride-Ratcliff and Associates, Inc.

PIEZOMETER INSTALLATION REPORT

PROJECT: Skyline Landfill
Dallas and Ellis Counties, Texas

WELL NO: P-23

CLIENT: Waste Management of North America, Inc.
Irving, Texas

PROJECT NO: 90-0613

LOCATION: Near CB-19

PIEZOMETER COMPLETION

DATE: 11-16-90

DRY AUGURED 0 TO 28 FT

Air Bored 28 TO 128 FT

DRILLING FLUID Air

PIEZOMETER DEVELOPMENT

DATE:

METHOD:

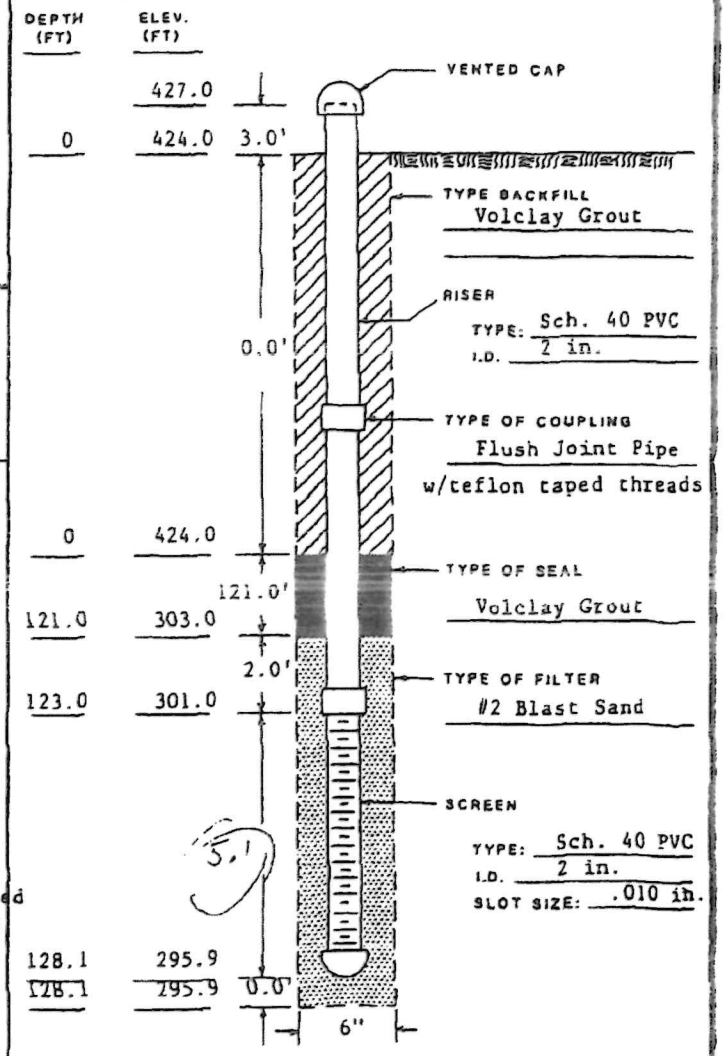
WATER LEVEL READINGS

FREE WATER AT NE FT

DATE	DEPTH	ELEVATION
11-16-90	*	
12-18-90	127.9	296.1
1-9-91	127.7	296.3

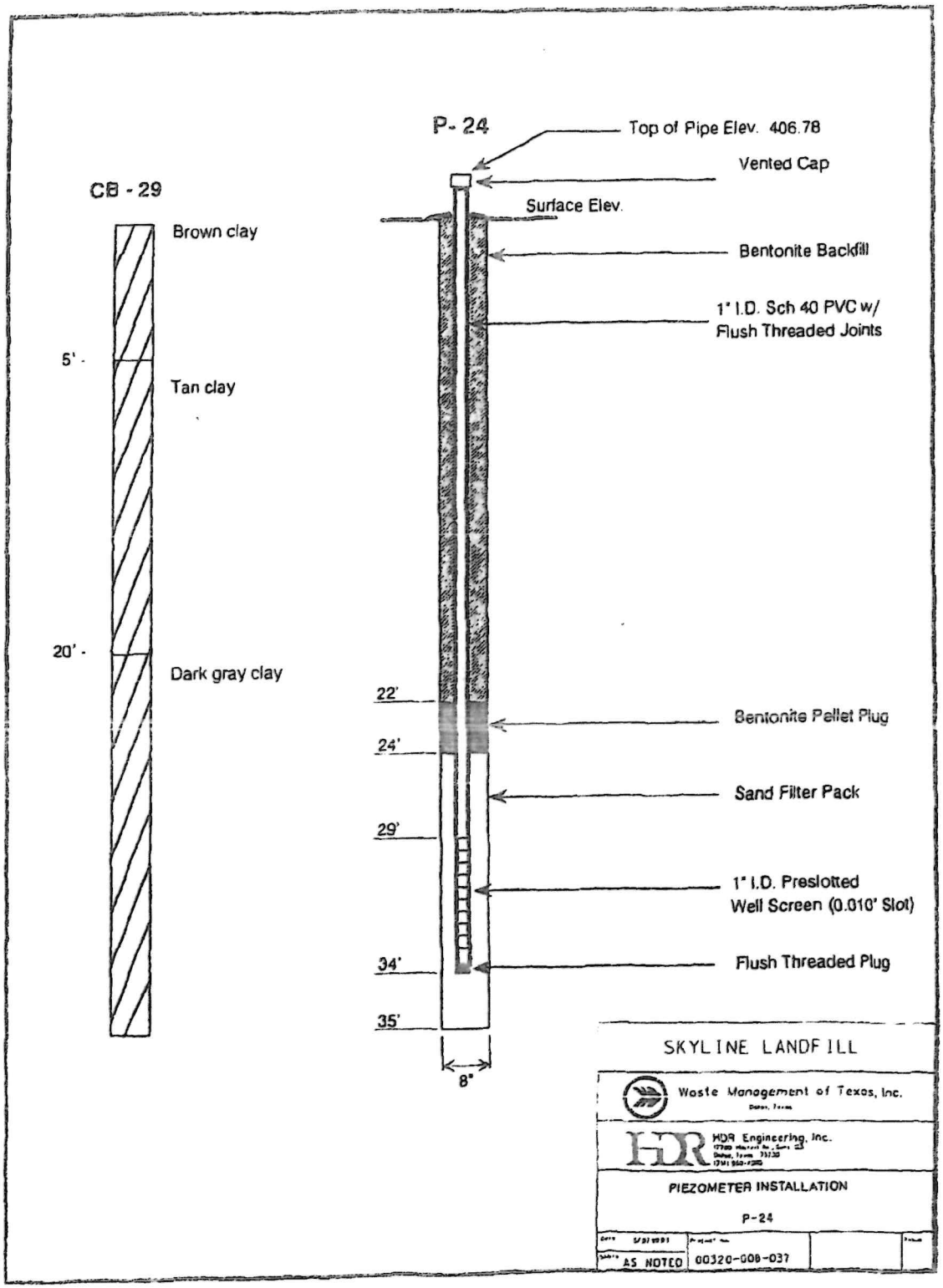
NE - Free water not encountered while drilling the borehole

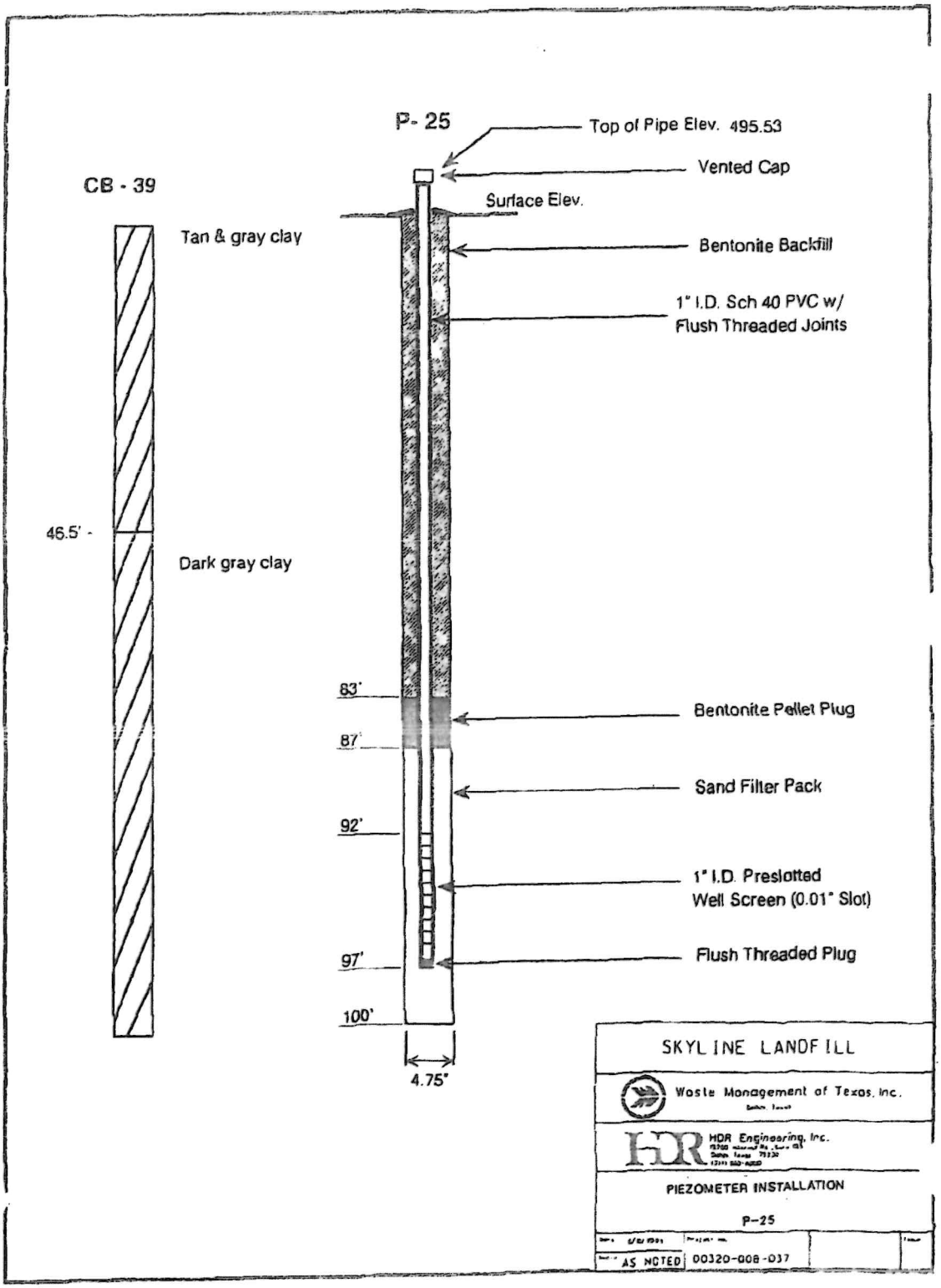
* - Dry piezometer

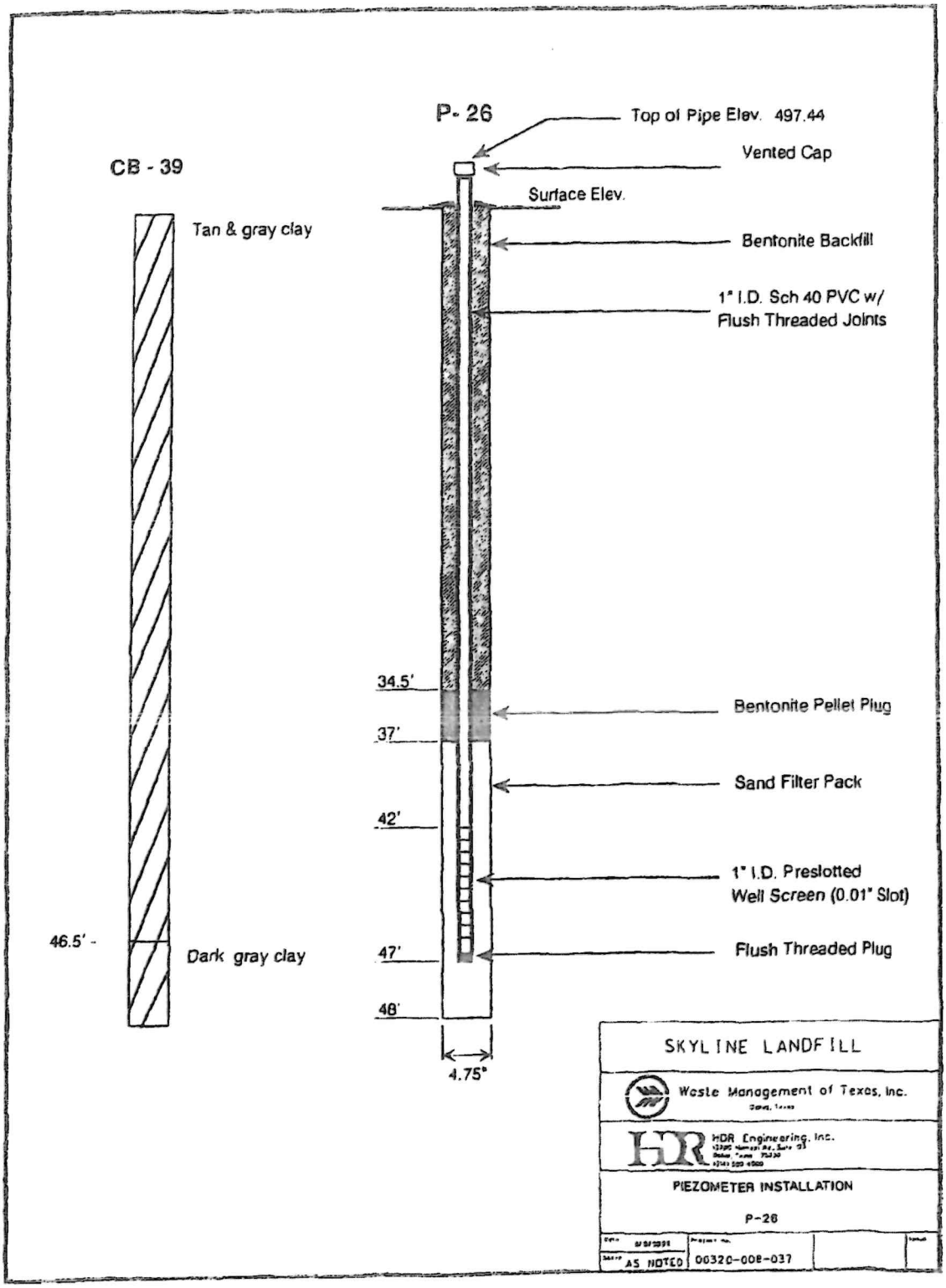


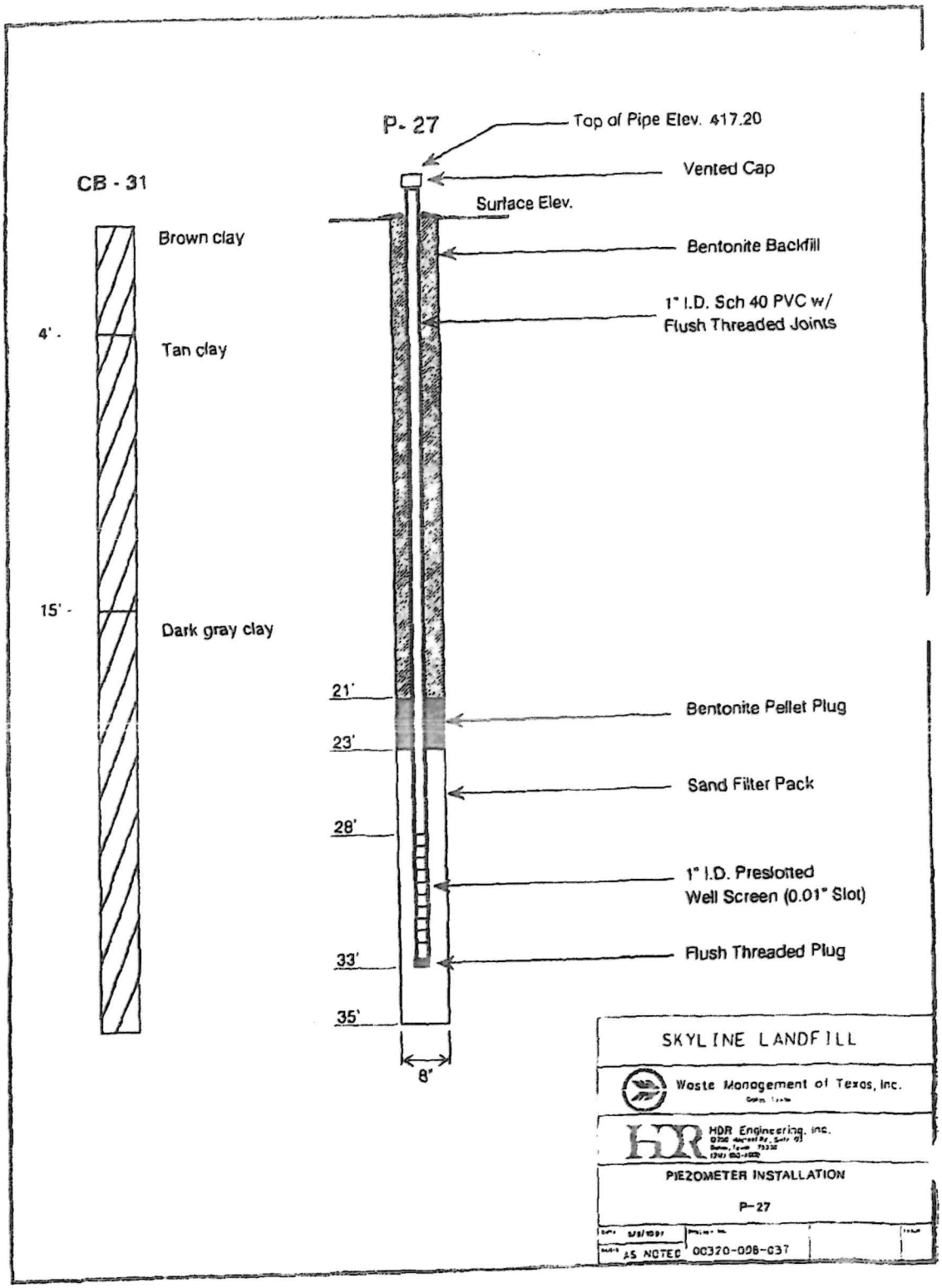
REMARKS: 6 in. Sch. 40 PVC surface casing was installed from elevation 424 to elevation 396 and grouted in place with a cement-bentonite grout.

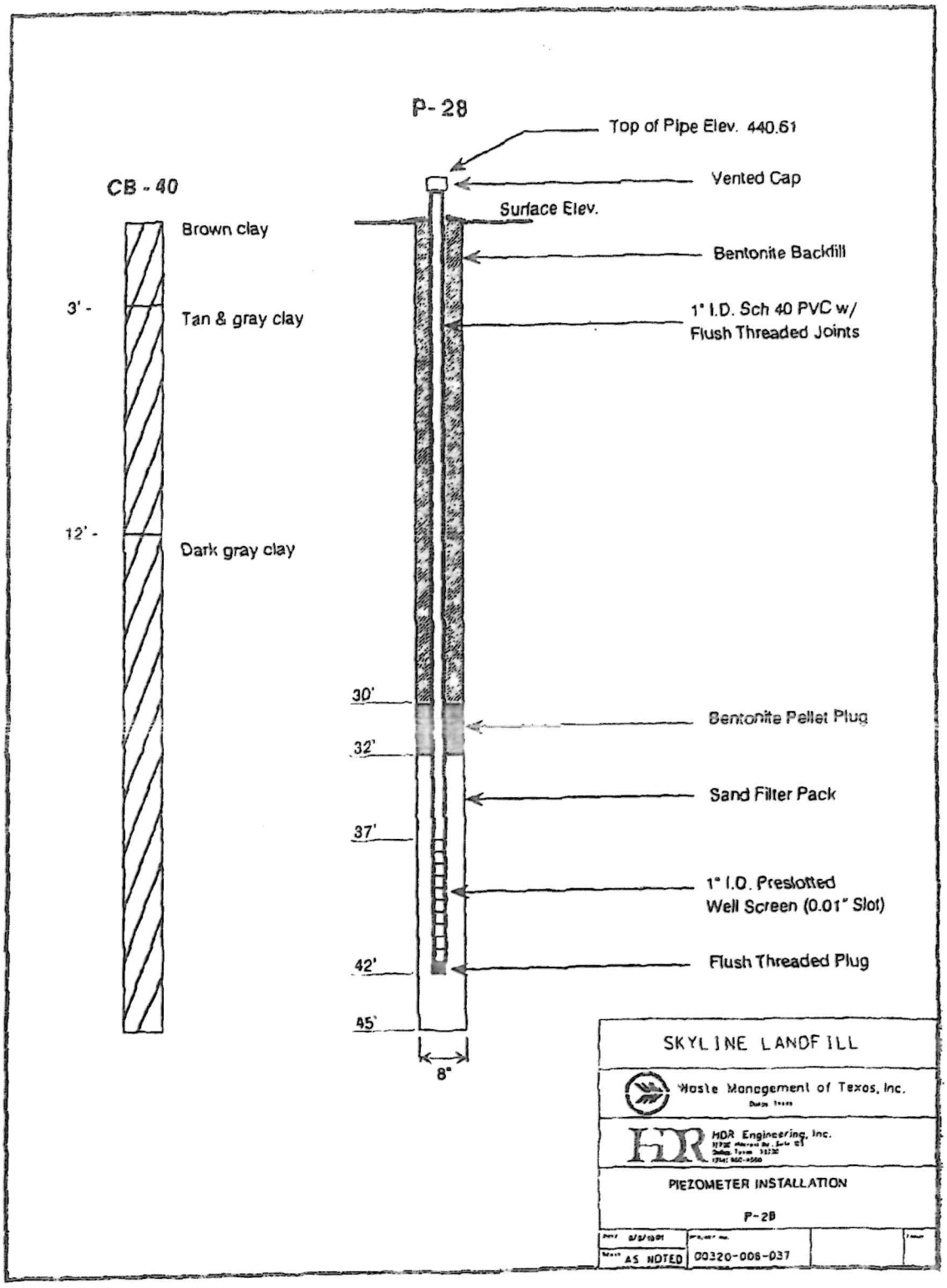
McBride-Ratcliff and Associates, Inc.

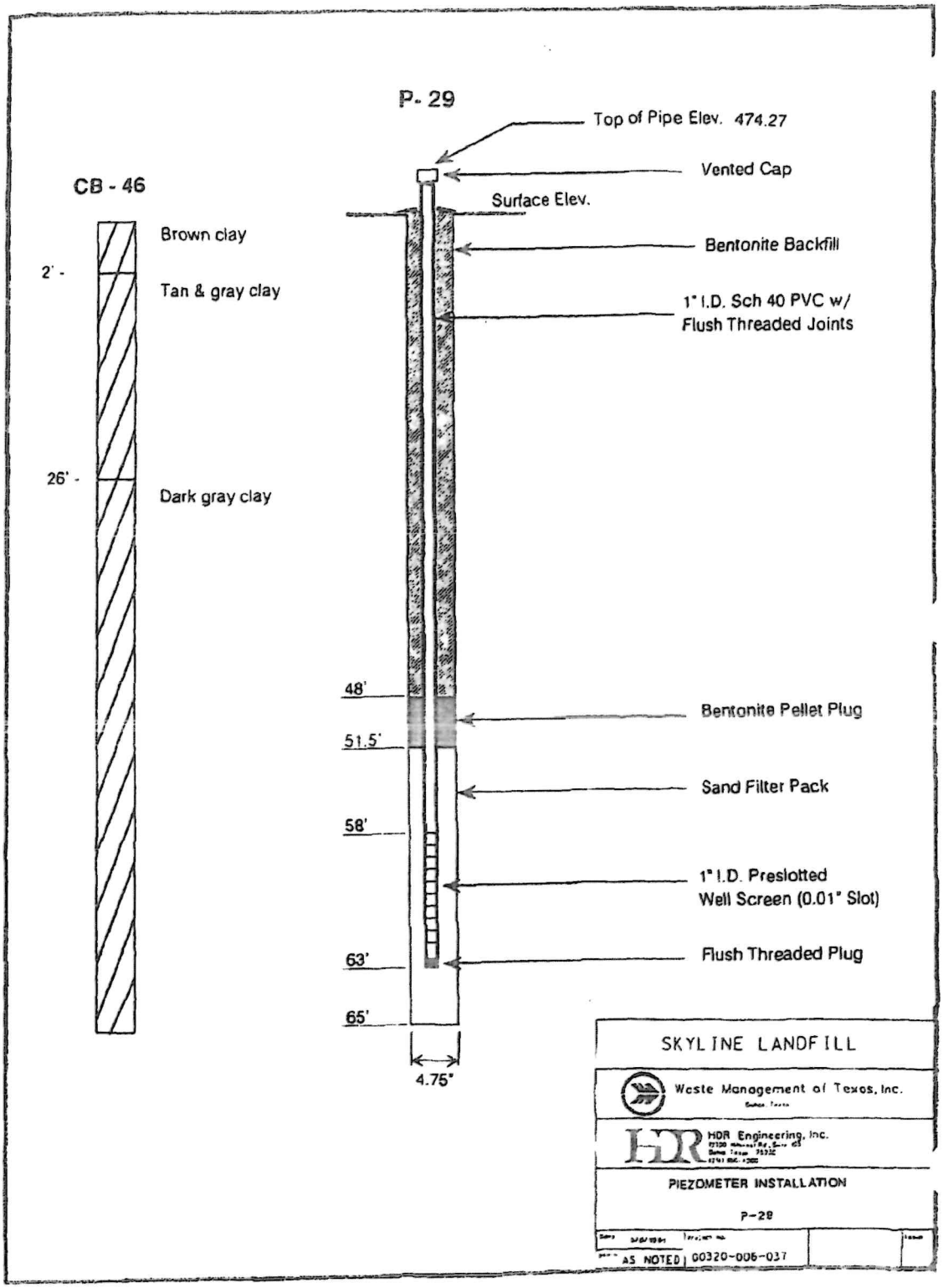

CB - 29
Brown clay
5'
Tan clay
20'
Dark gray clay
P- 24
Top of Pipe Elev. 406.78
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
22'
Bentonite Pellet Plug
24'
Sand Filter Pack
29'
1" I.D. Preslotted
Well Screen (0.010' Slot)
34'
Flush Threaded Plug
35'
8"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-24
AS NOTED
00320-008-037

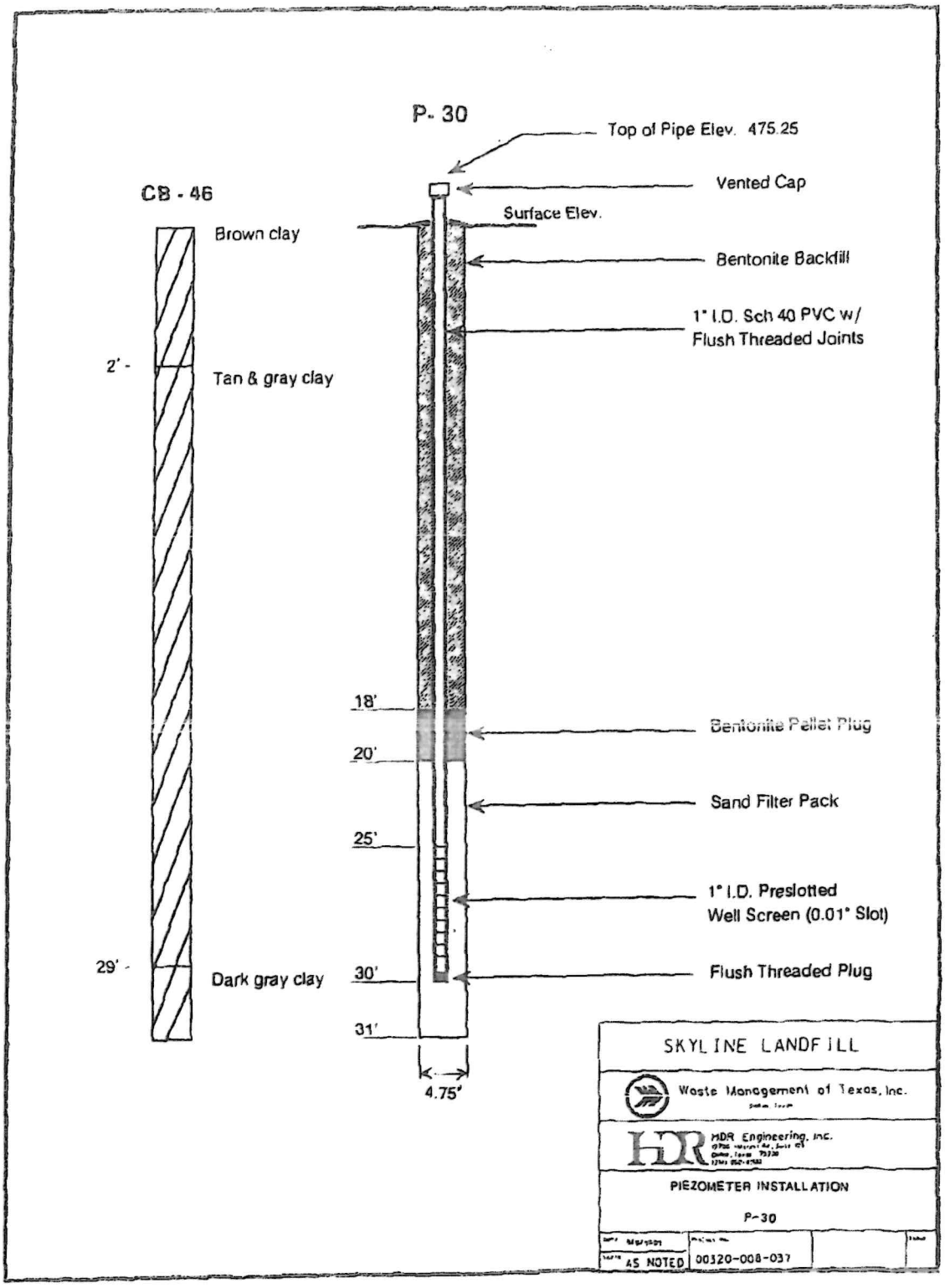

P- 25
Top of Pipe Elev. 495.53
Vented Cap
Surface Elev.
CB - 39
Tan & gray clay
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
46.5'
Dark gray clay
83'
Bentonite Pellet Plug
87'
Sand Filter Pack
92'
1" I.D. Preslotted
Well Screen (0.01" Slot)
97'
Flush Threaded Plug
100'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-25
AS NOTED
00320-008-037

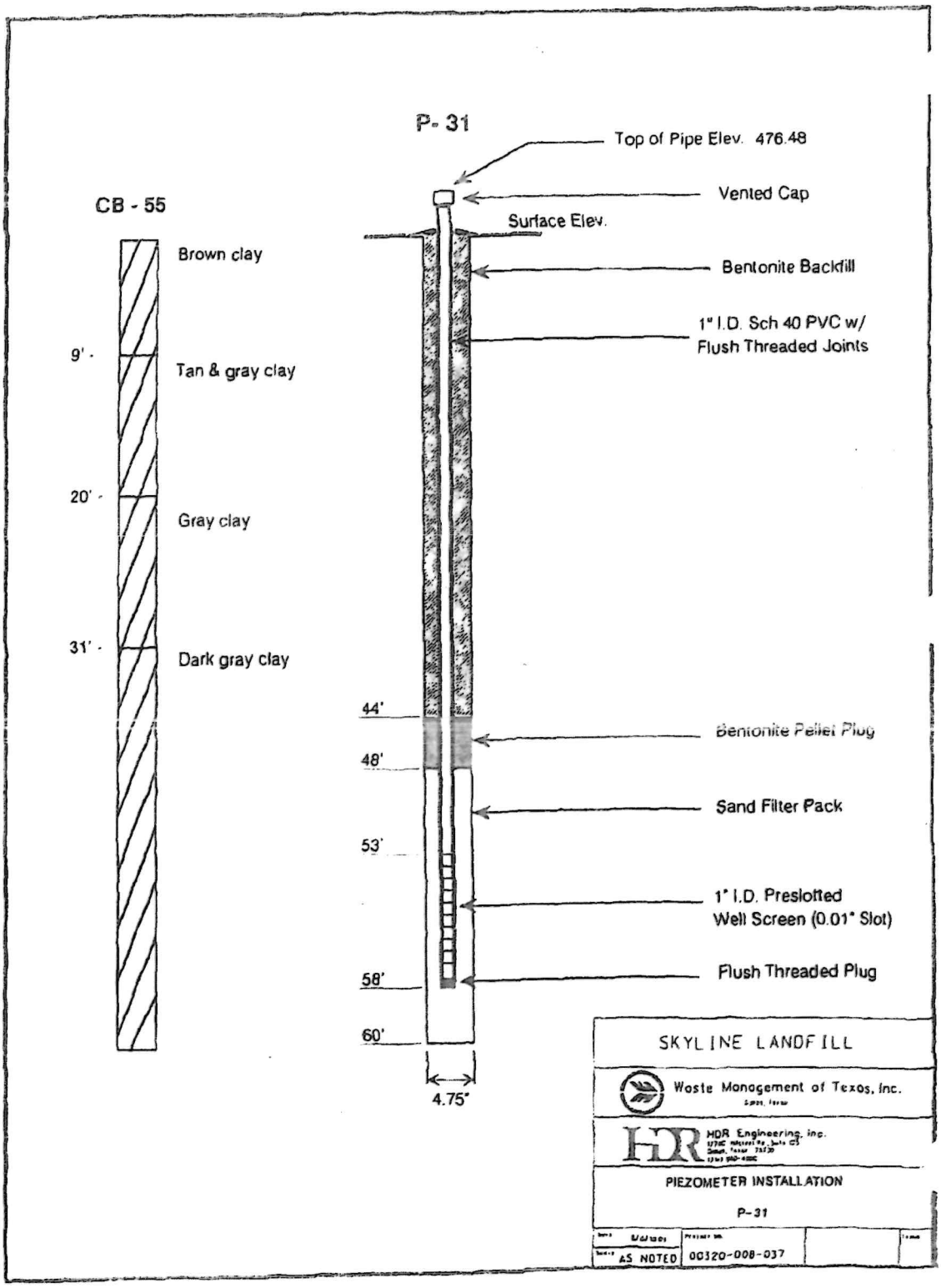

P- 26
Top of Pipe Elev. 497.44
Vented Cap
CB - 39
Surface Elev.
Tan & gray clay
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
34.5'
Bentonite Pellet Plug
37'
Sand Filter Pack
42'
1" I.D. Preslotted
Well Screen (0.01" Slot)
46.5'
Dark gray clay
47'
Flush Threaded Plug
48'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-26
AS NOTED
00320-008-037

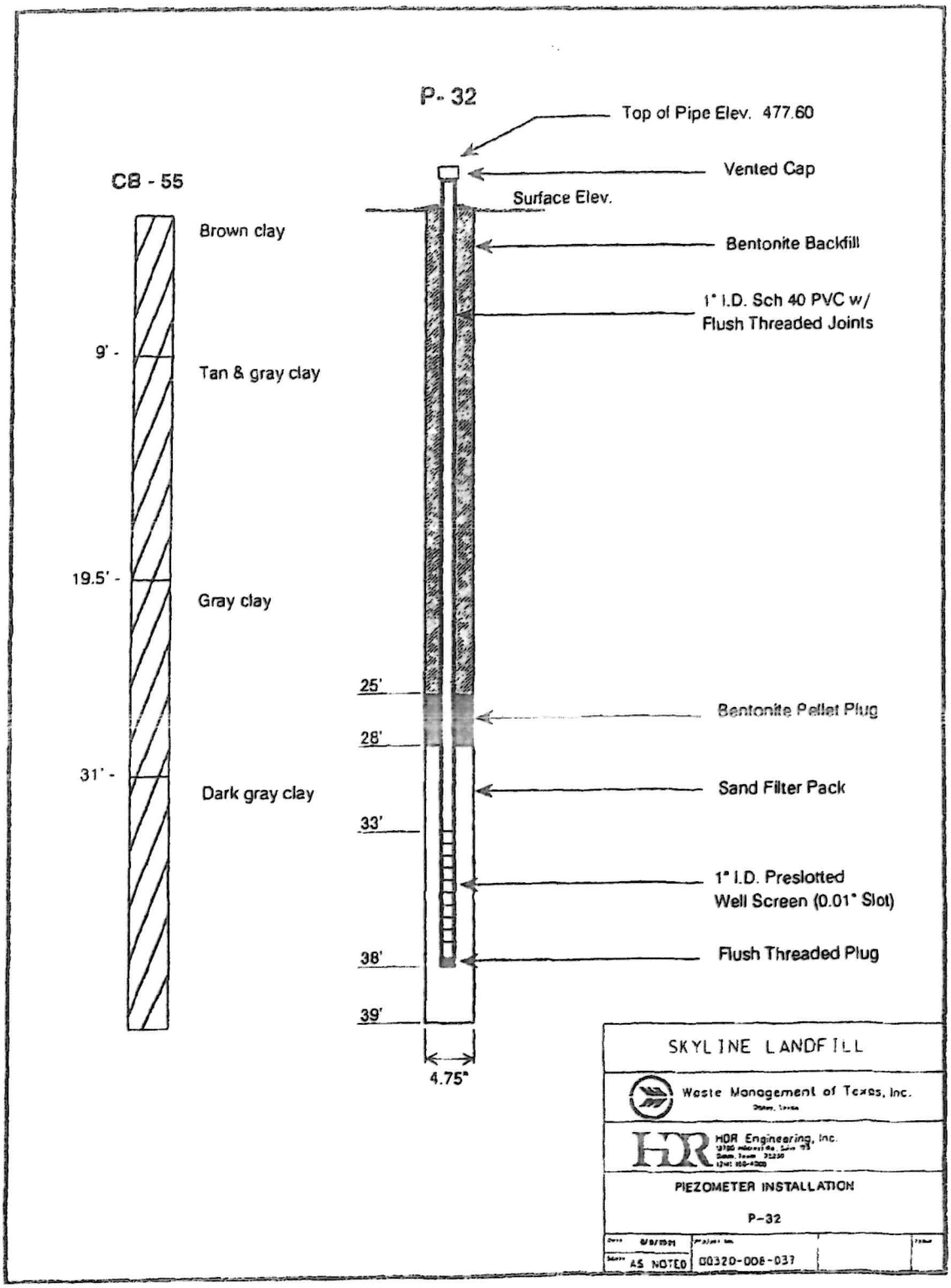

P-27
Top of Pipe Elev. 417.20
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 31
Brown clay
4'
Tan clay
15'
Dark gray clay
21'
Bentonite Pellet Plug
23'
Sand Filter Pack
28'
1" I.D. Preslotted
Well Screen (0.01" Slot)
33'
Flush Threaded Plug
35'
8"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-27
AS NOTED
00320-008-037

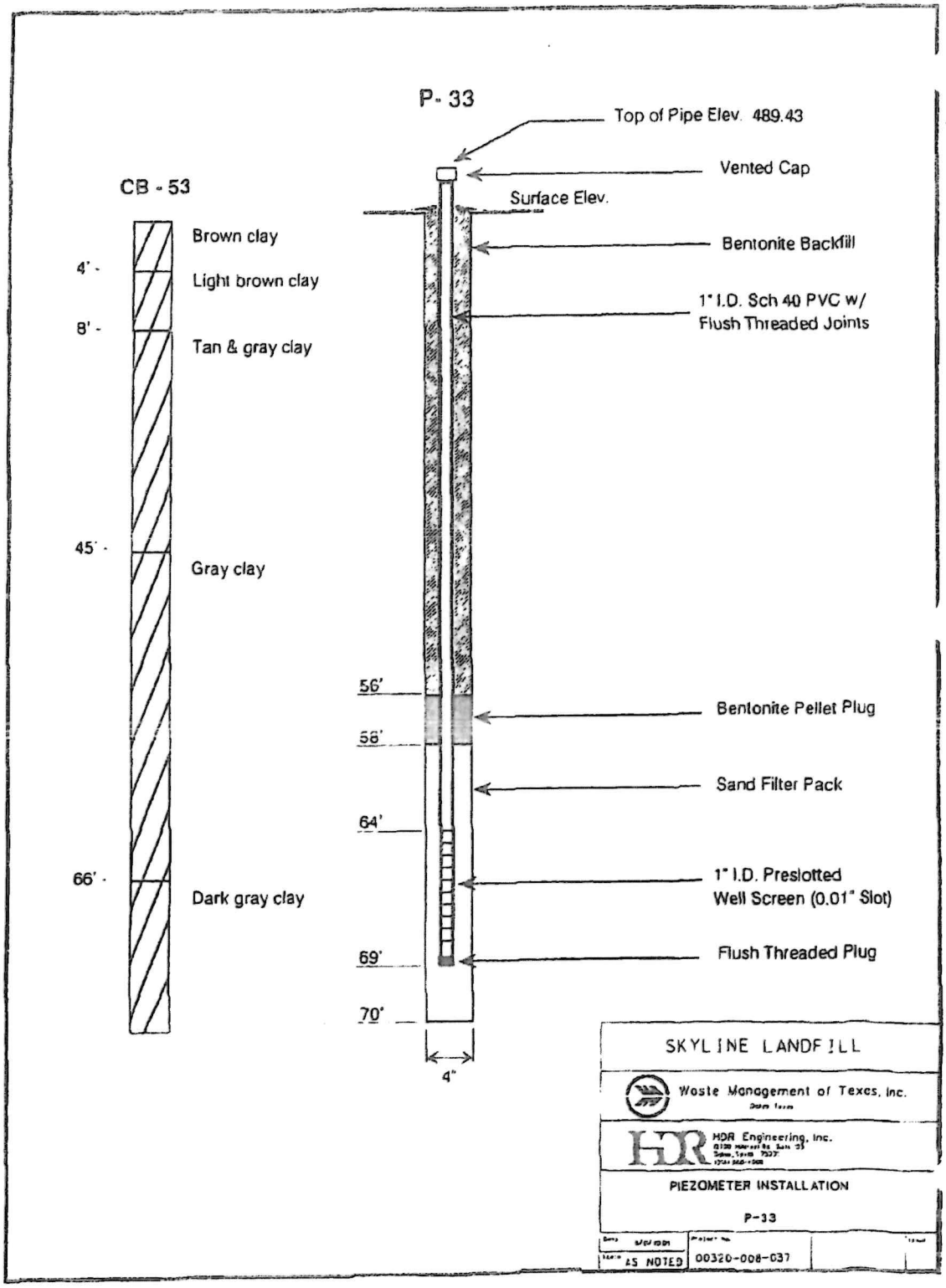

P-28
Top of Pipe Elev. 440.61
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 40
Brown clay
3' -
Tan & gray clay
12' -
Dark gray clay
30'
Bentonite Pellet Plug
32'
Sand Filter Pack
37'
1" I.D. Preslotted
Well Screen (0.01" Slot)
42'
Flush Threaded Plug
45'
8"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-28
AS NOTED
00320-006-037

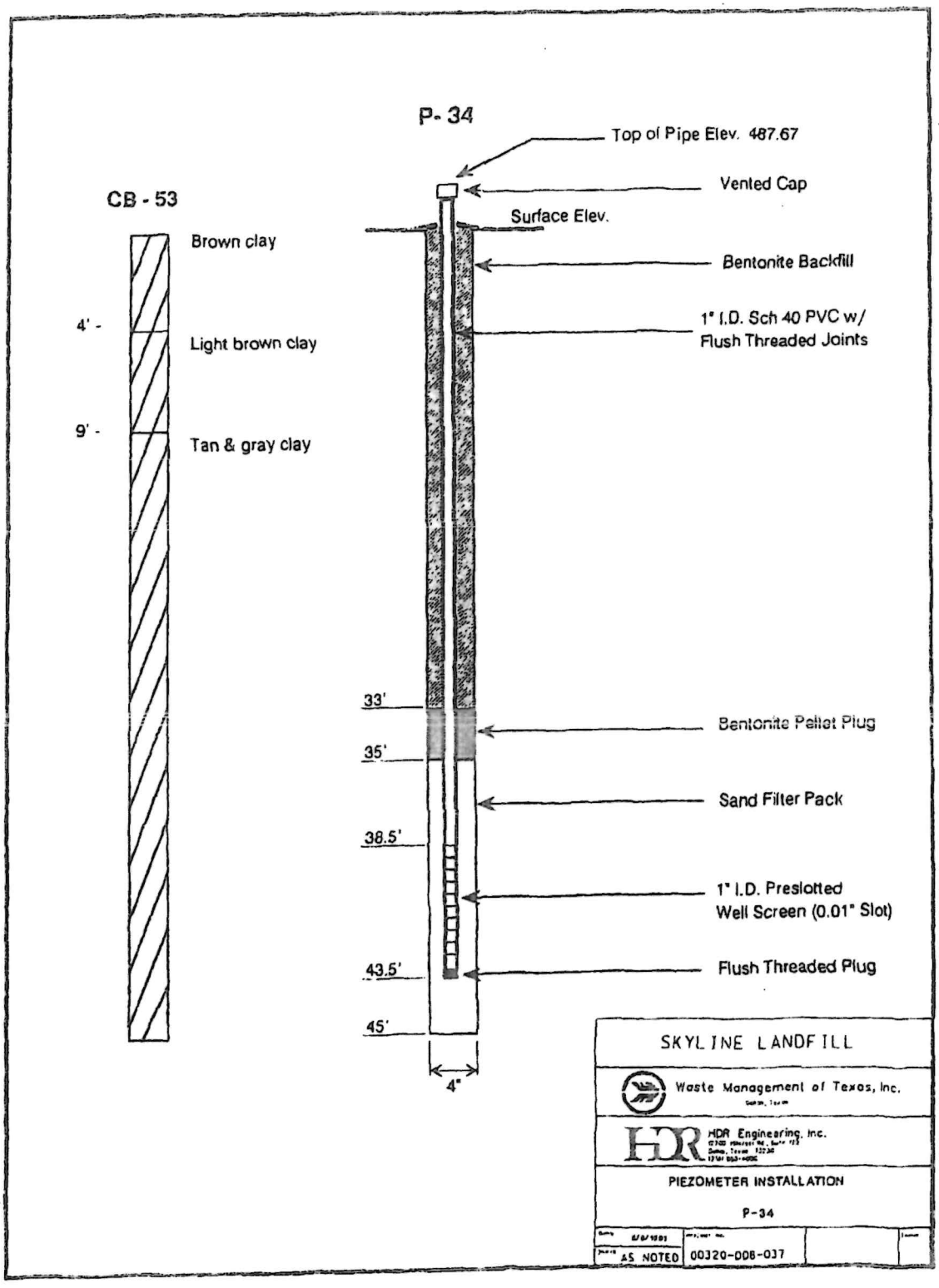

P- 29
Top of Pipe Elev. 474.27
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 46
Brown clay
2' -
Tan & gray clay
26' -
Dark gray clay
48'
Bentonite Pellet Plug
51.5'
Sand Filter Pack
58'
1" I.D. Preslotted
Well Screen (0.01" Slot)
63'
Flush Threaded Plug
65'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-28
AS NOTED
00320-006-037

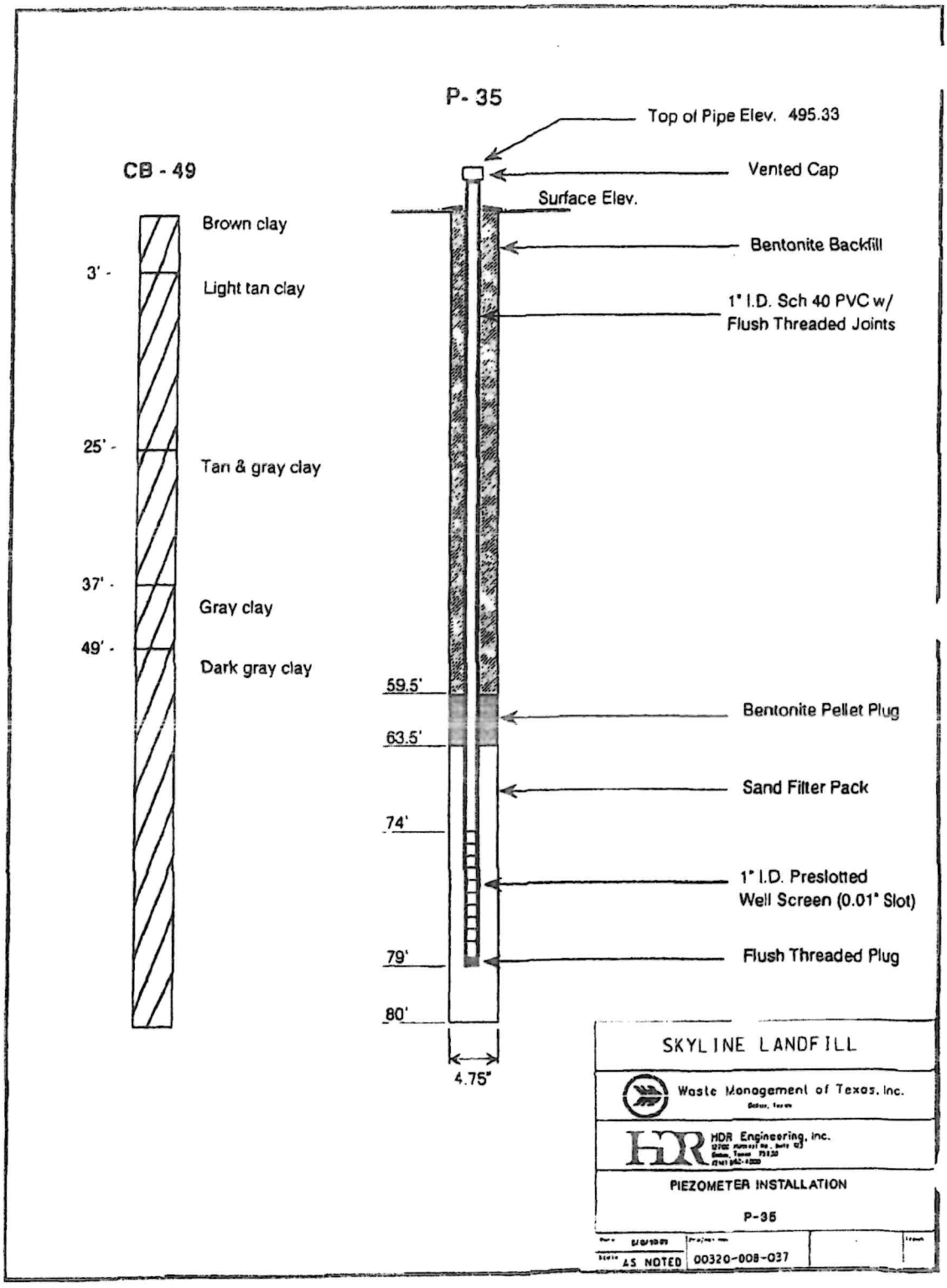

P- 30
Top of Pipe Elev. 475.25
Vented Cap
CB - 46
Surface Elev.
Brown clay
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
2'
Tan & gray clay
18'
Bentonite Pellet Plug
20'
Sand Filter Pack
25'
1" I.D. Preslotted
Well Screen (0.01" Slot)
29'
Dark gray clay
30'
Flush Threaded Plug
31'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-30
AS NOTED
00320-008-037

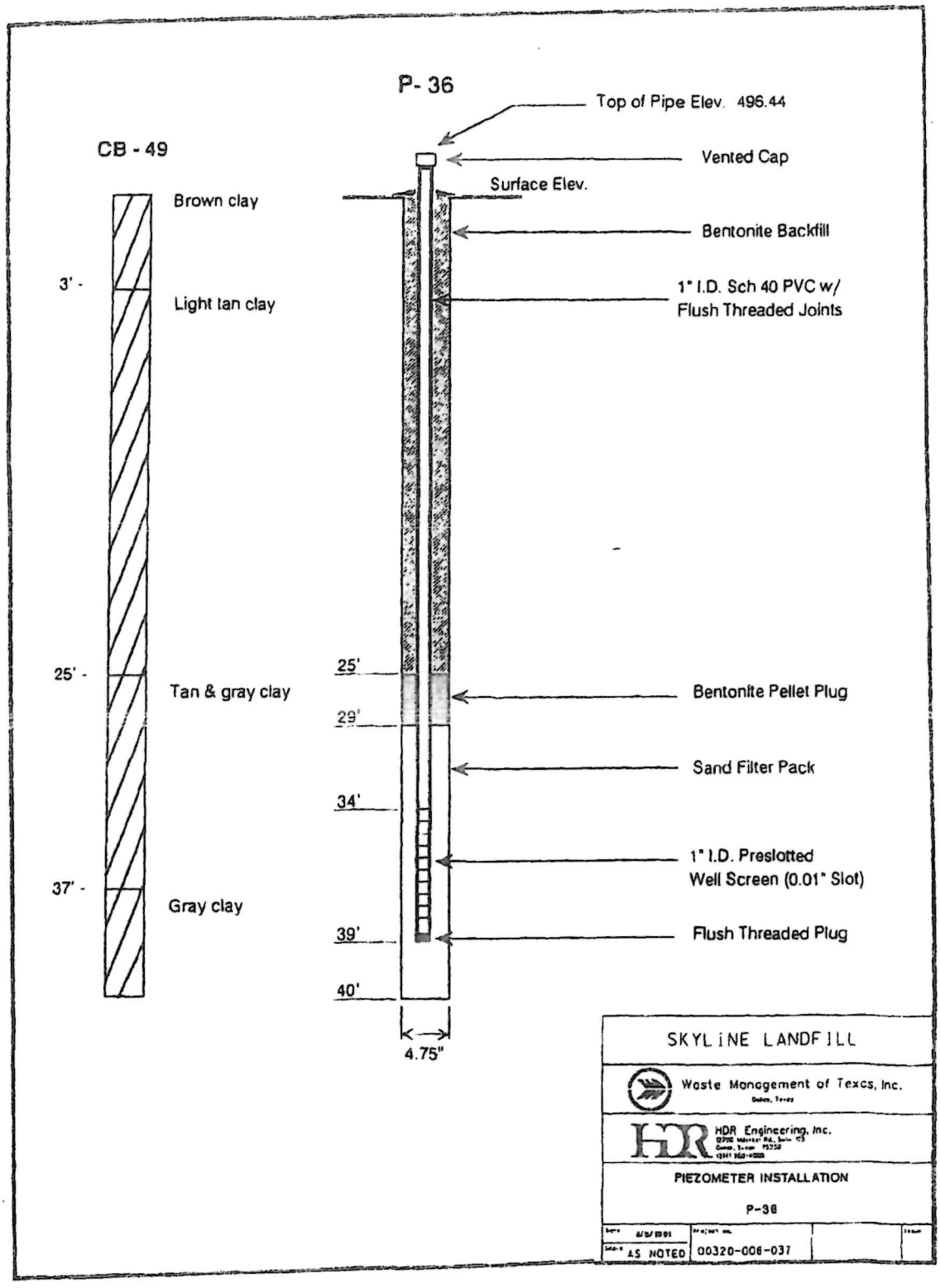

P- 31
Top of Pipe Elev. 476.48
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 55
Brown clay
9'
Tan & gray clay
20'
Gray clay
31'
Dark gray clay
44'
Bentonite Pellet Plug
48'
Sand Filter Pack
53'
1" I.D. Preslotted
Well Screen (0.01" Slot)
58'
Flush Threaded Plug
60'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-31
AS NOTED
00320-008-037


P- 32
Top of Pipe Elev. 477.60
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 55
Brown clay
9' -
Tan & gray clay
19.5' -
Gray clay
31' -
Dark gray clay
25'
Bentonite Pellet Plug
28'
Sand Filter Pack
33'
1" I.D. Preslotted
Well Screen (0.01" Slot)
38'
Flush Threaded Plug
39'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-32
AS NOTED
00320-008-037


P- 33
Top of Pipe Elev. 489.43
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 53
Brown clay
4'
Light brown clay
8'
Tan & gray clay
45'
Gray clay
66'
Dark gray clay
56'
Bentonite Pellet Plug
58'
Sand Filter Pack
64'
1" I.D. Preslotted
Well Screen (0.01" Slot)
69'
Flush Threaded Plug
70'
4"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-33
AS NOTED
00320-008-037


P- 34
Top of Pipe Elev. 487.67
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
CB - 53
Brown clay
4' -
Light brown clay
9' -
Tan & gray clay
33'
Bentonite Pellet Plug
35'
Sand Filter Pack
38.5'
1" I.D. Preslotted
Well Screen (0.01" Slot)
43.5'
Flush Threaded Plug
45'
4"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-34
AS NOTED
00320-008-037


P- 35
Top of Pipe Elev. 495.33
Vented Cap
Surface Elev.
Bentonite Backfill
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
Bentonite Pellet Plug
Sand Filter Pack
1" I.D. Preslotted
Well Screen (0.01" Slot)
Flush Threaded Plug
59.5'
63.5'
74'
79'
80'
4.75"
CB - 49
Brown clay
3' -
Light tan clay
25' -
Tan & gray clay
37' -
Gray clay
49' -
Dark gray clay
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-35
AS NOTED
00320-008-037

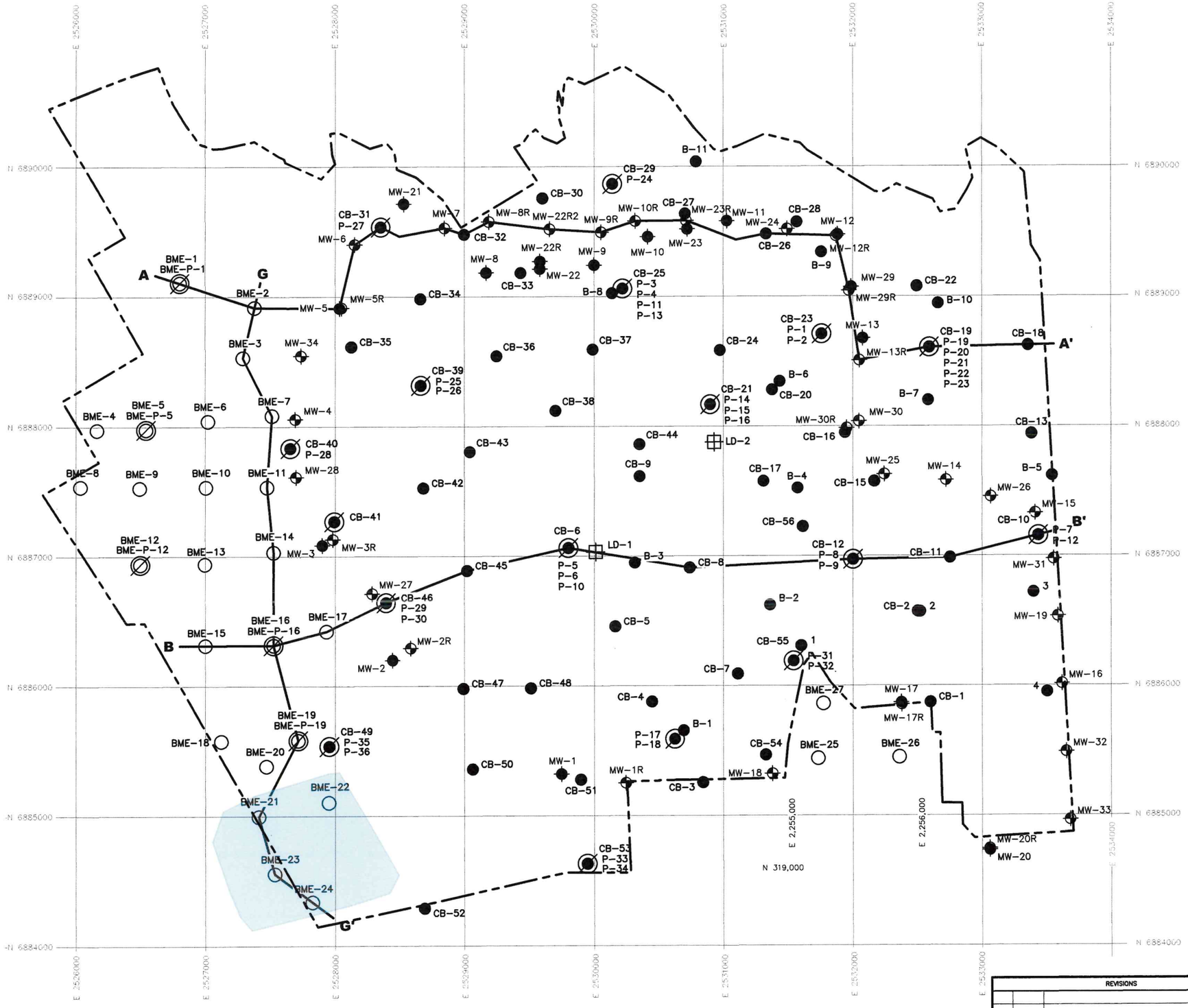

P- 36
CB - 49
Top of Pipe Elev. 496.44
Vented Cap
Surface Elev.
Brown clay
Bentonite Backfill
3' -
Light tan clay
1" I.D. Sch 40 PVC w/
Flush Threaded Joints
25' -
Tan & gray clay
25'
Bentonite Pellet Plug
29'
Sand Filter Pack
34'
1" I.D. Preslotted
Well Screen (0.01" Slot)
37' -
Gray clay
39'
Flush Threaded Plug
40'
4.75"
SKYLINE LANDFILL
Waste Management of Texas, Inc.
HDR Engineering, Inc.
PIEZOMETER INSTALLATION
P-36
AS NOTED
00320-006-037

SKYLINE LANDFILL

APPENDIX E3

SITE GEOLOGIC DATA

Geologic Cross Section Location Map
Geologic Cross Section A-A'
Geologic Cross Section B-B'
Geologic Cross Section G-G'
Structural Contour Map Top of the Unweathered Taylor



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- STATE PLANE GRID NAD 83
- PERMIT 42D MONITORING WELL
- PLUGGED MONITORING WELL
- SOIL BORING/TEST PIT
- EXPANSION BORING
- PIEZOMETER
- LARGE DIAMETER BORING
- ARTIFICIAL HIGH POINTS NOT INDICATIVE OF NATURAL ELEVATIONS DUE TO MATERIAL STOCKPILES

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

GEOLOGIC CROSS SECTION LOCATION MAP

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BME

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

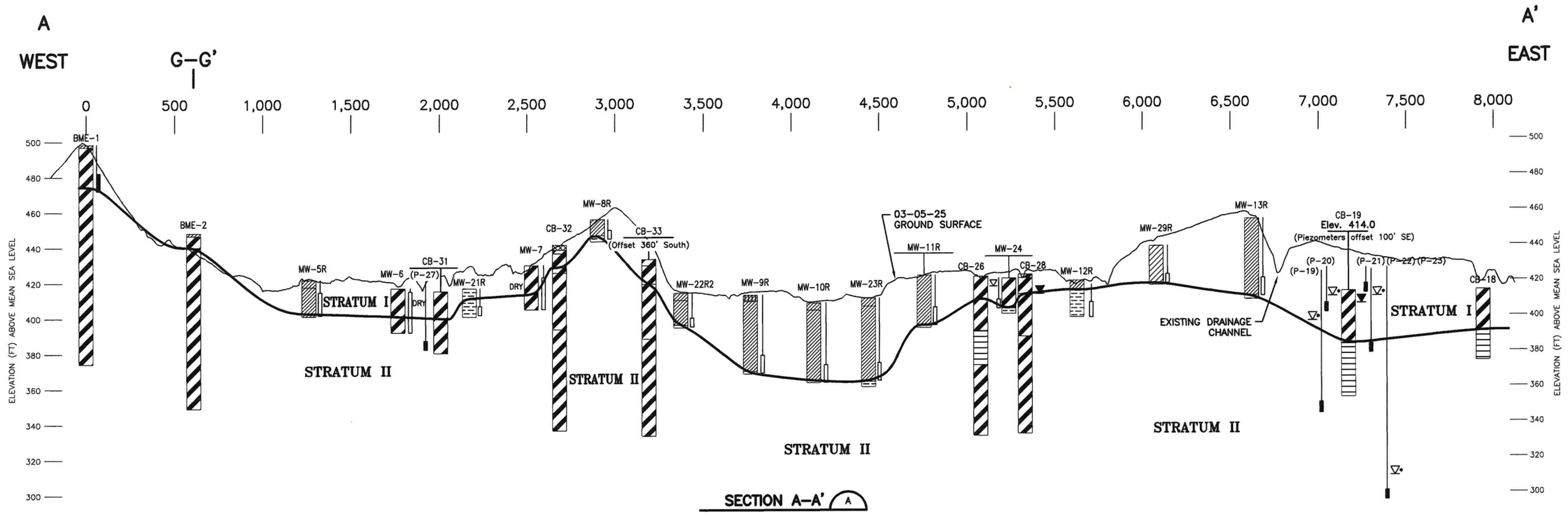
DRAWING
E3.1

REVISIONS

REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E3-1_CrossSectionLocationMap.dwg Layout: LAYOUT 1 User: awhite

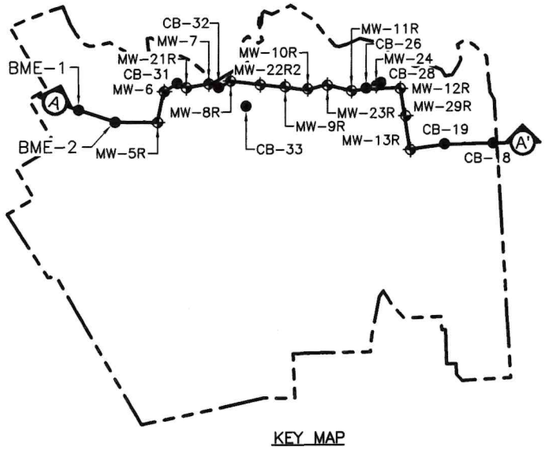
O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E3-2thru4_XSections.dwg Layout: E3-2 User: awhite



SECTION A–A' (A)

0 300 600 HORIZONTAL
SCALE IN FEET

0 30 60 VERTICAL
SCALE IN FEET



KEY MAP

LEGEND

- Clay (CH)
- Clay (CL)
- Clay, Silty
- Fill
- Claystone (Unweathered Taylor Marl)
- Shale
- ▽ WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- ▼ STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- ▽* WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991

  NO WATER WAS OBSERVED DURING THE JUNE 2010 SAMPLING EVENT
- APPROXIMATE CURRENT GROUND SURFACE
- LITHOLOGIC CONTACT
- MONITORING WELL SCREENED INTERVAL
- PIEZOMETER SCREENED INTERVAL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

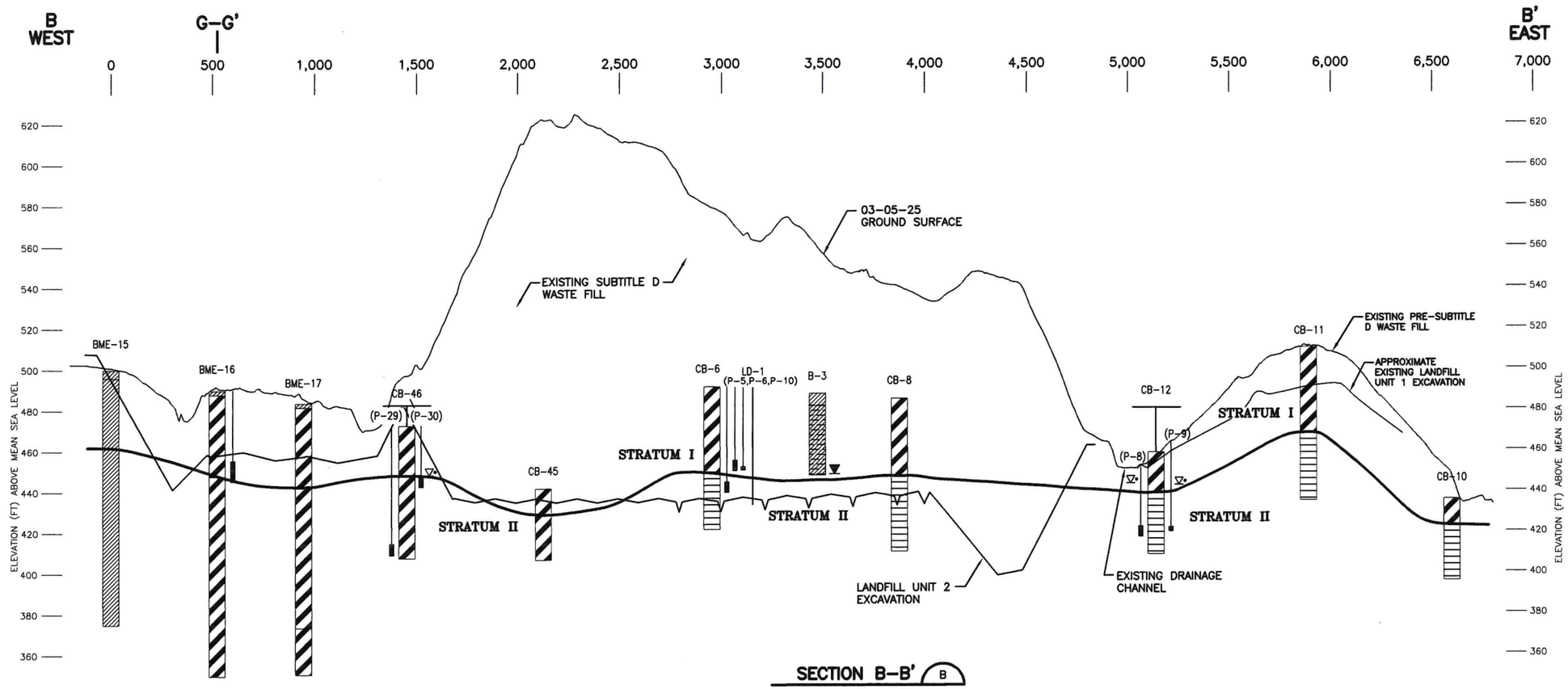
GEOLOGIC CROSS SECTION A – A'

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

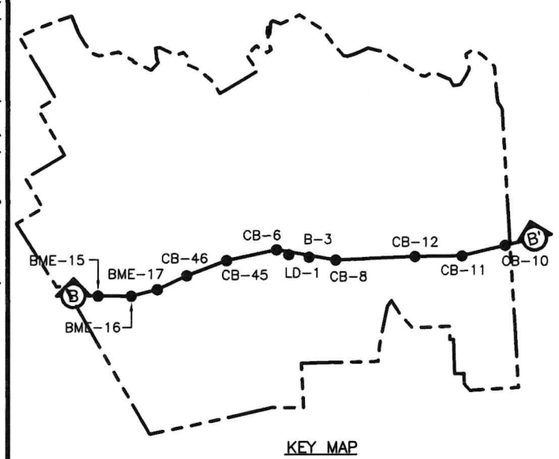
DRAWING
E3.2



SECTION B–B'

0 300 600 SCALE IN FEET — HORIZONTAL

0 30 60 SCALE IN FEET — VERTICAL



KEY MAP

LEGEND

- Clay (CH)
- Clay (CL)
- Claystone (Unweathered Taylor Marl)
- Clay, Shaley
- APPROXIMATE CURRENT GROUND SURFACE
- LITHOLOGIC CONTACT
- ▽ WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- ▼ STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- ▽* WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991
- PIEZOMETER SCREENED INTERVAL

NOTE:

1. BOTTOM OF 42–1 EXCAVATION IS ESTIMATED BASED ON INFORMATION FROM THE 1978 ORIGINAL PERMIT APPLICATION AND INFORMATION PROVIDED BY WASTE MANAGEMENT.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

GEOLOGIC CROSS SECTION B – B'

WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL

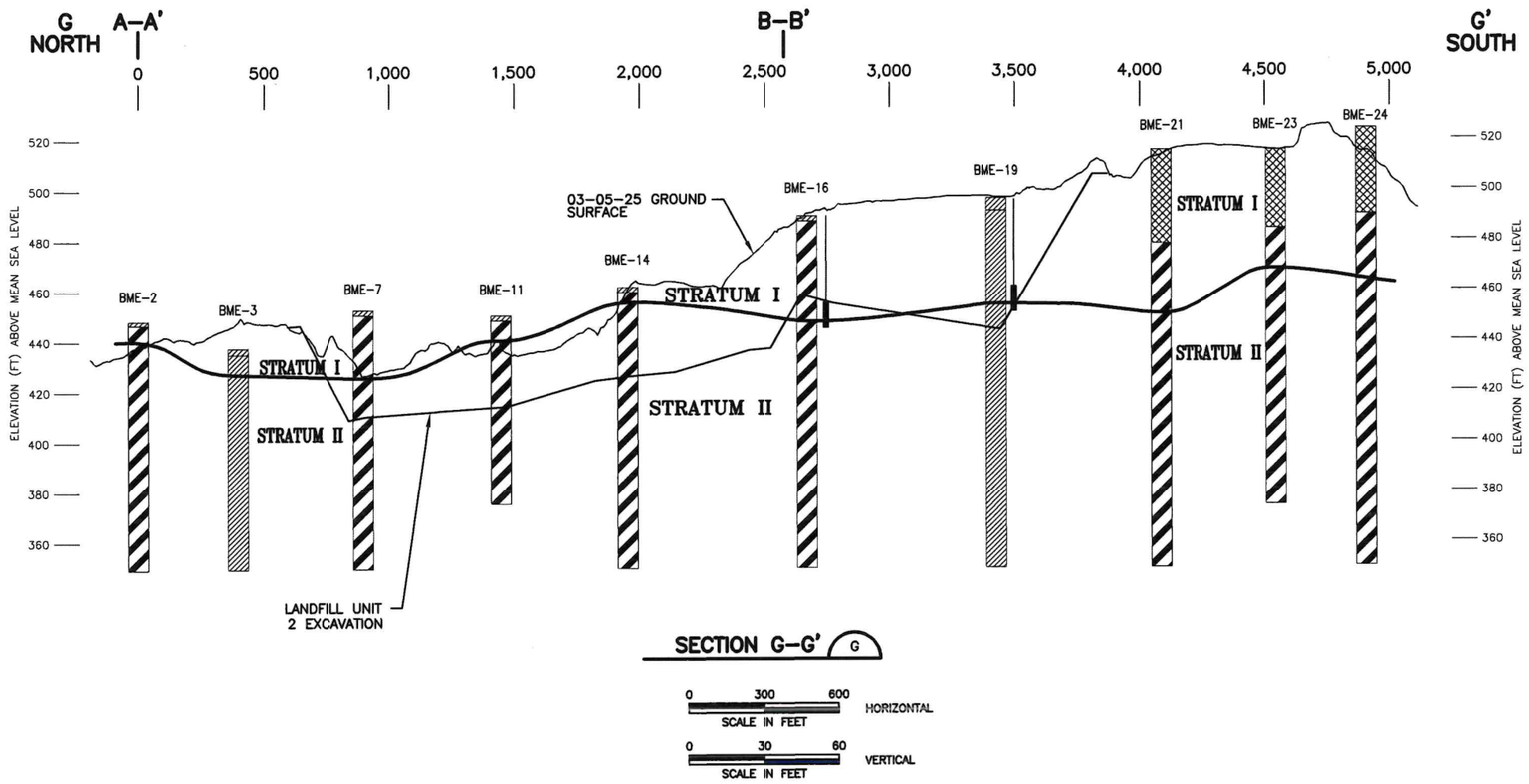
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817–563–1144

TBPELS FIRM NO. F–256 AND NO. 10194895

TBPG FIRM NO. 50222

DRAWING E3.3

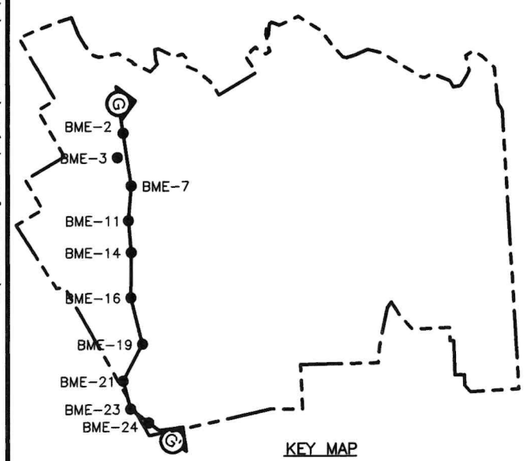
O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E3–2thru4_XSections.dwg Layout: E3–3 User: awhite



SECTION G–G' (G)

0 300 600 SCALE IN FEET — HORIZONTAL

0 30 60 SCALE IN FEET — VERTICAL



KEY MAP

LEGEND

- Clay (CH)
- Clay (CL)
- Fill
- APPROXIMATE CURRENT GROUND SURFACE
- LITHOLOGIC CONTACT
- WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991
- NO WATER WAS OBSERVED DURING THE JUNE 2010 SAMPLING EVENT
- PIEZOMETER SCREENED INTERVAL

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

GEOLOGIC CROSS SECTION G – G'

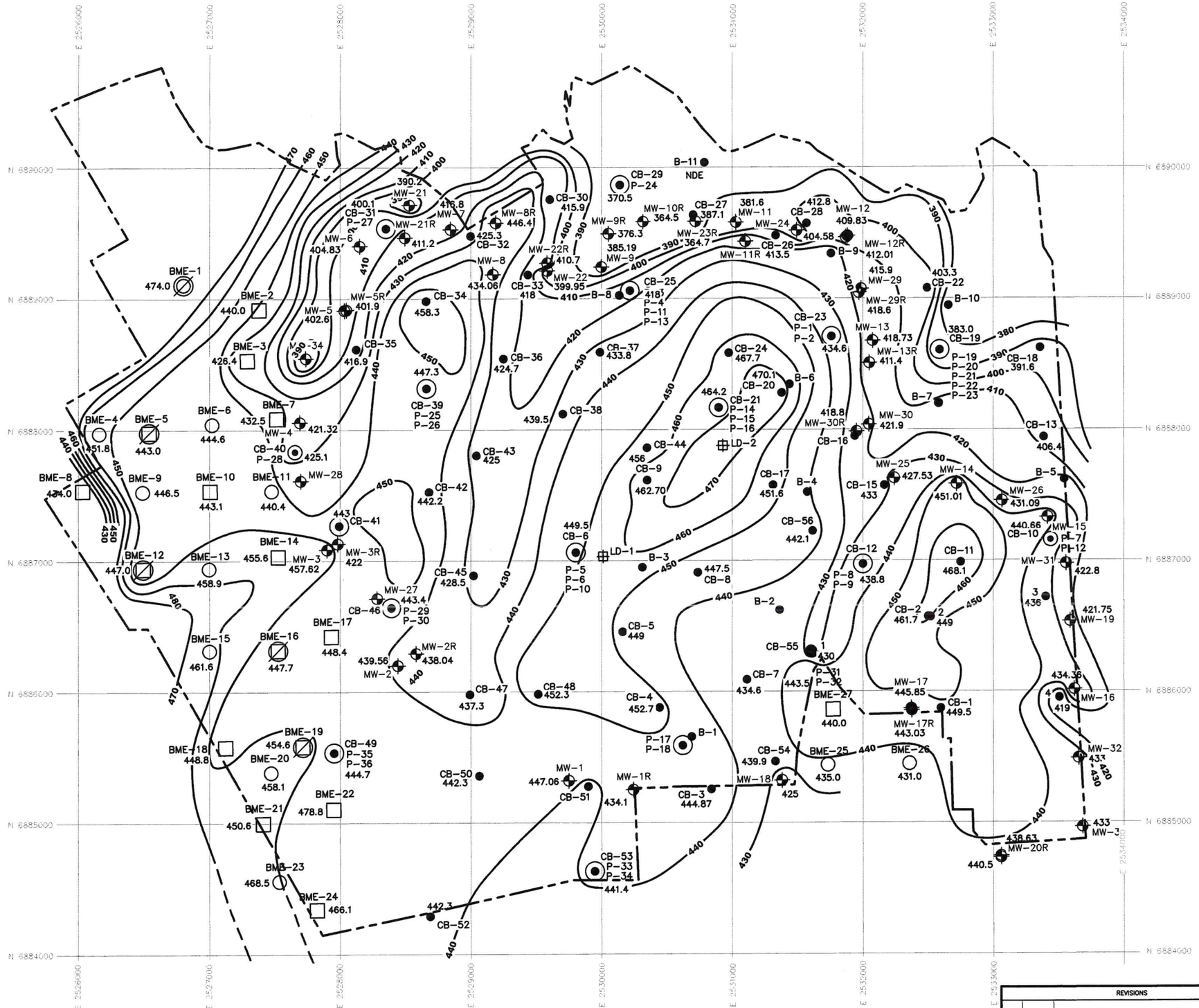
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E3.4

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E3-2thru4_XSections.dwg Layout: E3-4 User: awhite



STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

STRUCTURAL CONTOUR MAP TOP OF THE UNWEATHERED TAYLOR

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E3.5

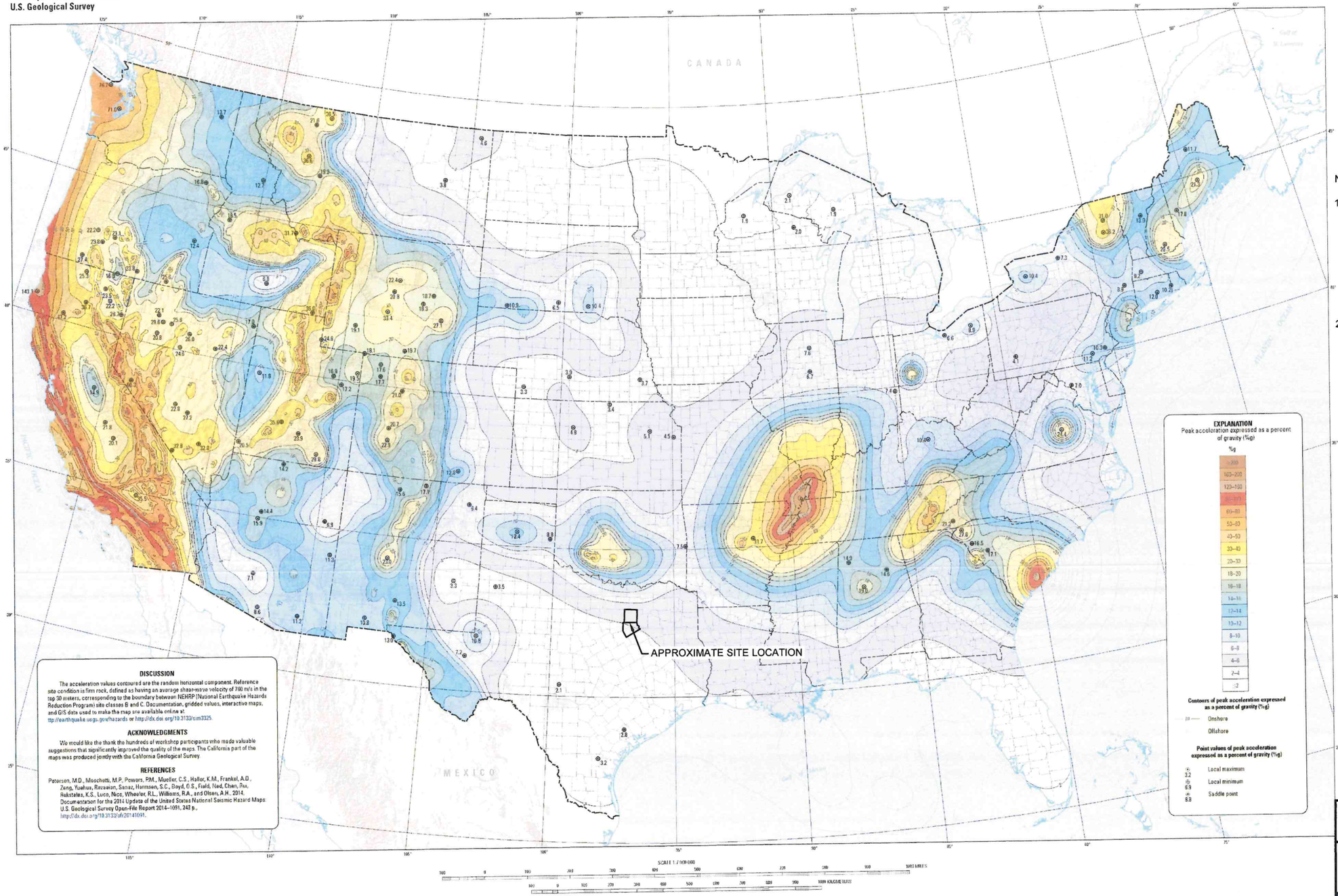
O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E3-5_StructureMap_UnweatheredTaylor.dwg Layout: LAYOUT 1 User: owhite

SKYLINE LANDFILL

APPENDIX E4

FAULT AND SEISMIC DATA

Seismic Impact Zone Map
Earthquake Hazards 201 – Technical Q&A
Location of Oil/Gas Producing Wells
Location of Quaternary Faults Map



DISCUSSION

The acceleration values contoured are the random horizontal component. Reference site condition is firm rock, defined as having an average shear-wave velocity of 760 m/s in the top 30 meters, corresponding to the boundary between NEHRP (National Earthquake Hazards Reduction Program) site classes B and C. Documentation, gridded values, interactive maps, and GIS data used to make the map are available online at: http://earthquake.usgs.gov/hazards or http://dx.doi.org/10.3133/sim3325.

ACKNOWLEDGMENTS

We would like the thank the hundreds of workshop participants who made valuable suggestions that significantly improved the quality of the maps. The California part of the maps was produced jointly with the California Geological Survey.

REFERENCES

Petersen, M.D., Moschetti, M.P., Powers, P.M., Mueller, C.S., Haller, K.M., Frankel, A.D., Zeng, Yuehua, Rezaeian, Sanaz, Harmsen, S.C., Boyd, O.S., Field, Ned, Chen, Rui, Rukstales, K.S., Luco, Nico, Wheeler, R.L., Williams, R.A., and Olsen, A.H., 2014, Documentation for the 2014 Update of the United States National Seismic Hazard Maps: U.S. Geological Survey Open-File Report 2014–1091, 243 p., http://dx.doi.org/10.3133/ofr20141091.

Seismic-Hazard Maps for the Conterminous United States, 2014

Peak Horizontal Acceleration with 2 Percent Probability of Exceedance in 50 Years

By

Mark D. Petersen,[1] Morgan P. Moschetti,[1] Peter M. Powers,[1] Charles S. Mueller,[1] Kathleen M. Haller,[1] Arthur D. Frankel,[1] Yuehua Zeng,[1] Sanaz Rezaeian,[1] Stephen C. Harmsen,[1] Oliver S. Boyd,[1] Edward H. Field,[1] Rui Chen,[2] Nicolas Luco,[1] Russell L. Wheeler,[1] Robert A. Williams,[1] Anna H. Olsen,[1] and Kenneth S. Rukstales[1]

2015

NOTES:

1. THE FACILITY LIES IN AN AREA WHERE THE PGA, WITH A 2% PROBABILITY OF BEING EXCEEDED IN 50 YEARS, IS LESS THAN 10% OF GRAVITY (LESS THAN 0.1g). THIS IS EQUIVALENT TO A 10% PROBABILITY IN 250 YEARS. A PRINTOUT OF THE USGS FAQ RESPONSE CONFIRMING THE EQUIVALENCY IS INCLUDED IN THIS SUBMITTAL ON THE NEXT PAGE.
2. THE MAP PRESENTED HERE IS INTENDED TO ONLY DEPICT THE IMPACT ZONE IN WHICH THE FACILITY LIES. PLEASE REFER TO PETERSON, M.D., ET AL., 2015, SEISMIC HAZARD MAPS FOR THE CONTERMINOUS UNITED STATES, 2014: U.S. GEOLOGICAL SURVEY SCIENTIFIC INVESTIGATION MAP 3325, 6 SHEETS, SCALE 1:7,000,000. HTTPS://PUBS.USGS.GOV/SIM/3325/PDF/SIM3325_SHEET2.PDF FOR A FULLY LEGIBLE VERSION.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

SEISMIC IMPACT ZONE MAP

WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817–563–1144

TBPELS FIRM NO. F–256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E4.1

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E4-1_SeismicImpact.dwg Layout: LAYOUT 1 User: awhite

The seismic hazard map is for ground motions having a 2% probability of exceedance in 50 years. Are those values the same as those for 10% in 250?

Yes, basically. This conclusion will be illustrated by using an approximate rule-of-thumb for calculating Return Period (RP).

A typical seismic hazard map may have the title, "Ground motions having 90 percent probability of not being exceeded in 50 years." The 90 percent is a "non-exceedance probability"; the 50 years is an "exposure time." An equivalent alternative title for the same map would be, "Ground motions having 10 percent probability of being exceeded in 50 years." A typical shorthand to describe these ground motions is to say that they are 475-year return-period ground motions. This means the same as saying that these ground motions have an annual probability of occurrence of 1/475 per year. "Return period" is thus just the inverse of the annual probability of occurrence (of getting an exceedance of that ground motion).

To get an approximate value of the return period, RP, given the exposure time, T, and exceedance probability, r = 1 - non-exceedance probability, NEP, (expressed as a decimal, rather than a percent), calculate:

RP = T / r* Where r* = r(1 + 0.5r).r* is an approximation to the value -loge (NEP).
In the above case, where r = 0.10, r* = 0.105 which is
approximately = -loge (0.90) = 0.10536 Thus, approximately,
when r = 0.10, RP = T / 0.105

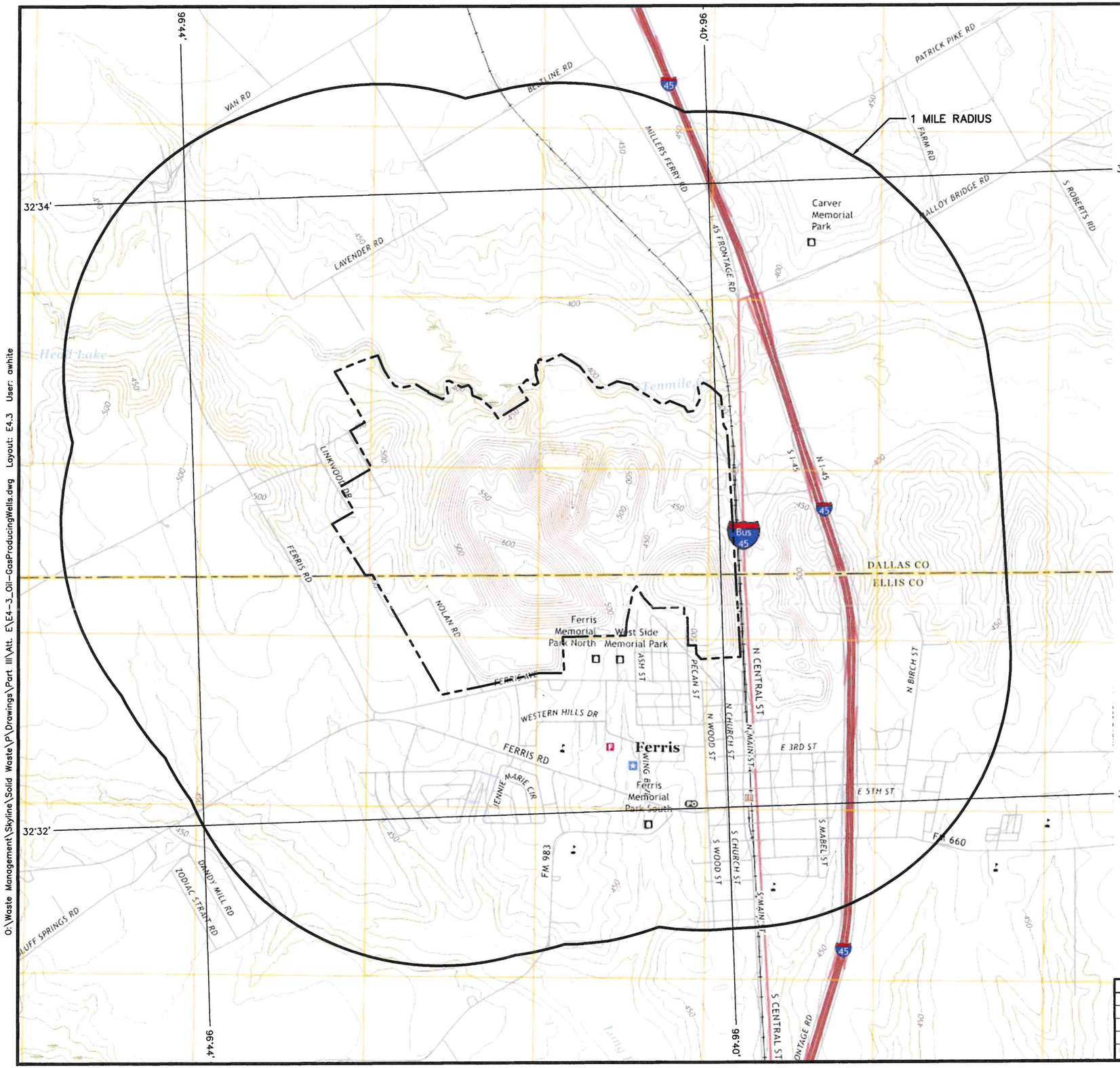
Consider the following table:

				Rule of Thumb		Exact
NEP	T	r	r*	Calculation	RP	RP
0.90	50	0.10	0.105	50/0.105	476.2	474.6
0.90	100	0.10	0.105	100/0.105	952.4	949.1
0.90	250	0.10	0.105	250/0.105	2381.0	2372.8

In this table, the exceedance probability is constant for different exposure times. Compare the results of the above table with those shown below, all for the same exposure time, with differing exceedance probabilities.

				Rule of Thumb		Exact
NEP	T	r	r*	Calculation	RP	RP
0.90	50	0.10	0.105	50/0.105	476.2	474.6
0.95	50	0.05	0.05125	50/0.05125	975.6	974.8
0.98	50	0.02	0.0202	50/0.0202	2475.2	2475.9

Comparison of the last entry in each table allows us to see that ground motion values having a 2% probability of exceedance in 50 years should be approximately the same as those having 10% probability of being exceeded in 250 years: The annual exceedance probabilities differ by about 4%. Corresponding ground motions should differ by 2% or less in the EUS and 1 percent or less in the WUS, based upon typical relations between ground motion and return period.



0 1000 2000
SCALE IN FEET

LEGEND

PERMIT 42E BOUNDARY

FERRIS, TX
2022

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

NOTES:

1. OIL AND GAS WELL INFORMATION DOWNLOADED FROM RAILROAD COMMISSION OF TEXAS IN APRIL 2025.
2. NO PRODUCING OIL AND GAS WELLS WERE IDENTIFIED IN THE 1 MILE RADIUS OF THE FACILITY.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

LOCATION OF OIL/GAS PRODUCING WELLS

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E4.3

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E4-3_Oil-GasProducingWells.dwg Layout: E4.3 User: awhite

U.S. Geological Survey Quaternary Faults



Fault Areas
- Class B
- historic
- late Quaternary
- latest Quaternary
- middle and late Quaternary

National Database
- Historic (< 150 years), well constrained location
- Historic (< 150 years), moderately constrained location
- Historic (< 150 years), inferred location
- Latest Quaternary (<15,000 years), well constrained location
- Latest Quaternary (<15,000 years), moderately constrained location
- Latest Quaternary (<15,000 years), inferred location
- Late Quaternary (< 130,000 years), well constrained location
- Late Quaternary (< 130,000 years), moderately contrained location
- Late Quaternary (< 130,000 years), inferred location
- Middle and late Quaternary (< 750,000 years), well constrained location
- Middle and late Quaternary (< 750,000 years), moderately constrained location
- Middle and late Quaternary (< 750,000 years), inferred location
- Undifferentiated Quaternary (< 1.6 million years), well constrained location
- Undifferentiated Quaternary (< 1.6 million years), moderately constrained location
- Undifferentiated Quaternary (< 1.6 million years), inferred location

1:18,489,298

0 185 370 740 mi

0 285 570 1,140 km

National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

SOURCE:

U.S. GEOLOGICAL SURVEY AND TEXAS BUREAU OF ECONOMIC GEOLOGY, ACCESSED MAY 29, 2023, AT: https://www.usgs.gov/natural hazards/earthquake-hazards/faults.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

LOCATION OF QUATERNARY FAULTS MAP

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E4.4

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E4-4_QuaternaryFaults.dwg Layout: E4-4 User: awhite

SKYLINE LANDFILL

APPENDIX E5

SITE HYDROGEOLOGIC DATA

Monitoring Well Groundwater Elevations Table
Historical Piezometer Groundwater Elevations Table
Existing Piezometer Groundwater Elevations Table
Groundwater Observations During Drilling
Potentiometric Surface Maps
Groundwater Flow Velocity Calculations
Potentiometric Surface Map – June 1991 Pre-Excavation
Topographic Influences to Groundwater Flow
Conceptual Hydrogeologic Cross Section
Conceptual Hydrogeologic Groundwater Flow Model
Excavation Plan Showing Remaining Weathered Taylor Marl

Waste Management Skyline Landfill

Monitoring Well Groundwater Elevations

(FT/MSL)

Sampling Date	MW-1	MW-1R	MW-2	MW-2R	MW-3	MW-3R	MW-4	MW-5	MW-5R	MW-6	MW-7	MW-8	MW-8R	MW-9	MW-9R	MW-10	MW-10R	MW-11	MW-11R	MW-12	MW-12R	MW-13	MW-13R	MW-14	MW-15	MW-16	MW-17	MW-17R	MW-18	MW-19
Dec-94																								454.65		432.96	453.65		459.26	**438.16**
Mar-95																								451.96	424.80	442.36	460.17		463.50	437.38
Jun-95																								450.21	425.96	443.08	461.91		465.23	436.75
Sep-95	486.95		453.65							394.69		423.12		406.60		409.50		408.47						450.18	426.01	441.25	461.36		463.27	436.57
Dec-95	485.02		453.17							394.64		421.31		406.17		407.64		407.58		397.73				448.78	425.21	437.20	461.26		461.44	436.51
Mar-96	484.06		453.71							394.90		421.34		406.00		406.57		407.38		399.06				447.36	425.37	437.16	462.60		461.27	436.88
Jun-96	483.48		453.16							394.37		420.90		405.60		406.01		407.39		397.77				447.11		438.74	462.71		461.31	435.88
Sep-96	484.54		453.33							394.02		420.62		404.80		405.84		407.87		400.52				449.63	425.34	440.02	462.68		463.39	436.60
Dec-96	486.34		454.05							394.25		420.94		407.94		407.13		408.52		413.31				449.89	425.05	440.94	463.04		464.80	437.11
Mar-97	487.75		454.03							394.64		**430.10**		410.37		409.04		409.20		**416.71**				449.61	424.95	441.01	462.96		466.00	436.40
Jun-97	485.92		454.31							395.16		428.70		**410.67**		**409.92**		409.53		411.90				449.23	426.80	441.80	463.42		463.74	435.50
Sep-97																									426.47					
Dec-97	486.48		**454.44**							396.16		427.05		406.46		407.02		408.38		403.52				450.06	429.94	441.42	464.47		462.91	437.80
Mar-98											421.67														426.80					
Jun-98	489.10		454.18							395.36	408.75	426.31		406.63		406.46		407.97		410.86				448.94	427.63	442.26	465.14		462.37	436.60
Sep-98																									426.25					
Jun-01	468.53		**454.44**									426.68		403.98		403.80		406.47		409.48				452.19	431.92	442.76	469.69		461.76	435.67
Aug-01																				399.99					427.80	438.26				
Dec-01	469.32		454.09							409.71		426.30		403.26		402.70		405.92		399.35				452.84	427.16	438.96	468.76		460.53	436.60
Jun-02	469.52		453.73							399.22		426.64		404.50		402.98		406.14		411.27				451.42	428.56	443.34	471.62		462.24	434.92
Dec-02	469.98		453.45							395.39	407.79	425.93		402.30		401.88		405.82		401.61				451.14	428.07	441.13	470.52		459.80	436.00
Jun-03	470.22		453.10							394.18		426.07		402.65		401.96		405.76		400.77				452.07	432.60	442.25	470.71		461.34	434.58
Aug-03																									427.86					
Dec-03	469.26		452.55									425.80		401.36		400.78		405.38						450.69		440.04	469.12		458.88	435.26
Jun-04	469.86		452.71							395.71		426.70		402.72		402.07		406.28		404.91				452.87	429.44	442.99	470.17		461.81	434.70
Dec-04	470.71		453.47							395.29	405.30	427.93		402.82		403.12		407.47		403.43				452.02	433.63	443.25	471.54		462.49	436.43
Jun-05	469.50		452.19		**431.60**					394.11		426.10		403.50		403.84		407.04		408.97				451.23	436.56	442.19	470.44		461.04	434.19
Dec-05	469.56		451.09		430.62							425.69		400.74		400.78		405.44		400.31				448.33	428.25	435.62	470.02		457.90	435.02
Jun-06	468.60		450.63		430.46					407.31		425.16		400.24		399.68		404.76		403.49				450.77	426.30	437.64	469.56		458.90	433.97
Dec-06	469.80		451.08		430.50					404.79		422.55		399.88		398.98		404.82		398.73				451.00	426.47	437.56	469.39		458.24	435.87
Mar-07			450.73							397.33		426.62		400.66		399.53		405.87						452.46	427.28	440.44	469.82		459.56	435.65
Jun-07	469.52		450.63									427.20		401.10		399.86		406.75						454.26	443.40	442.41	476.64		461.38	434.83
Dec-07	470.38			430.13						395.06		426.50		401.80		400.30		407.08						452.91	442.52	441.82	470.79		462.05	435.91
Jun-08	471.88			424.23						394.69		426.65		401.90		401.32		407.92						452.66	441.58	442.73	471.89		462.49	434.50
Dec-08	470.75			425.98						395.73		426.05		399.80		399.01		406.12						449.41	433.80	437.63	470.42		459.08	435.20
Jun-09	470.05			428.91		464.86				395.53		426.31		399.94		399.26		407.60		411.46				453.34	441.87	438.36	470.83		460.90	434.27
Sep-09	469.66			423.63		437.80				394.48		424.20		398.30		397.78		406.62		407.07				451.72	432.46	439.08	469.36		459.87	433.90
Dec-09	470.63			434.68		470.23				393.73		428.06		400.27		399.31		409.00		414.44				454.31	443.38	443.53	477.50		463.02	435.38
Mar-10				443.28		467.68				393.73		429.18		401.90		400.58		**410.00**		416.07				454.15	443.65	444.01				435.04
Jun-10	472.25			449.08		465.68						426.38		400.83		399.98		408.42		411.57				452.54	440.98	442.05	474.64		462.22	433.76
Sep-10				445.85		468.33					406.67									408.07					434.05					
Dec-10	471.63			451.47		465.46						426.21		398.89		398.34		406.75		405.38				450.57	430.57	439.64	472.27		460.44	435.18
Jan-11																											473.90			
Mar-11				445.99		466.68	**413.05**													414.20										
May-11				439.88																										
Jun-11	483.83			430.50		465.88						425.46		398.92		397.75		407.47		409.47				452.08	439.84	440.86	474.03		461.48	434.10
Sep-11																														
Dec-11	483.39			451.04		466.97								396.64		395.61		405.83		403.35				451.56	430.64	438.03	472.90		458.55	435.03
Mar-12										405.96																				
Jun-12	483.33			449.70		466.30								396.97		395.72		406.74		403.75				451.27	439.84	439.86	473.65		460.30	434.10
Sep-12										399.51																				
Dec-12	482.57			444.99		465.25				395.49		425.10		394.84		394.43		404.99		402.11				449.01	429.13	438.56	472.50		457.88	434.85
Mar-13										407.56																				
Jun-13	481.90			445.39		465.98								394.68		394.33		405.83		401.73				450.51	426.98	439.76	472.31		457.54	434.13
Sep-13																														
Dec-13	481.37			440.89		468.78				407.11		423.97		392.96		392.88		404.97		400.44				452.83	428.41	439.05	471.97		457.32	434.73
Jan-14										403.36																				
Mar-14											409.07																			
Jun-14	481.02			442.69		467.05				397.36		425.50		391.64		393.58		406.33		401.30				451.71	440.00	439.76	472.31		457.54	434.13
Sep-14																														
Dec-14	480.30			444.06		465.45						423.17		391.61		391.73		404.01		399.60				451.84	433.45	438.49	470.63		456.43	434.40
Jan-15														388.74		392.28														
Mar-15										396.74		426.60		385.58																
Jun-15	483.81			445.54		469.40				394.89	405.27	427.58		395.66		393.01		409.22		399.55				454.35	442.50	443.21	477.90		460.12	433.60

Waste Management Skyline Landfill
Monitoring Well Groundwater Elevations
(FT/MSL)

Sampling Date	MW-20	MW-20R	MW-21	MW-21R	MW-22	MW-22R	MW-22R2	MW-23	MW-23R	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-29R	MW-30	MW-30R	MW-31	MW-32	MW-33	MW-34	P-BME-01	P-BME-05	P-BME-12	P-BME-16	P-BME-19
Dec-94	434.37																										
Mar-95	438.72																										
Jun-95	438.93																										
Sep-95	437.58																										
Dec-95	436.67																										
Mar-96	440.40																										
Jun-96	434.84																										
Sep-96	437.19																										
Dec-96	438.18																										
Mar-97	439.45																										
Jun-97	438.64																										
Sep-97																											
Dec-97	440.03																										
Mar-98																											
Jun-98	441.87																										
Sep-98																											
Jun-01	**443.54**																										
Aug-01																											
Dec-01	439.80																										
Jun-02	441.32																										
Dec-02	438.36																										
Jun-03																											
Aug-03																											
Dec-03																											
Jun-04		438.97																									
Dec-04		439.93																									
Jun-05		439.63																									
Dec-05		437.35																									
Jun-06		437.99																									
Dec-06		437.03																									
Mar-07		436.03																									
Jun-07		435.58																									
Dec-07		440.83																									
Jun-08		444.92																									
Dec-08		440.88																									
Jun-09		440.83																									
Sep-09		436.03																									
Dec-09		437.03																									
Mar-10								401.96		**420.16**	437.93																
Jun-10		445.28	**390.25**		398.46			400.34		416.99	437.83																
Sep-10			388.90		**410.06**			398.57		415.97	438.66																
Dec-10		447.83	389.63		400.81			398.42		417.78	438.42																
Jan-11																											
Mar-11			388.35		400.26			399.61		419.82	438.80																
May-11																											
Jun-11		447.73						398.11		416.92	438.81																
Sep-11					403.21			396.41		410.80	437.89																
Dec-11		445.05			400.81			395.89		413.83	439.51	430.09															
Mar-12					408.26							429.31															
Jun-12		448.98			401.74			396.93		415.27	439.96																
Sep-12																											
Dec-12		439.76			400.19			394.69		407.20	440.77	444.36															
Mar-13			389.59		401.68							446.71															
Jun-13		446.06			400.13			394.86		417.47	441.65	434.73															
Sep-13												434.18															
Dec-13		442.73	389.88		401.17			394.01		415.91	442.60	446.80															
Jan-14								394.46				434.18															
Mar-14			389.83									444.43															
Jun-14		446.06			400.13			394.86		417.47	441.65	434.73															
Sep-14																											
Dec-14		442.90			400.46			393.12		408.32	444.18	440.46															
Jan-15																											
Mar-15			390.18																								
Jun-15		**451.30**	389.20		407.51			397.24		417.89	445.55	443.36															

Waste Management Skyline Landfill

Monitoring Well Groundwater Elevations

(FT/MSL)

Sampling Date	MW-1	MW-1R	MW-2	MW-2R	MW-3	MW-3R	MW-4	MW-5	MW-5R	MW-6	MW-7	MW-8	MW-8R	MW-9	MW-9R	MW-10	MW-10R	MW-11	MW-11R	MW-12	MW-12R	MW-13	MW-13R	MW-14	MW-15	MW-16	MW-17	MW-17R	MW-18	MW-19
Aug-15																			417.12			419.50								
Dec-15	483.90			446.36		469.46				**411.12**				392.71		390.87			421.77			**425.45**		455.08	443.30	441.38	480.45		457.83	434.45
Jan-16																			423.31			422.47								
Jun-16	485.38			443.64		467.88				410.36				391.13		393.48			**423.56**					453.85	443.20	444.88	478.64		460.74	433.93
Jul-16																														
Aug-16										399.96																				
Sep-16													446.66						417.57				418.12							
Dec-16	483.71			443.15		466.91								389.12		392.03			415.99	408.52			417.52	451.33	441.05	441.39	475.55		459.78	435.03
Mar-17																			416.99				421.00							
Jun-17	484.75			439.39		465.83				405.74				389.21		391.48			416.66				420.73	452.16	440.62	443.29	474.72		460.47	434.35
Sep-17																							420.71							
Dec-17	490.72			445.49		465.76		400.44						389.82		390.59			414.52	403.25			419.19	449.67	439.88	441.04	473.57		458.25	434.75
Feb-18								400.52																						
Mar-18								400.58					449.98										419.44							
Jun-18	**491.16**			451.76		466.80		400.66						393.72		390.93			415.20				422.40	452.03	440.78	442.63	473.57		459.85	433.70
Aug-18								400.73															424.89							
Dec-18		480.68		450.99		470.02		400.66		398.83	412.77		449.61	402.30		390.93			420.90				425.23	455.01	443.82	444.17	477.55		463.22	435.17
Jan-19																														
Mar-19		482.09						400.83					**452.94**										423.95							
Apr-19								400.95																						
Jun-19		483.17		450.76		467.68		401.02					451.93	403.71					421.74	412.47			423.77	454.28	443.40	444.97	478.15		464.75	434.01
Jul-19								400.96																						
Sep-19		482.92						401.05					448.13			390.48														
Dec-19		482.18		450.76		466.27		**401.24**						394.03		391.18			415.00	409.69			424.40	450.58	439.80	438.07	475.29		459.34	434.40
Mar-20		483.08											451.34																	
Jun-20		483.27		451.19		468.58							450.76	396.00		392.82			418.85	409.54			426.03	454.53	441.85	442.13	476.27		462.60	433.84
Sep-20		482.26											447.14																	
Nov-20		482.13		451.04		465.85								394.62		393.59			418.55	409.33			425.19	450.63	440.20	441.06	474.45		460.78	434.98
Mar-21																														
Jun-21		483.08		451.47		**470.86**							450.54	396.23		395.18			419.45	412.47			**431.50**	**456.83**	**447.36**	**446.12**	**489.27**		**466.57**	434.39
Jul-21																														
Sep-21																														
Nov-21		483.67		451.34		466.33										375.86			419.21	410.14			426.92	452.35	440.82	442.54	475.73		462.33	435.05
Mar-22																														
Jun-22		483.27		451.48		466.20										397.55			417.54	405.03			427.20	451.53	440.39	443.69	475.37		462.13	434.10
Sep-22															391.05															
Nov-22		482.73		451.24		469.24									391.68	399.19			417.97	405.30			430.71	454.32	441.87	443.61	477.64		461.52	435.49
Jan-23																														
Mar-23															390.96															
May-23		482.69		452.48		467.88									391.29	401.95			417.90	413.45			428.00	452.65	440.90	444.92	475.97		462.88	434.83
Sep-23															391.76															
Oct-23		481.68		453.19		466.59					406.33				392.06	402.89			416.88	407.89			428.99	451.12	437.29	439.65	474.99		458.05	434.99
Nov-23		482.45		453.59		467.79																	426.52			440.34			459.22	
Dec-23		482.19		453.76		466.43									392.74	403.39			417.01	410.01			425.42	453.80	441.63	440.68	475.99		458.76	435.83
Jan-24		481.81		454.22		470.32					**426.13**				392.57	405.45				407.21			428.45	455.18	443.12	444.93	481.62		464.11	435.66
Feb-24		482.02		448.30		468.80					423.56		449.11		393.02	404.60			418.12	414.61			426.22	454.05	442.37	444.88	477.96		463.95	435.64
Mar-24		482.32		450.06		470.50					415.95		449.94		392.24	405.04			418.20	416.04			428.49	454.95	443.13	445.65	479.61		465.18	435.48
Apr-24		482.70		452.70		468.51					422.35		450.43		392.28	404.82			418.49	415.80			426.21	453.72	442.38	445.27	477.69		463.53	435.34
May-24		483.24		454.93		469.28					423.87		450.55		392.55	405.15			418.99	415.86			425.81	453.99	442.95	445.66	477.96		463.88	435.09
Jun-24		483.65		455.42		469.13					424.06		449.95		393.35	405.27			419.36	415.39			425.50	453.67	443.00	445.52	477.92		463.90	434.97
Jul-24		482.88		444.90		467.26					411.72		448.14		392.16	404.98			419.04	406.80			424.81	452.70	439.71	444.25	476.82		462.92	434.66
Aug-24		482.73		451.37		466.58					410.07				392.68	404.74			418.70	408.08			424.60	452.01	440.81	442.57	476.47		461.66	434.80
Sep-24		482.60		452.64		466.43					409.59				392.82	404.66			418.44	408.43			424.31	451.74	440.60	441.96	476.40		460.88	434.96
Oct-24		482.39		454.57		466.01									392.71	404.56			417.84	408.83			424.26	451.21	440.23	441.06	476.22		459.46	435.29
Nov-24		482.42		456.24		465.91									393.24	404.54			417.66	409.00			424.41	450.83	440.09	440.73	476.24		458.98	435.59
Dec-24		482.27		456.71		465.63									393.20	404.22			417.34	409.06			424.22	450.23	439.90	440.38	475.97		458.71	435.61
Jan-25		482.06		449.87		468.40									393.19	404.65			417.62	405.35			423.84	452.82	438.13	442.15	476.59		458.79	435.49
Feb-25		482.22		453.05		470.07					422.72		447.03		393.76	405.59			418.18	405.46			424.73	454.70	442.42	444.22	478.11		462.88	435.61
Mar-25		482.29		454.84		467.71					420.72				393.91	405.29			418.26	405.49			423.58	453.65	441.46	444.24	476.93		461.24	435.41
Apr-25		482.37		456.08		469.27					411.75				393.98	405.74			418.30	406.70			424.01	453.59	441.43	444.48	477.19		461.16	435.28
May-25		482.57		457.46		467.77					411.62				394.03	405.68			418.70	409.97			423.99	453.09	442.45	444.54	476.94		462.35	434.93
Jun-25		482.82		**457.94**		470.53					409.94				**394.34**	405.94			419.15	410.86			424.00	454.47	442.74	445.50	478.38		462.78	434.87
Jul-25		483.82		448.77		467.18									393.64	405.49			418.91	401.91			423.87	452.55	441.01	443.95	476.21		461.71	434.45
Aug-25		484.82		453.76		466.56									393.87	404.96			418.80	401.24			423.76	452.01	440.81	442.81	475.99		461.18	434.55
Sep-25		485.82		455.52		466.26									394.06		394.39		418.56	406.13			424.09	451.61	440.57	441.58	475.85		460.46	434.67
Oct-25		**486.82**		456.72		466.03									394.10		393.69		417.97	406.20			423.86	451.17	440.34	440.31	475.79		459.27	434.86

Waste Management Skyline Landfill

Monitoring Well Groundwater Elevations

(FT/MSL)

Sampling Date	MW-20	MW-20R	MW-21	MW-21R	MW-22	MW-22R	MW-22R2	MW-23	MW-23R	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-29R	MW-30	MW-30R	MW-31	MW-32	MW-33	MW-34	P-BME-01	P-BME-05	P-BME-12	P-BME-16	P-BME-19
Aug-15													451.21														
Dec-15		449.50						394.81		417.78	448.12	445.33	458.59		**419.77**					447.70							
Jan-16											447.16		458.49		418.84					446.26							
Jun-16		446.53						398.32		416.87	447.59	445.54	458.99							446.96	437.72						
Jul-16																											
Aug-16																											
Sep-16				403.70									454.34	437.42						439.29	436.89						
Dec-16		439.68						393.13		407.82	448.51	437.33	456.59					427.27	433.00	439.44	435.93						
Mar-17													458.86	435.58				428.65		445.66	435.70						
Jun-17		439.37						393.95		414.44	448.68	440.25	458.37					426.21		445.05	436.44						
Sep-17				405.77														428.02	431.36	441.88	437.48						
Dec-17		437.11						391.56		407.37	449.46	436.83	459.11	438.83				425.85		439.76	437.45						
Feb-18																											
Mar-18																		432.67	429.18	446.66	437.50						
Jun-18		437.17						394.23		413.17	449.00	432.75	458.34					428.80		443.75	436.70						
Aug-18																		427.47	433.36	441.44	436.87						
Dec-18		436.74				**413.95**		397.50		418.87	450.43	442.24	459.76					450.52	434.09	447.81	437.95	416.16					
Jan-19								398.46																			
Mar-19																		438.11	433.63		439.39	416.51					
Apr-19																											
Jun-19		436.13						399.81		418.12	450.76	438.05	460.45	436.49		**433.32**		437.52	433.01	446.71	438.23	417.17					
Jul-19																											
Sep-19																		437.06	432.97		**440.25**	416.88					
Dec-19		436.19						395.36		406.86	450.26	436.92	458.64					430.78	432.33	442.93		416.92					
Mar-20																			432.72		436.82	417.98					
Jun-20		436.75						400.45		416.79	451.08	445.76	460.41			419.13		453.98	432.14	444.73		417.61					
Sep-20														436.84					432.79		437.42	418.18					
Nov-20		435.81						398.81		411.68	450.42	438.24	459.48					449.18		444.44	437.03	417.98					
Mar-21														436.36					**434.35**		437.53						
Jun-21		435.88						402.63		418.87	453.91	**447.56**	462.38					456.62	432.13	**448.63**	437.24	419.77					
Jul-21																											
Sep-21																			432.89		438.98						
Nov-21		435.71						400.39		412.97	451.11	443.90	461.05	437.23				451.22	432.09	445.80	437.58	419.79					
Mar-22				391.43										436.99					431.96		438.40						
Jun-22		436.13						400.55		414.32	450.26	435.01	461.43	436.29				446.36	432.50	445.40	437.58	419.19					
Sep-22																			432.44		437.75						
Nov-22		434.93						402.42		416.62	452.09	441.12	461.38					456.67	431.98	447.54	437.09	420.54					
Jan-23								401.75																			
Mar-23																			431.88		437.28						
May-23		435.49						404.02		415.46	451.13	436.07	462.17					447.19	432.33	446.67	437.76	420.54					
Sep-23																			432.80		439.54						
Oct-23		434.75		403.50				401.45		409.48	450.42	433.16	461.09	436.63		420.54		441.78	431.34	443.95	436.19	421.50					457.02
Nov-23				404.56				402.11		409.31	451.32	445.56		438.42		421.02		454.93	431.62	445.91	436.96	422.90					463.77
Dec-23		435.07		404.06				401.84		412.12	451.02	445.18	461.78	437.53				454.87	431.73	447.45	437.31	421.69					469.26
Jan-24		433.89								417.90	452.46	438.04	463.12	435.70				**457.37**	431.58	447.89	436.11	421.76					477.14
Feb-24		434.23						405.52		416.83	452.43	440.45	463.76	436.11				430.90	432.15	446.74	436.79	421.92					479.63
Mar-24		434.49		405.55				405.56		417.88	452.35	440.85	463.75	434.75				431.21	431.14	447.69		421.96			445.88	445.66	481.63
Apr-24		434.78						405.66		416.99	452.65	441.36	463.98	435.21				430.22	431.64	446.95	436.48	422.20			446.48	446.01	483.52
May-24		435.09						405.86		418.84	453.63	441.64	**464.26**	435.92				430.11	432.37	447.15	437.54	422.66			446.55	446.43	485.30
Jun-24		435.35						405.65		416.34	454.11	442.57	464.19					430.04	433.17	446.85	439.33	422.90			447.74	446.78	486.43
Jul-24		433.60						404.48		414.29	450.08	433.53	463.45					429.95	431.54	439.90	436.23	422.85			448.18	447.01	486.97
Aug-24		433.88						403.50		412.42	450.13	433.61	462.69	437.27				429.93	432.27	442.12	437.55	422.96			448.82	447.38	487.48
Sep-24		434.01						403.18		411.53	450.27	433.66	462.40	437.99				429.94	432.59	443.04	438.34	422.94			449.09	447.51	487.59
Oct-24		434.18						403.05		410.30	450.35	433.78	462.09	438.58				430.03	431.37	443.46	436.38	423.13			449.44	447.70	487.67
Nov-24		434.28						403.02		409.80	450.48	435.06	462.02	440.11				430.05	431.58	443.43	436.76	423.35			449.65	447.82	487.72
Dec-24		434.37						402.70		409.14	450.37	435.37	461.93	437.18				429.93	431.68	443.26	437.06	423.17			449.70	447.89	487.76
Jan-25		434.66						403.87		414.19	451.44	437.60	462.31	436.42				429.58		446.22		422.98			449.76	447.98	488.08
Feb-25		434.88		406.13	400.32			405.18		416.52	452.89	441.80	462.93	436.01				429.96		447.17	436.06	423.00			450.90	448.47	488.36
Mar-25		435.14						405.46		415.87	452.33	441.80	463.56	436.83				429.68	431.81	446.59	436.43	422.92			451.07	448.56	488.72
Apr-25		435.39						405.93		415.95	452.42	442.03	463.91	434.89				429.76		446.56		423.01			451.24	448.66	489.03
May-25		435.67						405.57		415.24	453.19	443.75	463.91	436.71				429.61	432.16	446.20	436.46	423.28			451.44	448.76	489.35
Jun-25		435.78			396.82			**406.31**		416.57	**454.23**	444.34	464.07	437.61		423.19		429.72	432.64	447.36	436.96	423.64			451.50	448.79	489.49
Jul-25		434.14						404.87		413.92	450.55	433.18	463.51	436.62				429.72	431.69	440.64	435.92	**424.07**			451.60	448.83	**489.55**
Aug-25		434.32						404.27		412.38	450.59	432.24	463.02	438.11		424.88		429.85	432.19	441.90	436.65	420.73			**451.62**	448.87	489.45
Sep-25		434.44							395.68	411.42	450.66	433.31	462.77	**440.14**				429.97	432.60	441.87	437.30	420.77			451.60	**448.89**	489.31
Oct-25		434.57		**410.25**					395.10	410.34	450.71	433.40	462.48	436.93		425.04		430.13	431.34	442.55	435.93	420.34			451.55	448.88	486.85

Waste Management Skyline Landfill
Historical Piezometer Groundwater Elevations
June 1987 through June 1993

	P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20	P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30	P-31	P-32	P-33	P-34	P-35	P-36
6/1/1987	DRY	DRY	DRY	429.00	NR	454.40	**	**																												
7/1/1987	DRY	DRY	418.50	428.50	445.40	457.90	406.20	442.10																												
10/1/1987	DRY	DRY	419.30	425.30	445.40	458.10	406.20	432.70	423.00	458.80	424.30																									
11/1/1987*	DRY	DRY	419.80	423.90	444.00	457.70	408.50	436.60	433.60	458.80	427.30																									
3/1/1988*	446.00	DRY	426.50	429.00	457.90	461.20	436.90[1]	438.80	441.10	461.10	427.90																									
5/1/1988*	430.70	DRY	428.40	427.60	459.20	459.80	PLUG	437.40	440.40	459.40	426.60																									
11/7/1990	430.00	DRY	422.70	424.20	443.00	453.90	PLUG	436.80	426.60	453.70	417.80																									
11/15/1990	426.20	DRY	417.00	424.80	445.50	454.30	PLUG	437.60	428.60	454.80	423.90	DRY	DRY	478.20	DRY	DRY	466.50	DRY	DRY	DRY	DRY	DRY	DRY	•	•	•	•	•	•	•	•	•	•	•	•	•
12/18/1990	428.20	DRY	418.50	425.10	450.40	458.00	PLUG	438.70	439.40	457.70	424.10	DRY	DRY	491.10	DRY	448.00	477.50	465.20	456.20[1]	403.20	DRY	389.10	296.10	•	•	•	•	•	•	•	•	•	•	•	•	•
1/9/1991	428.60	DRY	435.40	426.60	451.30	458.50	PLUG	439.80	441.20	458.30	425.60	DRY	406.00	492.00	483.50	454.90	477.30	470.70	366.30	404.90	DRY	396.00	296.30	•	•	•	•	•	•	•	•	•	•	•	•	•
4/16/1991	428.34	DRY	432.57	430.08	457.25	458.99	PLUG	443.10	445.31	458.76	428.97	DRY	407.15	491.55	485.44	471.40	479.10	477.36	392.15	409.95	DRY	409.08	303.57	•	•	•	•	•	•	•	•	•	•	•	•	•
4/24/1991	428.31	DRY	432.33	430.13	457.51	459.01	PLUG	443.12	442.34	458.79	429.03	DRY	407.22	491.49	485.58	471.29	479.39	477.55	393.21	410.25	DRY	409.55	304.38	•	•	•	•	•	•	•	•	•	•	•	•	•
5/1/1991	428.28	DRY	431.78	429.39	457.67	458.95	PLUG	443.15	442.35	458.70	429.33	DRY	407.31	491.41	485.68	473.07	479.38	477.72	393.21	410.46	DRY	409.93	305.02	•	•	•	•	•	•	•	•	•	•	•	•	•
5/7/1991	428.25	DRY	431.59	429.29	457.70	458.92	PLUG	443.16	442.39	458.69	428.24	DRY	407.36	491.38	485.79	473.72	479.40	477.82	394.97	410.67	DRY	410.26	305.77	•	•	•	•	•	•	•	•	•	•	•	•	•
5/13/1991	428.24	DRY	431.37	430.25	457.83	459.15	PLUG	443.14	442.43	458.99	429.19	DRY	407.43	491.38	485.89	474.34	479.61	477.94	395.68	410.89	DRY	410.58	306.45	#	#	#	#	#	#	#	#	#	#	#	#	#
5/24/1991	428.46	DRY	431.29	429.41	457.92	459.13	PLUG	443.57	442.62	458.96	428.37	DRY	407.54	491.31	486.03	475.35	479.62	478.16	396.83	411.16	DRY	411.03	307.55	400.23	411.86	452.30	DRY	DRY	420.38	448.79	445.38	458.96	431.13	481.76	428.01	486.81
5/30/1991	428.13	DRY	431.30	429.80	457.99	459.25	PLUG	443.60	442.71	459.12	428.73	DRY	407.60	491.30	486.14	475.91	479.65	478.23	397.43	411.36	DRY	411.33	308.25	400.40	413.28	452.26	DRY	DRY	420.13	448.60	447.72	459.21	434.89	481.70	431.28	486.98
6/12/1991	428.10	DRY	430.86	429.47	458.08	459.27	PLUG	443.55	442.80	459.09	428.43	DRY	407.75	491.25	486.34	475.84	479.67	478.07	397.26	411.01	DRY	411.80	309.61	400.41	416.06	452.54	DRY	DRY	420.39	448.07	450.24	459.35	442.55	481.44	437.86	487.06
8/23/1991	427.80	DRY	428.75	427.46	457.80	458.75	PLUG	443.77	442.90	458.50	427.48	429.37	408.42	491.14	497.35	481.49	478.70	478.70	402.89	412.97	413.31	413.14	316.80	399.56	428.18	451.74	383.02	DRY	429.27	447.62	453.21	458.52	466.13	480.39	486.39	486.47
11/5/1991	427.62	DRY	429.53	427.59	457.84	458.99	PLUG	441.23	443.27	458.79	428.53	430.43	409.13	491.95	489.26	484.70	478.40	478.57	405.27	413.06	413.65	414.05	323.72	399.32	439.91	456.18	385.17	DRY	443.39	451.93	453.55	459.20	474.46	480.35	478.77	487.54
6/17/1992	427.10	DRY	435.60	432.50	460.80	461.00	PLUG	442.40	441.70	460.80	431.40	431.20	414.90	494.10	492.10	489.90	481.60	479.90	411.30	415.80	418.80	416.40	342.10	401.78	452.93	456.54	404.80	413.01	450.37	450.25	456.98	467.60	482.63	483.57	485.53	487.34
2/12/1993	426.60	DRY	437.45	433.39	459.42	460.18	PLUG	442.60	443.89	460.14	432.34	432.01	419.50	495.82	494.15	491.58	482.72	481.03	412.68	417.20	417.76	417.03	357.40	402.53	454.58	457.58	406.12	424.90	453.25	452.56	458.11	458.39	484.08	484.17	486.45	488.02
4/13/1993	426.50	DRY	436.80	434.47	460.15	460.39	PLUG	444.40	443.84	460.83	433.35	431.63	420.52	496.56	494.87	491.86	482.79	481.58	413.02	417.01	417.76	417.18	360.66	402.53	454.91	456.31	407.75	426.45	451.65	451.48	457.49	457.76	484.08	484.36	487.83	489.43
6/23/1993	426.35	DRY	433.81	432.45	460.41	460.98	PLUG	444.23	443.58	460.90	431.40	431.72	421.58	496.26	495.18	492.03	481.74	482.16	413.23	416.95	417.86	417.27	364.25	399.97	453.99	454.69	407.10	420.12	448.87	448.43	458.59	457.15	482.83	482.66	485.73	490.52

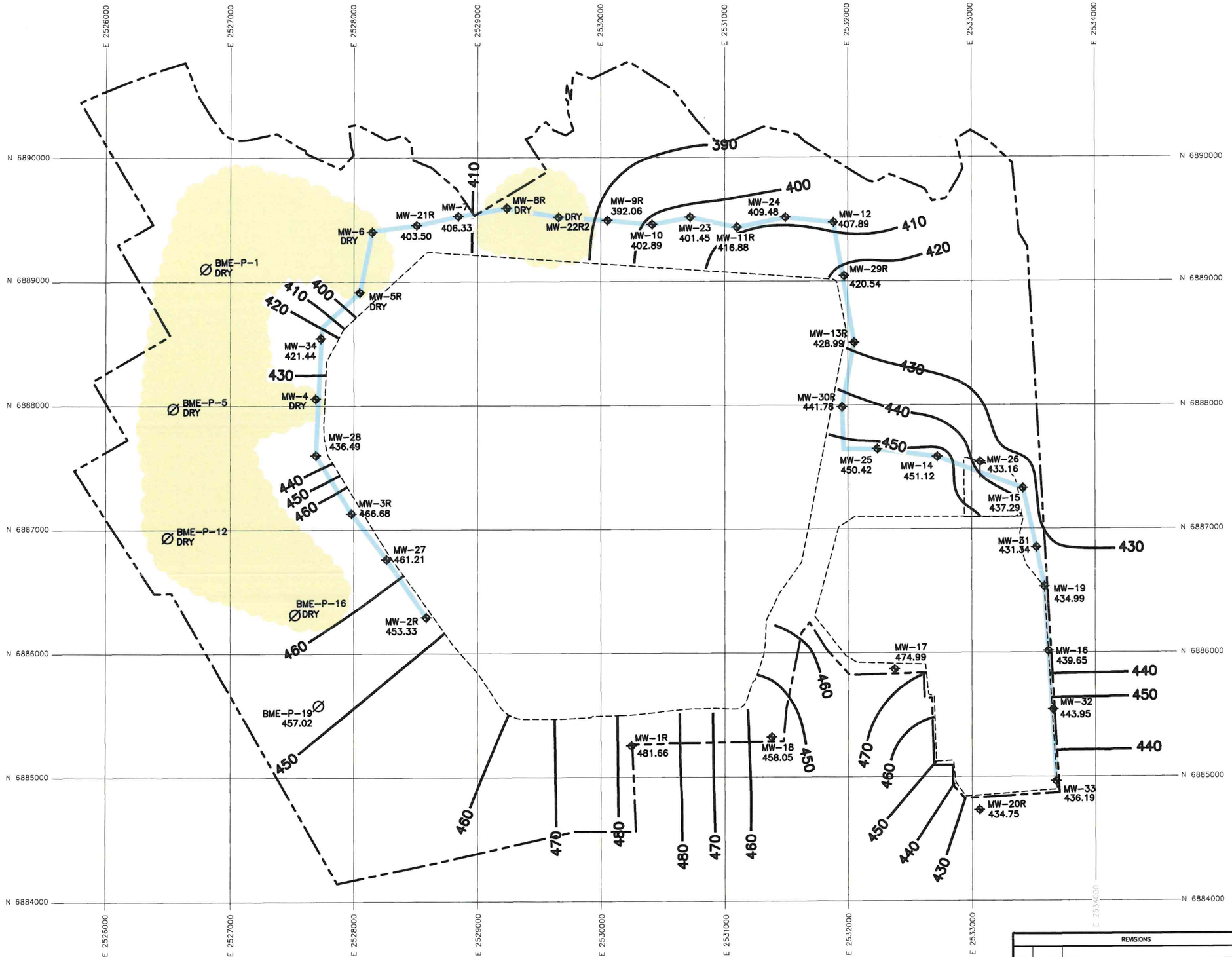
1995 Permit, includes notes from source
NR - No Record
* - Observed by WMNA personnel
** - Installation was performed on this date
[1] - Data points are errors and not valid
- Piezometers evacuated usings air on this date
ezometeres being installed during 1991 study

Waste Management Skyline Landfill
Existing Piezometer Groundwater Elevations

	BME-P-01	BME-P-05	BME-P-12	BME-P-16	BME-P-19
10/5/2023	DRY	DRY	DRY	DRY	457.02
11/29/2023	DRY	DRY	DRY	DRY	463.77
12/1/2023	DRY	DRY	DRY	DRY	469.26
1/31/2024	DRY	DRY	DRY	DRY	477.14
2/26/2024	DRY	DRY	DRY	DRY	479.63
3/20/2024	DRY	DRY	445.88	445.66	481.63
4/17/2024	DRY	DRY	446.48	446.01	483.52
5/23/2024	DRY	DRY	446.55	446.43	485.30
6/24/2024	DRY	DRY	447.74	446.78	486.43
7/19/2024	DRY	DRY	448.18	447.01	486.97
8/29/2024	DRY	DRY	448.82	447.38	487.48
9/19/2024	DRY	DRY	449.09	447.51	487.59
10/24/2024	DRY	DRY	449.44	447.70	487.67
11/15/2024	DRY	DRY	449.65	447.82	487.72
12/6/2024	DRY	DRY	449.70	447.89	487.76
1/23/2025	DRY	DRY	449.76	447.98	488.08
2/17/2025	DRY	DRY	450.90	448.47	488.36
3/20/2025	DRY	DRY	451.07	448.56	488.72
4/16/2025	DRY	DRY	451.24	488.66	489.03
5/30/2025	DRY	DRY	451.44	448.76	489.35
6/19/2025	DRY	DRY	451.50	448.79	489.49
7/28/2025	DRY	DRY	451.60	448.83	489.55
8/25/2025	DRY	DRY	451.62	448.87	489.45
9/19/2025	DRY	DRY	451.60	448.89	489.31
10/19/2025	DRY	DRY	451.55	448.88	486.85

Waste Management Skyline Landfill
Groundwater Observations During Drilling

Boring No.	Install Date	Total Depth (ft)	Surface Elevation (msl)	Water Level During Drilling Depth to Water (ft)	Stabilized Depth to Water (ft)	Groundwater Elevation (msl)
Previous Borings CB-1 through CB-56						
CB-19	5/23/1987	60	414.00	22.00	7.00	407.00
CB-26	5/12/1987	50	444.50	13.00	7.80	436.70
CB-28	4/17/1991	35	423.80		11.10	412.70
CB-34	4/24/1991	80	473.30		16.90	456.40
CB-36	4/23/1991	45	437.70		18.20	419.50
CB-44	4/29/1991	105	501.00		36.00	465.00
CB-47	4/27/1991	60	464.30		6.90	457.40
CB-48	4/20/1991	80	492.30		9.40	482.90
CB-50	5/1/1991	65	482.30		3.90	478.40
CB-51	4/30/1991	75	492.00		3.30	488.80
CB-52	5/1/1991	65	475.30		2.20	473.10
Southwestern Labs Borings - 1983						
B-1	8/12/1983	40	478.00		35.00	443.00
B-2	8/12/1983	40	472.00		32.00	440.00
B-3	8/12/1983	40	488.00		39.50	448.50
B-4	8/12/1983	35	470.00		32.00	438.00
B-6	8/12/1983	45	502.00		14.00	488.00
B-9	8/12/1983	15	434.00		8.00	426.00
B-11	8/12/1983	40	402.00		4.00	398.00



LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE OCTOBER 2023

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

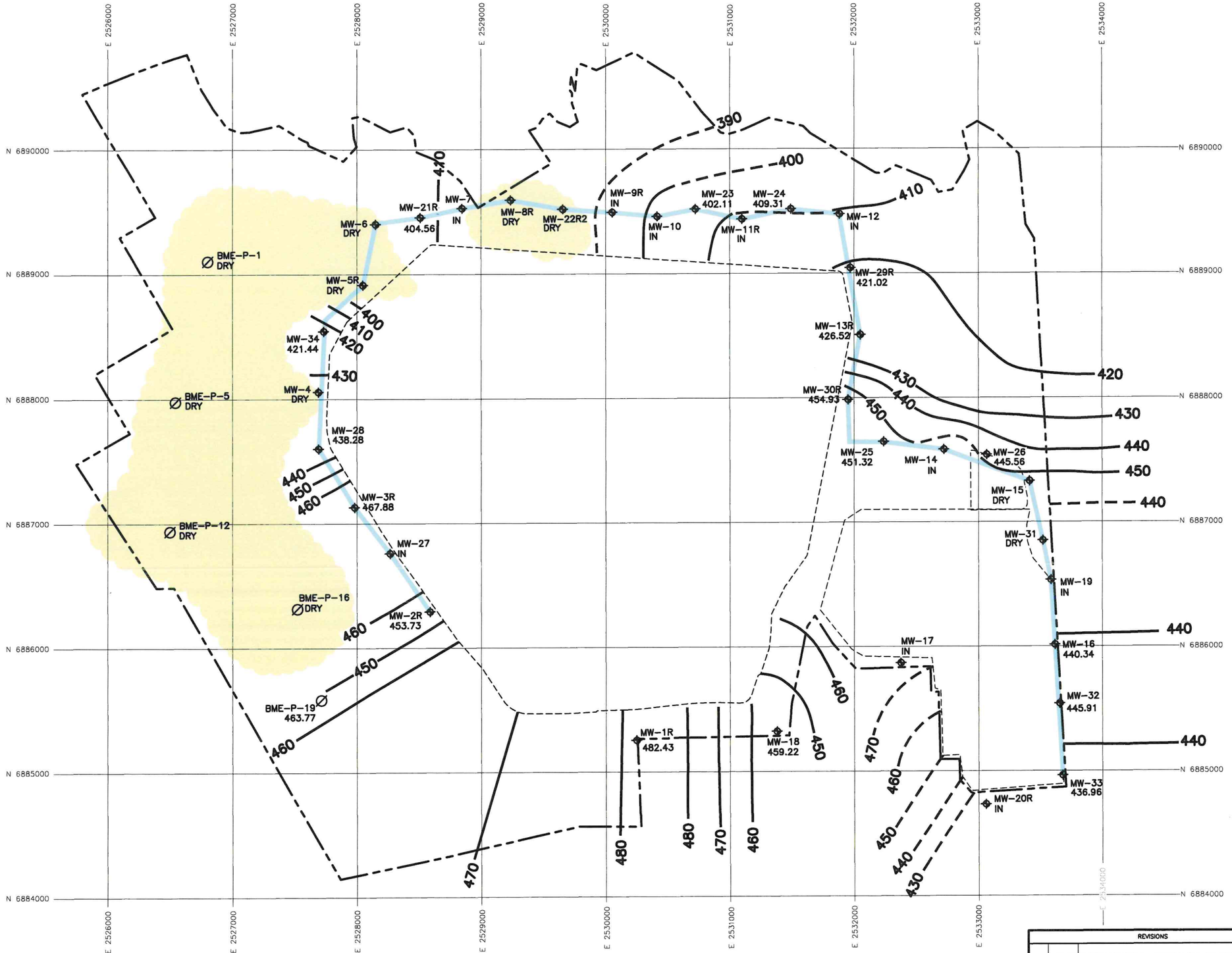
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5A

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5A_10-2023_Potent.dwg Layout: POTEN SURFACE User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER
- IN INACCESSIBLE

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE NOVEMBER 2023

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

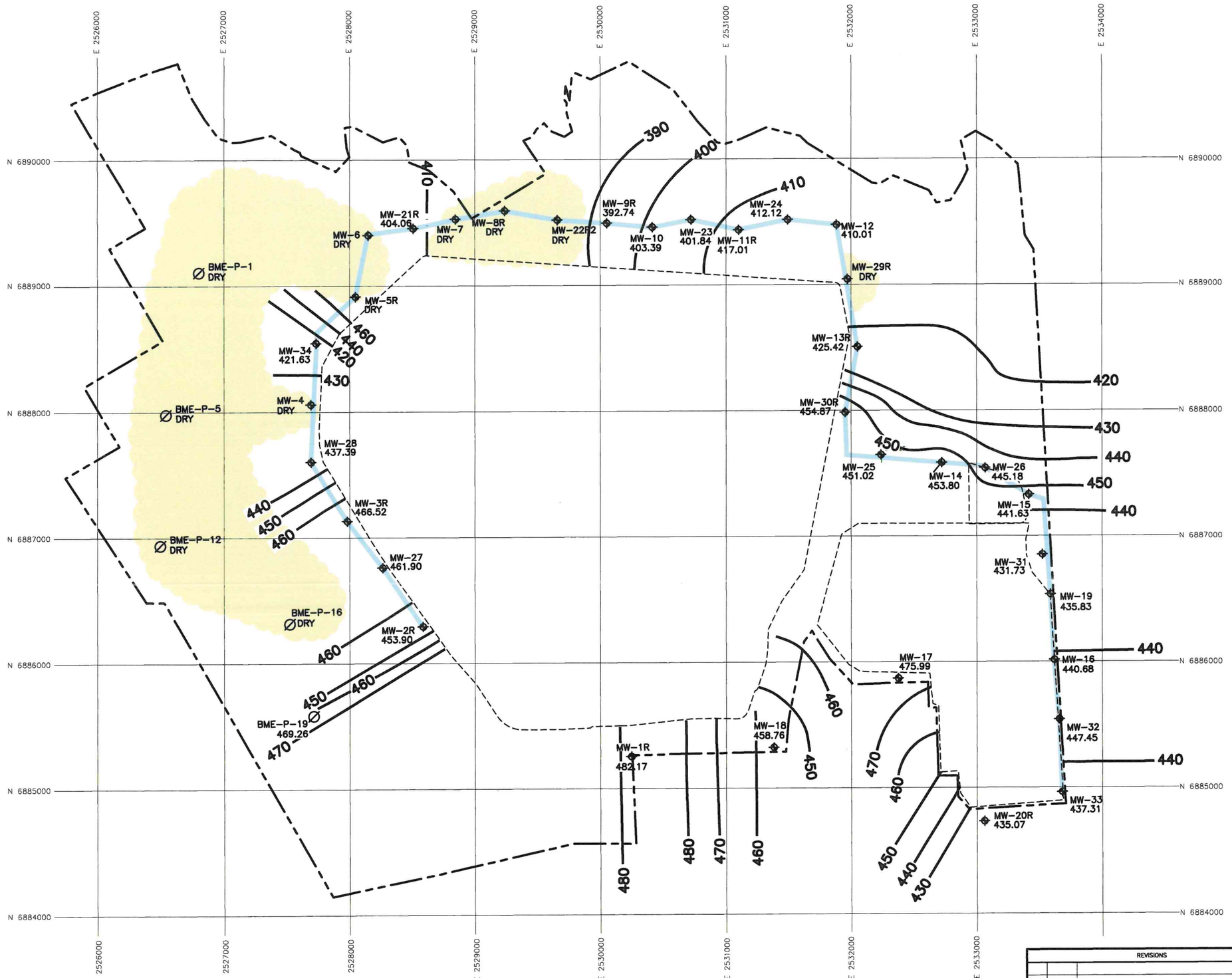
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5B

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5B_11-2023_Potent.dwg Layout: LAYOUT 1 User: awhite



LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE DECEMBER 2023

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

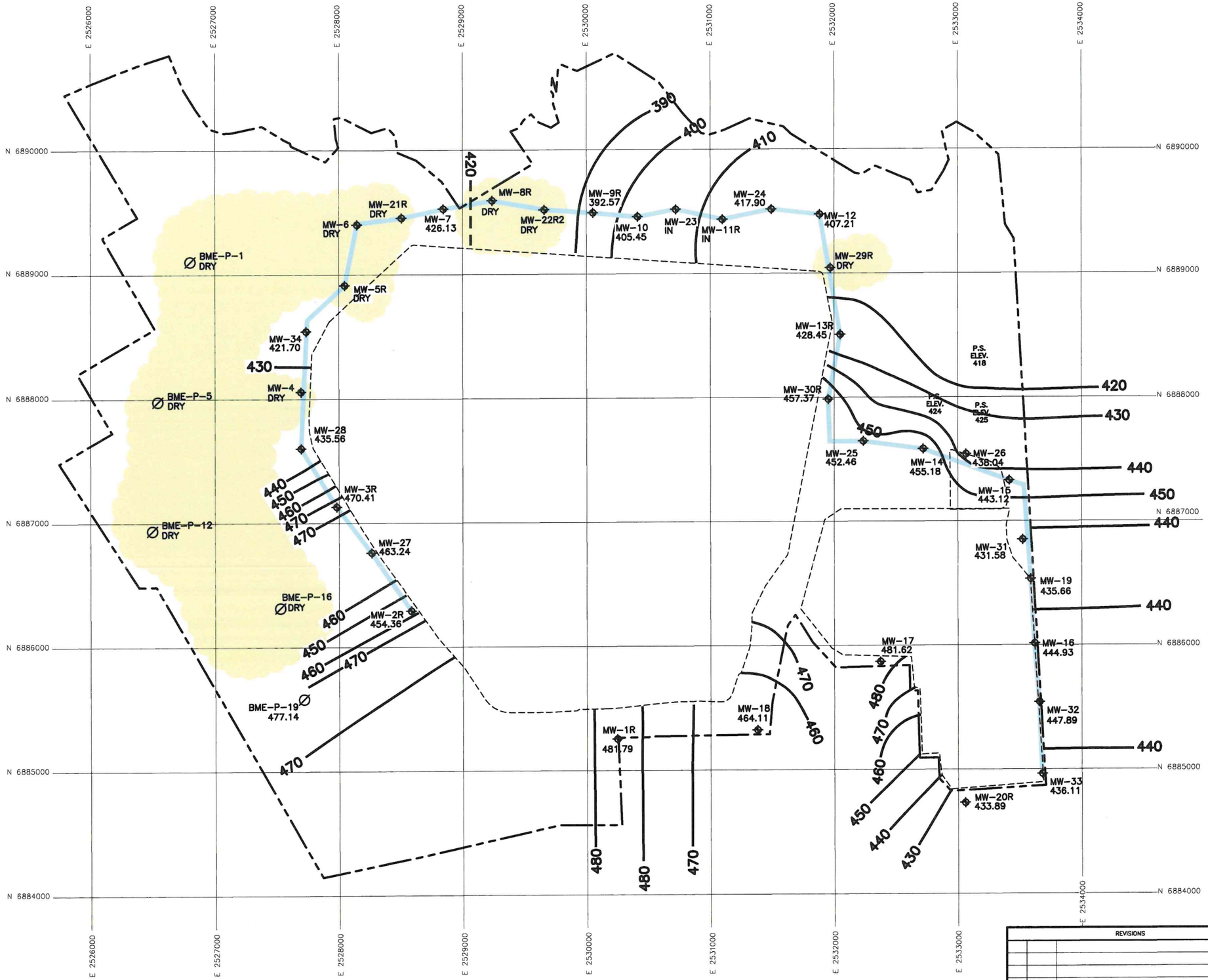
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5C

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5C_12-2023_Potent.dwg Layout: LAYOUT 1 User: awhite



NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE JANUARY 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	OWN BY

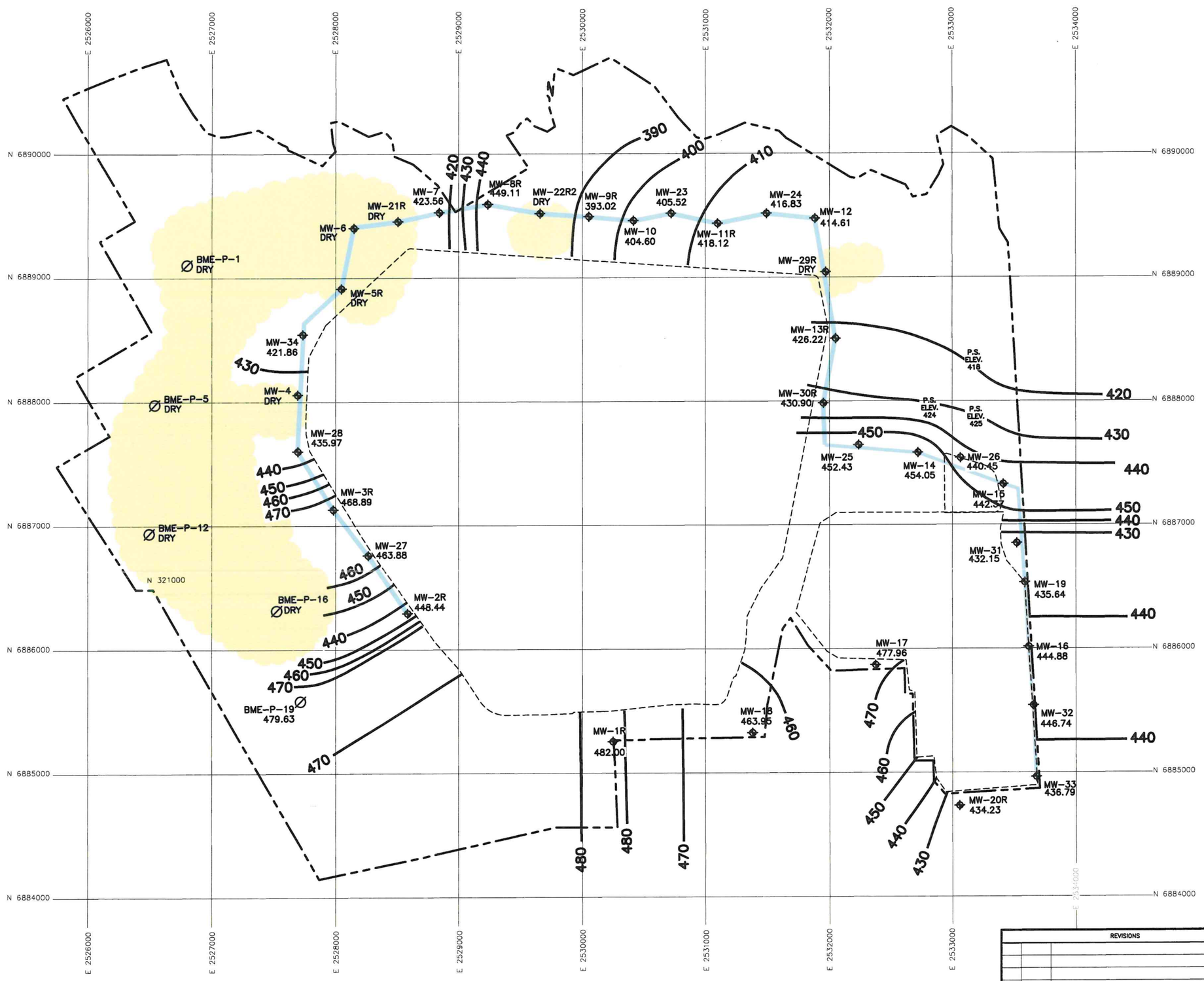
BME

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPE FIRM NO. F-256
TBPG FIRM NO. 50222

DRAWING
E5.5D

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5D_01-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE FEBRUARY 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

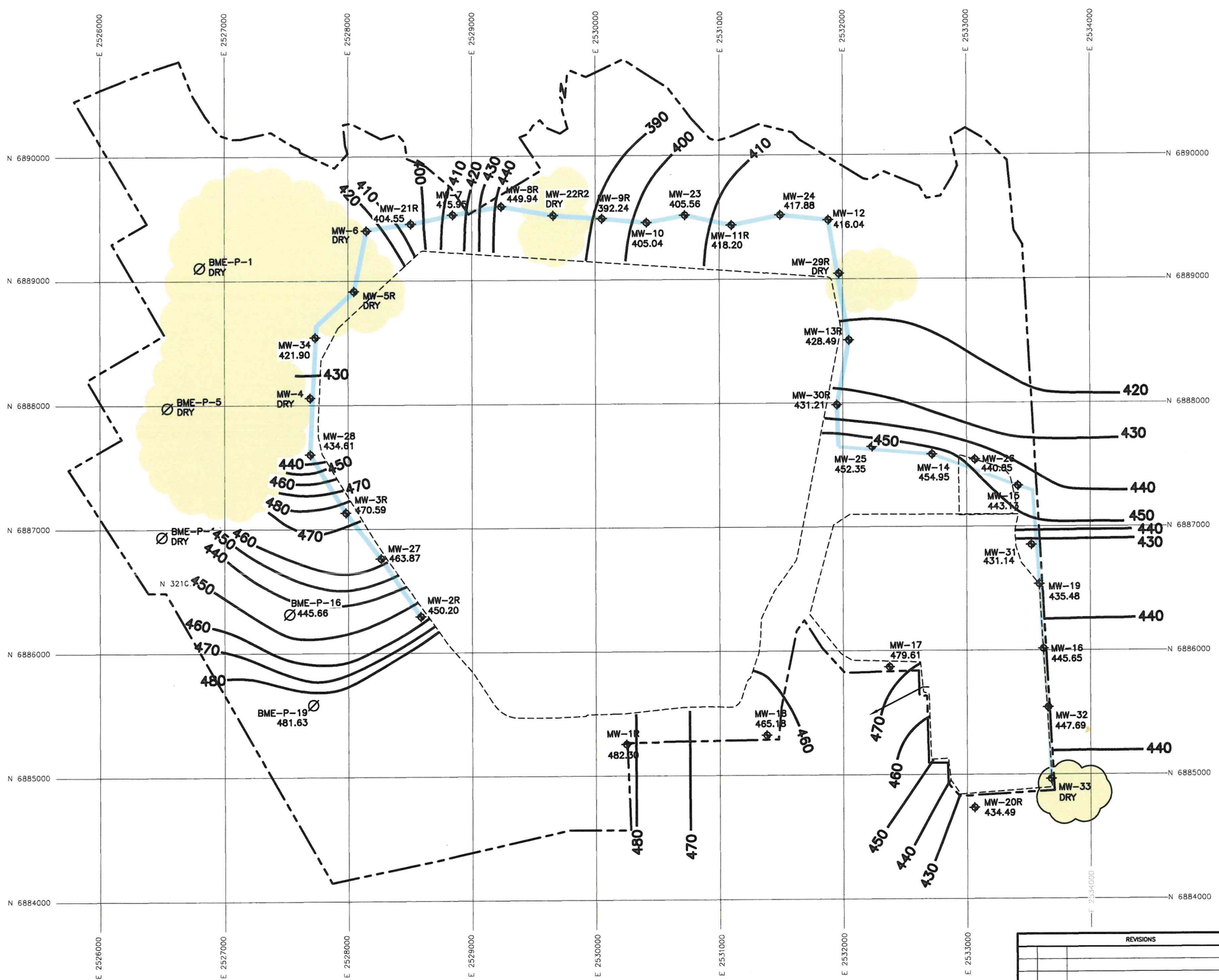
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5E

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5E_02-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE MARCH 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

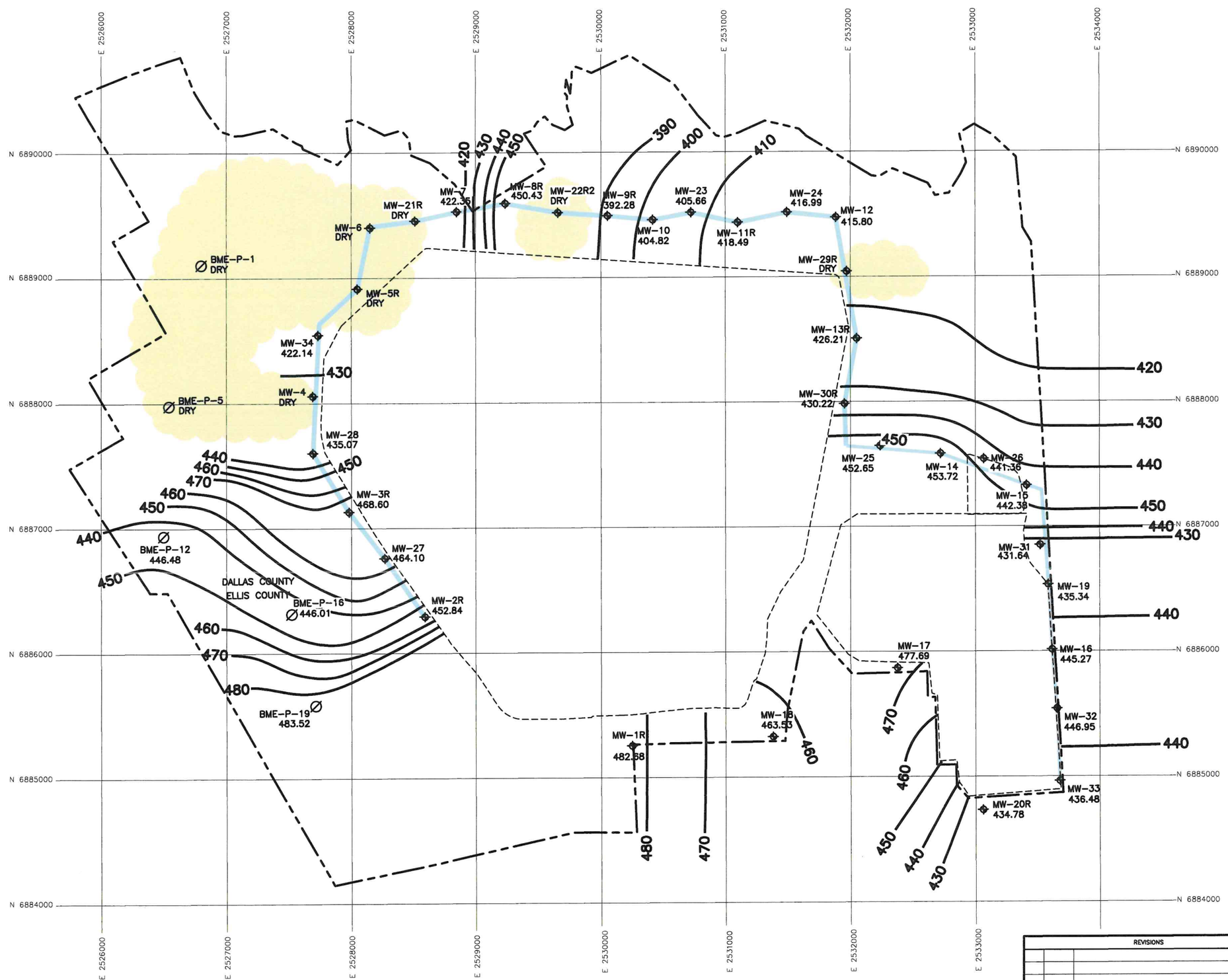
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5F

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5F_03-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE APRIL 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

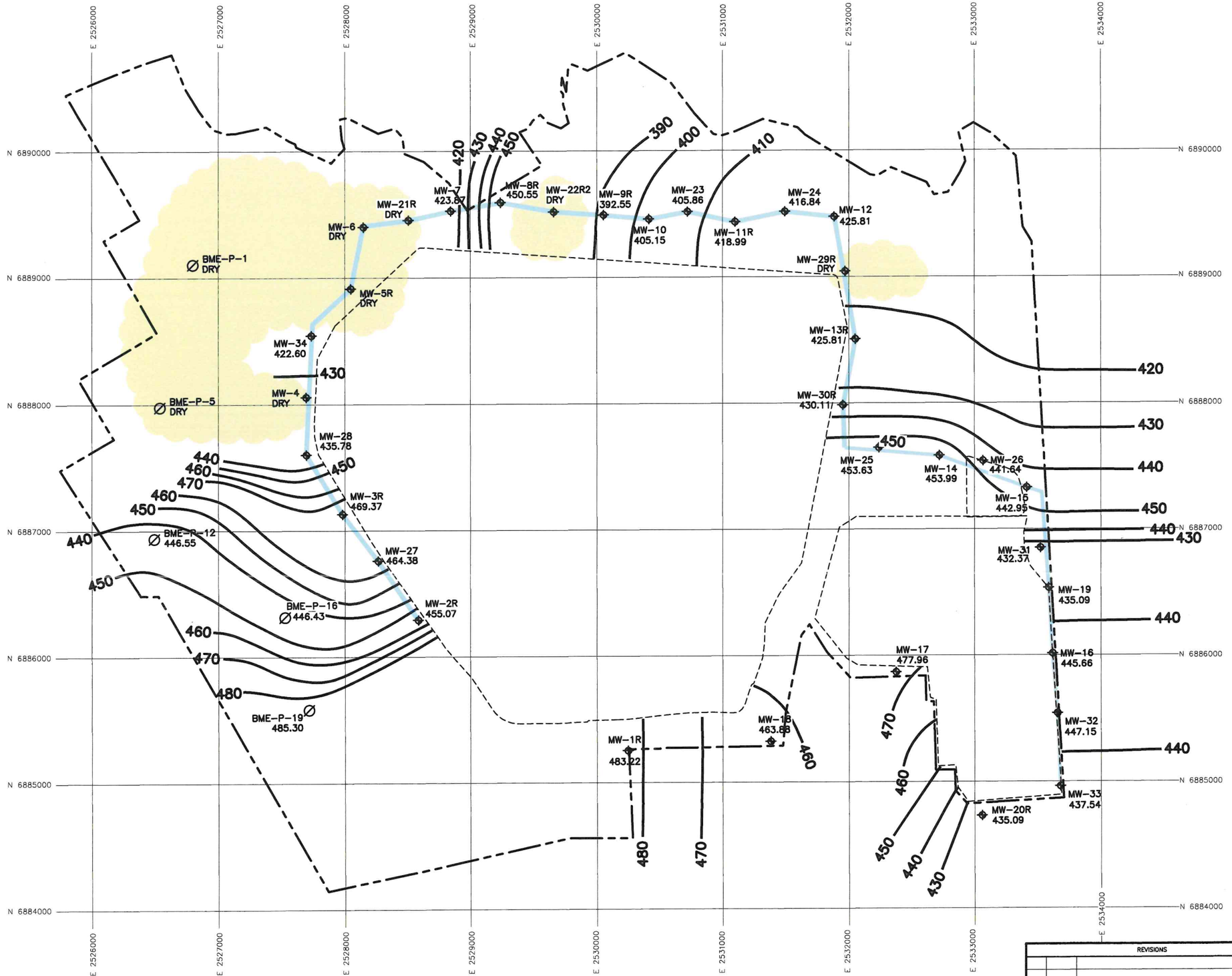
BME

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5G

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5G_04-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LIMIT OF WASTE
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 ∅ EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE MAY 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

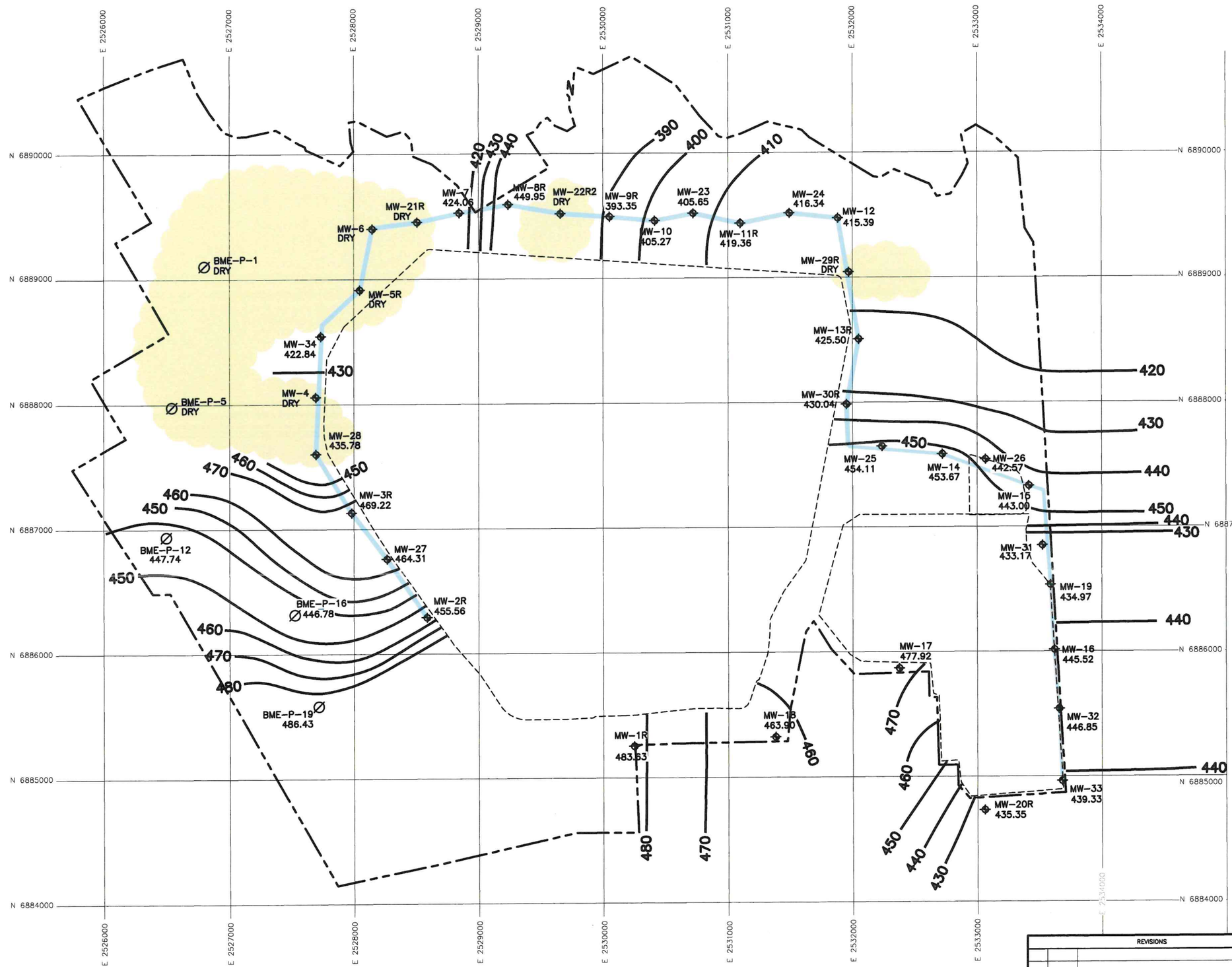
BME

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5H

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5H_05-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE JUNE 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

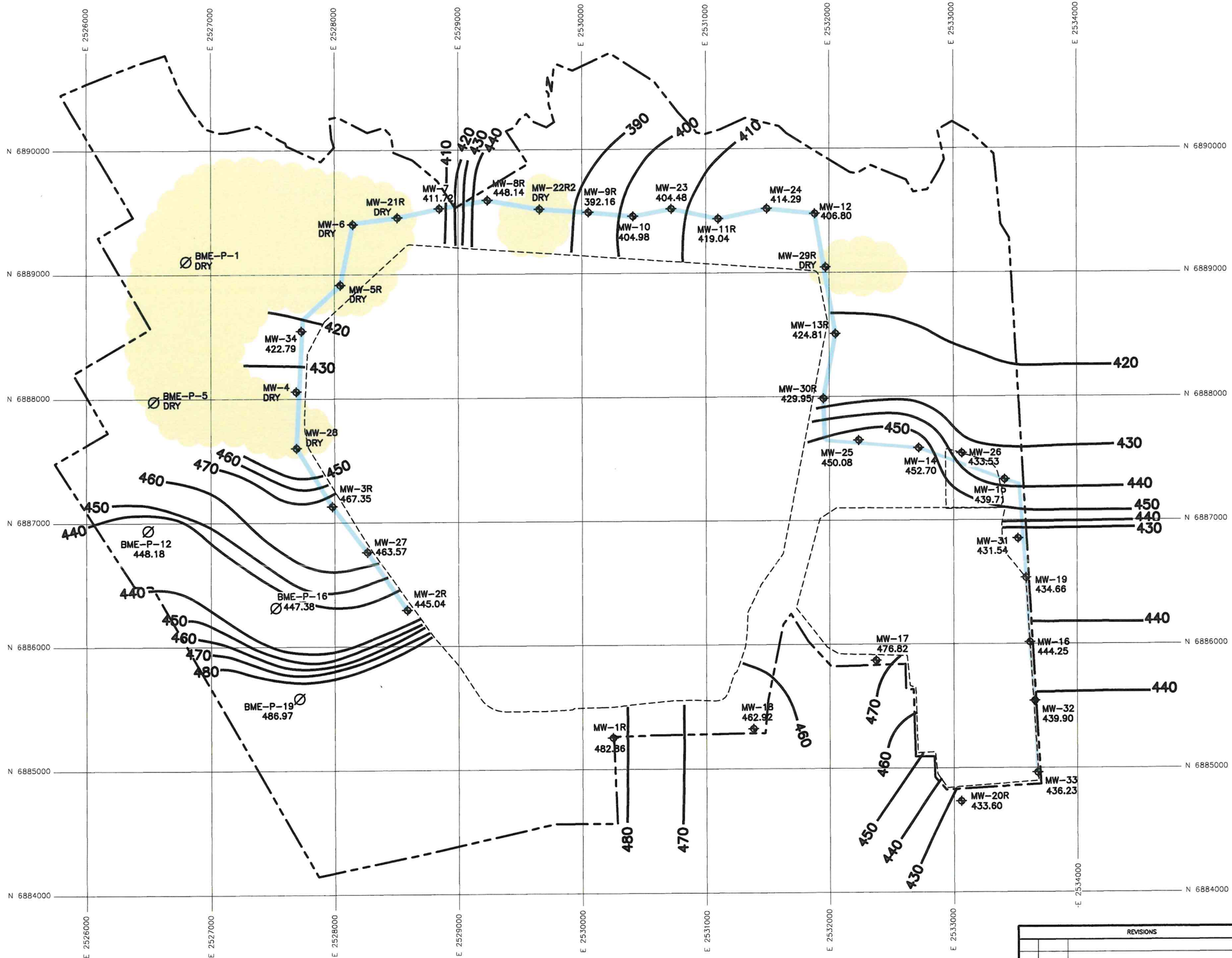
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5I

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5I_06-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

POTENTIOMETRIC SURFACE JULY 2024

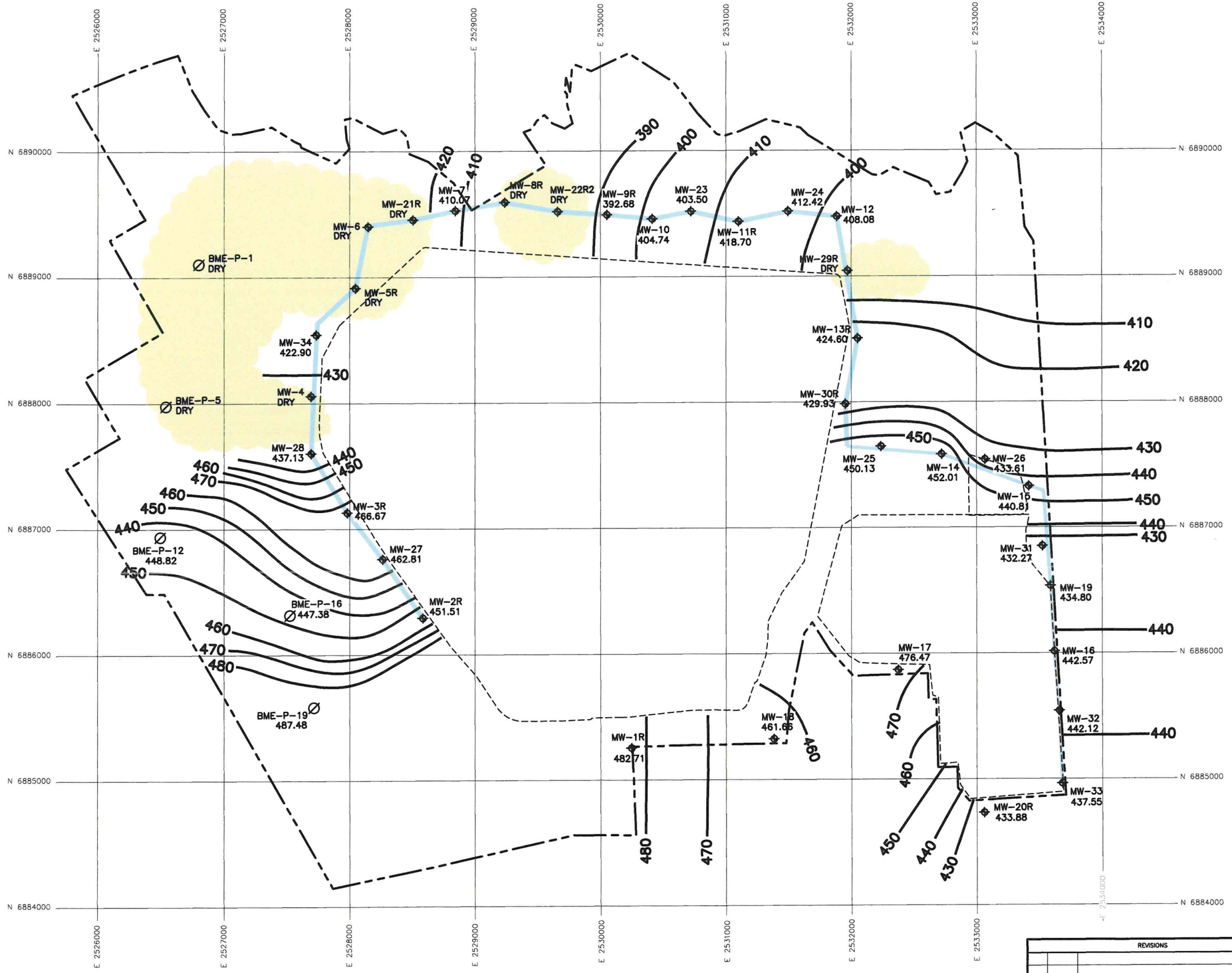
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5J

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5J_07-2024_Potent.dwg Layout: LAYOUT 1 User: owhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE
AUGUST 2024

WASTE MANAGEMENT OF TEXAS, INC.
SKYLINE LANDFILL

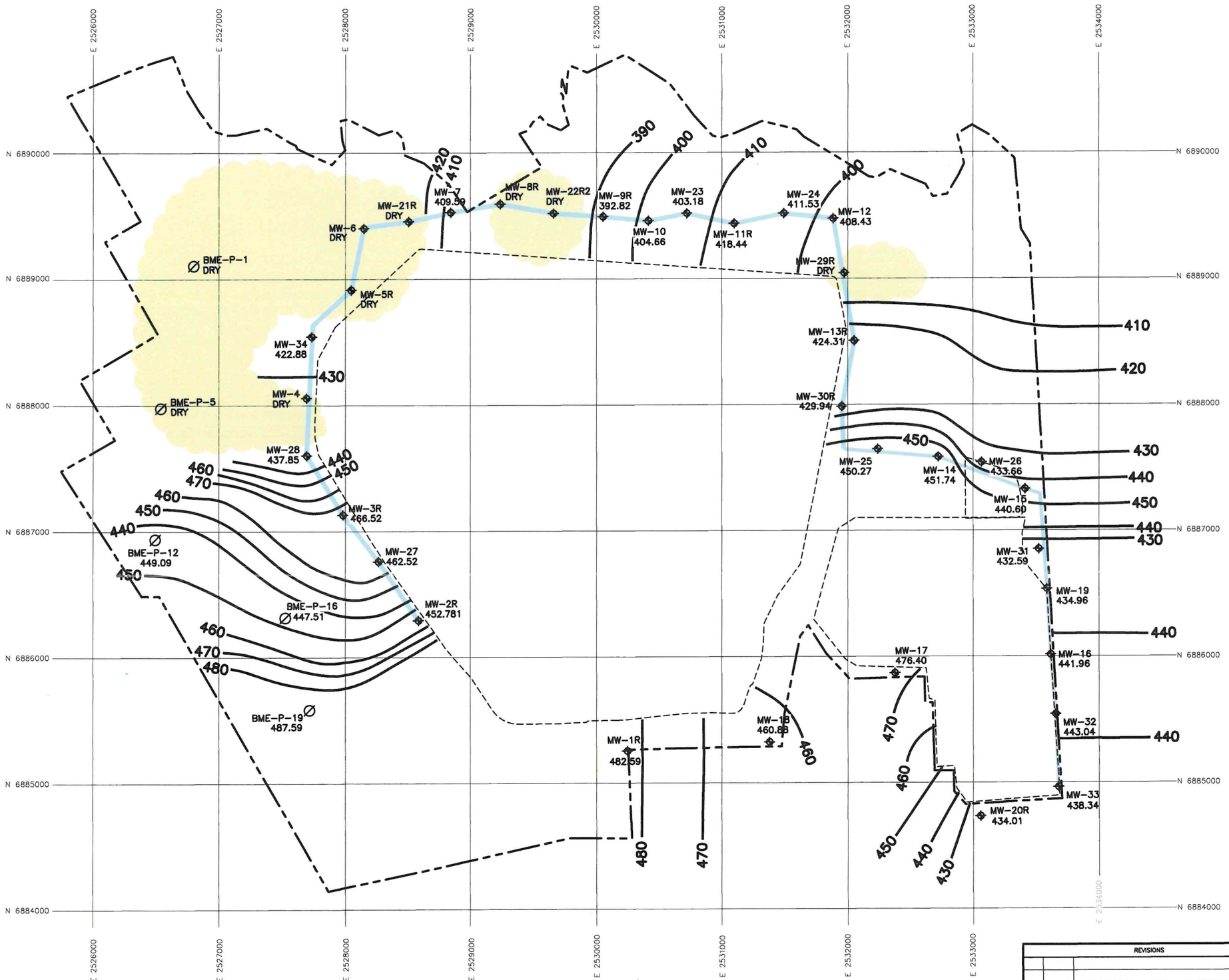
BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5K

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5K_08-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE SEPTEMBER 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

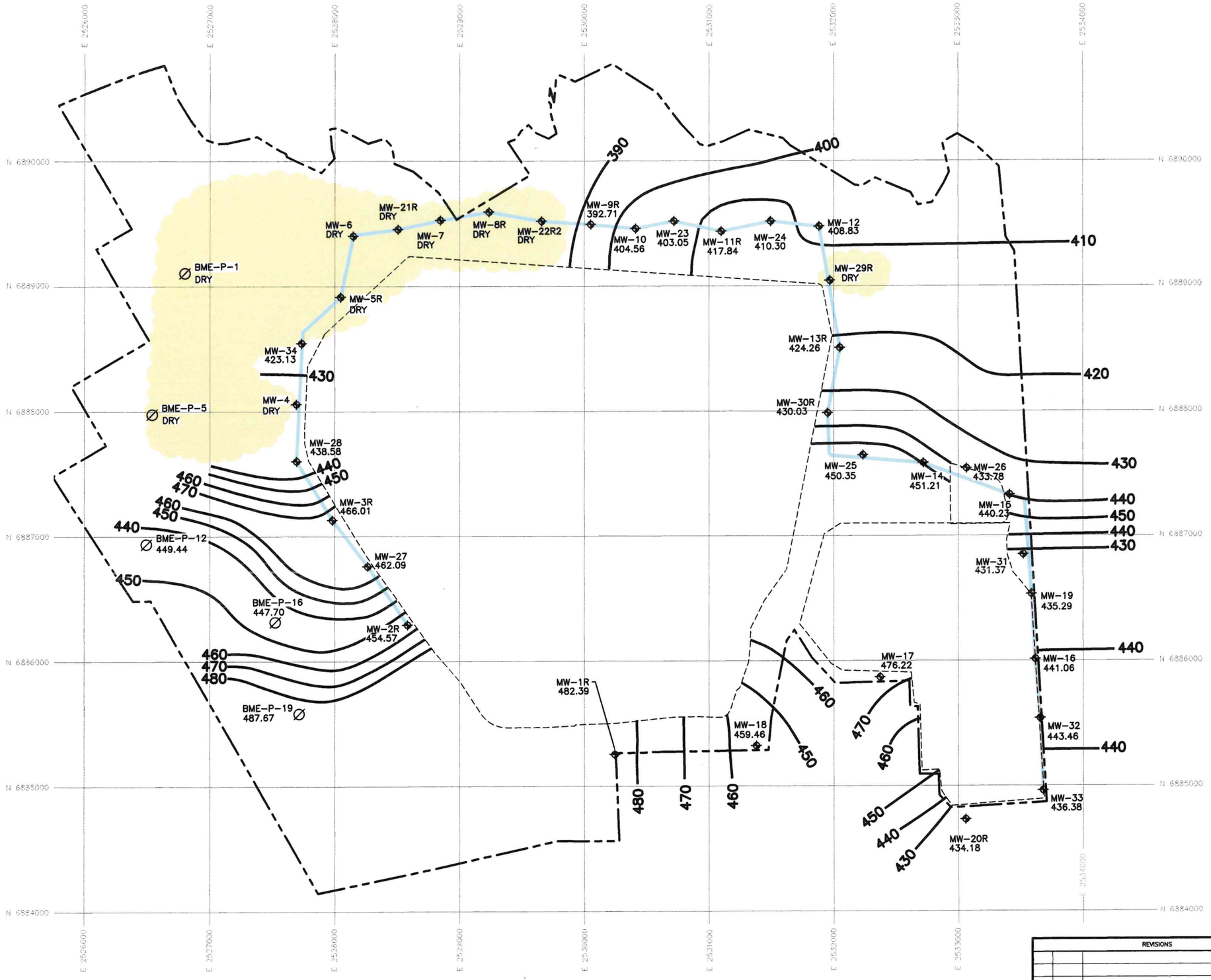
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5L

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5L_09-2024_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE OCTOBER 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

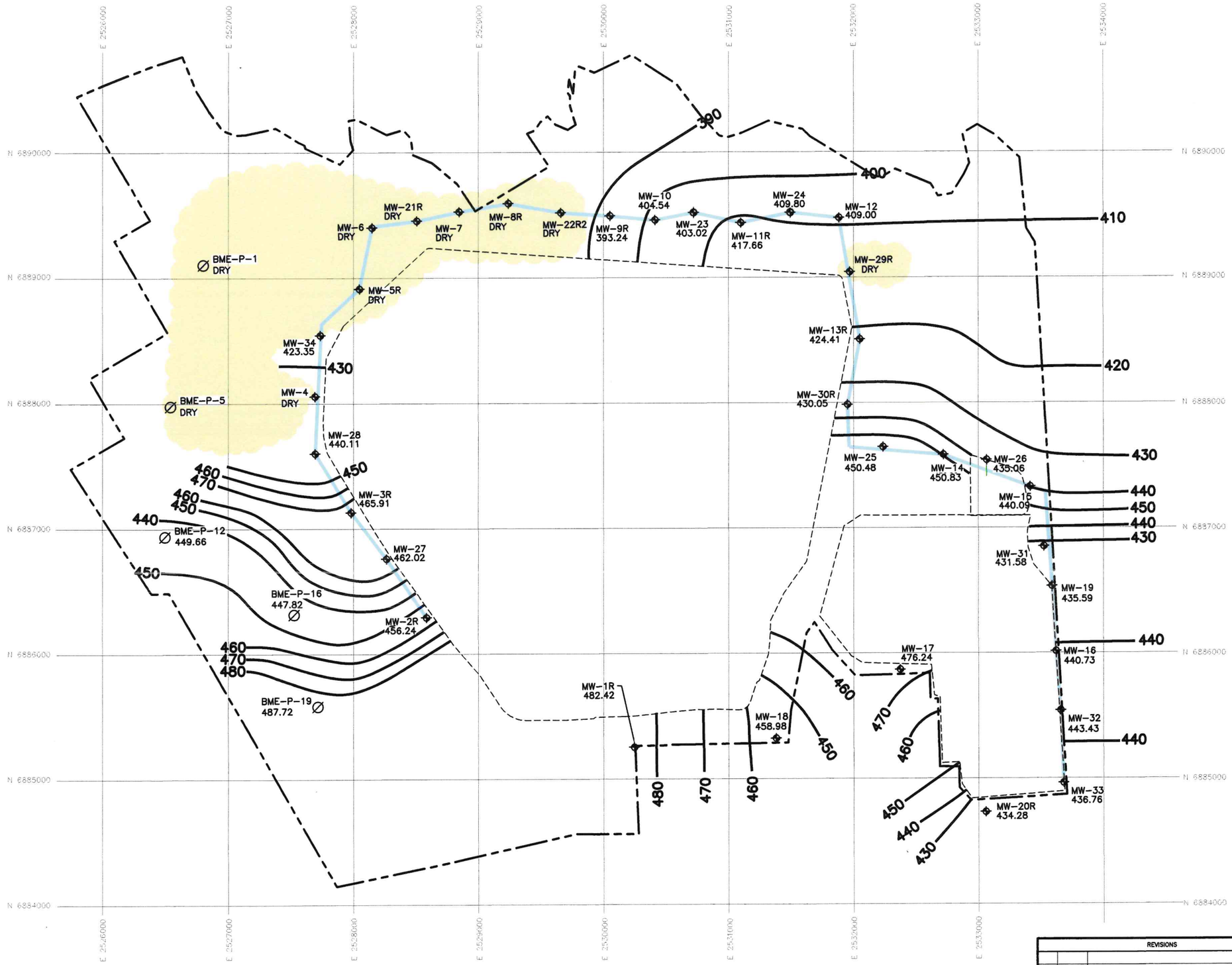
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5M

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5M_10-2024_Potent.dwg Layout: POTEN SURFACE User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE NOVEMBER 2024

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS

REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5N

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5--5N_11-2024_Potent.dwg Layout: POTEN SURFACE User: awhite

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-50_12-2024_Potent.dwg Layout: POTEN SURFACE User: awhite

E 2526000 E 2527000 E 2528000 E 2529000 E 2530000 E 2531000 E 2532000 E 2533000 E 2534000

N 6890000 N 6889000 N 6888000 N 6887000 N 6886000 N 6885000 N 6884000

MW-6 DRY
MW-21R DRY
MW-7 DRY
MW-8R DRY
MW-22R2 DRY
MW-9R 393.20
MW-10 404.22
MW-23 402.70
MW-11R 417.34
MW-24 409.14
MW-12 409.06
MW-29R DRY
BME-P-1 DRY
MW-5R DRY
MW-34 423.17
MW-4
BME-P-5 DRY
MW-28 437.18
MW-3R 465.63
MW-27 461.93
BME-P-12 449.70
BME-P-16 447.89
MW-2R 456.71
BME-P-19 487.76
MW-1R 482.27
MW-18 458.71
MW-13R 424.22
MW-30R 429.93
MW-25 450.37
MW-14 450.23
MW-26 435.37
MW-15 439.90
MW-31 431.68
MW-19 435.61
MW-16 440.38
MW-17 475.97
MW-32 443.26
MW-33 437.06
MW-20R 434.37

390 400 410 420 430 440 450 460 470 480

0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE DECEMBER 2024

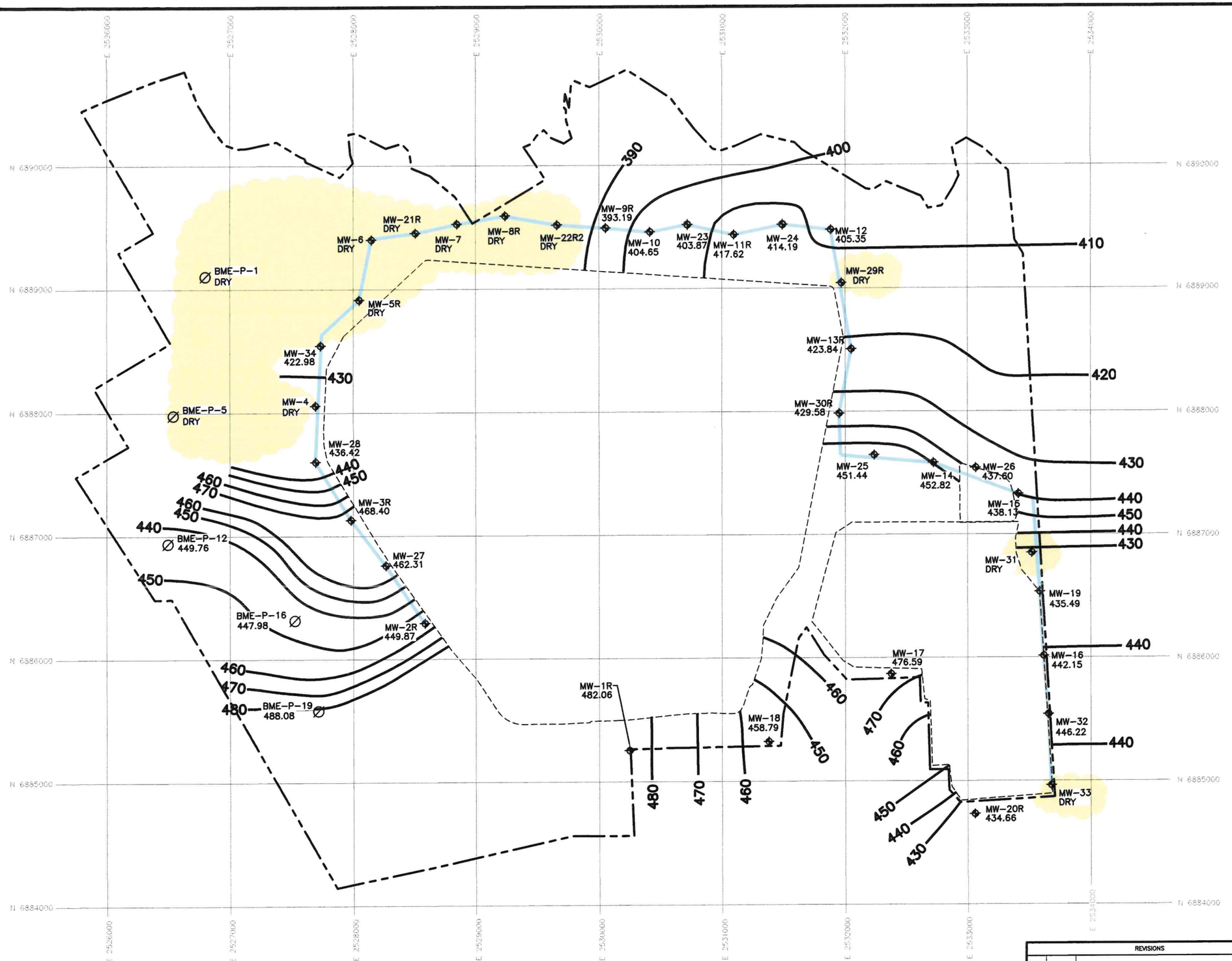
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.50



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE JANUARY 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

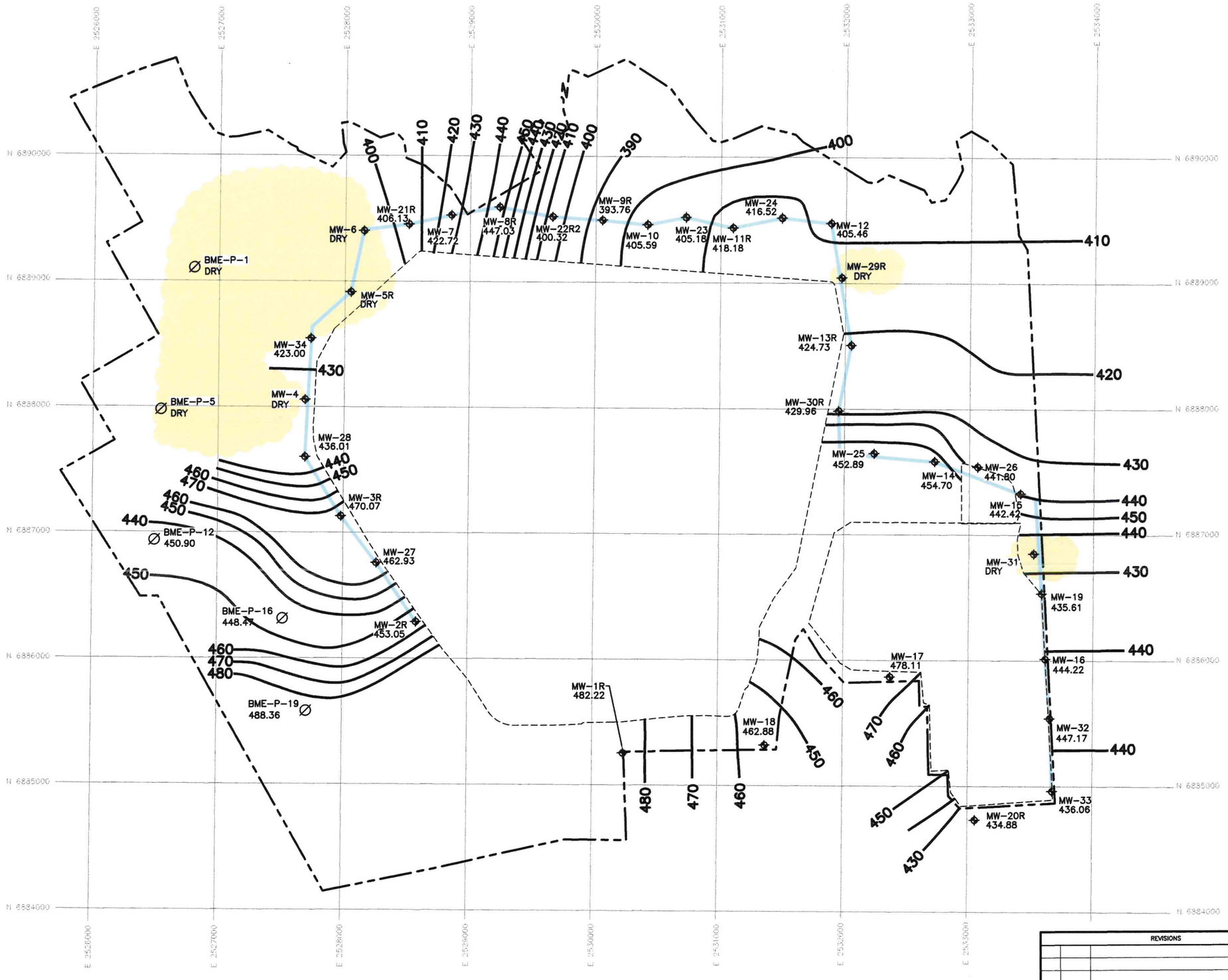
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5P

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5P_01-2025_Potent.dwg Layout: POTEN SURFACE User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LIMIT OF WASTE
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE FEBRUARY 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

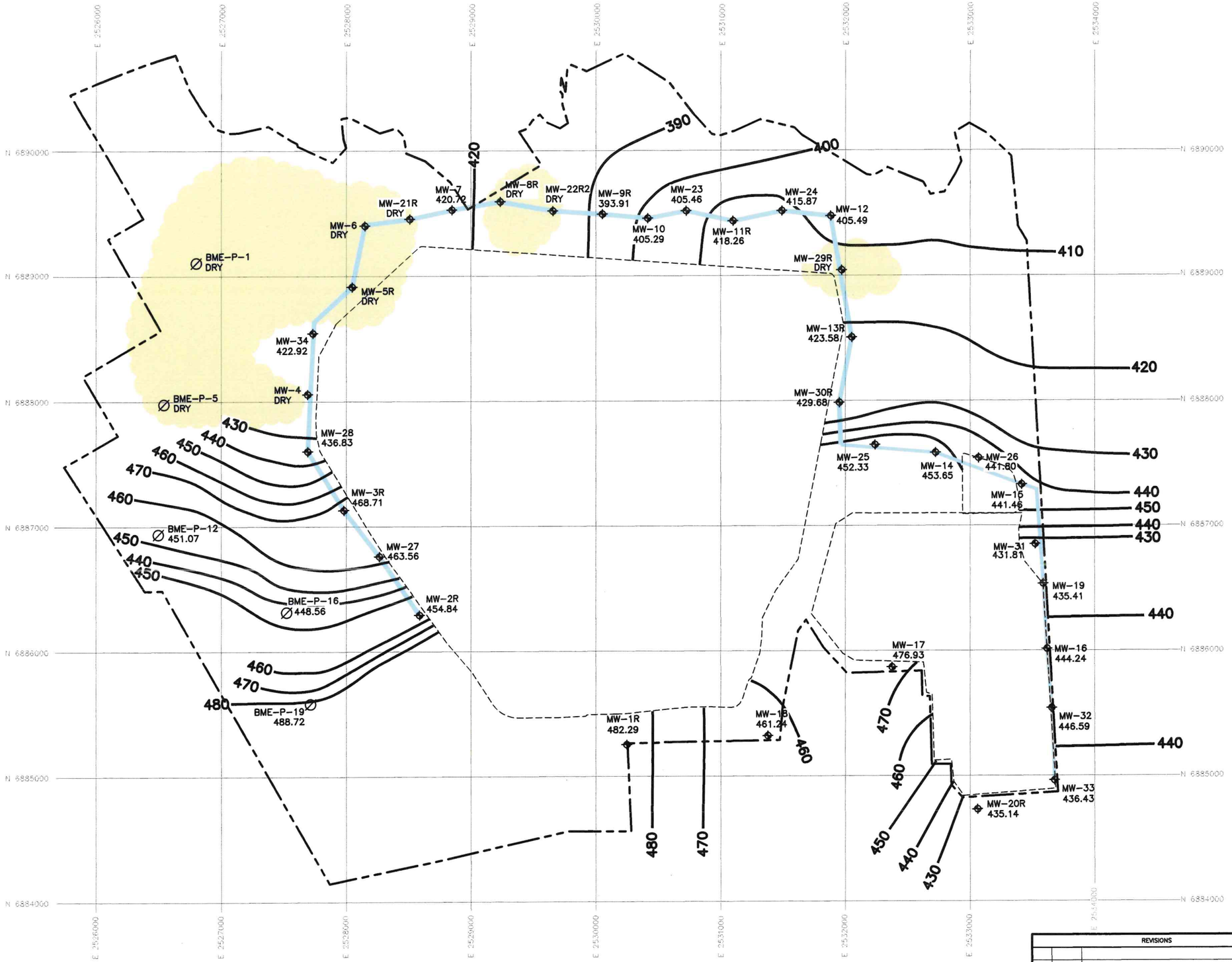
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5Q

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5Q_02-2025_Potent.dwg Layout: POTEN SURFACE User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE MARCH 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

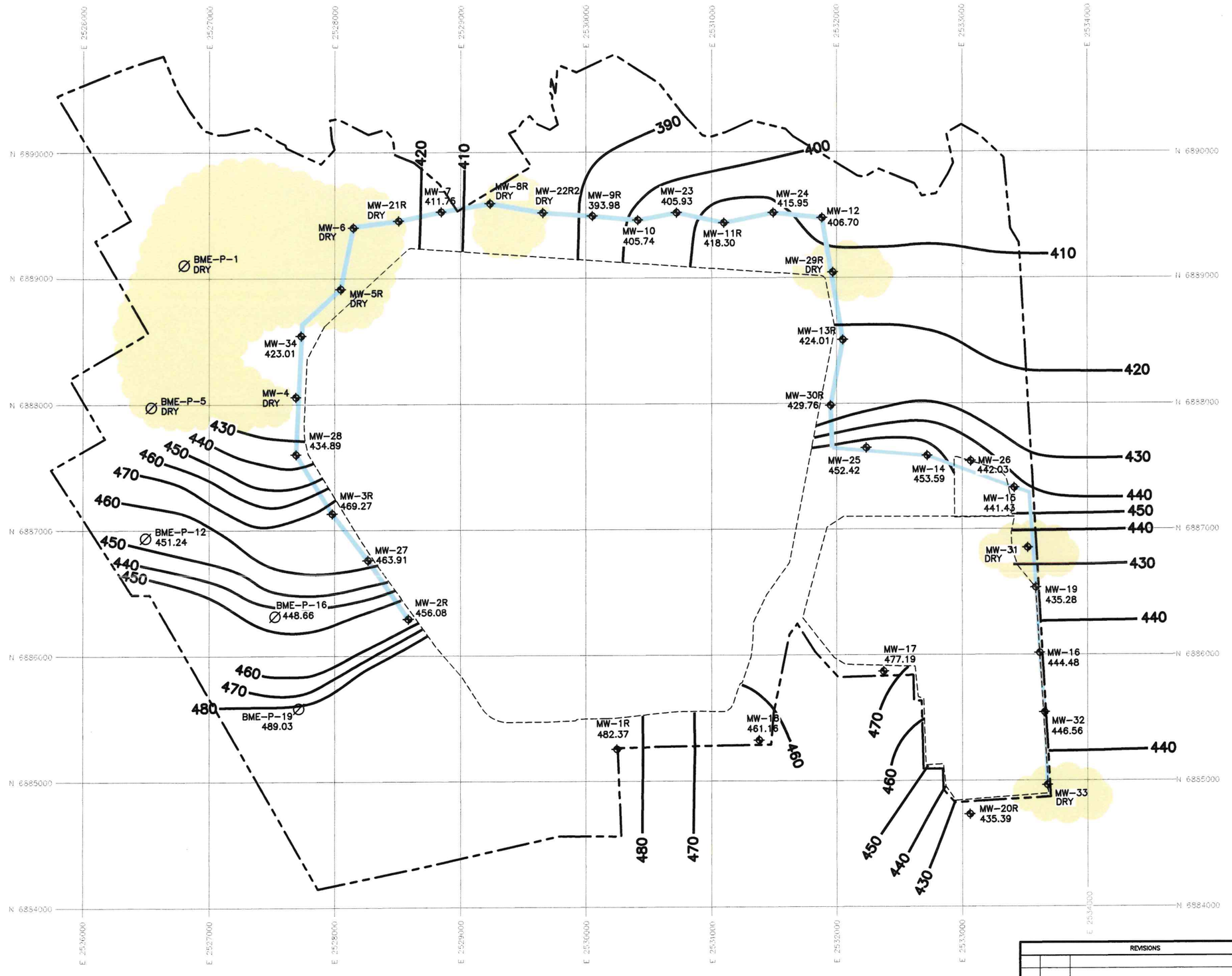
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5R

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5R_03-2025_Potent.dwg Layout: LAYOUT 1 User: owhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE APRIL 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

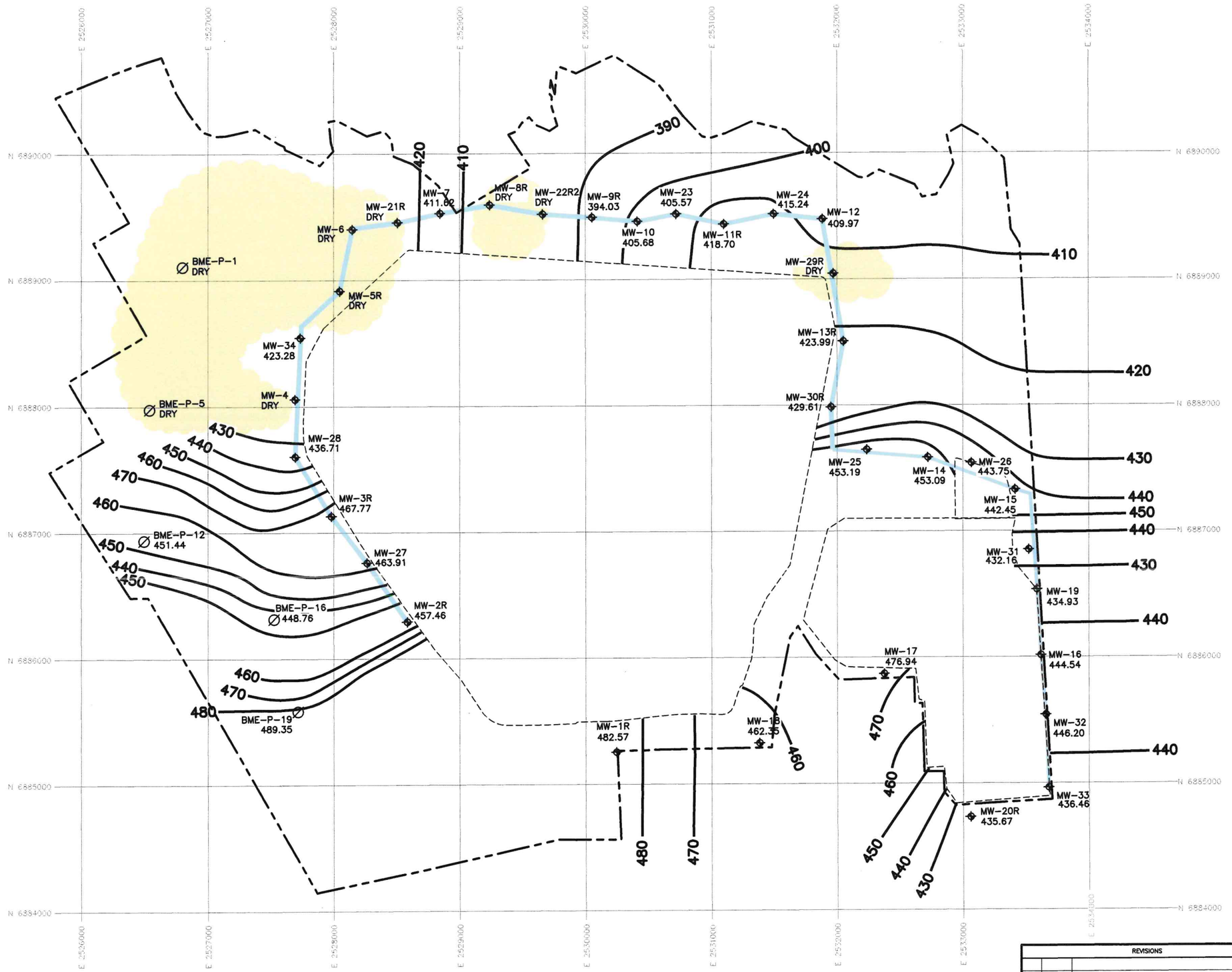
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5S

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5S_04-2025_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LIMIT OF WASTE
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE MAY 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

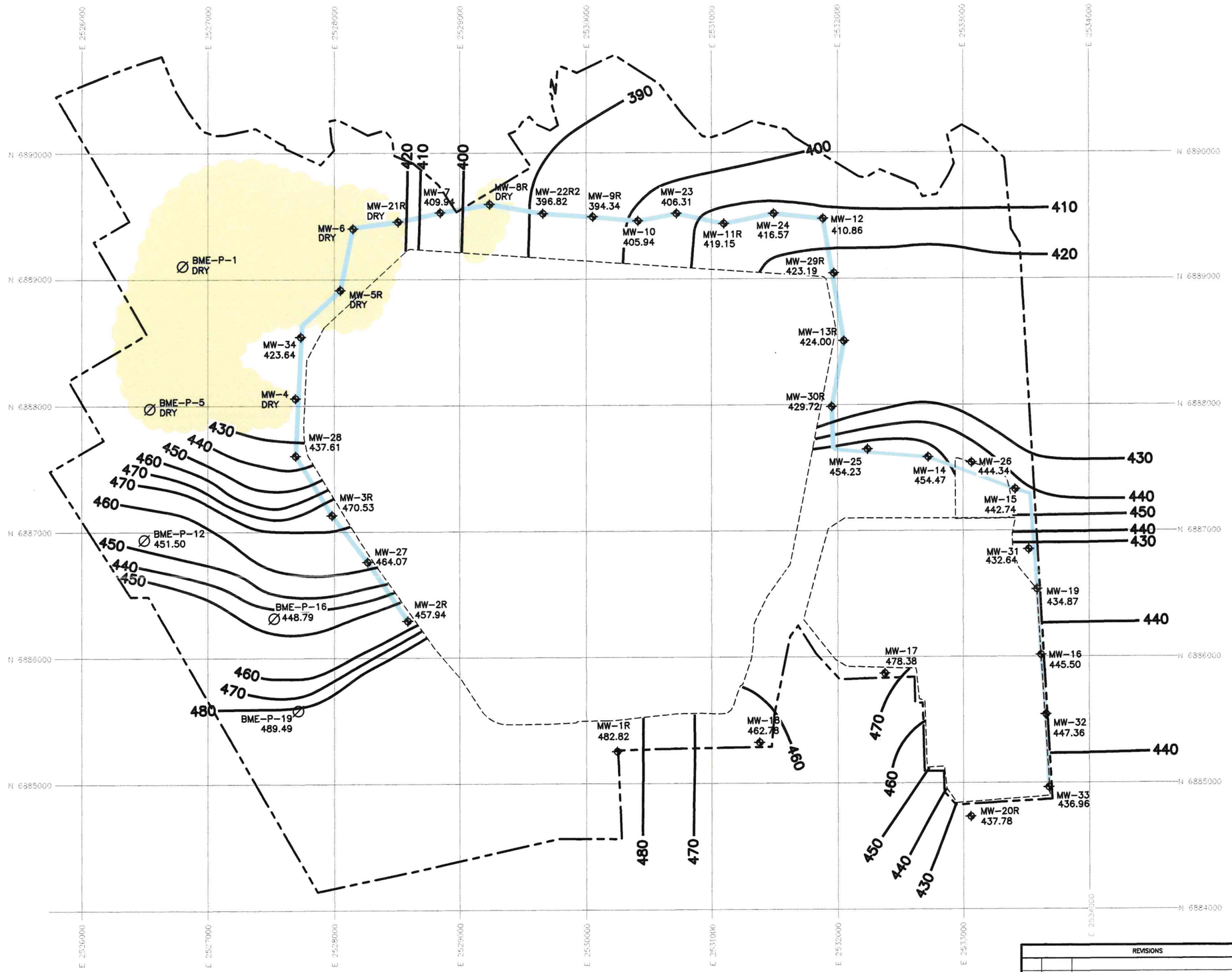
REV	DATE	DESCRIPTION	DWN BY
		REVISIONS	

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5T

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5T_05-2025_Potent.dwg Layout: LAYOUT 1 User: awhite



LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE JUNE 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

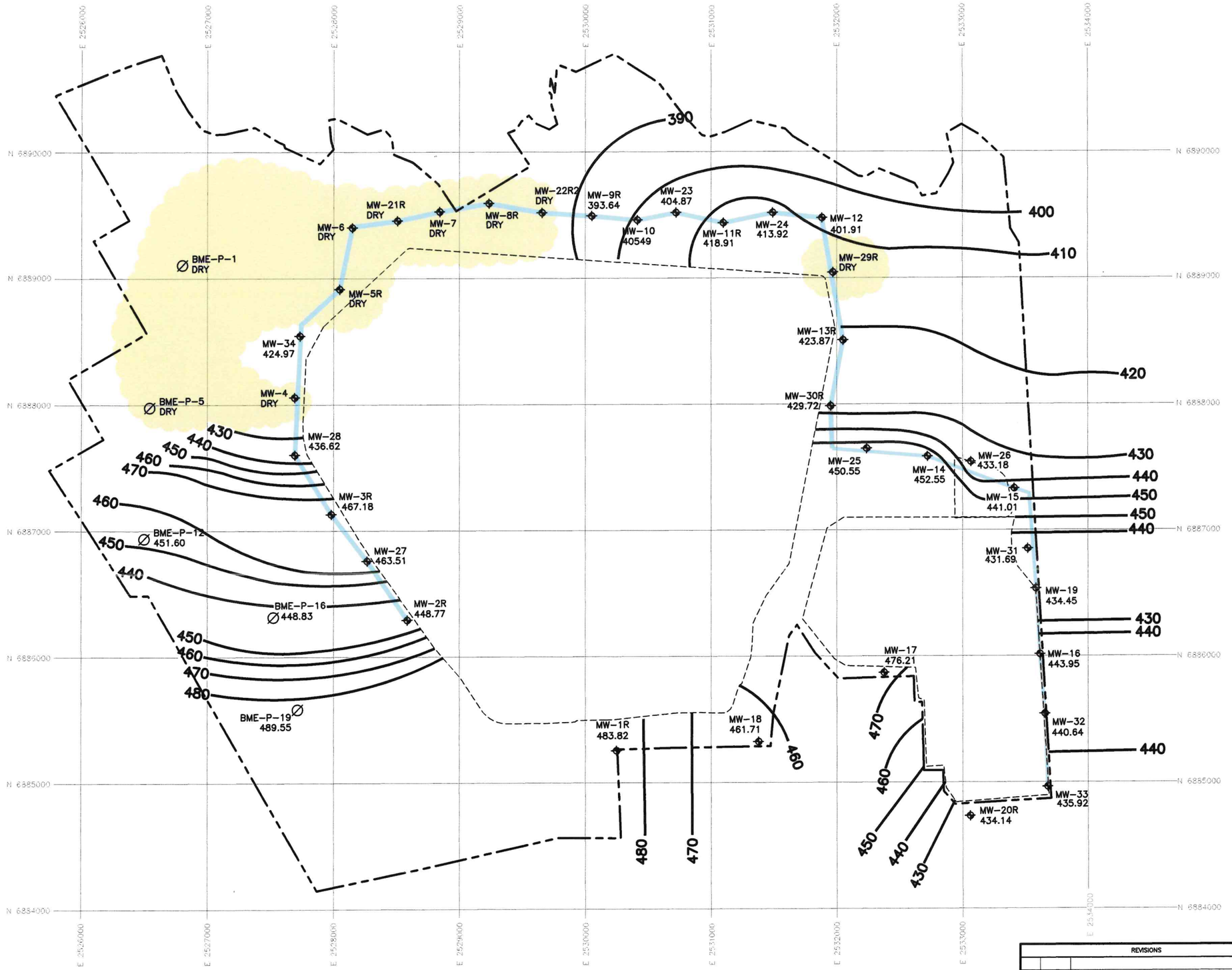
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5U

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5--5U_06-2025_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE JULY 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

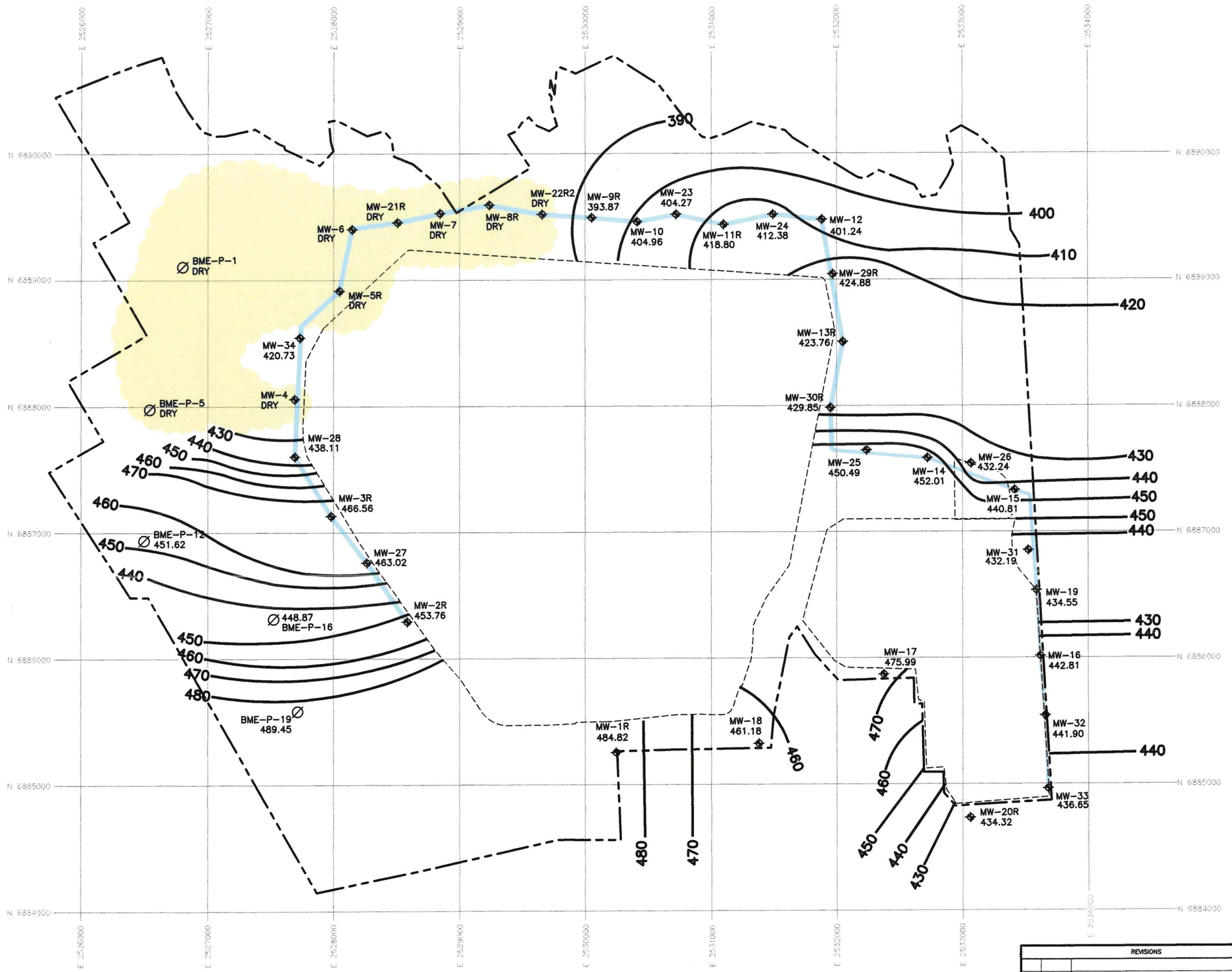
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5V

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5V_07-2025_Potent.dwg Layout: LAYOUT 1 User: awhite



NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE AUGUST 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

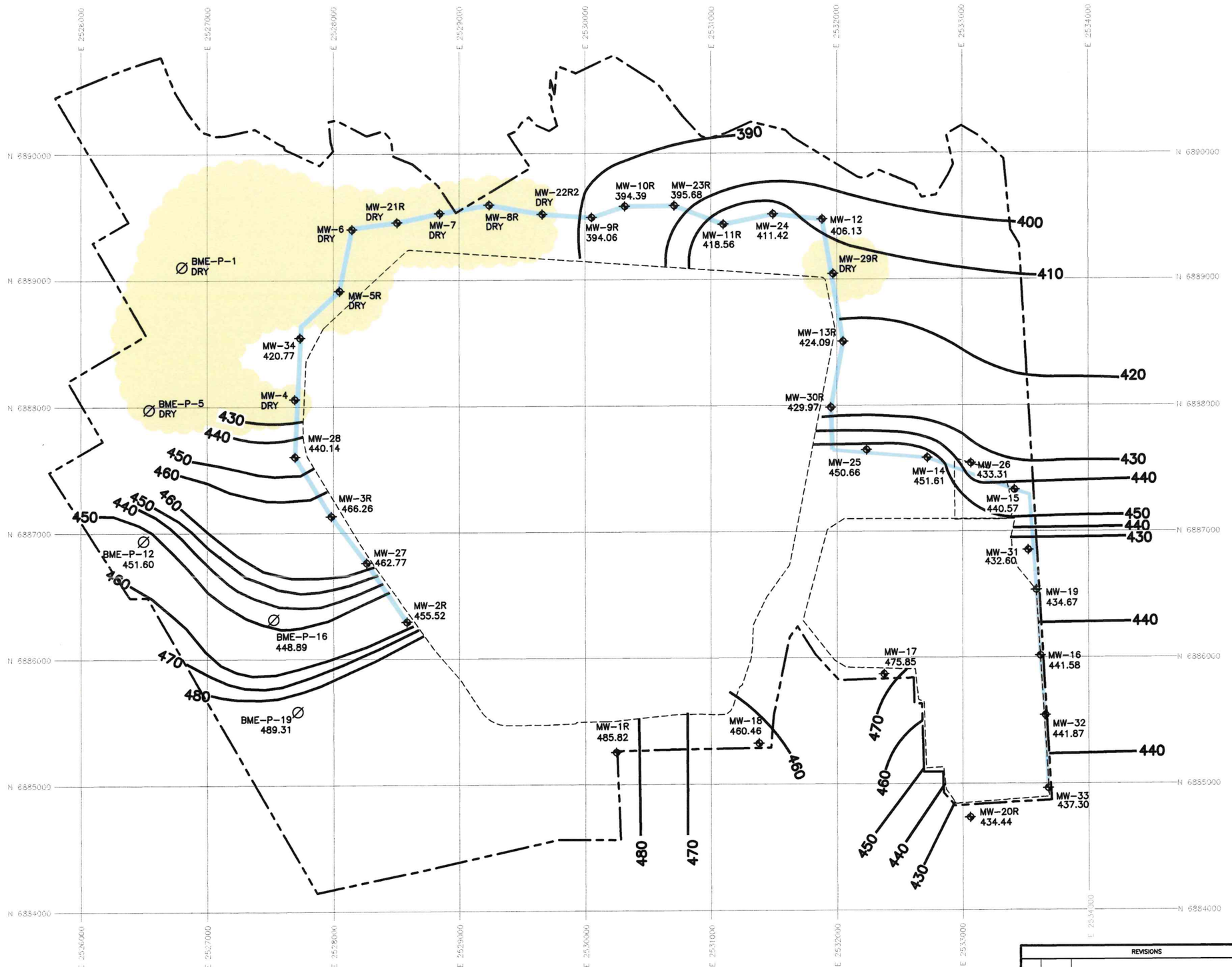
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5W

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5W_08-2025_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE SEPTEMBER 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS

REV	DATE	DESCRIPTION	DWN BY

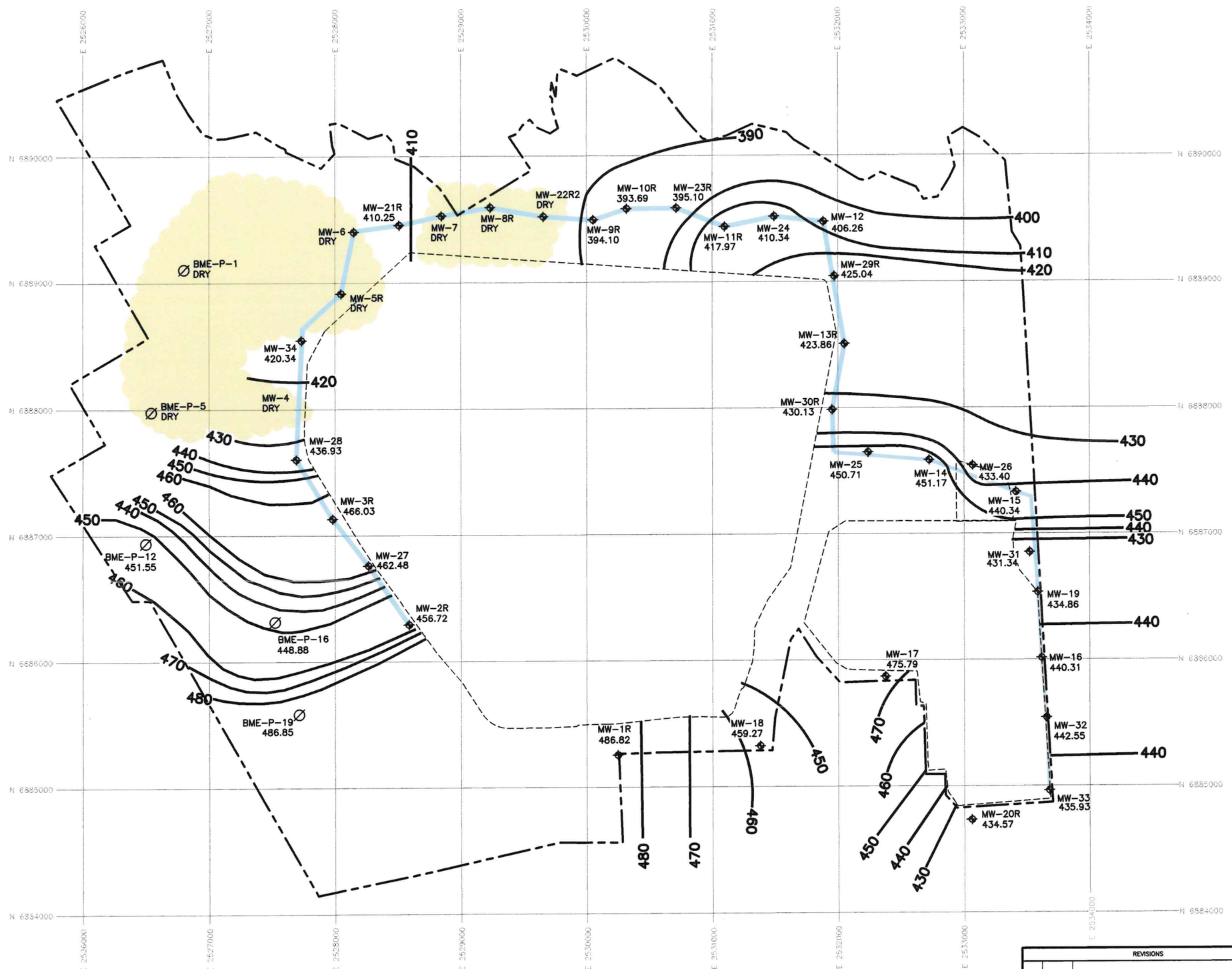
BME

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING
E5.5X

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-5X_09-2025_Potent.dwg Layout: LAYOUT 1 User: awhite



LEGEND

- PERMIT 42E BOUNDARY
- PERMIT 42D LANDFILL FOOTPRINT
- 400 GROUNDWATER CONTOUR
- POINT OF COMPLIANCE
- N 6888000 STATE PLANE GRID (NAD 83)
- GROUNDWATER ABSENT
- MW-5 PERMIT 42D MONITORING WELL
- BME-P-1 EXISTING PIEZOMETER

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE OCTOBER 2025

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.5Y

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5--5Y_10-2025_Potent.dwg Layout: LAYOUT 1 User: owhite

COMPUTATION SHEET

Project Title:	Waste Management - Skyline RDF				101.01.120
Description:	Groundwater Flow Velocity Calculations			Sheet	1 / 1
Prep. By:	KNC	Date: 3/23/2026	ESF	Date:	3/23/2026

GROUNDWATER VELOCITY CALCULATIONS

Uppermost Aquifer - Stratum I

$$V = \frac{Ki}{n_e}$$

WHERE:

V = Groundwater Flow Velocity
K = Hydraulic Conductivity
i = Hydraulic Gradient
n_e = Effective Porosity

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST
3/31/2026

Velocity calculation using geometric mean value for K

K = 4.23E-09 cm/sec
i = 0.029 ft/ft
n_e = 0.05

$$V = \frac{4.23E\text{-}09 \times 0.029}{0.05} \quad 2835 = 6.957E\text{-}06 \text{ ft/day}$$

= 6.957E-06 x 365 **2.54E-03 ft/year**

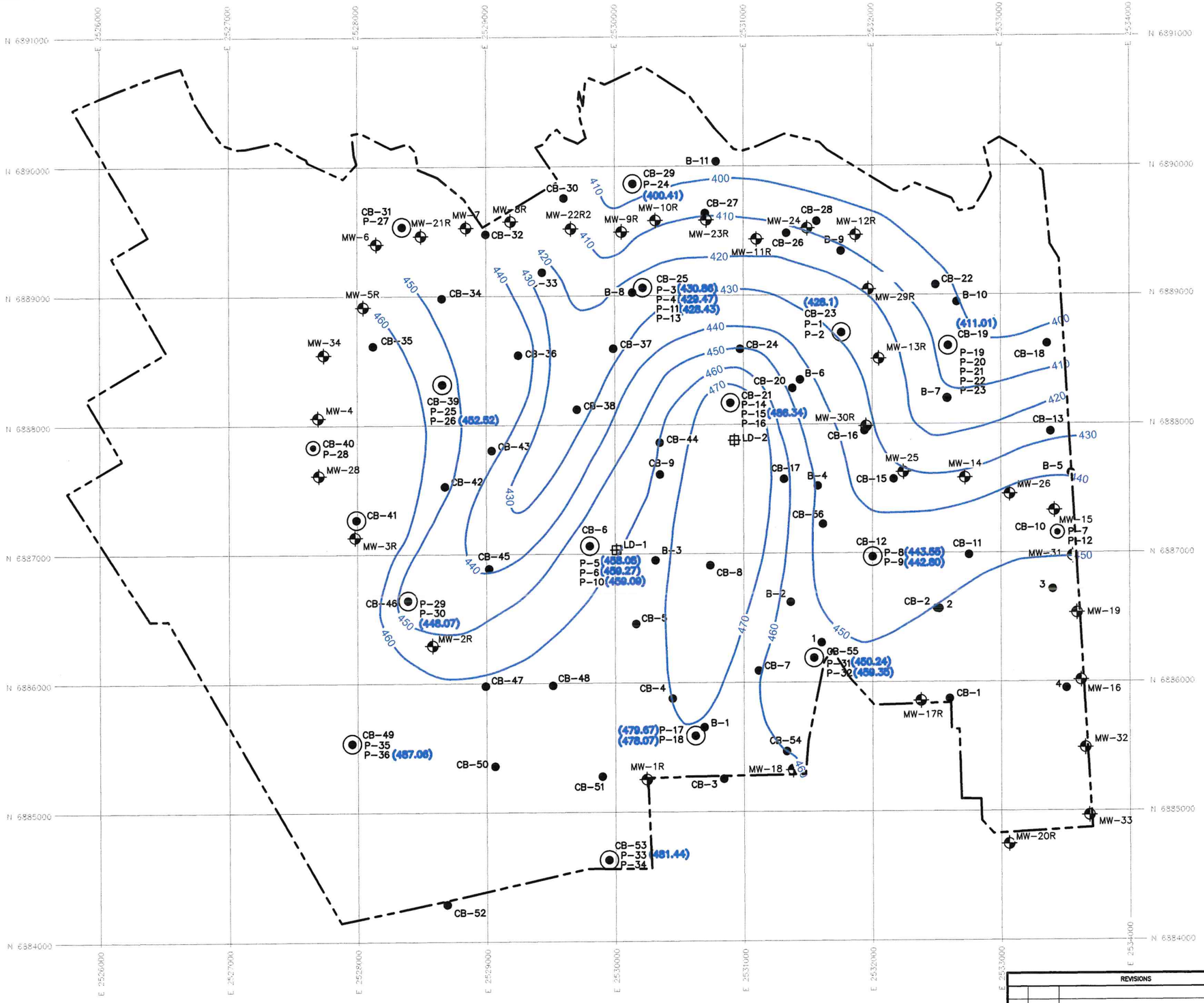
Velocity calculation using arithmetic mean value for K

K = 7.63E-09 cm/sec
i = 0.029 ft/ft
n_e = 0.05

$$V = \frac{7.63E\text{-}09 \times 0.029}{0.05} \quad 2835 = 1.25E\text{-}05 \text{ ft/day}$$

= 1.255E-05 x 365 **4.58E-03 ft/year**

- Hydraulic Conductivity value (K) from site specific field permeability tests (HDR, 1993)
- Hydraulic Gradient value (i) from October 2025 potentiometric surface map (Drawing E5.5Y)
- Effective porosity value (n_e) from the lithologic materials represented in the geologic units (HDR, 1993)



LEGEND

- PERMIT BOUNDARY
- N 688000 — STATE PLANE GRID NAD 83
- 450 — 10' GROUNDWATER CONTOUR
- GROUNDWATER MONITORING WELL
- EXISTING BORING
- HISTORICAL PIEZOMETER

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

POTENTIOMETRIC SURFACE MAP JUNE 1991 PRE-EXCAVATION

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS

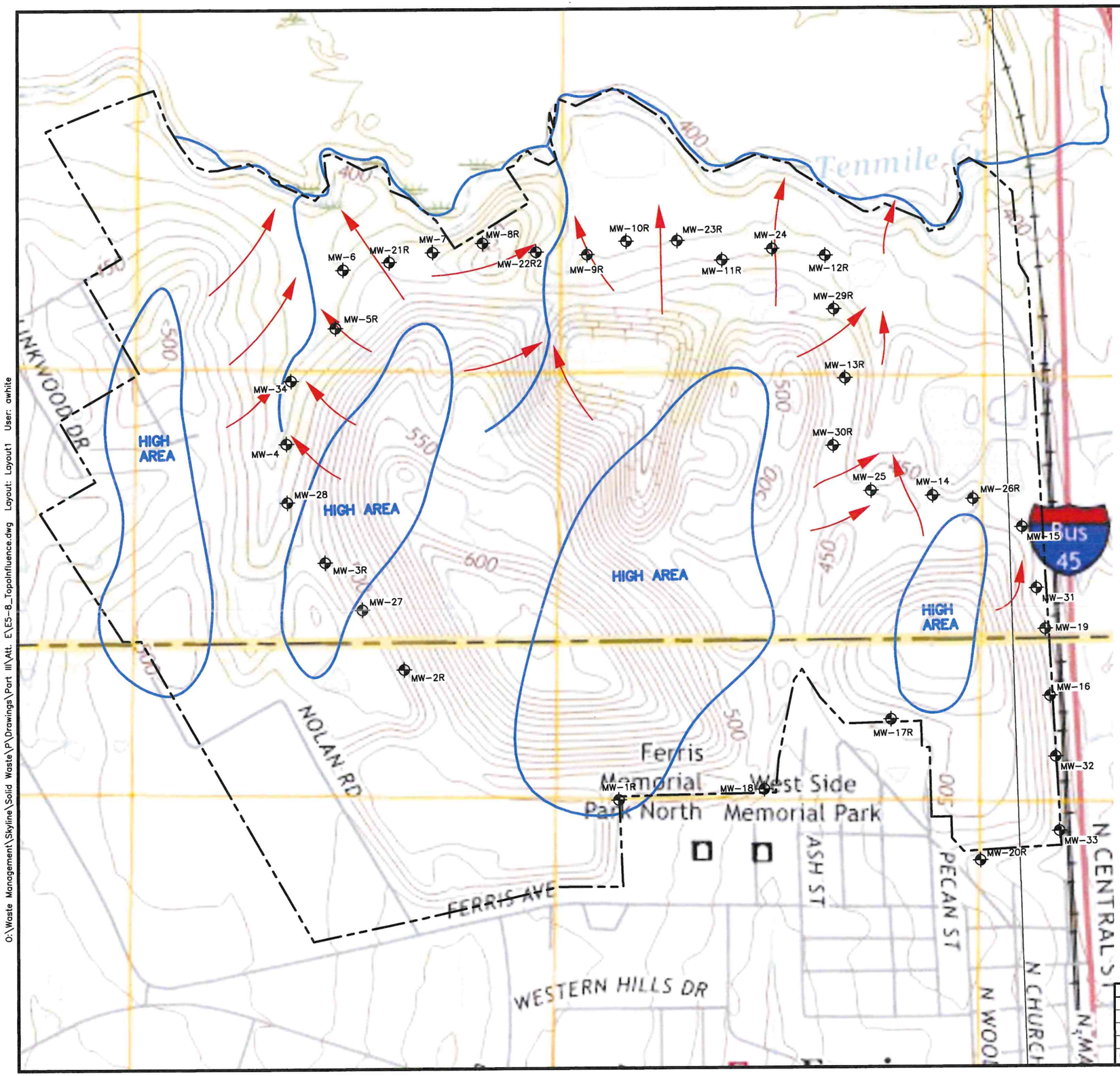
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.7

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-7_1991_Potent.dwg Layout: LAYOUT 1 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- 450 EXISTING 10' GROUND CONTOUR
- GROUNDWATER FLOW PATHS
- MW-26R PERMIT 42D MONITORING WELL

FERRIS, TX
2022

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

TOPOGRAPHIC INFLUENCES TO GROUNDWATER FLOW

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

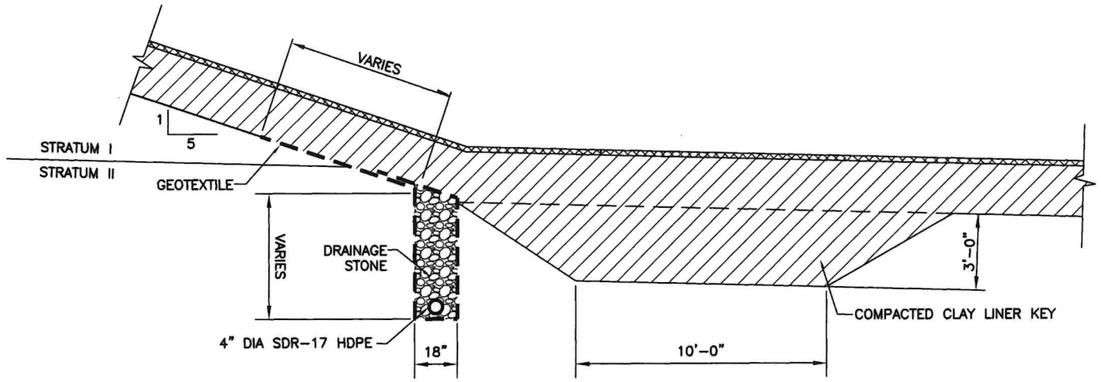
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

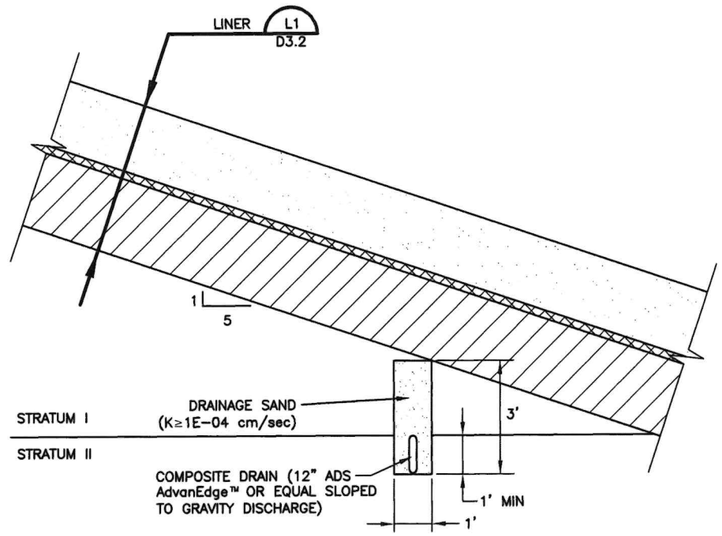
DRAWING
E5.8

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-8_TopoInfluence.dwg Layout: Layout1 User: awhite

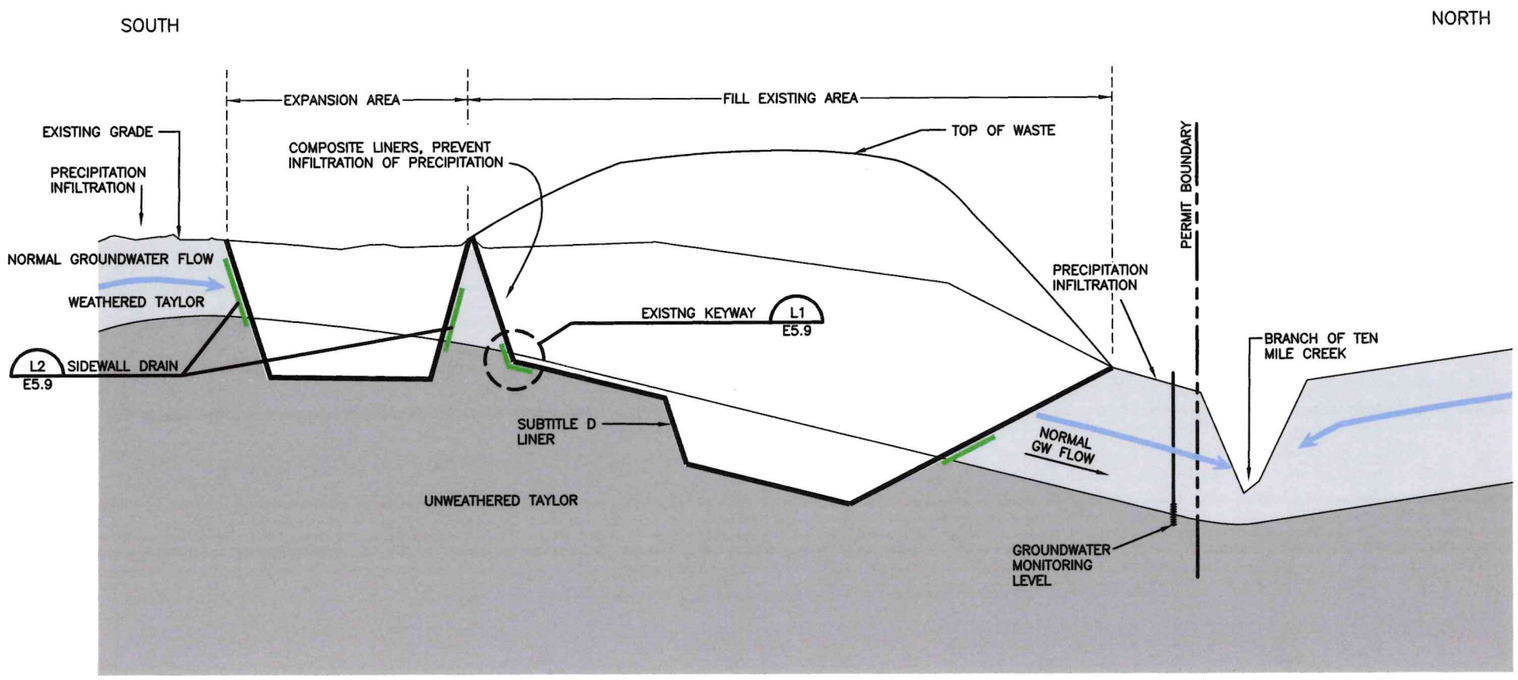


EXISTING KEYWAY L1 E5.9

NTS



SIDEWALL DRAIN L2 E5.9



NOTE:

1. STRATUM I AND II INTERFACE ELEVATION VARIES.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

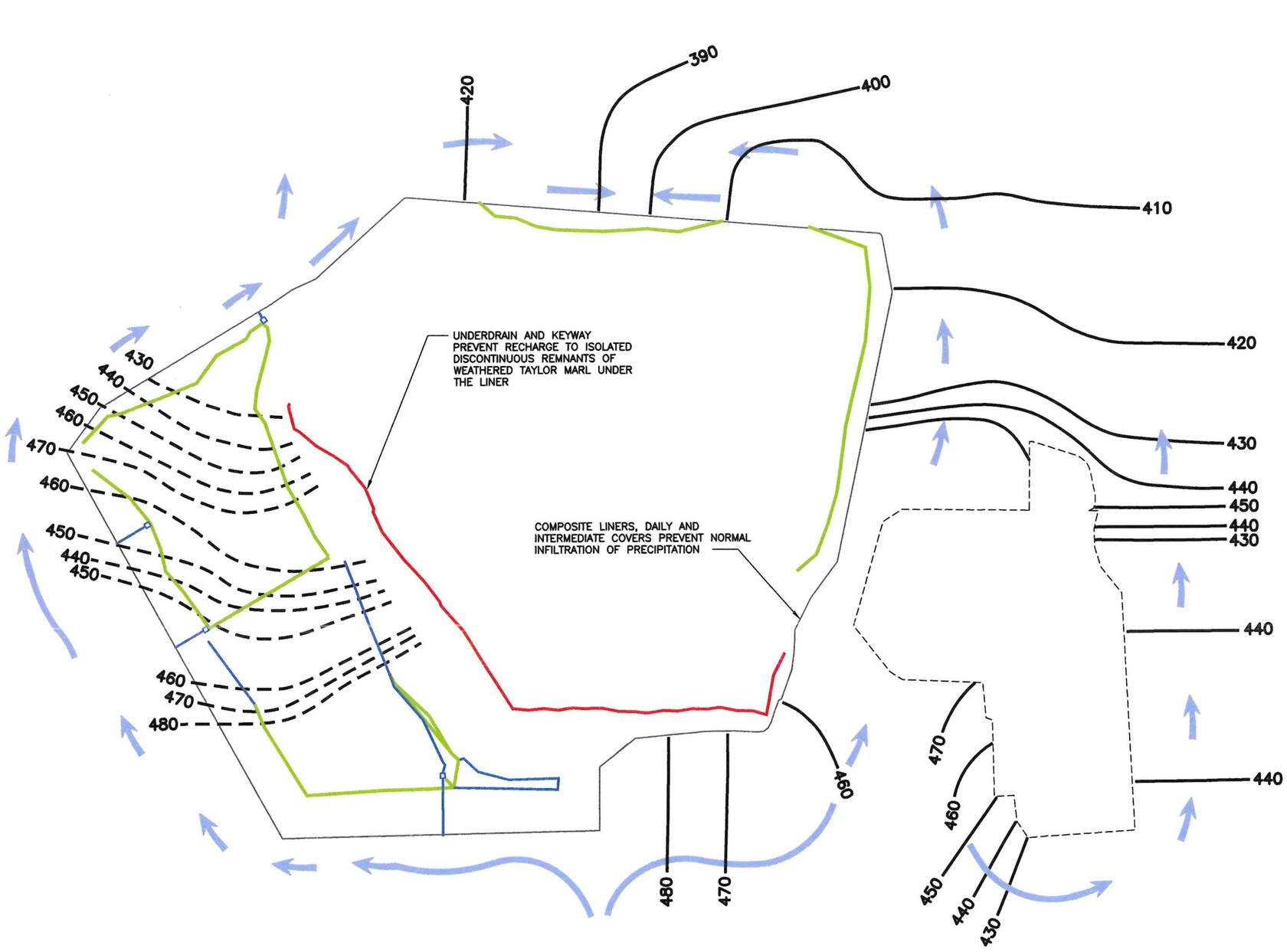
CONCEPTUAL HYDROGEOLOGIC CROSS SECTION

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144
TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.9

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-9_HydroGeo.dwg Layout: E5-9 User: awhite



N

LEGEND

- 420 — 10' CONCEPTUAL GROUNDWATER CONTOUR
- FLOOR DRAIN
- SIDEWALL DRAIN
- 420 — INFERRED GROUNDWATER CONTOUR
- DIRECTION OF GROUND WATER FLOW

NOTES:

1. GROUNDWATER ELEVATION CONTOURS SHOWN REPRESENT A CONCEPTUALIZED POTENTIOMETRIC SURFACE.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

CONCEPTUAL HYDROGEOLOGIC GROUNDWATER FLOW MODEL

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

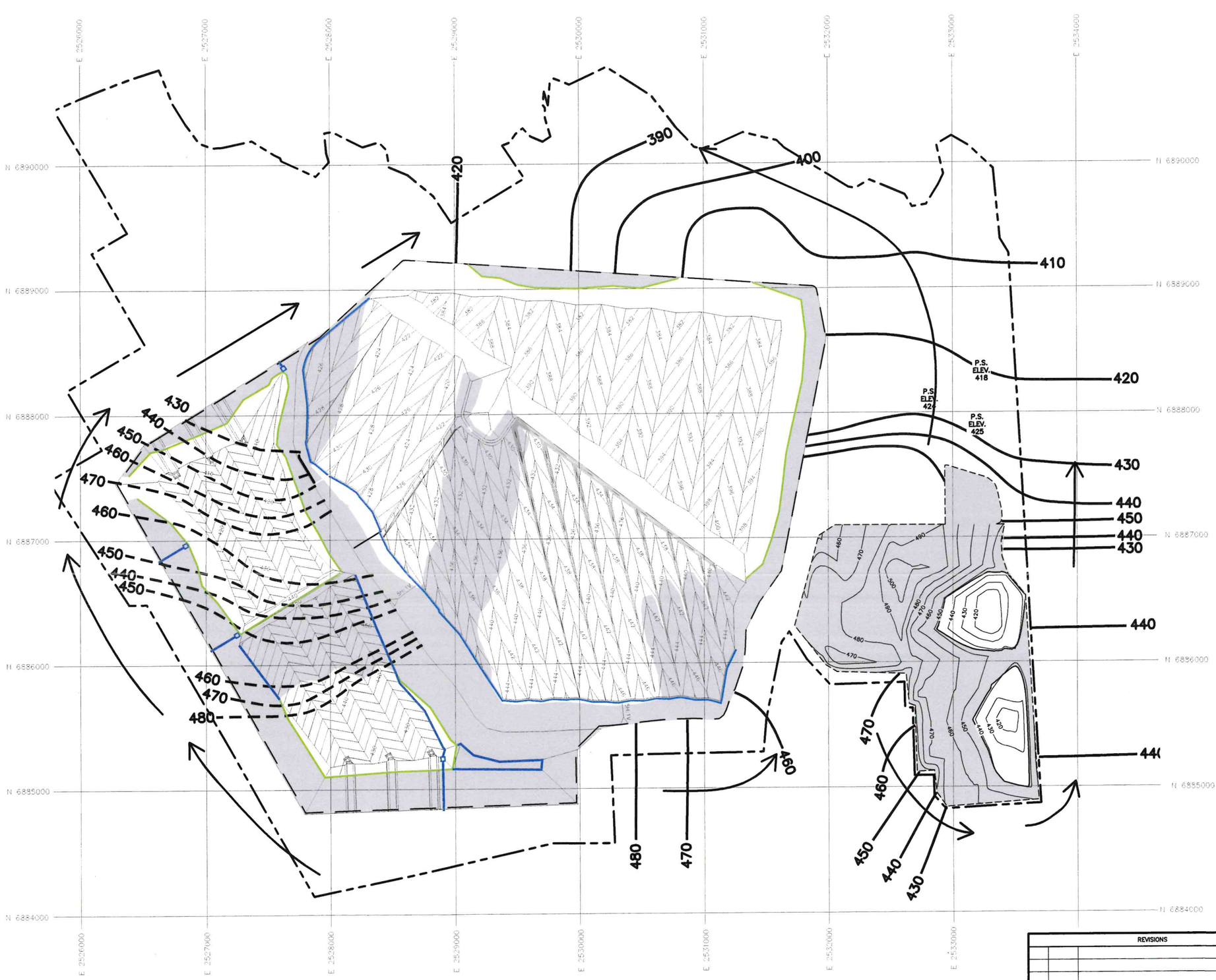
REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BME
BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.10

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-9_HydroGeo.dwg Layout: E5-10 User: awhite



0 400 800
SCALE IN FEET

LEGEND

- PERMIT 42E BOUNDARY
- STATE PLANE GRID NAD 83
- PERMIT 42E LIMIT OF WASTE
- DEVELOPED LIMIT OF WASTE
- FLOOR DRAINS
- SIDEWALL DRAIN
- WEATHERED TAYLOR REMAINING BENEATH THE FOOTPRINT
- 400 — 10' GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES:

1. POTENTIOMETRIC SURFACE CONTOURS ARE FROM THE MARCH 2025 MONITORING EVENT.
2. THE WEATHERED TAYLOR IS STILL PRESENT OUTSIDE THE LANDFILL FOOTPRINT.

STATE OF TEXAS
Elizabeth Floyd
GEOLOGY
2045
LICENSED
PROFESSIONAL GEOSCIENTIST

3/31/2026

EXCAVATION PLAN SHOWING REMAINING WEATHERED TAYLOR MARL

WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL

REVISIONS			
REV	DATE	DESCRIPTION	DWN BY

BIGGS & MATHEWS ENVIRONMENTAL
1700 ROBERT ROAD, STE. 100
MANSFIELD, TEXAS 76063
817-563-1144

TBPELS FIRM NO. F-256 AND NO. 10194895
TBPG FIRM NO. 50222

DRAWING E5.11

O:\Waste Management\Skyline\Solid Waste\P\Drawings\Part III\Att. E\E5-11_ExcavWeatheredTaylor.dwg Layout: LAYOUT 1 User: awhite

SKYLINE LANDFILL

APPENDIX E6

GROUNDWATER ANALYTICAL DATA

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-01	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.3	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.3	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<2	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.3	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/21/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/19/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/4/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/22/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-01	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-01R	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/20/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/26/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/14/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/23/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-02	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.5	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<10	<5	<10	<0.86	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-02	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
MW-02R	12/18/1998	<5	<5	<5	<5	<5	<5	<5	<2	<2	<10	<5	<5	<10	<4.2	<5	<10	<10	<4.7	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	**1.5**	<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	9/3/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/4/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	3/19/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	**47**	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	**30**	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	5/20/2011																		<20																																
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/30/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-03R	12/18/1998	<5	<5	<5	<5	<5	<5	<5	<2	<2	<10	<5	<5	<10	<10	<5	<10	<10	<4.8	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	2.4	<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	9/3/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/4/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	3/19/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/30/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-05	12/14/2017	<2	<1	<1	<1	**1**	<1	<1	<5	<1	<2	**1.1**	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	**2**	<2	<2	<1	<2	<5	**20**	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	2/14/2018					<1						**1.5**																			**1.2**						**15**											
	3/23/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	**1.3**	<2	<2	<1	<2	<5	**11**	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	**1.1**	<1	<1	<5	<1	<2	**1.4**	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	**2**	<2	<2	<1	<2	<5	**9.2**	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/6/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	**1.2**	<2	<2	<1	<2	<5	**6.4**	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-05	3/20/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	**44**	<50	<1	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	**20**	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/29/2019																		**23**																																
	9/19/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	**7.9**	<10
MW-06	12/12/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.6	<0.7	<0.3	<0.6
	3/26/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<3	<0.7	<0.3	<0.6
	7/1/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/24/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/19/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/27/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/24/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/23/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<0.58	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	3/18/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	3/28/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/7/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<1
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/27/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/30/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-07	3/10/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.2	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	2/28/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-08	9/21/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.4		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-08	7/1/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/24/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/19/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<9.2	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.2	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/26/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/23/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/4/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/27/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/5/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-08R	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/23/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/20/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/26/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-08R	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-09	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<6		<10	<10	<5.5	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.3	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/1998	<5	<5	<5	<5	<5	<5	<5	<2	<2	<10	<5	<5	<10	<5.8	<5	<10	<10	<4.5	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	<0.41	<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/26/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/23/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/22/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/23/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/28/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-09	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-09R	9/28/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/9/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	2/28/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-10	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.3	<0.3	<0.4	<0.3	<0.3	<0.4	<1	<0.75	<0.25	<0.3	<0.3	<0.3	<0.3	<5		<1	<1	<6	<2	<0.3	<0.3	<0.3	<0.3	<0.5	<0.3	<0.4	<0.3	<0.6	<0.3	<0.5	<0.4	<0.3	<0.1	<0.3	<0.3	<0.4	<0.4	<0.3	<0.4	<0.3		<0.4	<0.3	<0.6	<0.3	<0.4	<0.9	<0.375	<0.8
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<0.81	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/1998	<5	<5	<5	<5	<5	<5	<5	<2	<2	<10	<5	<5	<10	<10	<5	<10	<10	<3.5	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5	4.1	<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-10	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/26/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/23/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/22/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/23/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/28/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-10R	9/29/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-11	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.3	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.3	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-11	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.2	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/27/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/23/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/22/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/5/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-11R	9/2/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	2/5/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-11R	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-12	12/12/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/26/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.3		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	7/1/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.9	<0.7	<0.3	<0.6
	9/24/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.3	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/22/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-12	3/18/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10						
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-13	9/2/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	2/5/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-13R	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/6/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/20/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-14	12/16/1994	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	3/24/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	6/22/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<0.21	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/27/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/19/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/1/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/30/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-14	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-15	9/26/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/12/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/26/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/24/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.9	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/24/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.6	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/10/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/23/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/15/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<4.7	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.1	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-15	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/27/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/19/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/1/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-16	12/16/1994	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	3/24/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	6/22/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-16	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/21/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/2/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-16	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-17	12/16/1994	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	3/24/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	6/22/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	9/21/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<0.6	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/21/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/19/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-17	6/16/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/2/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2010	<2	<1	<1	<1	**1.1**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/27/2011					**1.1**																																												
	6/28/2011	<2	<1	<1	<1	**2.6**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	**2**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	**1.2**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	**1.3**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	**1.6**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	**1.8**	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-18	12/16/1994	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	3/24/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	6/22/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/15/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-18	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<0.91	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/21/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/23/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/2/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/4/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-18	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-19	12/16/1994	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	3/24/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	6/22/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.4	<0.2	<0.1	<0.2	<0.8	<0.3	<0.3	<0.2	<0.3	<3		<0.3	<0.2	<0.5	<0.3	<0.3	<0.7	<0.3	<3
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2		<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2		<0.2	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.2	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2003	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/21/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/25/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/2/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-19	3/16/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<10	<10	<2	<10
	6/22/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/30/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1	<1	<5	<100	<5	<10	<100	<2	<10
MW-20	12/21/1994	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	3/24/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	6/22/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.7	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.6	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.5	<0.6
	9/20/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/6/1995	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/20/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/25/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.9	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<4		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.3	<0.2	<0.5	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	9/18/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/13/1996	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	3/21/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/18/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	12/17/1997	<0.2	<0.2	<0.3	<0.2	<0.2	<0.3	<0.6	<0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.4	<0.3	<0.2	<0.1	<0.2	<0.2	<0.3	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6
	6/17/1998	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<5		<0.9	<0.8	<5	<2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.3	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3	<0.2	<0.5	<0.2	<0.3	<0.7	<0.3	<0.6

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-20	12/16/1998	<5	<5	<5	<5	<5	<5	<10	<2	<2	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<1.1	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/1999	<5	<5	<5	<5	<5	<5	<10	<2	<10	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	7/13/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/14/2000	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/29/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/12/2001	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/19/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2002	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
MW-20R	12/29/2004	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/16/2005	<5	<5	<5	<5	<5	<5	<10	<1	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/15/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/7/2006	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/28/2007	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<50		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<10	<5	<10	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/26/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/18/2008	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/17/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	12/1/2009	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/28/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-20R	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/20/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-21	6/23/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/7/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<1
	3/19/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/27/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-21R	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-22	9/17/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/27/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/28/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/7/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<1
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-23	3/18/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/23/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/28/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/27/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/5/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-23	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-23R	9/29/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	1.5	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-24	3/18/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<100	<2	<10
	6/24/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/27/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	1/5/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-24	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-25	3/19/2010	<5	<5	<5	<5	<5	<5	<10	<2	<1	<10	<5	<5	<10	<10		<10	<10	<34	<10	<5	<5	<5	<5	<10	<5	<5	<5	<10	<5	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5		<10	<5	<10	<5	<10	<10	<2	<10
	6/22/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/16/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/23/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/27/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/30/2011	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/11/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-26	3/28/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/7/2012	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/7/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<1
	6/20/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/12/2013	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/19/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/24/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-26	12/17/2014	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/15/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/20/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-27	9/2/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	2/5/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/30/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/14/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/27/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-28	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-28	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-29	2/5/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-30	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-30R	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/23/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/20/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/20/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/12/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/8/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/13/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-31	9/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/26/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-32	12/10/2015	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	2/5/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/8/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	7/2/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Organics

Well ID	Date	1,1,1,2-tetrachloroethane (ug/L)	1,1,1-trichloroethane (ug/L)	1,1,2,2-tetrachloroethane (ug/L)	1,1,2-trichloroethane (ug/L)	1,1-dichloroethane (ug/L)	1,1-dichloroethene (ug/L)	1,2,3-trichloropropane (ug/L)	1,2-dibromo-3-chloropropane (ug/L)	1,2-dibromoethane (ug/L)	1,2-dichlorobenzene (ug/L)	1,2-dichloroethane (ug/L)	1,2-dichloropropane (ug/L)	1,4-dichlorobenzene (ug/L)	2-butanone (ug/L)	2-chloroethylvinyl ether (ug/L)	2-hexanone (ug/L)	4-methyl-2-pentanone (ug/L)	Acetone (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)	Bromochloromethane (ug/L)	Bromodichloromethane (ug/L)	Bromoform (ug/L)	Bromomethane (ug/L)	Carbon disulfide (ug/L)	Carbon tetrachloride (ug/L)	Chlorobenzene (ug/L)	Chloroethane (ug/L)	Chloroform (ug/L)	Chloromethane (ug/L)	Cis-1,2-dichloroethene (ug/L)	Cis-1,3-dichloropropene (ug/L)	Dibromochloromethane (ug/L)	Dibromomethane (ug/L)	Ethylbenzene (ug/L)	Iodomethane (ug/L)	Methylene chloride (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Total organic carbon (mg/L)	Trans-1,2-dichloroethene (ug/L)	Trans-1,3-dichloropropene (ug/L)	Trans-1,4-dichloro-2-butene (ug/L)	Trichloroethene (ug/L)	Trichlorofluoromethane (ug/L)	Vinyl acetate (ug/L)	Vinyl chloride (ug/L)	Xylene(total) (ug/L)
MW-33	6/29/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/22/2016	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/21/2017	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
MW-34	12/21/2018	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/20/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/19/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/18/2019	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	3/26/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/11/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	9/14/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/1/2020	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/10/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/9/2021	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/29/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/6/2022	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5.9		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/7/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/28/2023	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<6		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	12/10/2024	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10
	6/26/2025	<2	<1	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<2	<5		<5	<5	<20	<50	<1	<1	<1	<5	<10	<5	<5	<1	<5	<1	<5	<1	<2	<2	<1	<2	<5	<5	<2	<5	<1		<1	<5	<100	<5	<10	<100	<2	<10

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
MW-01	9/20/1995			<2.7		24.5				<4.4		<3.4						<1		40.7		47										285	448			524	<30		157				0.28					7.38	10.3		893		5130	6170	2720
	12/6/1995			<2.7		22.4				<4.4		<3.4						<1		<39.2		<3.7										341	390			649	104		183				0.77					6.57	11.9		1090		5280	6890	3310
	3/20/1996			<2.7		18.5				<4.4		<3.4						<1		<19		<3										334	368			602	<99.5		154				0.25					6.55	10.6		969		5260	6340	3060
	6/25/1996			<9.6		18.8				<4.4		<6.2						<1.5		<19		7.4										337	426			673	<37.6		177				0.88					6.82	11.4		1300		5270	7230	3150
	9/18/1996			<3.4		18				<4.4		<4						<1		<19		<3										377	361			747	<88.6		192				1.16					7.13	13		1350		5790	6470	2860
	12/13/1996			<3		17.1				<22		<20						<1		<95		10.1										345	382			618	150		179				0.52					7.05	9.95		1130		5390	5450	2820
	3/21/1997			<3.3		14.3				<4.4		<7.8						<3.2		<19		<3.8										329	426			679	<30		179				0.69					7.32	11.3		1170		5420	6210	3070
	6/18/1997			<8.8		17.7				<22		<20						<1		<95		9.7										349	338			638	587		165				0.62					7.12	10.8		1240		5040	6040	2820
	12/15/1997			<3		17.6				<4.4		<4						<3.5		<19		<3										344	316			713	225		181				<0.02					7.17	9.38		1360		6220	5820	2950
	6/17/1998			<3		13				<4		<4						<1		<19		<3.6										363	369			740	360		181				0.59					7.19	12.1		1330		5820	6330	2810
	12/16/1998			<50		<14.9				<25		<50						<25		<200		<25										330	380			674	<100		181				0.37						12.9		1320		5740		1960
	6/17/1999			<10		13.8				<5		<10						<5		<40		15.1										290	441			558	<100		171				<0.1						11.8		1310		5950		3190
	12/16/1999			<10		13.2				<5		<10						<5		<40		<5										318	377			656	<100		183				0.53						12.7		1380		6580		3380
	7/13/2000			<10		384				<5		<10						<5		<40		<5										330	318			650	266		176				0.82						19		1320		6290		3000
	12/14/2000			<10		14.7				<5		<10						<5		<40		<5										306	371			420	131		174				0.27						11.3		1250		5040		2630
	6/29/2001			<10		14.4				<5		<10						<5		<40		<5										350	329			555	356		167				0.57					7.12	12.5		1360		5910	4410	2770
	12/12/2001			<10		12.6				<5		<10						<5		<40		<5										317	328			455	231		149				0.37					6.93	10.5		1160		5090	3180	2550
	6/19/2002			<18		16				<5		<13						<10		<40		<24.5										347	311			610	296		169				0.97					7.17	12.2		1320		5380	3070	3050
	12/18/2002			<10		13				<5		<10						<5		<40		<5										310	370			600	180		170				0.66					7.15	12		1300		5400	2360	2800
	6/19/2003			<10		14				<5		<10						<5		<40		<5										320	330			610	470		170				0.94					7.04	13		1400		5600	2350	3100
	12/12/2003			<10		13				<5		<10						<5		<40		6.3										330	340			650	490		170				0.97					7.15	13		1300		5700	2320	3300
	6/17/2004			<10		13				<5		<10						<5		<40		11										320	410			560	130		170				0.2					6.96	12		1200		5700	3230	3500
	12/29/2004			<10		12				<5		<10						<5		<40		9.2										350	410			570	260		180				0.46				8.6	6.99	13		1300		6000	6770	3000
	6/16/2005			<10	<10	12	12			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15									340	360	360		620	440	490	180	180			0.88				2.3	6.67	13	12	1400	1400	5700	4810	3000
	12/16/2005			<10	<10	13	13			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15									340	400	370		700	120	410	190	190			0.69				3.1	7.46	16	16	1300	1400	5900	6986	3400
	6/15/2006			<10	<10	12	13			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15									270	380	400		460	<100	150	160	180			0.18				4.9	6.56	14	15	1300	1400	5400	6178	2700
	12/7/2006		<6	<10	<10	12	13		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40	<15	<15		<25		<2	<50			<20	330	370	350		640	230	840	160	170			0.49				5.0	7.26	14	16	1400	1500	5800	6779	7400
	3/15/2007		<6		<10		11		<4		<5		<10	<50			<25		<5		<40		21		<25		<2	<50			<20																1.5	6.93						5715	
	6/21/2007		<6	<10	<10	12	11		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40	<15	<15		<25		<2	<50			<20	340	390	340		690	470	370	150	150			0.99				<0.1	6.95	12	13	1200	1300	6100	4.723	2900
	12/28/2007			<10		12				<5		<10						<5		<40		<15										350	360			730	740		160				0.61				2.1	7.37	12		1300		6000	7540	3300
	6/25/2008		<6	<10	<10	12	12		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40	7.8	6.6		<25		<2	<50			<20	300	350	340		540	960	1500	170	180			1.2				<0.4	6.92	13	13	1400	1400	5400	4616	2700
	12/19/2008		<6	<10	<10	11	12		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40	<5	<5		<25		<2	<50			<20	320	430	430		780	580	890	160	170			1.4				1.3	7.15	12	12	1200	1300	6000	6860	3300
	6/16/2009		<6		<10		13		<4		<5		<10	<50			<25		<5		<40		7		<25		<2	<50			<20																2.5	6.97						5037	
	9/2/2009		<6						<4					<50			<25								<25		<2	<50			<20																2.3	7.11						4815	
	12/4/2009		<6		<10		11		<4		<5	<10	<10	<50			<25		<5		<40		25		<25		<2	<50			<20	370	420	460		710	380	<100	170	170			1.4				1.1	7	13	12	1300	1200	5700	5637	3000
	6/24/2010		<5		<5		11		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.0	6.99						5846	
	12/17/2010		<5		<5		12		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	340	410	350		710	280	980	170	170			0.86				1.1	6.97	13	14	1200	1400	5600	5305	3200
	6/22/2011		<5		<5		11		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.6	7.17						5851	
	1/4/2012		<5		<5		12		<4		<2.3	<10	<20	<6.2			<10		<15		<20		<50		<10		<1	<10			<100	340	440	430		610	<100	<110	170	160			0.64				1.3	6.84	13	12	1200	1200	5700	5738	3500
	6/26/2012		<5		<5		12		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.0	7.04						6727	
	12/11/2012		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	350	380	350		900	330	<100	180	150			1.5				0.7	7	13	13	1200	1000	6300	5422	3500
	6/20/2013		<5		<5		10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.2	7.21						5261	
	12/12/2013		<5		<5		10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	350	370	400		680	800	180	180	170			1.3				0.6	6.77	16	13	1500	1300	5900	5495	3900
	6/24/2014		<5		<5		10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																2.8	7.27						5687	
	12/17/2014		<5		<5		10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	280	390	440		460	1000	<100	190	140			1.4				0.3	7.2	15	10	1500	960	4700	5661	2700
	6/11/2015		<5		<5		12		<4		<2		<20	<5			15		<15		<20		<50		<10		<1	<10			650																0.2	7.16						5602	
	12/10/2015		<5		<5		10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	400	420	390		850	1900	980	200	190		300	1.4				0.1	7.2	12	12	1500	1500	6300	5263	3300
	6/29/2016		<5		<5		10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.7	6.84						5382	
	12/15/2016		<5		<5		11		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	310	430	460		590	<100	<100	160	150			0.13				0.2	7.02	13	11	980	1000	5500	5288	3100
	6/8/2017		<5		<5		11		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																2.3	6.88						6220	
	12/14/2017		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	350	480	440		680	<100	<100	190	170			0.25				1.4	7.16	27	12	1100	1200	5900	5627	3400
	6/20/2018		<5		<5		11		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																2.1	7.04						5419	

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
MW-01R	12/21/2018	<5		<5		24		<4		<2	<10	<20	6.5			<10		<15		<20		<50		<10		<1	<10			<100	610	520	500		1700	<100	120	290	270			0.79				6.4	7.23	25	23	2100	2000	9200	9360	4200
	3/20/2019	<5		<5		17		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.2	7						10014	
	6/10/2019	<5		<5		19		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															1.2	7.18						9527	
	9/19/2019	<5		<5		18		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.2	6.73						8581	
	12/18/2019	<5		<5		16		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	680	520	530		1900	<100	290	310	330			1.5				0.1	6.71	23	25	2400	1800	10000	10988	4400
	3/26/2020	<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															2.5	7.2						10340	
	6/11/2020	<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															1.0	6.91						10847	
	9/14/2020	<5		<5		13		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.2	6.66						11456	
	12/1/2020	<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	730		500		2100		570		340			2.4				0.0	6.67		26		2600	18000	9351	4800
	6/10/2021	<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															2.3	7.15						10921	
	12/9/2021	<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	750		490		2300		870		330			1.4				0.3	6.71		27		2500	11000	10256	5100
	6/29/2022	<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															2.4	7.22						10421	
	12/6/2022	<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	690		490		2200		750		320			2.7				0.9	6.7		27		2200	11000	11128	4500
	6/8/2023	<5		<5		13		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															3.0	7.06						10749	
	12/28/2023	<5		<5		13		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	730		500		2200		950		330			2.3				1.6	6.65		28		2500	10000	10324	4700
	6/27/2024	<5		<5		14		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															2.9	7.11						9511	
	12/23/2024	<5		<5		13		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	670		550		2200		410		400			2.9				1.5	6.82		28		2600	9600	10024	5100
	6/26/2025	<5		<5		11		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																									
MW-02	9/20/1995		<7.8		24.3				<4.4		<5.4							<1		40.8		<3									378	470		500	790		228				0.94					7.18	11.3		1210		5610	7060	3300
	12/6/1995		<4.9		22.7				<4.4		<3.4							<1		<35.2		<3									447	438		950	1460		281				1.95					6.96	11.9		1530		7200	8520	3950
	3/20/1996		<7.1		17.1				<4.4		<4.5							<1		<26		<3									457	401		988	1620		233				1.03					6.97	11.5		1460		7520	8370	3940
	6/25/1996		<3.6		16.3				<4.4		<6.3							<1		<19		<3									436	444		969	1040		231				1.59					6.91	11.5		1700		7180	9050	3810
	9/18/1996		<8.7		14.8				<4.4		<5.9							<1		<19		<3									469	462		968	936		281				1.99					7.11	12.2		1590		7590	7320	3530
	12/13/1996		<3		16.2				<22		<20							<1		<95		<3									487	472		1080	1450		267				2.45					7.08	11.7		1680		7890	8040	3990
	3/21/1997		<3		13.3				<4.4		<6.1							<2		<20.3		<3									433	603		1070	1920		361				1.63					6.98	11.5		1550		7650	8940	4270
	6/18/1997		<7		14.7				<4.4		<5.8							<3.9		<19		<3									451	471		1100	1420		333				1.81					6.99	11.9		1730		7660	8840	3870
	12/15/1997		<3		12.3				<4.4		<4							<3.2		<19		<3									457	461		1150	1260		279				1.92					6.98	10.3		1710		8780	7550	3910
	6/17/1998		<3		9.8				<4		<4							<1		<19		<4.1									451	498		893	1330		301				1.86					6.9	14.3		1800		8080	7680	3220
	12/16/1998		<10		12.6				<5		<10							<5		<40		<5									411	450		922	1250		284				1.8						14.4		1800		7710		1930
	6/17/1999		<10		11.8				<5		<10							<5		<40		<5									424	462		1070	1300		303				1.5						15.4		1890		8240		4220
	12/16/1999		<10		11.8				<5		<10							<5		<40		<5									420	497		1170	250		293				1.3						13.6		1640		9300		4320
	7/13/2000		12.3		328				<5		<10							<5		<40		<5									381	395		780	1000		286				1						17.1		1720		7370		2790
	12/14/2000		<10		10.8				<5		<10							<5		<40		<5									436	483		1120	2210		328				1.5						15.9		1950		8180		4160
	6/29/2001		<10		10.9				<5		<10							<5		<40		<5									427	445		1080	1520		291				1.1					7.24	15.6		1870		8790	5460	3910
	12/12/2001		<10		<10				<5		<10							<5		<40		<5									356	460		476	<100		233				0.12					7.22	10.7		1280		6490	3030	3090
	6/19/2002		<18		12.1				<5		<13							<10		<40		<24.5									375	432		633	961		284				1					7.13	14.2		1760		6590	3090	3770
	12/18/2002		<10		11				<5		<10							<5		<40		<5									340	530		490	770		300				0.36					7.14	14		1700		6300	2600	3400
	6/19/2003		<10		10				<5		<10							<5		<40		5.1									340	440		450	260		280				0.78					7.08	15		1700		5900	2200	3700
	12/12/2003		<10		11				<5		<10							<5		<40		<5									420	470		1100	1300		300				1.8					7.03	15		1800		7700	3190	4200
	6/17/2004		<10		10				<5		<10							<5		<40		<5									430	480		1100	1100		320				1.6					6.85	16		2000		8300	3670	4600
	12/29/2004		<10		<10				<5		<10							<5		<40		13									430	490		1100	450		270				0.4				8.8	6.95	13		1600		8300	8590	4100
	6/16/2005		<10	<10	<10	<10		<5	<5	<10	<10							<5	<5	<40	<40	<15	<15								420	460	490	810	1300	1600	290	310			1.6				2.2	6.02	14	15	1800	1900	8100	5860	4100
	12/16/2005		<10	<10	11	11		<5	<5	<10	<10							<5	<5	<40	<40	<15	<15								430	490	470	1400	920	1600	310	310			1.8				2.7	7.37	18	18	1900	1900	7900	9156	4400
	6/15/2006		<10	<10	10	<10		<5	<5	<10	<10							<5	<5	<40	<40	<15	<15								420	460	460	1000	670	1400	290	300			1.7				3.0	6.97	17	18	1900	2000	8400	9190	4100
	12/7/2006	<6	<10	<10	10	<10	<4	<5	<5	<10	<10	<50		<25	<5	<5	<40	<40	<15	<15		<25		<2	<50		<20	440	480	450	1200	780	1800	290	280			1.4				3.1	7.21	17	19	2000	2100	8400	8869	9800
	3/15/2007	<6		<10		11	<4		<5		<10	<50		<25		<5		<40		<15		<25		<2	<50		<20																1.0	6.8						8880	
	6/22/2007	<6	<10	<10	11	<10	<4	<5	<5	<10	<10	<50		<25	<5	<5	<40	<40	<15	<15		<25		<2	<50		<20	430	520	430	1100	530	1000	290	280			1.4				<0.2	6.73	16	16	1900	1800	8200	6.845	4500
MW-02R	12/18/1998	<3		<10		17.2		<2		<5		<10			<50	<25		<5		<40		<5		<25		<10		<25	<20		457	560		517	<100		161		173	0.084		<1	<0.1			13		632		4580		2060
	6/17/2009	<6		10		25	<4		<5		<10	<50		<25		<5		<40		<5		<25		<2	<50		<20																3.4	6.88						8967	
	9/3/2009	<6		<10		19	<4		<5		<10	<50		<25		<5		<40		<5		<25		<2	<50		<20																1.9	6.95						8460	
	12/4/2009	<6		<10		16	<4		<5	<10	<10	<50		28		<5		<40		<5		<25		<2	<50		<20	720	330	270	1200	<100	1500	180	190			1.9				2.2	7.03	17	18	1300	2000	7000	6380	3300
MW-02R	3/19/2010	<6		<10		17	<4		<5		<10	<50		<25		<5		<40		<5		<25		<2	<50		<20																2.8	7.18						9203	
	6/25/2010	<5		9.6		22	<4		<2		<20	<5		14		<15		<20		<50		<10		<1	<10		<100																2.9	6.87						8380	
	9/17/2010	<5		6.7		21	<4		<2		<20	<5		11		<15		<20		<50		<10		<1	<10		<100																5.0	6.99						5881	
	12/17/2010	<5		7.6		19	<4		<2	<10	<20	<5		13		<15		<20		<50		<10		<1	<10		<100	800	250	260	860	6100	6100	160	160			1.2				3.0	6.88	16	17	1600	1800	5400	5263	2800

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	12/10/2015		<5		<5		29		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10		<100	300	84	79		27	<100	<100	38	35		17	<0.1				6.3	7.31	6.4	6.5	160	150	840	1907	370
	6/30/2016		<5		<5		26		<4		<2		<20	6			<10		<15		22		<50		<10		<1	<10		<100															3.7	7.15						3245	
	8/2/2016													<5							<20																							6.4	7.05						2929	
	12/15/2016																																																							
	6/8/2017		<5		<5		24		<4		<2		<20	<5			<10		<15		20		<50		<10		<1	<10		<100															0.9	7.2						1865	
MW-07	3/10/1998			<3		22.1			<4		<4							<1		<19		8.8										334	245		225	<30		151			0.19					7.36	7.98		953		2790	4160	2630
	6/23/1998																																																							
	12/16/1998			<10		19.3			<5		<10							<5		<40		9.6										300	177		177	<100		131			<0.014					11.9			881		3960		1740
	2/28/2024		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10		<100															1.2	6.67						5887	
	7/2/2024		<5		<5		17		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10		<100															3.0	6.95						4787	
	3/26/2025		<5		<5		13		<4		<2		<20	5.3			<10		<15		<20		<50		<10		<1	<10		<100																								
MW-08	9/21/1995			<8.5		31.3			<4.4		<3.4							<1		<19		<3										367	442		247	<40.8		229			2.58					7.44	14.8		1040		5150	5610	3120
	12/6/1995			<4		25.9			<4.4		<3.4							<1		<23.8		<3										372	383		286	<30		203			2.71					7.46	13		949		5110	6130	3410
	3/20/1996			<10.8		22.3			<4.4		<3.4							<1		<19		<3										345	410		324	<30		181			2					7.18	12.6		1080		5160	5740	3320
	7/1/1996																																																						
	9/24/1996			<4.4		14.5			<4.4		<4							<1		<19		<3											421			<30		192								7.43	12.6		1100			5900	
	12/19/1996			<3		13.3			<4.4		<4							<1		<19		<3										326	437		383	<30		219			0.75					7.57	11.8		1110		5260	6440	3210
	3/21/1997			<3		15.6			<4.4		<9.2							<1		<19		<3										424	501		31.1	<56.6		376			0.37					6.9	13.4		367		4900	4930	3510
	6/18/1997			<8.5		10.7			<4.4		<8.3							<1.7		<19		<3										449	517		53.6	<51.4		450			0.3					6.94	13.8		448		5020	5160	3260
	12/15/1997			<3		22			<4.4		<4							<1.7		<19		<3										318	425		59.3	<30		230			0.1					6.95	8.45		365		3800	3610	2510
	6/17/1998			<4.8		16.6			<4		<5.3							<1		<19		<3										407	500		56.4	<44.8		315			0.41					7.22	12.3		438		4900	4670	3000
	12/16/1998			<10		16.3			<5		<10							<5		67.2		<5										419	462		35.4	355		373			0.46						15.8		478		5190		2220
	6/17/1999			<10		15.6			<5		<10							<5		56.4		<5										371	482		70.9	579		384			0.48						16.8		493		4770		3570
	12/16/1999			<10		12.6			<5		<10							<5		<40		<5										421	455		160	118		309			1.3						14.3		723		6100		3220
	7/13/2000			<10		280			<5		<10							<5		<40		6										365	436		90	<100		339			0.1						16.9		558		2800		3800
	12/14/2000			<10		10.9			<5		<10							<5		<40		<5										404	500		89	<100		366			0.1						15.6		598		5560		3380
	6/29/2001			<10		11.5			<5		<10							<5		<40		<5										371	463		81.5	<100		335			0.13					7.76	15.1		595		5880	3520	3180
	12/12/2001			<10		<10			<5		<10							<5		<40		<5										394	466		85.9	<100		327			0.21					7.57	13.5		555		5340	2490	2940
	6/19/2002			<10		11			<5		<10							<5		<40		<5										400	440		61	<100		321			0.25					7.05	14		536		5160	2100	3400
	12/18/2002			<10		<10			<5		<10							<5		<40		<5										390	530		84	<100		370			0.28					7.22	17		700		5200	1980	3000
	6/19/2003			<10		<10			<5		<10							<5		<40		<5										400	460		76	<100		350			0.12					7.03	16		620		5300	1748	3300
	12/12/2003			<10		<10			<5		<10							<5		<40		<5										430	490		120	<100		330			0.19					7.23	16		630		5200	1596	3400
	6/17/2004			<10		<10			<5		<10							<5		<40		5.6										410	510		45	110		370			0.18					6.96	16		590		5400	2290	3300
	12/29/2004			<10		<10			<5		<10							<5		<40		<5										440	550		60	<100		420			0.16				8.6	6.67	17		530		5400	4660	3500
	6/16/2005			<10	<10	<10	<10		<5	<5	<10	<10						<5	<5	<40	<40	<15	<15									430	490	530	52	100	130	360	390		<0.1			3.7	6.7	15	16	520	560	5400	3710	3000
	12/16/2005			<10	<10	10	<10		<5	<5	<10	<10						<5	<5	<40	<40	<15	<15									430	480	470	190	940	1300	310	310		2.4			4.5	7.6	17	17	850	770	5400	6030	3400
	6/15/2006			<10	<10	<10	<10		<5	<5	<10	<10						<5	<5.2	<40	<40	<15	<15									460	420	430	180	1000	2800	260	270		1.9			3.2	7.07	15	15	560	580	5500	5695	3100
	3/16/2007	<6		<10		10	<4		<5		<10	<50	<25		<5		<40		<15	<25	<2	<50	<20																					0.6	6.64						4952	
	6/22/2007	<6	<10	<10	<10	<10	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<15	<15	<25	<2	<50	<20	520	500	450	90	3900	3900	350	350		0.14										0.5	6.7	17	17	610	600	5600	4.815	3300
MW-08	12/28/2007		<10		<10				<5		<10							<5		<40		<15			570	470		120	12000		320			0.79										<0.3	6.7	16		740		5400	4820	3300
	6/26/2008	<6	<10	<10	<10	<10	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<5	<5	<25	<2	<50	<20	530	470	480	91	1900	850	370	380		0.17										1.4	6.75	17	17	640	630	5700	4750	3300
	12/23/2008	<6	<10	<10	<10	<10	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<5	<5	<25	<2	<50	<20	520	460	450	130	2500	1700	360	350		0.69										1.0	6.92	17	18	780	800	5500	6997	3700
	6/17/2009	<6		<10		<10	<4		<5		<10	<50	<25		<5		<40		<5	<25	<2	<50	<20																					2.4	7.01						4294	
	9/3/2009	<6		<10		<10	<4		<5		<10	<50	<25		<5		<40		<5	<25	<2	<50	<20																					0.9	6.77						5112	
	12/4/2009	<6		<10		<10	<4		<5	<10	<10	<50	<25		<5		<40		<5	<25	<2	<50	<20	560	510	510	97	370	4900	440	440		0.28										0.8	6.87	20	19	670	680	5500	5487	3400
	3/18/2010	<6					<4					<50	<25							<25	<2	<50	<20																					3.6	6.97						5360	
	6/24/2010	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																					0.5	6.9						5019	
	12/17/2010	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	540	470	480	120	7900	6700	330	330		0.68										5.9	6.76	16	17	650	700	5300	5066	3400
	6/24/2011	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																					3.6	7.02						5089	
	12/7/2012	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	510	410	420	180	1400	2300	270	280		1.1										2.7	5.27	16	18	720	780	5500	4506	3200
	6/26/2014	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																					3.2	7.15						6340	
	3/27/2015	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																					0.4	6.71						6196	
	6/5/2015	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																					8.6	7.08						4658	
MW-08R	9/22/2016	<5		<5		19	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																					4.6	6.94						4987	

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	<5 Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	6/19/2002			<18		10.2				<5		<13						<10		<40		<24.5																																
	12/18/2002			<10		<10				<5		<10						<5		<40		<5										450	540			420	<100		200				<0.1					7.41	10		1000		5400	2310	2800
	6/19/2003			<10		<10				<5		<10						<5		<40		<5										670	490			410	690		200				0.19					6.64	11		960		5400	2010	3000
	12/12/2003			<10		<10				<5		<10						<5		<40		<5										640	520			400	250		200				0.21					6.74	11		920		5500	1697	2900
	6/17/2004			<10		<10				<5		<10						<5		<40		<5										570	540			380	1500		210				0.23					6.78	12		970		5600	2600	2900
	12/29/2004			<10		<10				<5		<10						<5		<40		<5										680	560			380	1600		210				0.18				9.2	6.08	11		980		5800	5650	3100
	6/16/2005			<10	<10	<10	<10			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15									570	540	560		290	1900	2700	200	210			0.23				4.8	6.48	11	11	940	990	5400	4660	3200
	12/16/2005			<10	<10	<10	<10			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15									580	590	550		350	1900	2200	220	210			0.3				3.3	7.26	13	13	950	940	5400	6206	3000
	6/15/2006			<10	<10	<10	<10			<5	<5	<10	<10					<5.2	<5.2	<40	<40	<15	<15									560	540	540		330	1600	2000	190	200			0.21				4.1	6.96	12	12	940	940	5700	6007	2900
	12/7/2006	<6	<10	<10	<10	<10	<10	<4	<5	<5	<5	<10	<10	<50		<25	<5	<5	<5	<40	<40	<15	<15		<25	<2	<50			<20	<20	550	520	520		390	1600	2400	190	190			0.17				4.2	6.92	12	13	1000	1000	5500	6319	7600
	3/16/2007	<6		<10		11	<4		<5		<10	<50				<25		<5		<40		<15	<15	<25	<2	<50			<20																	2.2	6.8					5380	
	6/22/2007	<6	<10	<10	<10	<10	<10	<4	<5	<5	<10	<10	<10	<50		<25	<5	<5	<5	<40	<40	<15	<15	<25	<25	<2	<50			<20	<20	440	500	450		370	<100	<100	160	160			<0.1				1.1	6.78	9.7	9.6	920	900	5400	5.128	3500
	12/28/2007		<10		10				<5		<10						<5		<40		<15										650	510			370	1200		190				0.33				1.4	6.49	11		990		5500	6450	3300
	6/27/2008	<6	<10	<10	<10	<10	<10	<4	<5	<5	<10	<10	<10	<50		<25	<5	<5	<5	<40	<40	<5	<5	<25	<25	<2	<50			<20	<20	690	490	510		380	580	1500	180	190			0.21				2.0	6.72	8.9	11	960	1000	5500	5053	3100
	12/23/2008	<6	<10	<10	<10	<10	<10	<4	<5	<5	<10	<10	<10	<50		<25	<5	<5	<5	<40	<40	<5	<5	<25	<25	<2	<50			<20	<20	640	460	490		390	1100	1800	190	200			0.54				3.4	6.9	10	12	970	1100	5400	7663	3200
	6/17/2009	<6		<10		10	<4		<5		<10	<50				<25		<5		<40		<5		<25	<2	<50			<20																	1.7	6.66					5279	
	9/4/2009	<6					<4							<50		<25								<25	<2	<50			<20																	2.6	6.99					5112	
	12/22/2009	<6		<10		<10	<4		<5	<10	<10	<50				<25		<5		<40		<5		<25	<2	<50			<20			680	500	510		390	980	3300	180	190			0.28				2.4	6.96	11	12	980	1000	5400	5707	3000
	3/19/2010	<6					<4							<50		<25								<25	<2	<50			<20																	4.6	7.02					6038	
	6/24/2010	<5		<5		<10	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	2.5	6.8					5462	
	12/16/2010	<5		<5		<10	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	680	520	440		400	660	1000	180	160			0.2				9.3	6.9	10	11	1000	940	5200	5742	3200
	6/24/2011	<5		<5		<10	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	5.0	7.15					5397	
	1/5/2012	<5		<5		<10	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	690	500	490		400	1200	2200	180	180			0.36				2.1	6.9	11	11	970	950	5400	3954	3100
	6/26/2012	<5		<5		<10	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	3.7	6.72					3237	
	12/7/2012	<5		<5		<10	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	670	530	490		390	2300	1900	190	180			0.28				2.9	6.37	13	13	1000	980	5200	4618	2800
MW-11	6/20/2013	<5		<5		<10	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	2.9	7.24					4588	
	12/12/2013	<5		<5		<10	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	560	490	520		380	280	730	180	190			0.25				1.8	7.13	12	11	960	960	5300	3372	3700
	6/26/2014	<5		<5		<10	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	2.0	7.13					5860	
	12/17/2014	<5		<5		<10	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	680	510	530		380	680	290	190	200			0.28				1.2	6.8	12	12	940	980	5300	3950	3000
	6/11/2015	<5		<5		15	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.6	6.98					4012	
MW-11R	9/2/2015	<5		<5		14	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	2.7	7.63					3829	
	12/10/2015	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	420	280	260		150	<100	1700	110	100	52	1.7					3.2	7.12	8.9	8.6	730	670	3300	4202	1900
	2/5/2016	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	2.2	7.08					4123	
	6/29/2016	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	3.6	7.23					4112	
	9/22/2016	<5		<5		13	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.2	6.91					4026	
	12/14/2016	<5		<5		13	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	430	240	260		150	1400	2700	93	100	37	1.2					0.2	7.14	7.7	8.9	600	640	3300	4016	1900
	3/21/2017	<5		<5		14	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	1.0	7.28					3369	
	6/8/2017	<5		<5		13	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.8	7.17					4018	
	12/14/2017	<5		<5		13	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	430	250	250		160	440	1200	98	95		0.66					0.4	7.06	14	8.6	620	690	3200	3896	2000
	6/20/2018	<5		<5		11	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.2	6.99					4257	
	12/21/2018	<5		<5		13	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	410	260	280		150	2300	1800	93	97		1.1					3.1	7.06	8.9	9.2	720	710	3400	4287	1900
	6/10/2019	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.2	6.85					4305	
	12/18/2019	<5		<5		12	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	440	270	270		160	400	1200	97	98		0.82					0.7	6.97	8.4	8.3	660	660	3400	4089	1800
	6/12/2020	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.5	7.13					4334	
	12/1/2020	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	420		280		140		1400		100		0.95					1.1	6.84		8.4		700	3400	4276	1900
	6/10/2021	<5		<5		10	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	1.4	7.18					4463	
	12/9/2021	<5		<5		13	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	430		280		160		1900		98		0.77					2.3	7.01		8.4		710	3500	3952	2000
	6/29/2022	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	0.9	7.2					4067	
	12/6/2022	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	450		280		160		2200		100		0.82					1.9	6.94		8.8		710	3300	4245	1900
	6/8/2023	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	1.2	7.08					3891	
	12/28/2023	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	440		270		170		940		99		0.42					3.8	7.07		9		710	3300	3822	1800
	6/27/2024	<5		<5		12	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																	1.0	7.14					3560	
	12/13/2024	<5		<5		11	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100	410		270		170		3400		100		1.4					1.4	7.05		9.5		730	3300	3600	2000
	6/26/2025	<5		<5		11	<4		<2		<20	<5				<10		<15		<20		<50		<10	<1	<10			<100																										
MW-12	12/12/1995		<7.7		48.3			<4.4		<3.4							<1		<19		<3.7										481	183			674	<34.6		80.6				2.08					7.59	16.3		1540		5220	6320	2860

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID	Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
12/21/2018	<5		<5		17		<4		<2		<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	430	400	250		110	210	860	150	110		2				1.8	6.65	14	12	530	660	3600	3465	2100
3/20/2019	<5		<5		17		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.4	7.15						2728	
6/10/2019	<5		<5		17		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.6	6.63						3018	
12/18/2019	<5		<5		16		<4		<2		<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	460	330	280		130	280	660	130	120		1.3				0.6	6.8	13	12	550	610	3700	3949	2000
6/12/2020	<5		<5		15		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															1.6	7.18						2780	
12/1/2020	<5		<5		14		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	400		300		100		1000		120		1.6				0.7	6.86		12		550	3400	3520	2000
6/10/2021	<5		<5		14		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															3.6	7.62						3086	
12/8/2021	<5		<5		16		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	450		310		150		1200		130		1.5				0.6	6.97		14		640	3500	2400	2100
6/29/2022	<5		<5		14		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.9	7.58						3084	
12/6/2022	<5		<5		17		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	390		330		150		<100		130		0.15				0.9	6.85		17		610	3300	4227	2000
6/7/2023	<5		<5		14		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															0.3	6.91						3139	
12/28/2023	<5		<5		14		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	430		310		130		530		130		0.94				0.7	6.56		14		470	3400	3659	2000
7/2/2024	<5		<5		15		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100															1.0	6.62						2140	
12/13/2024	<5		<5		15		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	410		280		150		1300		120		2.5				0.2	6.53		14		690	3200	2977	2000
6/26/2025	<5		<5		14		<4		<2			<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																									

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
MW-14	12/16/1994				<3		15				3.7		<3				<7		<1		<9		<3		<10					<4	7.7	505	523	300	72.6	<23.3		138		108	222	0.61	0.089	0.8				7.02	9.54	476		3550	3700	2270
	3/24/1995				<3	15.7	27.9			<3	<3	<4	24.2			<7	<7		4	<16.2	162		<3	11.4	<10					<4		486	444	416	68	389		156		155	229	0.66	0.12	0.5				6.65	9.19	484		3350	3970	2200
	6/22/1995				<3	15.4	17.6				<3		3.9			<7			<1	<9	<9		<3							<4		501	475		70.4	208		157				0.7						6.83	9.42	487		3600	4100	2280
	9/20/1995			<7.7		23.8				<4.4		<3.4						<1		<19		<3									500	349		82.3	<99.7		178				0.8						7.05	9.24	505		4140	4150	2070
	12/6/1995			<4.6		25.5				<4.4		<8.5						<1		<19		<3									540	316		135	<35		123				1.16						6.91	8.93	747		3380	4680	2370
	3/20/1996			<2.7		19.2				<4.4		<3.4						<1		<19		<3									539	282		145	<67.6		109				0.96						7.03	8.31	658		3750	4670	2300
	6/25/1996			<2.7		21.5				<4.4		<3.4						<1		<19		<3									515	360		176	138		136				1.81						6.74	8.31	792		3600	5310	2370
	9/18/1996			<3.1		17.8				<4.4		<4						<1		<19		<3									560	349		151	<30		118				0.56						7.13	10.1	793		3990	4260	2270
	12/13/1996			<3		17.2				<22		26.2						<1		<95		<3									532	347		147	150		129				0.91						7.12	8.16	745		3790	4080	2200
	3/21/1997			<3.1		18.9				<4.4		<4.1						<3.5		<19		<3									493	342		177	179		128				1.12						6.98	8.53	700		3720	4200	2440
	6/18/1997			<3		19.8				<4.4		<4.5						<2		<19		<3									512	322		211	<41.2		131				1.59						6.98	9.34	744		3740	4080	2260
	12/15/1997			<3		14.3				<4.4		<4						<1		<19		<3									509	388		130	<52.1		146				0.43						6.82	7	558		3700	3700	1950
	6/17/1998			<3		16.4				<4		<4						<1		<19		6									533	348		181	194		134				1.06						6.89	8.44	786		3950	4360	2140
	12/16/1998			<10		18.2				<5		<10						<5		<13.1		<5									473	352		160	<100		138				0.85							10.8	912		4130		1960
	6/17/1999			<10		19.7				<5		<10						<5		<40		<5									500	353		115	394		143				1.1							9.77	705		4000		2350
	12/16/1999			<10		11.6				<5		<10						<5		<40		<5									484	429		222	<100		172				0.99							9.98	523		4640		2200
	7/13/2000			11.8		389				<5		<10						<5		<40		<5									459	337		150	<100		150				1.3							11	671		8380		2020
	12/14/2000			<10		15				<5		<10						<5		<40		<5									495	369		126	551		155				1							10.3	697		4120		2100
	6/29/2001			<10		<10				<5		<10						<5		<40		<5									449	453		109	<100		180				0.45						7.3	10.3	551		4660	3360	2810
	12/12/2001			<10		<10				<5		<10						<5		<40		<5									456	465		94	330		182				0.44						6.96	9.43	510		4400	2380	2250
	6/19/2002			<18		13				<5		<13						<10		<40		<24.5									472	404		105	<100		165				0.9						6.69	10.3	609		4240	2110	2450
	12/18/2002			<10		16				<5		<10						<5		<40		<5									500	460		110	1900		190				1.1						6.93	12	720		4200	2080	2700
	6/19/2003			<10		<10				<5		<10						<5		<40		<5									510	450		90	330		190				0.72						6.69	11	550		4100	1717	2500
	12/12/2003			<10		15				<5		<10						<5		<40		<5									500	390		130	230		160				1.4						6.96	11	680		4100	1615	2500
	6/17/2004			<10		<10				<5		<10						<5		<40		<5									480	480		79	100		190				0.51						6.72	11	530		4300	2380	2500
	12/29/2004			<10		<10				<5		<10						<5		<40		<5									500	490		95	190		190				0.57					8.1	6.71	12		590		4300	4260	2500
	6/16/2005			<10	<10	<10	<10			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15								470	450	470	89	<100	420	180	180		0.49					4.4	6.88	10	10	530	550	4300	3570	2400
	12/16/2005			<10	<10	12	12			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15								470	400	390	140	<100	160	160	160		0.57					3.7	7.24	12	12	710	760	4300	4640	2500
	6/15/2006			<10	<10	<10	<10			<5	<5	<10	<10					<5	<5.2	<40	<40	<15	<15								470	480	470	110	<100	100	180	180		0.51					3.6	7.09	12	11	550	560	4300	4469	2400
	12/7/2006	<6	<10	<10	11	13	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<15	<15	<25	<2	<50	<20	470	390	380	130	<100	180	150	140		0.53					4.7	7.22	11	13	730	800	4200	4715	6000
	3/16/2007	<6		<10		11	<4		<5		<10	<50	<25		<5		<40		<15	<25	<2	<50	<20																						0.7	6.71					4284	
	6/22/2007	<6	<10	<10	11	10	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<15	<15	<25	<2	<50	<20	470	450	380	98	<100	240	160	150		0.57					0.5	6.69	11	10	630	600	4400	4.167	2600
	12/28/2007		<10		11				<5		<10			<5		<40		<15					480	450		110	250		170			0.63					3.1	6.94	11		610		4100	4350	2800
	6/27/2008	<6	<10	<10	<10	<10	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<5	<5	<25	<2	<50	<20	480	480	480	100	<100	1800	190	190		0.35					0.5	6.64	10	12	580	610	4300	4119	2500
	12/19/2008	<6	<10	<10	10	12	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<5	<5	<25	<2	<50	<20	480	440	440	140	<100	1700	170	170		1					6.5	6.75	11	11	670	720	4200	5095	2800
	6/16/2009	<6		<10		<10	<4		<5		<10	<50	<25		<5		<40		<5	<25	<2	<50	<20																						<0.2	6.46					4103	
	9/1/2009	<6					<4					<50	<25							<25	<2	<50	<20																						<0.3	6.77					4166	
	12/1/2009	<6		<10		11	<4		<5	<10	<10	<50	<25		<5		<40		<5	<25	<2	<50	<20	500	450	410	100	<100	470	180	160		0.97					0.5	6.67	12	13	640	710	4100	4413	2500
	3/16/2010	<6					<4					<50	<25							<25	<2	<50	<20																						0.2	6.77					4875	
	6/22/2010	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<20																						0.4	6.85					5140	
	12/15/2010	<5		<5		11	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	530	430	440	120	<100	600	180	180		0.59					6.1	6.69	14	13	720	700	4200	5539	2600
	6/23/2011	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						5.0	7.1					3474	
	12/30/2011	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	560	410	400	120	350	1800	160	160		0.95					0.9	6.75	12	12	700	700	4200	4624	2700
	6/26/2012	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						0.4	6.79					4576	
	12/11/2012	<5		<5		11	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	640	380	400	120	900	2600	150	170		4.7					0.1	6.73	12	12	630	550	4100	4631	2600
	6/20/2013	<5		<5		10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						2.4	6.9					4141	
	12/12/2013	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	520	460	460	80	3000	3200	180	180		0.79					1.7	6.68	13	11	580	550	4200	4313	3200
	6/24/2014	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						0.3	6.84					4722	
	12/17/2014	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	540	450	440	97	1800	5000	180	180		1.4					1.5	6.38	12	11	580	630	4200	4150	2500
	6/11/2015	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						1.9	6.93					4758	
	12/10/2015	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	530	510	470	89	<100	1000	200	190	160	0.56					1.3	6.77	11	10	620	620	4100	4588	2500
	6/29/2016	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						0.3	6.75					4564	
	12/15/2016	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	530	430	450	99	300	2000	170	170		0.52					0.2	6.88	12	11	560	610	4200	4634	2600
MW-14	6/8/2017	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						0.2	6.71					4491	
	12/14/2017	<5		<5		10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	290	430	390	120	140	930	170	170		0.97					0.2	6.64	22	12	640	770	4100	4409	2600
	6/20/2018	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																						0.1	6.73					4666	
	12/21/2018	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	480	430	450	85	570	590	160	170		0.7					0.1	6.63	12	12	670	650	4300	4458	2600

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)
	6/11/2019		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	12/18/2019		<5		<5		10		<4		<2	<10	<20	<5			<10		<15		<20
	6/12/2020		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	12/1/2020		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	6/10/2021		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	12/8/2021		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	6/29/2022		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	12/6/2022		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	6/7/2023		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	12/28/2023		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	7/2/2024		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	12/13/2024		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
	6/26/2025		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20
MW-15	3/29/1995																				
	6/27/1995																				
	9/26/1995			11		29.9				<4.4		<3.4						6.5		<26.7	
	12/12/1995			<2.7		21.8				<4.4		<3.4						<1		<34.3	
	3/26/1996																				
	6/24/1997																				
	9/24/1997			<3		13.2				<4.4		<4						<2.7		<33	
	12/15/1997			<3		23.1				<4.4		<4						<1		<27.8	
	3/10/1998			<3		16.6				<4		<4						<1		<21.5	
	6/23/1998			<3		16				<4		<4						<1		<19	
	9/15/1998			<4.1		17.3				<4		<4.2						<1		<19	
	12/16/1998			<10		12				<5		<10						<5		<40	
	6/17/1999			<10		17.3				<5		<10						<5		<40	
	12/16/1999			<10		19.9				<5		<10						<5		<40	
	7/13/2000			<10		438				<5		<10						<5		<40	
	12/14/2000			<10		24.2				<5		<10						<5		51.9	
	6/29/2001			<10		15.3				<5		<10						<5		42.8	
	8/29/2001																				
	12/12/2001			<10		14.1				<5		<10						<5		53.6	
	6/19/2002			<18		15.1				<5		<13						<10		<40	
	12/18/2002			<10		14				<5		<10						<5		<40	
	6/19/2003			<10		14				<5		<10						<5		<40	
	8/5/2003																				
	6/17/2004			<10		14				<5		<10						<5		<40	
	12/29/2004			<10		13				<5		<10						<5		<40	
	6/16/2005			<10	<10	15	18			<5	<5	<10	<10					<5	<5	<40	<40
	12/16/2005			<10	<10	18	21			<5	<5	<10	<10					<5	<5	<40	<40
	3/16/2007		<6		<10		21		<4		<5		<10	<50			<25		<5		<40
	6/22/2007		<6	<10	<10	18	18		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40
	12/28/2007			<10		15				<5		<10						<5		<40	
	6/27/2008		<6	<10	<10	15	14		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40
	12/19/2008		<6	<10	<10	15	17		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40
	6/16/2009		<6		<10		22		<4		<5		<10	<50			<25		<5		<40
	9/1/2009		<6		<10		21		<4		<5		<10	<50			<25		<5		<40
	12/1/2009		<6		<10		40		<4		<5	<10	<10	<50			<25		<5		<40
MW-15	3/16/2010		<6						<4					<50			<25				
	6/22/2010		<5		<5		18		<4		<2		<20	<5			<10		<15		<20
	9/17/2010		<5						<4					<5			<10				
	12/16/2010		<5		<5		17		<4		<2	<10	<20	<5			<10		<15		<20
	6/23/2011		<5		<5		15		<4		<2		<20	<5			<10		<15		<20
	6/26/2012		<5		<5		16		<4		<2		<20	<5			<10		<15		<20
	12/11/2012		<5		<5		30		<4		<2	<10	<20	<5			<10		<15		<20
	6/20/2013		<5		<5		28		<4		<2		<20	<5			<10		<15		<20

Well ID		Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)
	6/11/2019		<50		<10		<1	<10			<100							
	12/18/2019		<50		<10		<1	<10			<100	500	470	420		76	<100	900
	6/12/2020		<50		<10		<1	<10			<100							
	12/1/2020		<50		<10		<1	<10			<100	480		410		96		1600
	6/10/2021		<50		<10		<1	<10			<100							
	12/8/2021		<50		<10		<1	<10			<100	520		430		120		1500
	6/29/2022		<50		<10		<1	<10			<100							
	12/6/2022		<50		<10		<1	<10			<100	500		410		130		1800
	6/7/2023		<50		<10		<1	<10			<100							
	12/28/2023		<50		<10		<1	<10			<100	470		410		120		1700
	7/2/2024		<50		<10		<1	<10			<100							
	12/13/2024		<50		<10		<1	<10			<100	460		410		120		650
	6/26/2025		<50		<10		<1	<10			<100							
MW-15	3/29/1995																	
	6/27/1995																	
	9/26/1995	<3										357	399			382	3940	
	12/12/1995	<3										364	452			394	600	
	3/26/1996																	
	6/24/1997																	
	9/24/1997	<3											442				172	
	12/15/1997	<3										297	363			308	539	
	3/10/1998	<3										321	395			160	<30	
	6/23/1998	<3										292	386			341	<30	
	9/15/1998	<3										311	401			361	<30	
	12/16/1998	<5										282	396			284	<100	
	6/17/1999	<5										327	354			319	176	
	12/16/1999	<5										347	386			390	946	
	7/13/2000	<5										356	344			420	<100	
	12/14/2000	<5										368	431			420	1700	
	6/29/2001	9.5										243	403			292	<100	
	8/29/2001	<5																
	12/12/2001	<5										326	394			380	<100	
	6/19/2002	<24.5										290	393			370	<100	
	12/18/2002	<5										350	440			410	<100	
	6/19/2003	7.1										240	410			310	<100	
	8/5/2003	6.4																
	6/17/2004	<5										280	400			330	<100	
	12/29/2004	16										280	460			270	<100	
	6/16/2005	<15	<15									230	430	440		220	<100	1200
	12/16/2005	<15	<15									360	430	400		290	<100	1300
	3/16/2007		<15		<25		<2	<50			<20							
	6/22/2007	<15	<15		<25		<2	<50			<20	230	330	310		180	<100	<100
	12/28/2007	<15										280	320			160	<100	
	6/27/2008	5.4	5		<25		<2	<50			<20	310	350	330		170	<100	<100
	12/19/2008	<5	<5		<25		<2	<50			<20	310	370	360		160	<100	330
	6/16/2009		<5		<25		<2	<50			<20							
	9/1/2009		<5		<25		<2	<50			<20							
	12/1/2009		<5		<25		<2	<50			<20	350	260	260		140	450	900
MW-15	3/16/2010				<25		<2	<50			<20							
	6/22/2010		<50		<10		<1	<10			<100							
	9/17/2010				<10		<1	<10			<100							
	12/16/2010		<50		<10		<1	<10			<100	320	330	290		130	<100	140
	6/23/2011		<50		<10		<1	<10			<100							
	6/26/2012		<50		<10		<1	<10			<100							
	12/11/2012		<50		<10		<1	<10			<100	510	300	310		230	400	370
	6/20/2013		<50		<10		<1	<10			<100							

Well ID		Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	6/11/2019									0.6	6.79						3976	
	12/18/2019	170	160			0.54				0.1	6.73	11	11	570	680	4400	4740	2500
	6/12/2020									0.1	6.81						3795	
	12/1/2020		160			0.67				0.7	6.59		11		690	4400	3965	2500
	6/10/2021									0.0	7.16						4450	
	12/8/2021		170			0.95				0.2	6.68		11		710	4400	4309	2700
	6/29/2022									0.2	7.25						4450	
	12/6/2022		160			1				0.2	6.65		12		780	4100	4575	2600
	6/7/2023									0.2	6.83						4127	
	12/28/2023		160			0.94				0.1	6.65		12		770	4200	4227	2300
	7/2/2024									0.2	6.88						3705	
	12/13/2024		170			1.1				0.1	6.79		12		830	4200	4018	2600
	6/26/2025																	
MW-15	3/29/1995																	
	6/27/1995																	
	9/26/1995	142				0.54					6.58	16.6		821		4410	5850	2790
	12/12/1995	176				0.45					7.31	15.2		1040		4910	5450	3230
	3/26/1996										7.37						5820	
	6/24/1997										6.84						6090	
	9/24/1997	148									6.61	12.1		1050			5920	
	12/15/1997	135				<0.02					7.4	8.57		817		4500	4720	2550
	3/10/1998	123				0.05					7.53	7.67		992		4240	4100	669
	6/23/1998	111				<0.02					7.63	10.2		948		4810	4640	2700
	9/15/1998	142				0.1					7.58	10.6		979		4750	5320	2410
	12/16/1998	164				0.14						10.4		592		4310		2160
	6/17/1999	135				0.29						10.9		976		4620		2710
	12/16/1999	149				0.46						11.1		1000		5550		2660
	7/13/2000	146				0.53						15.1		985		2670		3100
	12/14/2000	169				0.3						12.5		1110		5390		2880
	6/29/2001	158				0.18					7.92	11.9		958		5500	4060	2840
	8/29/2001										7.35						4040	
	12/12/2001	148				0.42					7.27	11		999		5390	3060	2670
	6/19/2002	156				0.41					7.17	11.4		1020		5230	2690	3060
	12/18/2002	170				0.57					7.1	12		1100		5400	2440	2800
	6/19/2003	170				0.1					7.19	12		950		4900	2000	2900
	8/5/2003										7.04						2390	
	6/17/2004	160				0.45					7.08	12		1000		5100	2550	2900
	12/29/2004	180				<0.1				8.3	6.95	12		860		5000	4900	3000
	6/16/2005	180	180			0.12				4.5	6.55	11	11	770	790	4800	3070	2700
	12/16/2005	170	160			1.2				3.6	7.36	14	14	1000	960	5000	6046	3000
	3/16/2007									4.3	7.2						5187	
	6/22/2007	120	120			1.2				<0.4	7.1	9.8	10	550	590	4200	3.364	2500
	12/28/2007	130				0.4				1.0	6.83	10		610		3900	4870	2500
	6/27/2008	140	140			0.14				1.4	6.94	9.4	10	560	610	3900	3292	2400
	12/19/2008	140	140			0.8				<0.3	7.08	11	11	720	770	3900	5549	2500
	6/16/2009									4.1	7						2897	
	9/1/2009									1.7	7.12						3102	
	12/1/2009	110	110			3.7				2.0	7.03	11	12	670	850	3300	3056	1900
MW-15	3/16/2010									2.4	7.21						2790	
	6/22/2010									2.8	7.18						3859	
	9/17/2010									1.6	6.8						3803	
	12/16/2010	130	110			0.11				22.2	7.08	11	10	670	640	3300	4004	2300
	6/23/2011									7.4	7.41						2853	
	6/26/2012									1.4	6.93						2814	
	12/11/2012	110	120			9.4				0.1	7.14	13	13	740	870	4000	4602	3400
	6/20/2013									2.5	7.25						5124	

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	6/21/2007		<6	<10	<10	11	11		<4	<5	<5	<10	<10	<50			<25	<5	<5	<40	<40	<15	<15		<25		<2	<50			<20	490	490	460	1300	<100	<100	520	520			0.52			<0.4	6.69	24	24	1400	1400	9000	8.073	3900
	12/28/2007			<10		13				<5		<10						<5		<40		<15									560	550		1600	<100		660				1.2			1.1	6.77	26		1700		10000	11450	5100
	6/25/2008		<6	<10	<10	10	10		<4	<5	<5	<5	<10	<50			<25	<5	<5	<40	<40	<5	<5		<25		<2	<50			<20	580	540	530	1700	<100	<100	690	690			0.86			<0.4	6.6	26	26	1600	1600	9800	9240	4700
	12/18/2008		<6	<10	<10	13	14		<4	<5	<5	<5	<10	<50			<25	<5	<5	<40	<40	<5	<5		<25		<2	<50			<20	570	590	590	2000	<100	120	690	700			1.8			<0.2	6.79	28	27	1800	1700	9800	13930	5000
	6/16/2009		<6		<10		11		<4		<5		<10	<50			<25		<5		<40		<5		<25		<2	<50			<20														3.7	7.01						8414	
	9/2/2009		<6				<4							<50			<25								<25		<2	<50			<20														0.6	6.73						10050	
	12/2/2009		<6		<10		15		<4		<5	<10	<10	<50			<25		<5		<40		<5		<25		<2	<50			<20	630	550	560	2000	660	1000	650	690			1.6			0.5	6.6	30	29	1900	1800	10000	9816	4400
	3/16/2010		<6						<4					<50			<25								<25		<2	<50			<20														0.5	6.74						10560	
	6/22/2010		<5		<5		14		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														0.5	7.07						9615	
	12/15/2010		<5		<5		15		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	690	570	600	2200	160	310	770	790			1.1			8.5	6.66	35	35	1900	1900	8900	13090	4900
	6/23/2011		<5		<5		10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														5.6	7.18						7000	
	1/4/2012		<5		<5		13		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	650	580	560	2000	220	280	680	670			1.7			1.6	6.84	31	31	1800	1800	9400	11650	4900
	6/26/2012		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														1.2	6.9						7285	
	12/11/2012		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	620	530	530	2000	<100	<100	680	670			1.4			0.2	6.64	29	28	1600	1700	9700	11190	4700
	6/20/2013		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														1.5	6.96						9763	
	12/13/2013		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	610	510	560	2000	<100	<100	600	620			0.71			0.7	6.64	29	27	1800	1800	9600	10230	5900
	6/24/2014		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														0.4	6.83						9014	
	12/17/2014		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	600	520	520	1700	<100	200	640	630			1.2			1.1	6.58	27	27	1600	1700	9000	8395	4300
	6/11/2015		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														3.7	6.99						5481	
	12/10/2015		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	540	570	510	1600	160	420	520	550		140	2.3			2.0	7.06	27	22	1700	1700	8700	5335	4200
	6/29/2016		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														2.5	6.76						8692	
	12/15/2016		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	630	520	550	1900	<100	<100	640	630			<0.1			1.7	4.22	31	26	1400	1500	9800	7445	4400
	6/8/2017		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														0.9	6.74						11040	
	12/14/2017		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	660	570	530	2000	<100	<100	720	710			0.47			0.7	6.62	47	28	1500	1700	10000	10770	4600
	6/20/2018		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														0.8	6.66						11328	
	12/21/2018		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	650	540	560	1800	150	<100	610	640			1.7			1.5	6.69	28	30	1800	1800	10000	6140	4700
	6/10/2019		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														3.1	6.68						6695	
	12/18/2019		<5		<5		<10		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	760	600	610	2000	<100	<100	800	770			<0.1			0.2	6.79	28	28	1700	1400	11000	9581	4900
	6/11/2020		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														1.9	7.02						5172	
	12/1/2020		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	670		540	1900		<100		660			1.4			0.2	6.82		27		1500	19000	9874	4600
	6/10/2021		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														1.1	7.14						6393	
	12/8/2021		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	790		590	2100		<100		760			0.15			2.4	6.87		30		1700	11000	7601	4900
	6/29/2022		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														0.5	7.18						10229	
	12/6/2022		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	770		610	2100		<100		770			1.3			1.5	6.59		32		1800	8800	10321	4900
	6/8/2023		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														0.5	6.68						9803	
	12/28/2023		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	780		570	2100		<100		710			1.4			0.9	6.51		32		1800	8400	10204	5100
	6/27/2024		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100														3.4	6.44						6918	
	12/13/2024		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	720		620	1900		<100		780			1.7			0.9	6.65		32		1700	8700	9096	4600
	6/26/2025		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																							

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
MW-17	12/16/1994				<3		38.2				<3		8.7				<7		<1		69.9		6.1		<50					32.4	571	503		469	1270	<61.7		366		354	699	0.66	0.98	1			7.2	19.9		2190		8580	9330	4650
	3/24/1995				<3	25.5	30.1			<3.3	<3	<9.6	8.9			8.1	<7		<1	95.3	35.4		<3	22	<10					23.5	14.7	577	500		447	1310	<55.1		370		355	646	2.39	3.1	2			6.83	19.2		2130		8900	10050	5010
	6/22/1995			<3.6	23	23.9					<3		<3						<1	53.6	19.5		<3							9.4		573	503			1230	<28.2		365				1.57					6.95	18.6		1980		8240	10390	3910
	9/21/1995		<5		22.1					<4.4		<8.7						<1		<29.2		<3									607	445			1370	145		360				1.47					7.03	18.9		2050		8960	10390	4480
	12/6/1995		<2.7		18.6					<4.4		<8						<1		<19.6		<3									620	432			1360	<75		371				1.18					6.89	19		2190		8450	10050	4510
	3/20/1996		<2.7		17.5					<4.4		<3.4						<1		<23.8		<3									633	382			1390	<49.7		293				1.94					6.96	17.5		2230		8050	10330	4910
	6/25/1996		<3.2		17.9					<4.4		<4.8						<1		<25.4		<3									641	465			1380	<84.7		363				0.1					6.56	17.6		2270		9230	10390	4430
	9/18/1996		<3.7		18.2					<4.4		<7.8						<1		<19		<3									679	418			1410	139		351				0.81					6.8	17.3		2150		9190	10420	3910
	12/13/1996		<3		19					<22		27.4						<1		<95		<3									659	399			1510	164		313				2.39					7.02	16.2		2330		8550	10890	4680
	3/21/1997		<3		16.8					<4.4		<9.2						<2		<25.3		<3									632	408			1480	<34.2		327				2.27					7.01	17.9		2590		9180	10750	4800
	6/18/1997		<3		18					<4.4		<5.9						<1		<19		<3									638	381			1420	<43.8		335				2.15					7.09	19.1		2440		8890	10400	4490
	12/17/1997		<6.1		20.2					<4.4		<4						<1		<19		<3									638	518			1460	436		400				0.7					7.02	20.1		2680		7630	10300	4790
	6/17/1998		<3		15.6					<4		<5.4						<1		<19		<4.1									651	447			1400	103		363				0.83					6.86	15.5		2260		9950	10620	4830
	12/16/1998		<10		19.7					<5		<10						<5		<9.6		<5									643	422			1510	<162		348				2.2						20.9		2630		10100		2200
	6/17/1999		<10		16.3					<5		<10						<5		<40		<5									637	407			1350	<100		348				0.78						21.5		2280		9030		4480
	12/16/1999		<10		14.6					<5		<10						<5		<40		<5									625	417			1450	210		355				0.97						21.5		2260		10300		3550
	7/13/2000		14.7		326					<5		<10						<5		<40		<5									613	344			1420	342		327				1.2						27		2180		4930		4660
	12/14/2000		<10		20.7					<5		<10						<5		<40		<5									647	434			1340	245		375				0.45						21.5		2230		9850		4710
	6/29/2001		<10		19.8					<5		<10						<5		<40		<5									657	394			1430	239		340				1.2					6.96	23		2370		10500	7020	4310
	12/12/2001		<10		20.5					<5		<10						<5		<40		<5									677	392			1400	1210		338				0.93					6.76	19.6		2180		10400	4770	4260
	6/19/2002		<18		26.1					<5		<13						<10		<40		<24.5									644	406			1350	470		352				0.75					6.86	20.7		2150		9740	4010	4820
	12/18/2002		<10		15					<5		<10						<5		<40		<5									550	430			1300	130		370				0.35					6.95	23		2600		9000	3070	4300
	6/19/2003		<10		17					<5		<10						<5		<40		<5									640	390			1300	910		350				1.2					6.82	25		2500		9000	2900	5100
	12/12/2003		<10		15					<5		<10						<5		<40		<5									620	400			1300	570		340				1.6					6.95	22		2300		9200	2950	4600
	6/17/2004		<10		14					<5		<10						<5		<40		5.7									620	420			1400	330		370				1.7					6.87	23		2500		9700	4010	5000
	12/29/2004		<10		13					<5		<10						<5		<40		11									650	430			1600	220		350				0.38					8.0	6.72	22		2300		9700	4050	4700
	6/16/2005		<10	<10	13	13		<5	<5	<10	<10							<5	<5	<40	<40	<15	<15								630	450	440	1300	260	310	370	350		0.68					2.2	6.42	22	21	2300	2300	9100	7240	4800
	12/16/2005		<10	<10	14	15		<5	<5	<10	<10							<5	<5	<40	<40	<15	<15								630	450	430	1600	290	490	370	360		1.1					3.4	7.29	27	27	2300	2400	9400	1134	5000
	6/15/2006		<10	<10	15	15		<5	<5	<10	<10							<5	<5	<40	<40	<15	<15								600	400	390	1700	160	720	340	330		1.7					4.2	6.95	25	24	2500	2400	9600	11020	4600
	12/7/2006	<6	<10	<10	14	15	<4	<5	<5	<10	<10	<50		<25	<5	<5	<40	<40	<15	<15		<25	<2	<50	<20	670	400	390	1500	230	1200	330	320		2					4.0	7.07	26	29	2600	2700	9500	11270	11000
	3/15/2007	<6		<10		18	<4		<5		<10	<50		<25		<5		<40		<15		<25	<2	<50	<20																	1.0	6.73						9725	
	6/21/2007	<6	<10	<10	20	19	<4	<5	<5	<10	<10	<50		<25	<5	<5	<40	<40	<15	<15		<25	<2	<50	<20	580	410	360	1300	800	1200	310	300		3					<0.3	7.16	22	22	2200	2200	8300	1.855	4300
	12/28/2007		<10		19					<5		<10			<5	<5	<40	<40	<15	<15						640	370		1400	910		300		2.3					1.2	6.76	20		2200		9600	11850	11000
	6/25/2008	<6	<10	<10	22	21	<4	<5	<5	<10	<10	<50		<25	<5	<5	<40	<40	<5	<5		<25	<2	<50	<20	550	340	370	1100	1400	2600	280	320		3.3					<0.2	6.94	20	22	2100	2400	8200	4602	4200
	12/19/2008	<6	<10	<10	17	17	<4	<5	<5	<10	<10	<50		<25	<5	<5	<40	<40	<5	<5		<25	<2	<50	<20	600	350	350	1500	440	650	270	280		2					5.1	6.89	20	20	2000	2100	8700	9554	4700
	6/16/2009	<6		<10		21	<4		<5		<10	<50		<25		<5		<40		<5		<25	<2	<50	<20																	1.1	7.46						2148	
	9/2/2009	<6					<4					<50		<25								<25	<2	<50	<20																	1.2	6.96						6720	
	12/2/2009	<6		<10		36	<4		<5	<10	<10	<50		<25		<5		<40		<5		<25	<2	<50	<20	650	350	350	1200	2800	2700	270	280		2					3.7	7.46	24	23	2400	2300	8200	1702	4100
	6/24/2010	<5		<5		54	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	0.3	7.05						4718	
	12/15/2010	<5		<5		34	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	620	460	420	1100	350	730	250	250		1.8					8.2	7.09	23	23	1700	1800	6700	3560	4300
	1/27/2011																								<100																	0.8	6.91						6804	
	6/28/2011	<5		<5		28	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	1.6	7.08						4032	
	1/4/2012	<5		<5		21	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	650	360	350	1000	170	260	250	240		0.78					0.3	7.04	22	21	1800	1800	7700	7812	4700
	6/26/2012	<5		<5		30	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	2.2	7.16						4992	
	12/11/2012	<5		<5		32	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	590	320	400	990	810	900	240	230		2					0.2	6.82	20	20	1800	1800	7300	6954	4300
	6/20/2013	<5		<5		22	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	2.0	7.01						7402	
	12/13/2013	<5		<5		18	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	660	330	340	1200	990	2000	260	270		0.16					0.4	6.54	22	22	2000	2300	8400	8601	5200
	6/24/2014	<5		<5		25	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	0.2	6.83						7950	
	6/11/2015	<5		<5		130	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	4.4	7.32						2772	
	12/10/2015	<5		<5		47	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	660	270	320	1300	1100	4400	190	260	380	3.4					1.0	7.41	16	20	1500	2200	8500	1518	4300
	6/29/2016	<5		<5		150	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	0.2	6.91						2238	
	12/15/2016	<5		<5		75	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	430	500	420	500	<100	450	210	180		<0.1					0.2	6.92	21	17	1200	1100	5800	4764	3600
	6/8/2017	<5		<5		42	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	0.1	7.15						2075	
MW-17	12/14/2017	<5		<5		37	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	450	450	410	660	<100	280	240	240		0.29					0.1	7.18	36	19	1200	1400	6900	6610	3800
	6/20/2018	<5		<5		30	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	0.2	7.03						2284	
	12/21/2018	<5		<5		120	<4		<2	<10	<20	<5		<10		<15		<20		<50		<10	<1	<10	<100	420	390	220	550	190	540	120	74		2.6					3.3	7.19	18	17	800	590	5400	2800	2800
	6/10/2019	<5		<5		120	<4		<2		<20	<5		<10		<15		<20		<50		<10	<1	<10	<100																	0.1	7.09						1877	

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

| Well ID | Antimony-dissolved (ug/L) | Antimony-total (ug/L) | Arsenic-dissolved (ug/L) | Arsenic-total (ug/L) | Barium-dissolved (ug/L) | Barium-total (ug/L) | Beryllium-dissolved (ug/L) | Beryllium-total (ug/L) | Cadmium-dissolved (ug/L) | Cadmium-total (ug/L) | Chromium-dissolved (ug/L) | Chromium-total (ug/L) | Cobalt, total (ug/L) | Cobalt-dissolved (ug/L) | Copper-dissolved (ug/L) | Copper-total (ug/L) | Lead-dissolved (ug/L) | Lead-total (ug/L) | Nickel-dissolved (ug/L) | Nickel-total (ug/L) | Selenium-dissolved (ug/L) | Selenium-total (ug/L) | Silver-dissolved (ug/L) | Silver-total (ug/L) | Thallium-dissolved (ug/L) | Thallium-total (ug/L) | Vanadium, total (ug/L) | Vanadium-dissolved (ug/L) | Zinc-dissolved (ug/L) | Zinc-total (ug/L) | Alkalinity (as caco3) (mg/L) | Calcium-dissolved (mg/L) | Calcium-total (mg/L) | Calcium-total/hard (mg/L) | Chloride (mg/L) | Iron-dissolved (ug/L) | Iron-total (ug/L) | Magnesium-dissolved (mg/L) | Magnesium-total (mg/L) | Magnesium-total/hard (mg/L) | Manganese-dissolved (ug/L) | Nitrogen, ammonia (mg/L) | Nitrogen, nitrate (mg/L) | Nitrogen, total kjeldahl (mg/L) | Nitrogen,nitrate (mg/L) | Oxygen-dissolved (mg/L) | pH FIELD (pH units) | Potassium-dissolved (mg/L) | Potassium-total (mg/L) | Sodium-dissolved (mg/L) | Sodium-total (mg/L) | Solids, total dissolved (mg/L) | Specific conductance field (umhos/cm) | Sulfate (mg/L) |
|---|---|---

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
MW-20	12/21/1994				10.1		108				5.4		35				23.1		20		78.7		<3		<10						126	660	377		450	609	631		193		187	1450	2.88	0.71	4.5			7.06	38.6		1290		5640	7150	3520
	3/24/1995			<3	24.3	28			<3	3.7	<8.5	47.4				<7	<7		<1	88.2	120		<3	<10	<10				33.9	39.6	627	428		492	715	<42.8		281		294	604	1.36	7.85	1.6			6.74	2.05		1560		7200	8490	4390
	6/22/1995			<3	22.7	26				<3		5.9							<1	<15	<9		<3						13		660	475			751	<9.2		306				1.62					6.75	20.1		1780		7650	8250	3840
	9/20/1995		<5.7		20.1					<4.4	<3.4							<1		<19		<3								718	428			769	456		320				5.16					6.57	18.2		1730		7280	8740	3730
	12/6/1995		<2.7		22.6					<4.4	<3.4							<1		<19		<3								750	427			793	<45.4		283				2.44					6.61	19		1720		7580	8880	4290
	3/20/1996		<3		16.5					<4.4	<3.4							<1		<23.1		<3								725	388			765	<30		254				1.32					6.8	17.1		1480		7340	8310	4690
	6/25/1996		<6.4		20.6					<4.4	<9.7							<1		<19		<3								676	479			811	<47.9		321				1.01					6.65	16.3		1870		7790	8940	4130
	9/18/1996		<6.8		19.1					<4.4	<4							<1		<19		<4								742	524			773	<30		298				1.05					6.81	22.1		1630		7800	8560	3750
	12/13/1996		<3		18					<4.4	<4.2							<1		<19		<3								714	463			739	<30		312				0.83					6.97	16.8		1630		7370	8210	3830
	3/21/1997		<3		18.7					<4.4	<4.5							<2.2		<19		<3								616	439			727	<30		246				0.76					6.86	16.2		1660		7500	9120	4340
	6/18/1997		<5.6		17.2					<4.4	<6.5							<1		<19		<3.2								618	422			762	<30		302				0.98					6.92	17.4		1730		7480	9140	3940
	12/17/1997		<3		16.7					<4.4	<4							<1		<19.5		<3								661	631			792	<30		400				0.72					6.86	16.9		2210		911	8390	4390
	6/17/1998		<3.9		16.3					<4	<4							<1		<19		<4.4								636	479			801	<30		319				0.81					6.73	15.9		1700		8030	8910	4610
	12/16/1998		<7.2		18.3					<5	<10							<5		<8.8		<5								608	425			780	<100		319				0.95						19.6		1790		8440		3140
	6/17/1999		<10		17.4					<5	<10							<5		<40		<5								620	405			780	<100		295				1.1						19.2		1790		8280		4250
	12/16/1999		<10		16.1					<5	<10							<5		<40		<5								606	408			833	<100		301				1.3						19.4		1760		8580		4340
	7/13/2000		12.8		362					<5	<10							<5		<40		6.2								607	369			820	<100		297				1.2						23.1		1650		8420		4280
	12/14/2000		<10		16.4					<5	<10							<5		<40		<5								624	432			760	<100		321				0.68						19.7		1740		8140		4120
	6/29/2001		<10		17.1					<5	<10							<5		<40		<5								590	374			745	<100		275				0.99					6.73	19.2		1730		8120	5910	3820
	12/12/2001		<10		14.1					<5	<10							<5		<40		<5								592	356			756	<100		255				1.4					6.82	15.7		1540		7850	4270	3810
	6/19/2002		<10		16.8					<5	<10							<5		<40		<5								554	369			799	<100		278				1.3					6.87	18.4		1690		7500	3760	4110
	12/18/2002		<10		18					<5	<10							<5		<40		<5								550	450			850	<100		320				0.68					6.87	20		1900		7900	2970	4000
	6/17/2004		<10		24					<5	<10							<5		<40		20								380	370			760	<100		290				1.5					7.2	20		1800		7700	3750	4600
	12/29/2004			<10		25				<5		<10						<5		<40		17									410	410			760	<100		300				0.93					8.8	7.11	20		1800		8200	8020	4300
MW-20R	6/16/2005			<10	<10	19	22			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15								400	400	420		360	140	2400	290	290			1.2					4.1	7.17	18	18	1800	1700	8000	5600	3800
	12/16/2005			<10	<10	22	66			<5	<5	<10	30					<5	15	<40	<40	<15	<15								400	440	460		530	<100	22000	320	320			1.1					4.3	7.81	23	28	1800	1800	10000	9062	4200
	6/15/2006			<10	<10	17	21			<5	<5	<10	<10					<5	<5	<40	<40	<15	<15								390	390	390		710	570	2800	290	280			0.77					4.6	7.26	21	20	1800	1700	6300	8936	4200
	12/7/2006	<6	<10	16	16	78	<4	<5	<5	<10	40	<50	26	<5	22	<40	<40	<15	<15	<25	<2	85	130	420	380	460	810	<100	33000	270	280			0.83					6.3	7.32	20	27	1800	2000	7900	9421	5200
	3/16/2007	<6		<10		20	<4		<5		<10	<50	<25		<5		<40		<15	<25	<2	<50	52																								7.06					8168		
	6/22/2007	<6	<10	<10	13	14	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<15	<15	<25	<2	<50	<20	390	380	350	800	130	490	260	250			1					4.1	7.01	18	18	1700	1700	8600	7.911	4800
	12/28/2007		<10		16				<5		<10			<5	<5	<40	<40	<15						380	400		680	460		270				0.57					4.1	6.95	17		1600		7400	7820	5000
	6/26/2008	<6	<10	<10	14	14	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<5	5.1	<25	<2	<50	<20	400	410	400	690	<100	220	290	290			0.73					3.2	7.13	19	18	1600	1700	7600	6819	4200
	12/18/2008	<6	<10	<10	13	14	<4	<5	<5	<10	<10	<50	<25	<5	<5	<40	<40	<5	<5	<25	<2	<50	<20	380	410	420	730	<100	180	280	290			1.5					5.0	7.5	19	19	1800	1800	7700	9224	4600
	6/17/2009	<6		<10		14	<4		<5		<10	<50	<25		<5		<40		<5	<25	<2	<50	<20																							2.3	6.84					7240		
	9/4/2009	<6		<10		24	<4		<5		<10	<50	<25		<5		<40		<5	<25	<2	<50	<20																							1.9	7.06					7843		
	12/1/2009	<6		<10		13	<4		<5	<10	<10	<50	<25		<5		<40		5.1	<25	<2	<50	<20	430	380	340	700	<100	<100	290	250			0.33					3.7	6.99	21	19	1900	1700	7200	8548	4200
	6/24/2010	<5		<5		13	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							2.7	6.91					8206		
	12/17/2010	<5		<5		12	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	390	420	410	520	100	<100	260	240			0.19					3.8	7.15	17	16	1400	1300	6600	7329	4100
	6/28/2011	<5		<5		10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							2.6	7.06					9695		
	6/26/2012	<5		<5		13	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							0.9	6.91					5621		
	12/11/2012	<5		<5		12	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	460	320	390	630	<100	<100	240	250			1.5					2.8	5.27	18	18	1600	1600	7000	5667	4100
	6/20/2013	<5		<5		12	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							2.0	7.11					6912		
	12/13/2013	<5		<5		13	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	440	370	360	580	<100	<100	250	250			1.2					3.3	6.17	18	18	1500	1700	6900	5807	4900
	6/24/2014	<5		<5		15	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							0.6	7.08					7531		
	12/17/2014	<5		<5		12	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	490	350	340	800	<100	<100	270	270			2					2.2	6.25	19	19	1700	1700	7500	5160	4300
	6/11/2015	<5		<5		13	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							0.4	7.04					7269		
	12/10/2015	<5		<5		12	<4		<2		<20	<5	<10		<15		<20		<50	<10	1.2	<10	<100	500	400	370	710	<100	110	310	280	360		2					0.8	7.3	17	16	2000	1700	7400	6430	4200
	6/29/2016	<5		<5		11	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							1.4	7					6770		
	12/15/2016	<5		<5		11	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	460	330	390	780	<100	170	250	240			1.8					3.1	7.25	21	17	1500	1500	7700	7282	4300
	6/8/2017	<5		<5		11	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							4.8	6.88					7255		
	12/14/2017	<5		<5		11	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	430	350	320	740	<100	<100	260	260			0.86					0.5	6.96	36	18	1500	1800	7500	7724	4400
	6/20/2018	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							2.3	7.24					8472		
MW-20R	12/28/2018	<5		<5		<10	<4		<2	<10	<20	<5	<10		<15		<20		<50	<10	<1	<10	<100	410	370	390	750	<100	260	280	290			2					0.7	7.1	22	20	1900	1600	7900	7296	4700
	6/11/2019	<5		<5		11	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							0.6	7.02					7882		
	6/11/2020	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							2.2	7.37					7130		
	6/10/2021	<5		<5		<10	<4		<2		<20	<5	<10		<15		<20		<50	<10	<1	<10	<100																							0.3	7.5					9368		

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	12/9/2021	<5		<5		<10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	460		380		970		<100		280			1.4			2.7	7.07		19		1800	8400	8834	4700
	6/29/2022	<5		<5		10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.9	7.64						8926	
	12/6/2022	<5		<5		<10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	430		410		1000		<100		310			1.9			0.9	6.91		21		1800	7100	9728	4900
	6/8/2023	<5		<5		<10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.6	7.06						8779	
	12/28/2023	<5		<5		10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	420		380		990		<100		290			1.8			1.0	6.91		22		1900	7500	8988	4900
	7/2/2024	<5		<5		11	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															1.4	6.95						8896	
	12/20/2024	<5		<5		<10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	370		400		950		<100		320			1.9			1.4	7.08		22		1900	8400	9046	4800
	7/2/2025	<5		<5		10	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																								
MW-21	6/23/2010	<5		27		40	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															1.6	7.14						3062	
	9/17/2010	<5		20		37	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															4.4	7.18						3240	
	3/7/2013	<5		<5		37	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															3.6	7.2						3271	
	3/19/2014	<5		<5		130	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															2.8	7.14						1276	
	3/27/2015	<5		<5		49	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.7	7.17						1927	
MW-21R	9/22/2016	<5		<5		17	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															1.9	7.09						5702	
	9/21/2017	<5		<5		14	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															3.1	7.34						5275	
MW-22	9/17/2010	<5		<5		21	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															2.6	6.79						6433	
	3/23/2011	<5		<5		17	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															4.9	6.87						6116	
	9/27/2011	<5		<5		16	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.4	6.52						6302	
	3/28/2012	<5		<5		16	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															4.1	6.68						6120	
	6/26/2012	<5		<5		14	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															1.0	6.72						6909	
	12/7/2012	<5		<5		11	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	630		450		390		580	<100	<100		250		220		0.53			0.9	5.25	20		21	1300	1100	6100	5236	3000
	3/7/2013	<5		<5		13	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															1.5	6.68						6875	
	6/20/2013	<5		<5		12	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															1.1	6.92						6006	
	6/26/2014	<5		<5		12	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															2.7	6.9						7522	
	6/10/2015	<5		<5		15	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.2	6.8						7336	
MW-23	3/18/2010	<6		<10		15	<4		<5			<10	<50				<25		<5		<40		<5		<25		<2	<50			<20															0.0	6.79						6367	
	6/23/2010	<5		<5		14	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.0	6.95						5590	
	9/16/2010	<5		<5		14	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.4	6.68						6120	
	12/16/2010	<5		<5		11	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	510		520		440		500	130	120		130		110		<0.1			4.4	6.74	7.8		7.7	1100	1100	5100	5469	3200
	3/23/2011	<5		<5		14	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															2.1	6.71						5343	
	6/28/2011	<5		<5		13	<4		<2			<20	5.7				<10		<15		<20		<50		<10		<1	<10			<100															0.2	6.89						8628	
	9/27/2011	<5		<5		14	<4		<2			<20	5.2				<10		<15		<20		<50		<10		<1	<10			<100															0.0	6.63						5329	
	1/5/2012	<5		<5		12	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	510		470		460		460	440	590		120		120		<0.1			0.0	6.73	7.8		7.7	1100	1000	5200	3870	3000
	6/26/2012	<5		<5		12	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.0	6.7						4032	
	12/7/2012	<5		<5		14	<4		<2	<10		<20	6.2				<10		<15		<20		<50		<10		<1	<10			<100	490		480		460		460	410	920		120		120		0.16			0.1	5.07	8.4		9.2	1100	1100	5300	4616	2700
	6/20/2013	<5		<5		12	<4		<2			<20	5.2				<10		<15		<20		<50		<10		<1	<10			<100															0.6	6.9						5208	
	12/12/2013	<5		<5		13	<4		<2	<10		<20	7.4				<10		<15		<20		<50		<10		<1	<10			<100	510		470		490		460	330	730		110		110		<0.1			0.1	6.48	7.1		6.8	1000	1000	5200	3035	3400
	1/29/2014												6.6																																			0.1	6.43						6116	
	6/26/2014	<5		<5		18	<4		<2			<20	6.4				<10		<15		<20		<50		<10		<1	<10			<100															0.1	7.07						5846	
	12/17/2014	<5		<5		17	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	500		510		490		470	1700	480		130		130		0.15			0.1	6.64	8.7		8.5	1100	1100	5000	3068	2900
	6/11/2015	<5		<5		33	<4		<2			<20	5.2				<10		<15		<20		<50		<10		<1	<10			<100															0.2	6.77						5524	
	12/10/2015	<5		<5		23	<4		<2			<20	5.6				<10		<15		<20		<50		<10		<1	<10			<100	490		540		490		450	1300	1300		140		130		730	0.2		0.5	6.76	7.8		6.9	1200	1100	5200	5640	3600
	6/29/2016	<5		<5		15	<4		<2			<20	6.4				<10		<15		<20		<50		<10		<1	<10			<100															0.0	6.99						5717	
	12/15/2016	<5		<5		13	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	440		450		460		380	740	770		110		100		<0.1			0.0	6.92	9.1		6.2	910	930	4800	5730	2700
	6/8/2017	<5		<5		13	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.0	7.44						5661	
MW-23	12/14/2017	<5		<5		12	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	440		430		440		390	860	1300		110		110		0.17			0.2	6.96	15		7.1	860	1000	4700	5463	2800
	6/20/2018	<5		<5		12	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.1	6.79						5755	
	12/21/2018	<5		<5		110	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	400		390		410		270	590	720		85		89		0.19			0.3	6.94	7.6		8.6	810	840	4100	3778	2300
	1/31/2019					70																																								0.2	6.77						4503	
	6/10/2019	<5		<5		38	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.0	6.79						4854	
	12/18/2019	<5		<5		34	<4		<2	<10		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	430		390		390		280	560	1000		84		88		<0.1			0.0	6.82	6.4		6.4	780	780	4000	4792	2200
	6/12/2020	<5		<5		33	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100															0.2	6.99						4583	
	12/1/2020	<5		<5		18	<4		<2			<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	410				370		240		<100				91		<0.1			0.0	6.66			6.3		860	4100	4810	2200

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	6/10/2021		<5		<5		50		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.3	7.36						4431	
	12/9/2021		<5		<5		19		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	450		350		260		280		85			<0.1				0.1	6.54		6.4		820	4000	4389	2300
	6/29/2022		<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.0	7.3						4564	
	12/6/2022		<5		<5		150		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	340		210		120		630		48			0.13				0.5	7.17		10		400	1900	1929	1000
	1/9/2023						92																																								0.1	6.91						3551	
	6/7/2023		<5		<5		120		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.1	7.07						3089	
	12/28/2023		<5		<5		47		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	170		69		27		1200		14			<0.1				0.0	6.88		3.9		130	590	3305	270
	6/26/2024		<5		<5		190		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.2	7.11						2599	
	9/19/2024						79																									400		350		230				83							0.1	7.01		12		690		4177	1900
	12/10/2024		<5		<5		52		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	410		420		280		140		100			0.14				0.0	6.91		12		870	4000	3907	2300
MW-23R	9/29/2025		<5		<5		35		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																								
MW-24	3/18/2010		<6		<10		30		<4		<5		<10	<50			<25		<5		<40		<5		<25		<2	<50			<20																32.4	7.3						3944	
	6/24/2010		<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.6	7.42						4603	
	9/16/2010		<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.7	7.04						4606	
	12/16/2010		<5		<5		13		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	260	420	360		110	<100	570	330	280			<0.1				12.9	7.38	11	10	490	460	4400	4259	3100
	3/23/2011		<5		<5		14		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																4.4	7.15						4121	
	6/24/2011		<5		<5		14		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																2.1	7.02						3864	
	9/27/2011		<5		<5		12		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.8	6.99						4576	
	1/5/2012		<5		<5		12		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	300	370	360		100	<100	<100	370	360			<0.1				5.2	7.34	12	12	610	610	4300	1854	2800
	6/26/2012		<5		<5		19		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.6	6.77						2365	
	6/20/2013		<5		<5		30		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																2.6	7.1						2567	
	6/26/2014		<5		<5		61		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																3.0	6.85						2893	
	6/11/2015		<5		<5		66		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.4	6.84						2532	
	12/10/2015		<5		<5		28		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	310	410	390		90	<100	340	270	310		<15	<0.1				4.5	7.32	11	10	410	450	4000	2332	2700
	6/29/2016		<5		<5		32		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.1	6.84						2845	
	12/15/2016		<5		<5		27		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	320	420	430		110	570	1100	330	340			<0.1				0.4	7.16	12	12	460	480	4900	4857	3200
	6/8/2017		<5		<5		18		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.0	6.88						4456	
	12/14/2017		<5		<5		21		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	310	460	390		110	320	1200	370	350			<0.1				0.2	7.13	17	12	510	510	5100	4764	3200
	6/20/2018		<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																0.6	7.04						4534	
	12/21/2018		<5		<5		17		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	290	380	410		91	<100	100	330	340			<0.1				4.5	7.2	11	12	520	530	5100	2644	3300
	6/11/2019		<5		<5		21		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																2.1	6.85						2849	
	6/12/2020		<5		<5		22		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																3.3	7.22						2366	
	12/1/2020		<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	320		420		100		1200		350			<0.1				0.2	6.9		12		530	5100	2804	3100
	6/10/2021		<5		<5		<10		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																4.2	7.54						2247	
	12/9/2021		<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	350		420		130		270		360			<0.1				2.4	6.92		11		540	5000	1832	3300
	6/29/2022		<5		<5		14		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																4.9	7.44						2051	
	12/6/2022		<5		<5		16		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	350		430		130		920		380			0.12				5.4	7.32		12		530	4700	2001	3100
	6/7/2023		<5		<5		12		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.3	7.14						4415	
	12/28/2023		<5		<5		14		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	340		400		130		250		350			<0.1				3.8	6.96		12		540	4600	2524	3100
	7/2/2024		<5		<5		12		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																1.8	7.23						3045	
	12/13/2024		<5		<5		15		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	330		390		120		490		350			0.19				0.3	7.05		12		530	4700	4147	3100
	6/26/2025		<5		<5		11		<4		<2		<20	<5			<10		<15		<20		<50		<10		<1	<10			<100																								
MW-25	3/19/2010		<6		23		47		<4		<5		<10	<50			<25		<5		<40		<5		<25		<2	<50			<20																0.2	6.44						4605	
	6/22/2010		<5		26		32		<4		<2		<20	11			<10		<15		20		<50		<10		<1	<10			<100																0.3	6.58						4353	
	9/16/2010		<5		20		31		<4		<2		<20	16			<10		<15		20		<50		<10		<1	<10			<100																0.4	6.35						5456	
	12/16/2010		<5		30		26		<4		<2	<10	<20	7.4			<10		<15		21		<50		<10		<1	<10			<100	910	600	520		260	3400	3300	320	280			0.31				9.6	6.46	20	20	670	640	5000	4877	3000
	3/23/2011		<5		20		27		<4		<2		<20	10			<10		<15		20		<50		<10		<1	<10			<100																3.9	6.45						4645	
	6/23/2011		<5		17		24		<4		<2		<20	13			<10		<15		<20		<50		<10		<1	<10			<100																3.8	7.19						3760	
	9/27/2011		<5		12		22		<4		<2		<20	10			<10		<15		24		<50		<10		<1	<10			<100																0.5	6.33						4801	
	12/30/2011		<5		<5		50		<4		<2	<10	<20	<5			<10		<15		<20		<50		<10		<1	<10			<100	530	270	280		100	<100	<100	80	91			0.41				0.9	6.86	8.3	9.1	480	480	2800	2780	1500
	6/26/2012		<5		6.2		35		<4		<2		<20	5.1			<10		<15		<20		<50		<10		<1	<10			<100																1.2	6.6						2066	
	12/11/2012		<5		5.9		23		<4		<2	<10	<20	5.5			<10		<15		<20		<50		<10		<1	<10			<100	710	520	470		140	1700	1700	230	230			0.31				0.5	6.55	14	16	440	460	4400	2936	2700
	6/20/2013		<5		<5		23		<4		<2		<20	5.9			<10		<15		<20		<50		<10		<1	<10			<100																3.1	6.72						2436	
	12/12/2013		<5		<5		23		<4		<2	<10	<20	5.8			<10		<15		<20		<50		<10		<1	<10			<100	590	400	390		110	<100	670	130	130			0.56				1.0	6.83	8.9	9.2	380	380	2700	2617	1600

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	6/24/2014	<5		<5		21		<4		<2		<20	6.5				<10		<15		<20		<50		<10		<1	<10			<100													0.5	6.93						2726	
	12/17/2014	<5		<5		24		<4		<2	<10	<20	8.4				<10		<15		24		<50		<10		<1	<10			<100	820	570	490		160	1500	790	280	160		0.39				0.2	6.62	18	8.2	540	350	4700	3010	2800
	6/11/2015	<5		<5		21		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													1.3	6.77						2345	
	12/10/2015	<5		<5		28		<4		<2		<20	<5				<10		<15		<20		<50		<10		1.1	<10			<100	530	480	360		72	110	210	150	110		400	0.21			2.1	6.82	12	11	340	300	3200	1441	1800
	1/15/2016																										<1																	0.8	6.73						1867	
	6/29/2016	<5		<5		28		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.9	6.77						1812	
	12/15/2016	<5		<5		29		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	590	480	530		91	320	430	190	170		0.18				0.9	6.89	14	12	390	380	4000	2218	2400
	6/8/2017	<5		<5		27		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													1.1	7.04						2301	
	12/14/2017	<5		<5		24		<4		<2	<10	<20	<5				<10		<15		20		<50		<10		<1	<10			<100	700	560	540		120	520	1000	240	240		0.26				0.9	6.65	21	16	440	480	4700	2313	2600
	6/20/2018	<5		<5		24		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.3	6.76						2126	
	12/21/2018	<5		<5		28		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	580	470	350		76	1400	700	170	74		0.36				2.9	6.86	14	8.4	410	350	3800	2255	2100
	6/11/2019	<5		<5		24		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.3	6.74						2717	
	12/18/2019	<5		<5		23		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	630	540	520		110	950	1200	200	190		0.29				1.5	6.77	14	14	440	380	4300	2561	2100
	6/12/2020	<5		<5		24		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													1.3	6.7						1917	
	12/1/2020	<5		<5		24		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	650		540		120		1100		200		0.3				1.3	6.61		14		440	4400	2100	2300
	6/10/2021	<5		<5		14		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													4.1	7.32						1660	
	12/8/2021	<5		<5		24		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	490		460		200		450		140		0.16				3.8	6.89		11		410	3700	1962	2200
	6/29/2022	<5		<5		23		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.1	7.29						3123	
	12/6/2022	<5		<5		26		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	570		540		190		2200		170		0.98				4.0	6.81		11		420	3900	2601	2300
	6/7/2023	<5		<5		23		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.1	6.72						3394	
	12/28/2023	<5		<5		22		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	430		370		180		1200		69		0.42				4.2	6.73		6.2		360	2600	2188	1300
	7/2/2024	<5		<5		17		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													2.9	7.22						2340	
	12/13/2024	<5		<5		22		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	410		500		210		1200		160		0.42				0.3	6.76		11		440	3100	2385	1700
	6/26/2025	<5		<5		16		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																							
MW-26	3/28/2012	<5		9.5		26		<4		2.2		<20	<5				12		<15		<20		<50		<10		<1	<10			<100													2.6	6.68						6677	
	12/7/2012	<5		27		25		<4		<2	<10	<20	<5				10		<15		<20		<50		<10		<1	<10			<100	710	200	200		350	<100	2400	68	68		3.4				2.1	6.79	8.4	12	750	1000	3700	5017	1500
	3/7/2013	<5		<5		25		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													4.4	7.07						4295	
	6/20/2013	<5		<5		21		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													5.3	7.01						4465	
	9/12/2013	<5		<5		19		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													6.6	6.97						5061	
	12/12/2013	<5		8.9		16		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	600	200	240		420	1300	6900	69	83		3.4				1.8	7.02	9.7	10	910	1100	3400	5288	1900
	3/19/2014	<5		<5		18		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													1.6	7.05						4288	
	6/24/2014	<5		<5		14		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													2.0	6.99						4655	
	12/17/2014	<5		<5		14		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	490	220	230		450	120	2100	77	79		2.1				2.0	6.95	10	10	910	1000	3600	5031	1800
	6/11/2015	<5		<5		14		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													2.0	6.83						4449	
	12/10/2015	<5		<5		15		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	550	190	210		360	100	1200	64	73	58	0.8				1.7	7.06	7.4	8	1700	900	3100	3263	1500
	6/29/2016	<5		<5		32		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.9	7						3677	
	12/15/2016	<5		<5		12		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	470	190	210		390	<100	480	65	67		0.9				1.9	7.21	9.5	8.9	760	890	3400	4246	1600
	6/8/2017	<5		<5		12		<4		<2		<20	<5				13		<15		<20		<50		<10		<1	<10			<100													0.7	6.88						3403	
	12/14/2017	<5		<5		12		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	530	190	200		520	380	1800	68	74		1.5				0.3	6.86	22	9.6	820	1000	3500	3918	1700
	12/21/2018	<5		<5		13		<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	470	200	200		400	240	1100	67	64		1.4				2.5	7.14	9.3	8.9	920	810	3600	3868	1600
MW-26	6/11/2019	<5		<5		12		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													3.1	7.09						4205	
	6/12/2020	<5		8.3		12		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.1	7.06						2709	
	6/10/2021	<5		<5		11		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.2	7.43						3537	
	12/8/2021	<5		<5		10		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	630		170		370		440		59		3.1				2.6	6.88		8.6		880	2900	2443	1300
	6/29/2022	<5		<5		11		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													2.7	7.32						4312	
	12/6/2022	<5		<5		11		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	540		180		460		1700		64		0.18				2.8	7.25		9.1		910	2900	2872	1300
	6/7/2023	<5		<5		11		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													1.6	6.94						3974	
	12/28/2023	<5		<5		11		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	560		200		450		4800		67		2.7				2.7	7.2		10		270	3400	1640	1200
	7/2/2024	<5		<5		12		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													0.9	7.17						3229	
	12/20/2024	<5		<5		10		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	490		180		400		2800		65		2.4				0.8	7.02		9.6		970	3000	3620	1400
	7/2/2025	<5		<5		11		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																							
MW-27	9/2/2015	<5		<5		31		<4		<2		<20	<5				<10		<15		20		<50		<10		<1	<10			<100													3.2	7.42						6125	
	12/10/2015	<5		6.6		21		<4		<2		<20	5.9				<10		<15		<20		<50		<10		<1	<10			<100	530	590	510		370	<100	540	210	180	360	<0.1				2.7	6.81	13	12	910	880	5100	5998	3000
	2/5/2016	<5		<5		17		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													4.0	6.89						5962	
	6/30/2016	<5		<5		16		<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100													4.5	7.08						5787	

Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
	9/22/2016	<5		<5			16	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																3.9	6.98						6060	
	12/14/2016	<5		<5			14	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	450	500	500	380	<100	200	190	200		110	0.1				2.1	6.89	12	13	900	920	5300	5542	3100
	3/21/2017	<5		<5			13	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																1.0	6.79						4684	
	6/8/2017	<5		<5			12	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																1.7	6.7						5963	
	12/14/2017	<5		<5			12	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	470	520	450	370	<100	310	190	190			0.12				1.3	6.93	27	13	850	950	5100	5521	3000
	6/20/2018	<5		<5			10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																1.7	6.9						5688	
	12/28/2018	<5		<5			<10	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	440	500	520	360	<100	340	190	190			0.27				1.4	6.7	14	13	960	880	5700	5623	3000
	6/10/2019	<5		<5			12	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.8	6.98						4991	
	12/18/2019	<5		<5			12	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	480	490	510	380	<100	390	180	190			3.1				0.4	6.66	11	13	850	860	5200	5392	3000
	6/11/2020	<5		<5			10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.2	6.74						5720	
	12/1/2020	<5		<5			<10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	460		500	370		660		200			0.26				0.3	6.7		13		980	5100	4885	3000
	6/11/2021	<5		<5			<10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.2	7.02						5531	
	12/9/2021	<5		<5			11	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	490		480	440		1000		200			0.38				0.4	6.65		13		1000	5500	5394	3100
	6/29/2022	<5		<5			10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.2	7.16						5495	
	12/6/2022	<5		<5			14	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	470		520	460		570		200			0.46				0.2	6.56		13		980	5100	5839	3100
	6/8/2023	<5		<5			<10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.1	6.55						5491	
	12/28/2023	<5		<5			<10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	480		490	350		850		190			0.34				0.3	6.47		14		990	5000	5436	2900
	6/27/2024	<5		<5			10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.2	6.69						4560	
	12/13/2024	<5		<5			<10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	430		500	380		740		200			<0.1				0.1	6.63		14		110	5100	4907	3000
	6/26/2025	<5		<5			<10	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																									
MW-28	9/22/2016	<5		<5			24	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																4.5	7						5810	
	3/21/2017	<5		<5			20	<4		<2		<20	9				<10		<15		<20		<50		<10		<1	<10			<100																3.0	6.71						5623	
MW-29	2/5/2016	<5		<5			43	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																2.1	7.25						4599	
MW-30	3/21/2017	<5		<5			22	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																3.4	6.81						6272	
MW-30R	3/21/2017	<5		<5			22	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																3.4	6.81						6272	
	9/21/2017	<5		<5			20	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																1.3	7.02						7866	
	3/23/2018	<5		<5			15	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.9	6.63						6107	
	6/20/2018	<5		<5			16	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																0.2	6.54						7745	
	12/21/2018	<5		<5			19	<4		<2	<10	<20	<5				<10		<15		<20		<50		<10		<1	<10			<100	710	470	410	280	<100	120	250	210			0.38				3.3	7	32	22	1100	1300	5600	4930	3100
	3/20/2019	<5		<5			18	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																3.7	7.1						4406	
	6/10/2019	<5		<5			15	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																4.0	6.77						4413	
	9/19/2019	<5		<5			16	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																2.7	6.68						3595	
	6/12/2020	<5		<5			18	<4		<2		<20	<5				<10		<15		<20		<50		<10		<1	<10			<100																1.7	7.09						4304	

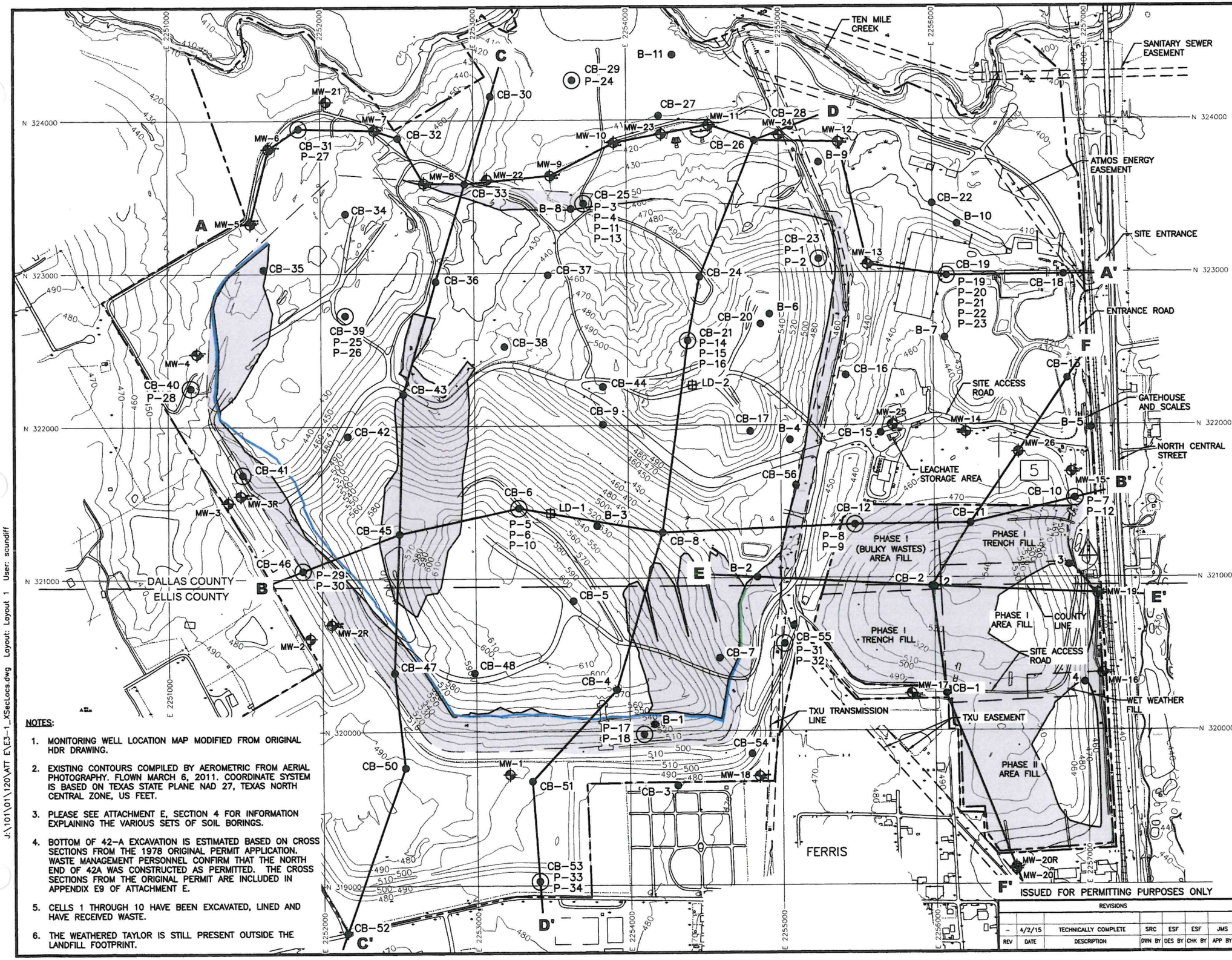
Waste Management Skyline Landfill
Groundwater Analytical Data
Inorganics

Well ID		Antimony-dissolved (ug/L)	Antimony-total (ug/L)	Arsenic-dissolved (ug/L)	Arsenic-total (ug/L)	Barium-dissolved (ug/L)	Barium-total (ug/L)	Beryllium-dissolved (ug/L)	Beryllium-total (ug/L)	Cadmium-dissolved (ug/L)	Cadmium-total (ug/L)	Chromium-dissolved (ug/L)	Chromium-total (ug/L)	Cobalt, total (ug/L)	Cobalt-dissolved (ug/L)	Copper-dissolved (ug/L)	Copper-total (ug/L)	Lead-dissolved (ug/L)	Lead-total (ug/L)	Nickel-dissolved (ug/L)	Nickel-total (ug/L)	Selenium-dissolved (ug/L)	Selenium-total (ug/L)	Silver-dissolved (ug/L)	Silver-total (ug/L)	Thallium-dissolved (ug/L)	Thallium-total (ug/L)	Vanadium, total (ug/L)	Vanadium-dissolved (ug/L)	Zinc-dissolved (ug/L)	Zinc-total (ug/L)	Alkalinity (as caco3) (mg/L)	Calcium-dissolved (mg/L)	Calcium-total (mg/L)	Calcium-total/hard (mg/L)	Chloride (mg/L)	Iron-dissolved (ug/L)	Iron-total (ug/L)	Magnesium-dissolved (mg/L)	Magnesium-total (mg/L)	Magnesium-total/hard (mg/L)	Manganese-dissolved (ug/L)	Nitrogen, ammonia (mg/L)	Nitrogen, nitrate (mg/L)	Nitrogen, total kjeldahl (mg/L)	Nitrogen,nitrate (mg/L)	Oxygen-dissolved (mg/L)	pH FIELD (pH units)	Potassium-dissolved (mg/L)	Potassium-total (mg/L)	Sodium-dissolved (mg/L)	Sodium-total (mg/L)	Solids, total dissolved (mg/L)	Specific conductance field (umhos/cm)	Sulfate (mg/L)
MW-30R	12/1/2020	<5		<5		15	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	730		400	400		770		210		1.6				3.2	6.97		18		1300	6200	4827	3200
	6/10/2021	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.2	7.41						4886	
	12/8/2021	<5		<5		13	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	720		400	480		850		210		2.6				2.9	7.09		20		1400	6200	4105	3400
	6/29/2022	<5		<5		12	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.8	7.46						5148	
	12/6/2022	<5		<5		13	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	540		410	270		500		210		1.3				1.9	7.03		24		1100	4500	4515	2700
	6/7/2023	<5		<5		11	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.7	7.19						4558	
	12/28/2023	<5		<5		17	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	410		220	76		120		97		0.12				1.9	7.01		33		520	2800	3903	1700
	7/2/2024	<5		<5		22	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.1	6.97						2883	
	12/13/2024	<5		<5		19	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	540		320	550		100		150		2.2				3.0	6.87		19		1300	4800	4236	2500
	6/26/2025	<5		<5		21	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																												
MW-31	9/21/2017	<5		<5		13	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.3	7.22						8540	
	3/26/2021	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				3.4	6.53						9435	
	9/19/2023	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.0	6.88						8708	
	7/2/2024	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.6	6.88						9733	
MW-32	12/10/2015	<5		<5		61	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	270	340	320	39	<100	<100	48	45	<15	<0.1				3.6	7.41	5.5	5.5	170	180	1800	4097	1000
	2/5/2016	<5		<5		22	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.4	6.86						7282	
	6/29/2016	<5		<5		20	<4		<2		<20	6.4		<10	<15		<20	<50	<10	<1	<10	<100																				2.3	7.12						7090	
	9/22/2016	<5		<5		18	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				3.2	6.74						8926	
	3/21/2017	<5		<5		15	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.7	6.85						6729	
	6/8/2017	<5		<5		15	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.0	6.83						6500	
	9/21/2017	<5		<5		21	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.0	7.05						5794	
	12/21/2018	<5		<5		29	<4		<2	<10	<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	610	270	350	540	1400	320	110	290		<0.1				4.8	7.17	8	14	380	1000	7700	2639	3900
	6/10/2019	<5		<5		46	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.4	6.96						2142	
	6/11/2020	<5		<5		13	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.9	7.15						2163	
	6/10/2021	<5		<5		86	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	11	<100																				0.8	7.51						2760	
	7/19/2021																									<10																	1.9	7.14						3351	
	6/8/2023	<5		<5		21	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.7	7						2931	
	12/28/2023	<5		<5		57	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	630		380	690		950		200		0.2				4.3	7.21		12		750	7800	2643	4300
	7/2/2024	<5		<5		31	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.9	6.83						3210	
	7/2/2025	<5		<5		14	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																												
MW-33	6/29/2016	<5		8.9		18	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.9	7.09						10580	
	9/22/2016	<5		<5		23	<4		<2		<20	5.1		<10	<15		<20	<50	<10	<1	<10	<100																				2.0	6.98						10730	
	9/21/2017	<5		<5		11	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				1.7	7.06						11170	
	9/19/2023	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				2.1	6.92						10401	
MW-34	12/21/2018	<5		<5		11	<4		<2	<10	<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	510	230	220	470	<100	2200	130	120		2.9				6.2	7.42	14	14	1500	1500	5800	6070	3300
	3/20/2019	<5		6.3		15	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.0	7.28						5927	
	6/10/2019	<5		5		16	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.1	7.27						6399	
	9/19/2019	<5		<5		13	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.1	7.02						5700	
	12/18/2019	<5		<5		13	<4		<2	<10	<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	580	260	260	540	2200	2100	150	150		3.1				0.0	6.98	15	15	1600	1400	6000	7163	3100
	3/26/2020	<5		<5		11	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.0	7.21						6941	
	6/11/2020	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.2	7.02						7288	
	9/14/2020	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.1	7.07						7027	
	12/1/2020	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	490		240	550		2700		140		3.4				0.1	6.99		14		1500	4400	6221	3100
	6/10/2021	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.1	7.22						7050	
	12/9/2021	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	520		240	520		4800		140		2.8				0.1	7.08		14		1500	5900	6842	3000
	6/29/2022	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.0	7.25						6918	
	12/6/2022	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	530		240	570		3000		140		3.7				0.0	6.97		15		1500	5500	7357	3100
	6/7/2023	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.1	7.08						6843	
	12/28/2023	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	510		230	510		3100		140		3.5				0.1	6.94		15		1300	5700	6857	3000
	6/26/2024	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																				0.1	7.13						6681	
	12/10/2024	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100	490		230	560		3100		150		3.4				0.1	7.12		16		1400	5700	6861	3100
	6/26/2025	<5		<5		<10	<4		<2		<20	<5		<10	<15		<20	<50	<10	<1	<10	<100																												

SKYLINE LANDFILL

APPENDIX E7

HISTORICAL PERMIT INFORMATION



LEGEND

- PERMIT BOUNDARY
- LANDFILL FOOTPRINT
- EXISTING 10' GROUND CONTOUR
- EXISTING UNDERDRAIN/ KEYWAY COMPLEX
- UNDERDRAIN/KEYWAY COMPLEX TO BE CONSTRUCTED
- MW-5 EXISTING MONITORING WELL
- CB-15 BORING
- P-1 PIEZOMETER
- WEATHERED TAYLOR REMAINING BENEATH THE FOOTPRINT
- 5 PHASE DESIGNATION

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.
2. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL PHOTOGRAPHY. FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL ZONE, US FEET.
3. PLEASE SEE ATTACHMENT E, SECTION 4 FOR INFORMATION EXPLAINING THE VARIOUS SETS OF SOIL BORINGS.
4. BOTTOM OF 42-A EXCAVATION IS ESTIMATED BASED ON CROSS SECTIONS FROM THE 1978 ORIGINAL PERMIT APPLICATION. WASTE MANAGEMENT PERSONNEL CONFIRM THAT THE NORTH END OF 42A WAS CONSTRUCTED AS PERMITTED. THE CROSS SECTIONS FROM THE ORIGINAL PERMIT ARE INCLUDED IN APPENDIX E9 OF ATTACHMENT E.
5. CELLS 1 THROUGH 10 HAVE BEEN EXCAVATED, LINED AND HAVE RECEIVED WASTE.
6. THE WEATHERED TAYLOR IS STILL PRESENT OUTSIDE THE LANDFILL FOOTPRINT.

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

4-27-2015

Copy

GEOLOGIC CROSS SECTION LOCATION MAP

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

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

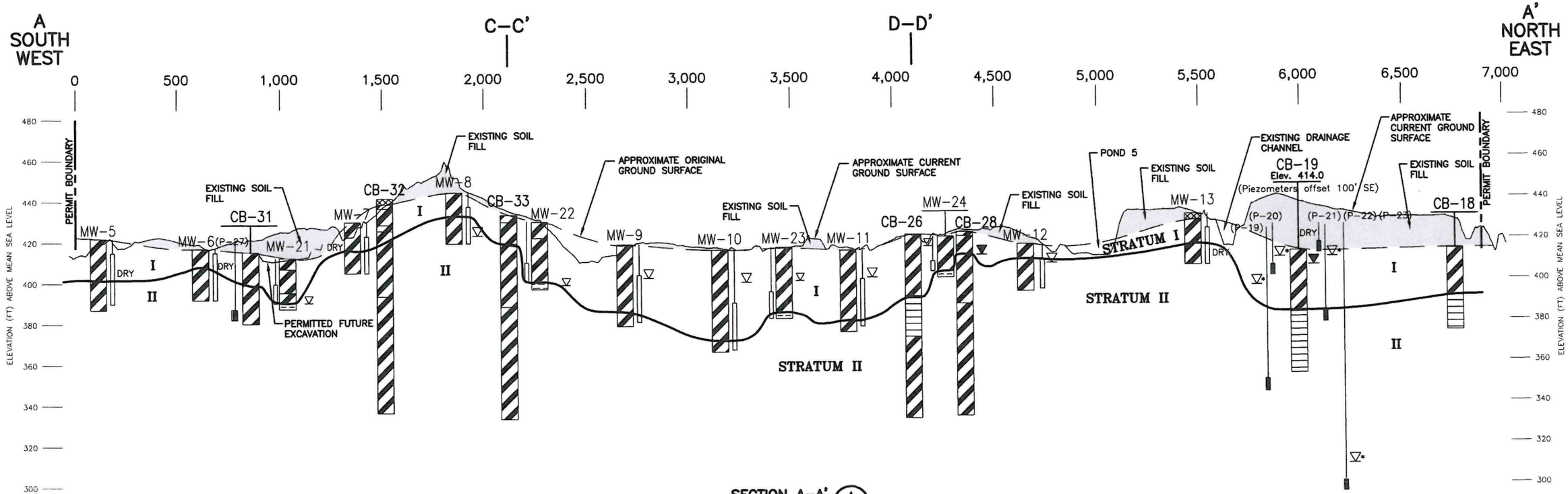
TBPE FIRM NO. F-256 | TBPG FIRM NO. 50222

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
-	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

DSN. ESF	DATE : 04/12	FIGURE	
DWN. SRC	SCALE : GRAPHIC	E3-1	
CHK. JMS	DWG : E3-1_XSecLocs.dwg		

ISSUED FOR PERMITTING PURPOSES ONLY

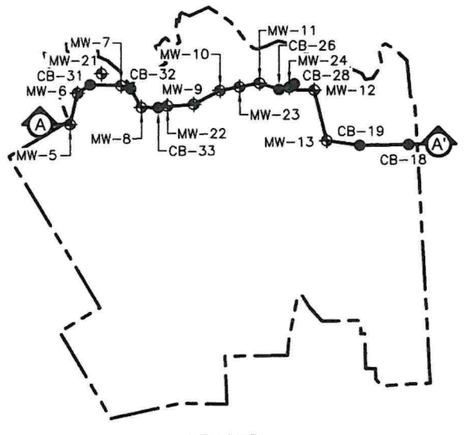
J:\101\01\120\ATT E\E3-1_XSecLocs.dwg Layout: Layout 1 User: scundiff



SECTION A–A' (A)

0 250 500 HORIZONTAL
SCALE IN FEET

0 25 50 VERTICAL
SCALE IN FEET



KEY MAP

LEGEND

- Clay (CH)
- Fill
- Claystone (Unweathered Taylor Marl)
- Shale
- ▽ WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- ▼ STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- ▽* WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991
- DRY NO WATER WAS OBSERVED DURING THE JUNE 2010 SAMPLING EVENT
- APPROXIMATE CURRENT GROUND SURFACE
- APPROXIMATE ORIGINAL GROUND SURFACE
- LITHOLOGIC CONTACT

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST
4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

GEOLOGIC CROSS SECTION A–A' FULL LENGTH

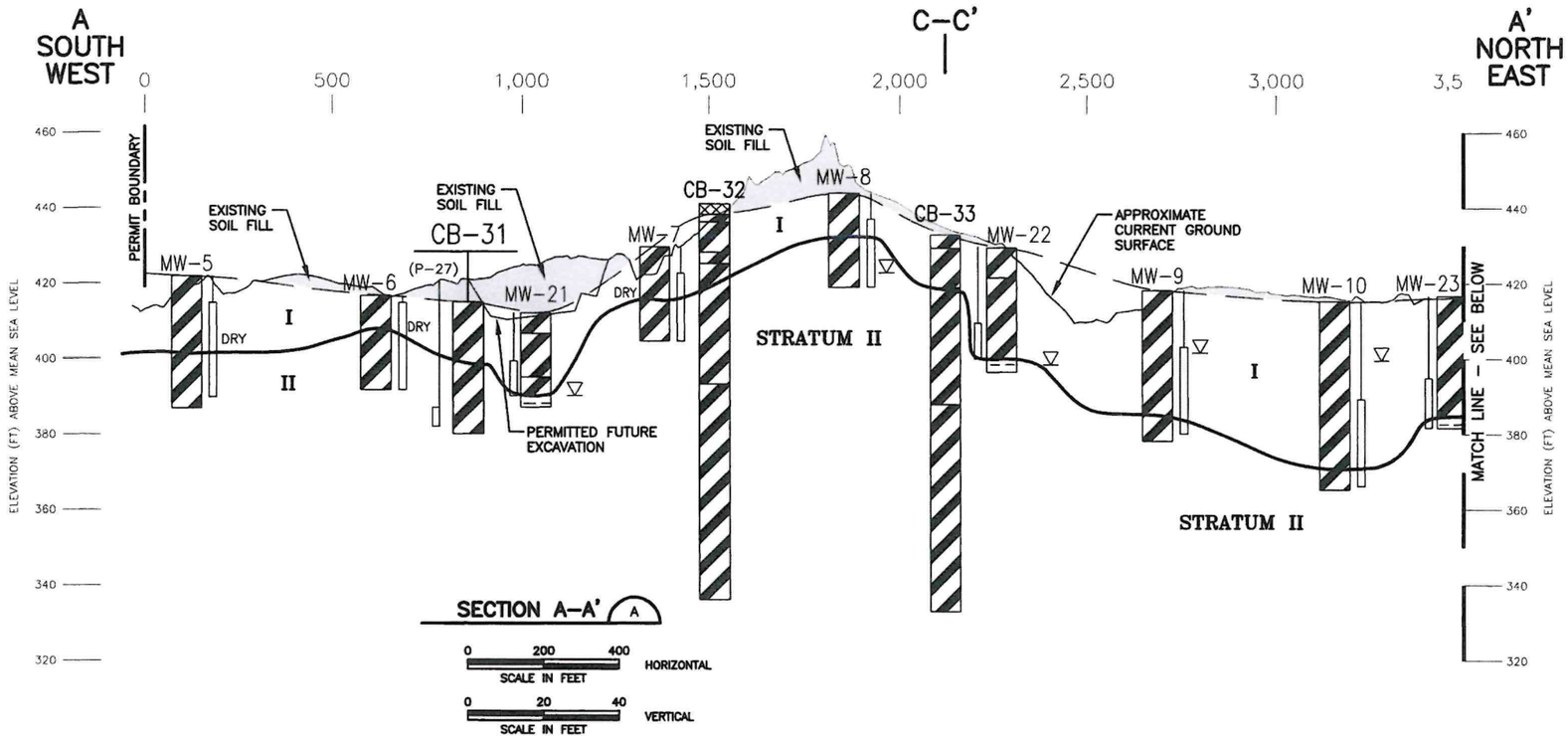
WASTE MANAGEMENT OF TEXAS, INC. SKYLINE LANDFILL MAJOR PERMIT AMENDMENT

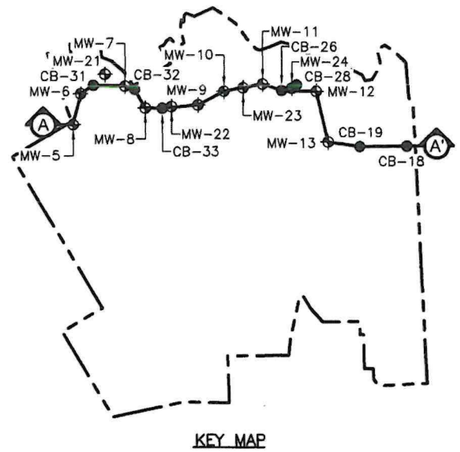
BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817–563–1144
TBPE FIRM NO. F–256 TBPG FIRM NO. 50222

DSN. ESF	DATE : 04/12	FIGURE	
DWN. SRC	SCALE : GRAPHIC	E3–2	
CHK. JMS	DWG : E3–2–7_XSections.dwg		

Copy

J:\101\01\120\ATT EVE3–2–7_XSections.dwg Layout: E3–2 User: scundiff

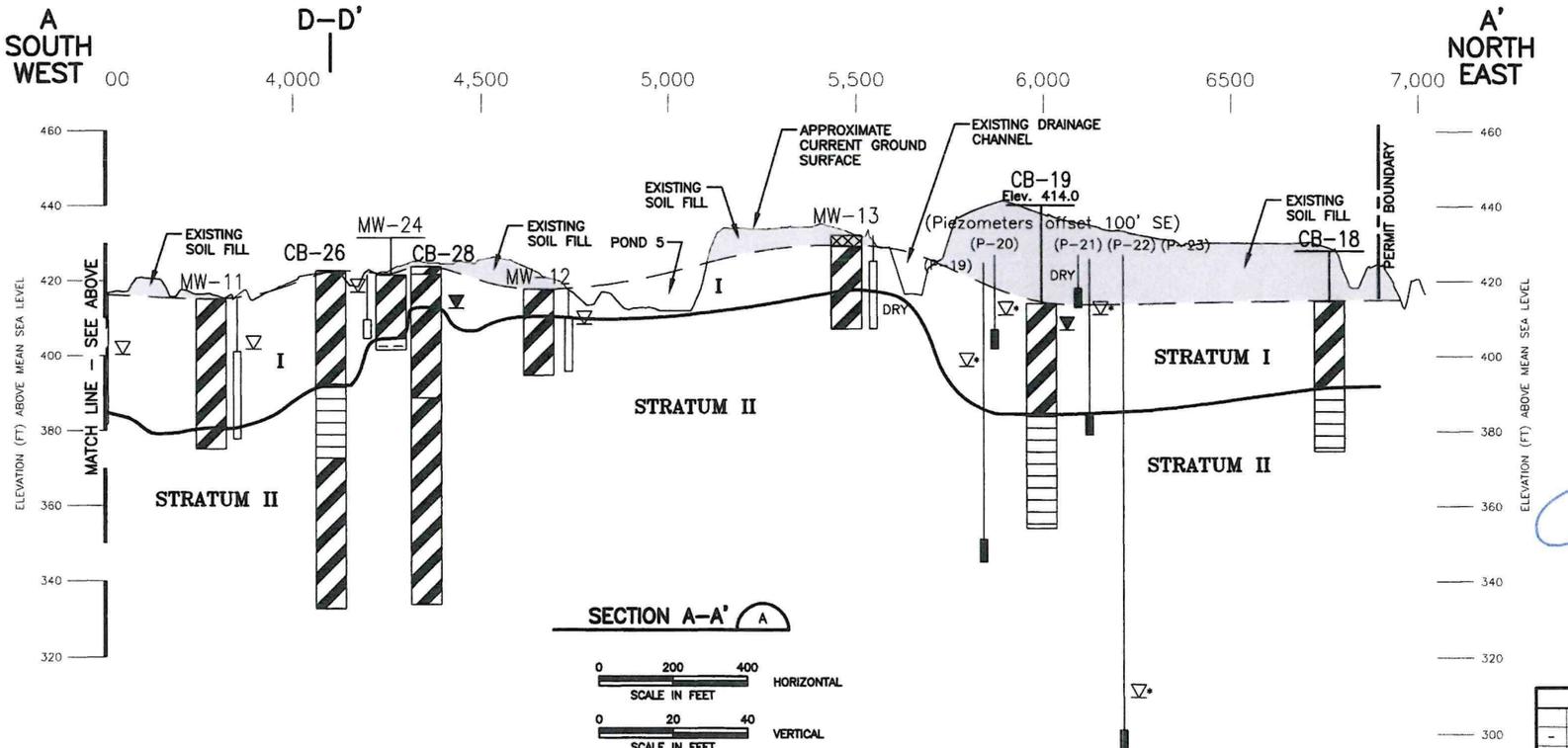




KEY MAP

LEGEND

- Clay (CH)
- Fill
- Claystone (Unweathered Taylor Marl)
- Shale
- APPROXIMATE CURRENT GROUND SURFACE
- APPROXIMATE ORIGINAL GROUND SURFACE
- LITHOLOGIC CONTACT
- ▽ WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- ▼ STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- ▽• WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991
- DRY NO WATER WAS OBSERVED DURING THE JUNE 2010 SAMPLING EVENT



Copy

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS							
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS	

GEOLOGIC CROSS SECTION A–A' (SPLIT)

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

BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144
TBPE FIRM NO. F–256
TBPG FIRM NO. 50222

DSN. ESF | DATE : 07/12
DWN. SRC | SCALE : GRAPHIC
CHK. JMS | DWG : E3–2–7_XSections.dwg

FIGURE E3–2A

J:\101\01\120\ATT EXE3–2–7_XSections.dwg Layout: E3–2A User: scundiff

B WEST

B' EAST

C–C'

D–D'

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 5,000 5,500

ELEVATION (FT) ABOVE MEAN SEA LEVEL

540 520 500 480 460 440 420 400 380 360

PERMIT BOUNDARY

EXISTING SUBTITLE D WASTE FILL

APPROXIMATE CURRENT GROUND SURFACE

EXISTING DRAINAGE CHANNEL

APPROXIMATE ORIGINAL GROUND SURFACE

BIO–PAD

APPROXIMATE ORIGINAL GROUND SURFACE

EXISTING PRE–SUBTITLE D WASTE FILL

APPROXIMATE EXISTING 42–A EXCAVATION

CB–46 (P–29) (P–30)

CB–45

CB–6 LD–1 (P–5,P–6,P–10)

B–3

CB–8

CB–12 (P–8) (P–9)

CB–11

CB–10

STRATUM I

STRATUM II

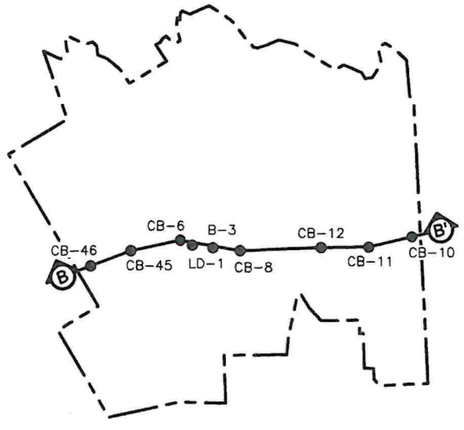
APPROXIMATE EXISTING PERMITTED EXCAVATION

FUTURE PROPOSED EXCAVATION

SECTION B–B' (B)

0 200 400 SCALE IN FEET HORIZONTAL

0 20 40 SCALE IN FEET VERTICAL



KEY MAP

LEGEND

- Clay (CH)
- Claystone (Unweathered Taylor Marl)
- APPROXIMATE CURRENT GROUND SURFACE
- APPROXIMATE ORIGINAL GROUND SURFACE
- LITHOLOGIC CONTACT
- ▽ WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- ▼ STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- ▽* WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991
- DRY NO WATER WAS OBSERVED DURING THE JUNE 2010 SAMPLING EVENT

NOTE:

1. BOTTOM OF 42–1 EXCAVATION IS ESTIMATED BASED ON INFORMATION FROM THE 1978 ORIGINAL PERMIT APPLICATION AND INFORMATION PROVIDED BY WASTE MANAGEMENT.

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

Copy

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

GEOLOGIC CROSS SECTION B–B'

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

BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817–563–1144
TBPE FIRM NO. F–256 TBPG FIRM NO. 50222

DSN.	ESF	DATE :	04/12
DWN.	SRC	SCALE :	GRAPHIC
CHK.	JMS	DWG :	E3–2–7_XSections.dwg

FIGURE E3–3

J:\101\01\120\ATT E\E3–2–7_XSections.dwg Layout: E3–3 User: scundiff

C
NORTH
EAST

B–B'

A–A'

C'
SOUTH
WEST

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 5,000 5,500

ELEVATION (FT) ABOVE MEAN SEA LEVEL

560 540 520 500 480 460 440 420 400 380 360 340

SUBTITLE D WASTE FILL

APPROXIAMTE CURRENT GROUND SURFACE

APPROXIMATE ORIGINAL GROUND SURFACE

SCREENING BERM

PERMIT BOUNDARY

CB–30 CB–33 CB–36 CB–43 CB–45 CB–47 CB–50 CB–52

STRATUM I

STRATUM II

FUTURE DETENTION POND EXCAVATION

POND 29

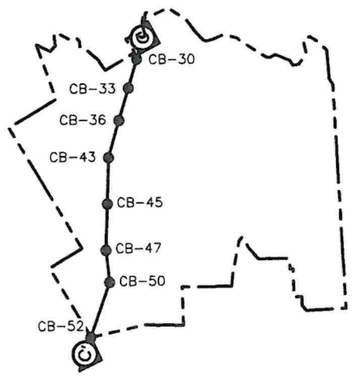
EXISTING PERMITTED EXCAVATION

FUTURE PROPOSED EXCAVATION

SECTION C–C' C

0 200 400 SCALE IN FEET HORIZONTAL

0 20 40 SCALE IN FEET VERTICAL



KEY MAP

LEGEND

Clay (CH)

STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING

APPROXIMATE CURRENT GROUND SURFACE

APPROXIMATE ORIGINAL GROUND SURFACE

LITHOLOGIC CONTACT

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

Copy

GEOLOGIC CROSS SECTION C–C'

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

BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817–563–1144
TBPE FIRM NO. F–256 TBPG FIRM NO. 50222

DSN. ESF	DATE : 02/12	FIGURE	
DWN. SRC	SCALE : GRAPHIC	E3–4	
CHK. JMS	DWG : E3–2–7_XSections.dwg		

J:\101\01\120\ATT E\E3–2–7_XSections.dwg Layout: E3–4 User: scundiff

D
NORTH
EAST

B–B'

A–A'

D'
SOUTH
WEST

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 5,000 5,500

ELEVATION (FT) ABOVE MEAN SEA LEVEL
560 540 520 500 480 460 440 420 400 380 360 340 320

SOIL STOCKPILE

APPROXIMATE CURRENT GROUND SURFACE

APPROXIMATE ORIGINAL GROUND SURFACE

SUBTITLE D WASTE FILL

PERMIT BOUNDARY

APPROXIMATE ORIGINAL GROUND SURFACE

POND 24

CB-28 MW-24 CB-26 CB-24 CB-21 (P-16) (P-15) (P-14) LD-2 CB-8 CB-4 CB-51 CB-53 (P-34) (P-33)

STRATUM I

STRATUM II

I

II

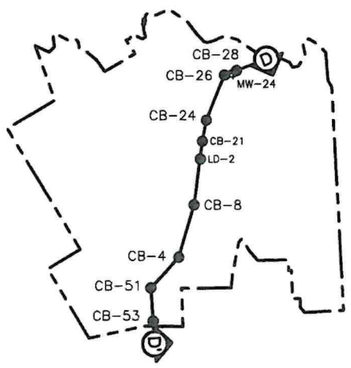
EXISTING PERMITTED EXCAVATION

FUTURE PROPOSED EXCAVATION

SECTION D–D' (D)

0 200 400 SCALE IN FEET HORIZONTAL

0 20 40 SCALE IN FEET VERTICAL



KEY MAP

LEGEND

- Clay (CH)
- Fill
- Claystone (Unweathered Taylor Marl)
- STABILIZED DEPTH TO WATER OBSERVED AFTER DRILLING PRIOR TO PLUGGING
- ▽* WATER LEVEL OBSERVED IN PIEZOMETERS ON JUNE 12, 1991
- APPROXIMATE CURRENT GROUND SURFACE
- APPROXIMATE ORIGINAL GROUND SURFACE
- LITHOLOGIC CONTACT

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST

4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

Copy

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

GEOLOGIC CROSS SECTION D–D'

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

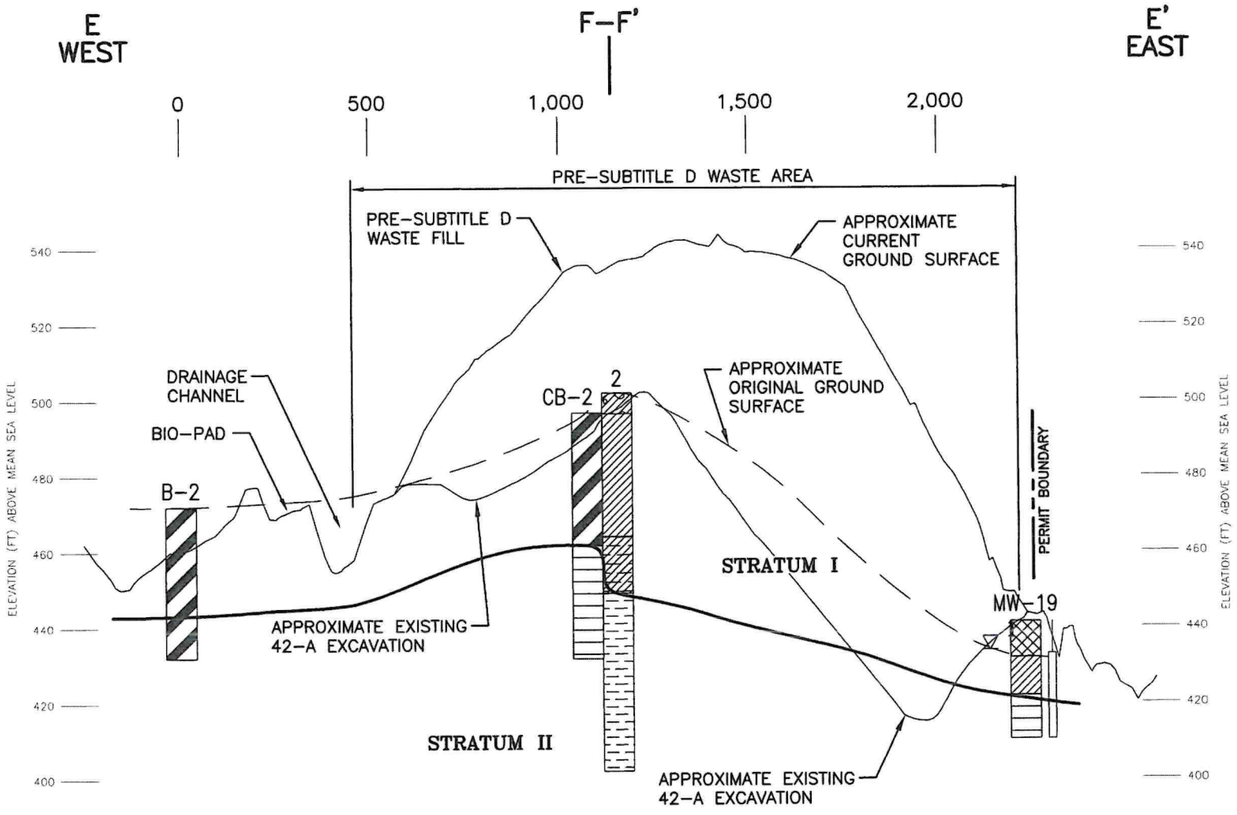
BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817-563-1144

TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

DSN. ESF DATE : 04/12
DWN. SRC SCALE : GRAPHIC
CHK. JMS DWG : E3-2-7_XSections.dwg

FIGURE E3-5

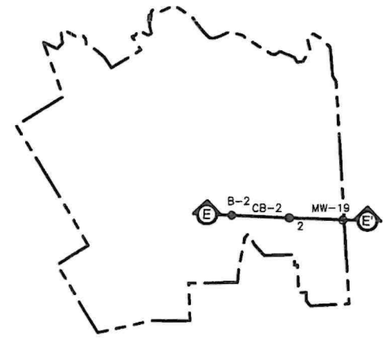
J:\101\01\120\ATT E\E3-2-7_XSections.dwg Layout: E3-5 User: scundiff



SECTION E–E' (E)

0 200 400 HORIZONTAL
SCALE IN FEET

0 20 40 VERTICAL
SCALE IN FEET



KEY MAP

LEGEND

- Clay (CH)
- Clay (CL)
- Fill
- Claystone (Unweathered Taylor Marl)
- Shale
- Shaley Clay
- Gravelly Clay
- WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- APPROXIMATE CURRENT GROUND SURFACE
- APPROXIMATE ORIGINAL GROUND SURFACE
- LITHOLOGIC CONTACT

NOTES:

1. BOTTOM OF 42–A EXCAVATION IS ESTIMATED BASED ON CROSS SECTIONS FROM THE 1978 ORIGINAL PERMIT APPLICATION. WASTE MANAGEMENT PERSONNEL CONFIRM THAT THE NORTH END OF 42A WAS CONSTRUCTED AS PERMITTED. THE CROSS SECTIONS FROM THE ORIGINAL PERMIT ARE INCLUDED IN ATTACHMENT E, APPENDIX E8.

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST
4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

Copy

GEOLOGIC CROSS SECTION E–E'

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

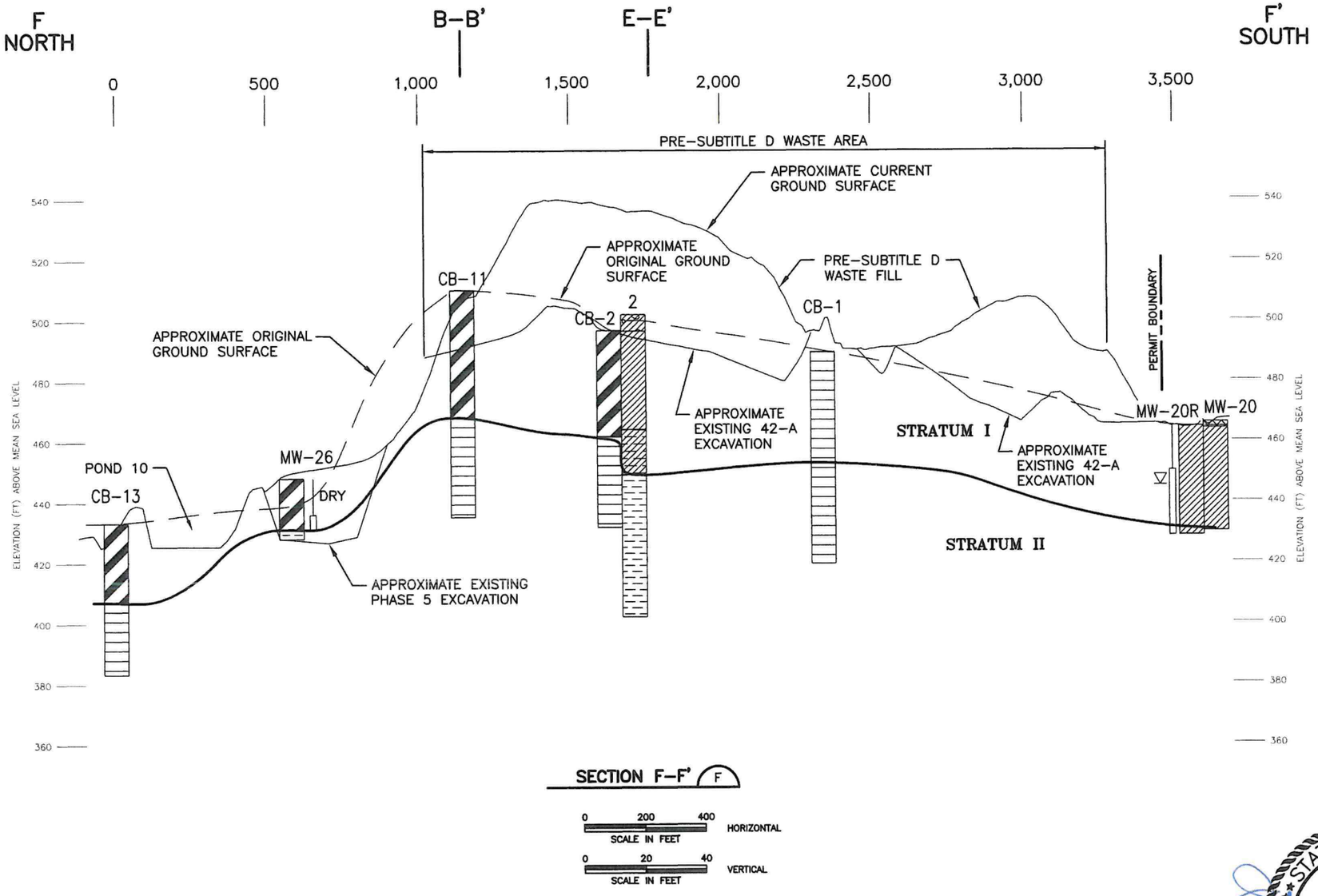
BIGGS & MATHEWS ENVIRONMENTAL
CONSULTING ENGINEERS
MANSFIELD • WICHITA FALLS
817–563–1144

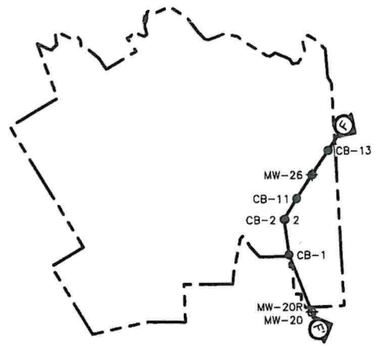
TBPE FIRM NO. F–256 | TBPG FIRM NO. 50222

DSN. ESF | DATE : 07/12
DWN. SRC | SCALE : GRAPHIC
CHK. JMS | DWG : E3–2–7_XSections.dwg

FIGURE E3–6

J:\101\01\120\ATT E\E3–2–7_XSections.dwg Layout: E3–6 User: scundiff





KEY MAP

LEGEND

- Clay (CH)
- Clay (CL)
- Claystone (Unweathered Taylor Marl)
- Shale
- Shaley Clay
- Gravelly Clay
- WATER LEVEL ELEVATION TAKEN DURING JUNE 2010 SAMPLING EVENT
- APPROXIMATE CURRENT GROUND SURFACE
- APPROXIMATE ORIGINAL GROUND SURFACE
- LITHOLOGIC CONTACT

SECTION F–F'

0 200 400 SCALE IN FEET HORIZONTAL

0 20 40 SCALE IN FEET VERTICAL

NOTES:

1. BOTTOM OF 42–A EXCAVATION IS ESTIMATED BASED ON CROSS SECTIONS FROM THE 1978 ORIGINAL PERMIT APPLICATION. WASTE MANAGEMENT PERSONNEL CONFIRM THAT THE NORTH END OF 42A WAS CONSTRUCTED AS PERMITTED. THE CROSS SECTIONS FROM THE ORIGINAL PERMIT ARE INCLUDED IN ATTACHMENT E, APPENDIX E8.

Copy

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST
4-27-2015

ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS						
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

GEOLOGIC CROSS SECTION F–F'

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

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

TBPE FIRM NO. F–256 TBPG FIRM NO. 50222

DSN. ESF	DATE : 07/12	FIGURE	E3–7
DWN. SRC	SCALE : GRAPHIC		
CHK. JMS	DWG : E3–2–7_XSections.dwg		

J:\101\01\120\ATT E\E3–2–7_XSections.dwg Layout: E3–7 User: scundiff

Copy

TEN MILE CREEK

SANITARY SEWER EASEMENT

ATMOS ENERGY EASEMENT

SITE ENTRANCE

ENTRANCE ROAD

GATEHOUSE AND SCALES

SITE ACCESS ROAD

NORTH CENTRAL STREET

LEACHATE STORAGE AREA

COUNTY LINE

SITE ACCESS ROAD

TXU TRANSMISSION LINE

TXU EASEMENT

DALLAS COUNTY
ELLIS COUNTY

FERRIS

0 300 600
SCALE IN FEET

LEGEND

- PERMIT BOUNDARY
- LANDFILL FOOTPRINT
- EXISTING 10' GROUND CONTOUR
- MW-5 EXISTING MONITORING WELL
- CB-15 BORING
- P-1 PIEZOMETER
- CB-17 BORING TO BE DEEPENED
- 400 TOP OF THE UNWEATHERED TAYLOR (10' CONTOUR INTERVAL)
- PRE-SUBTITLE D AREA WITH FINAL COVER
- UNK UNKNOWN–UNABLE TO DETERMINE TOP OF UNWEATHERED TAYLOR FROM THE LOG
- NDE BORING NOT DEEP ENOUGH TO ENCOUNTER THE TOP OF THE UNWEATHERED TAYLOR

NOTES:

1. MONITORING WELL LOCATION MAP MODIFIED FROM ORIGINAL HDR DRAWING.
2. EXISTING CONTOURS COMPILED BY AEROMETRIC FROM AERIAL PHOTOGRAPHY, FLOWN MARCH 6, 2011. COORDINATE SYSTEM IS BASED ON TEXAS STATE PLANE NAD 27, TEXAS NORTH CENTRAL ZONE, US FEET.
3. PLEASE SEE ATTACHMENT E, SECTION 4 FOR INFORMATION EXPLAINING THE VARIOUS SETS OF SOIL BORINGS.

STATE OF TEXAS
JOHN MICHAEL SNYDER
GEOLOGY
595
LICENSED
PROFESSIONAL GEOSCIENTIST
4-27-2015

STRUCTURAL CONTOUR MAP TOP OF THE UNWEATHERED TAYLOR

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

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

TBPE FIRM NO. F-256 TBPG FIRM NO. 50222

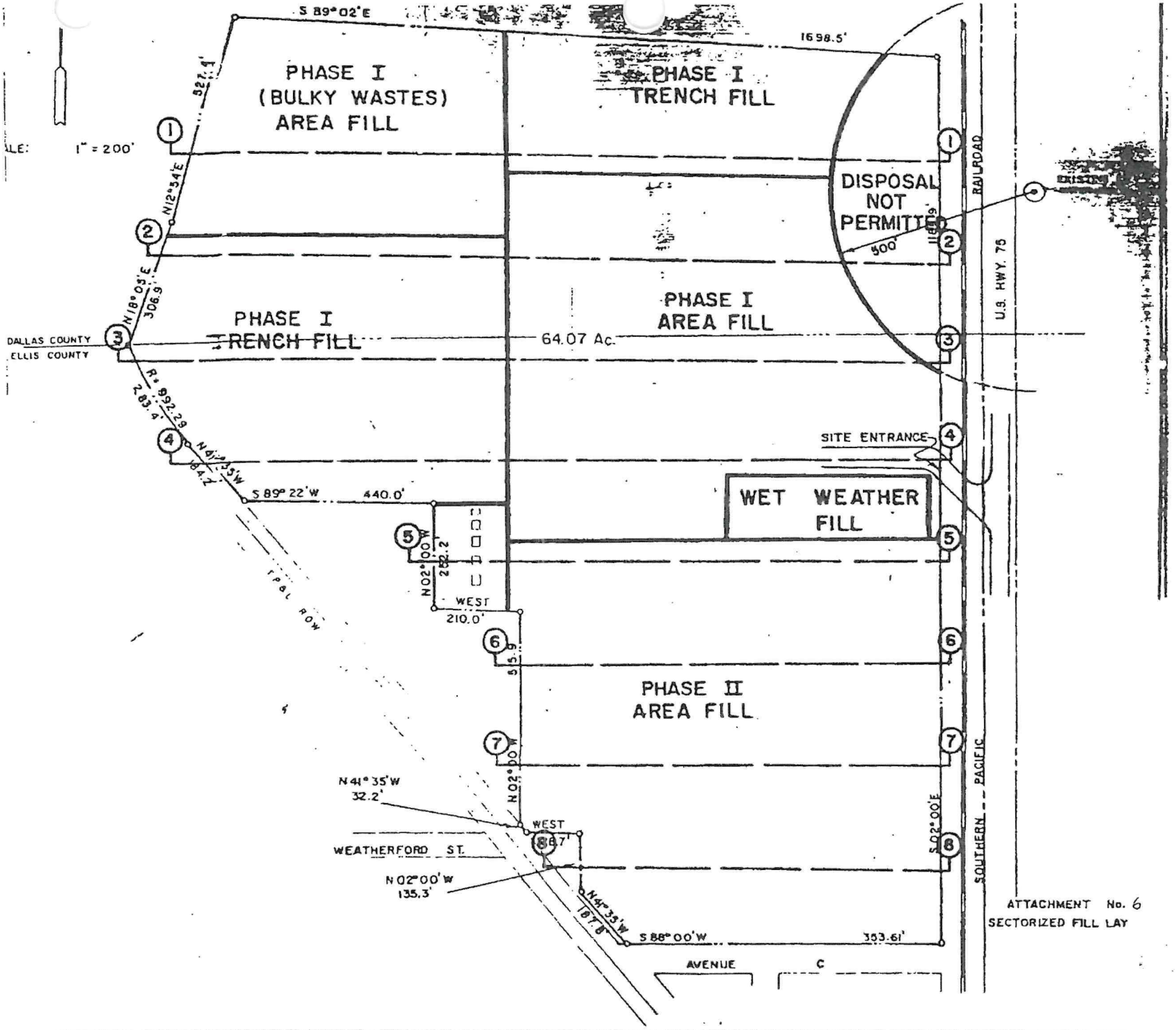
REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
–	4/2/15	TECHNICALLY COMPLETE	SRC	ESF	ESF	JMS

ISSUED FOR PERMITTING PURPOSES ONLY

DSN. ESF DATE : 04/12
DWN. SRC SCALE : GRAPHIC
CHK. JMS DWG : E3-8_TopTaylor.dwg

FIGURE E3-8

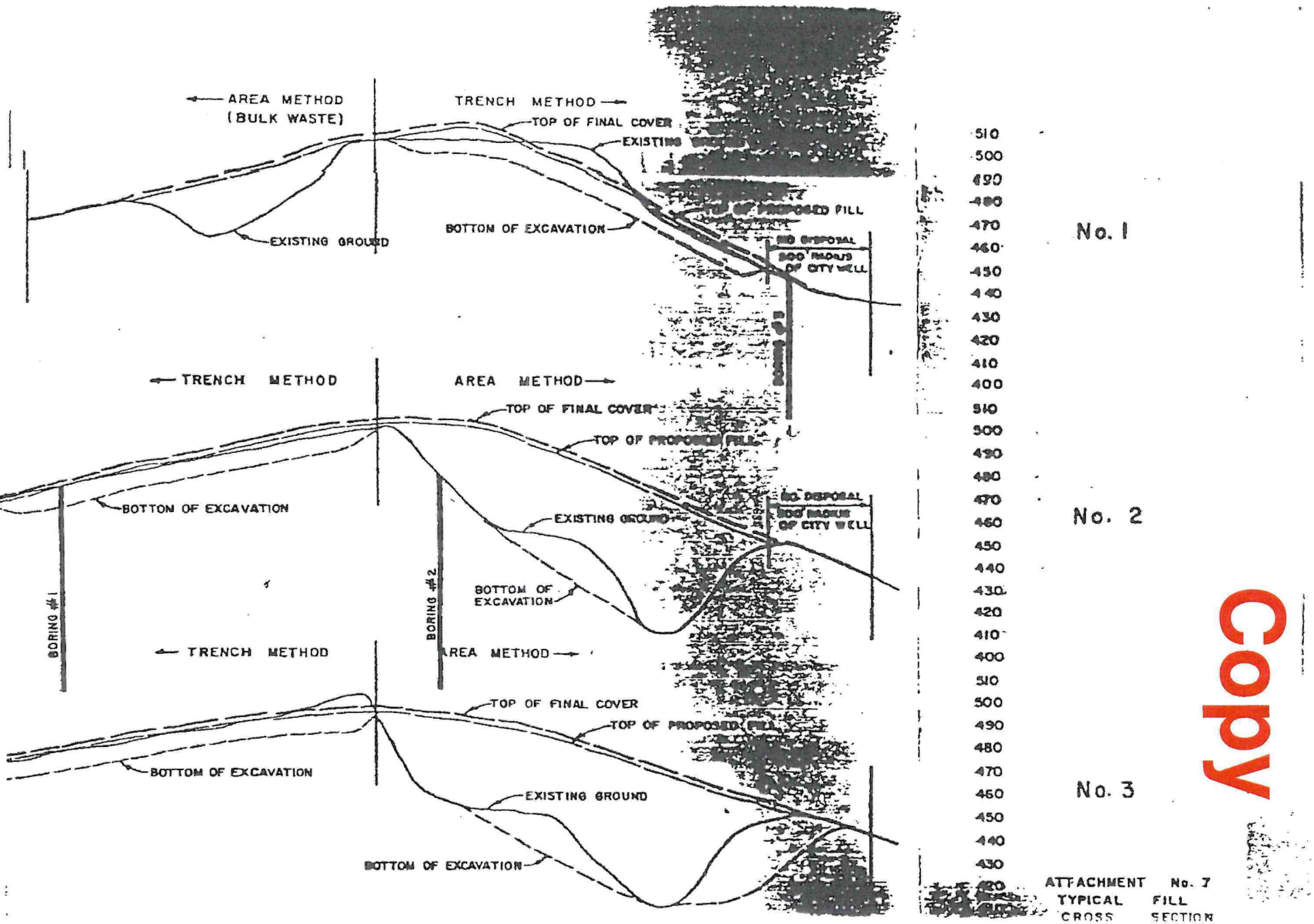
J:\101\01\120\ATT E\E3-8_TopTaylor.dwg Layout: Layout 1 User: scundiff



ATTACHMENT No. 6
SECTORIZED FILL LAY

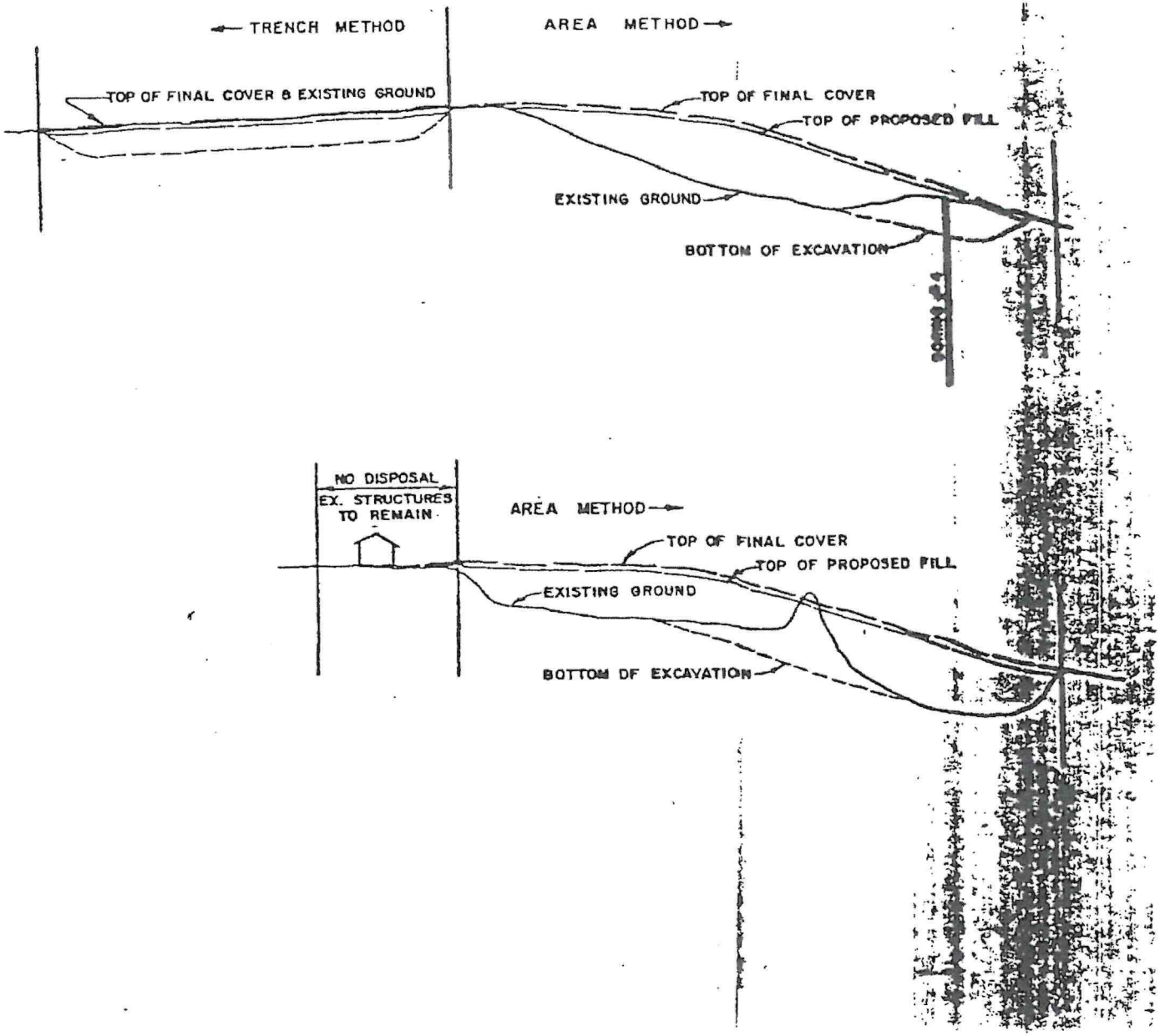
Copy

E7.10



ATTACHMENT No. 7
TYPICAL FILL
CROSS SECTION

Copy



500
490
480
470
460
450
440
430
420
410
400

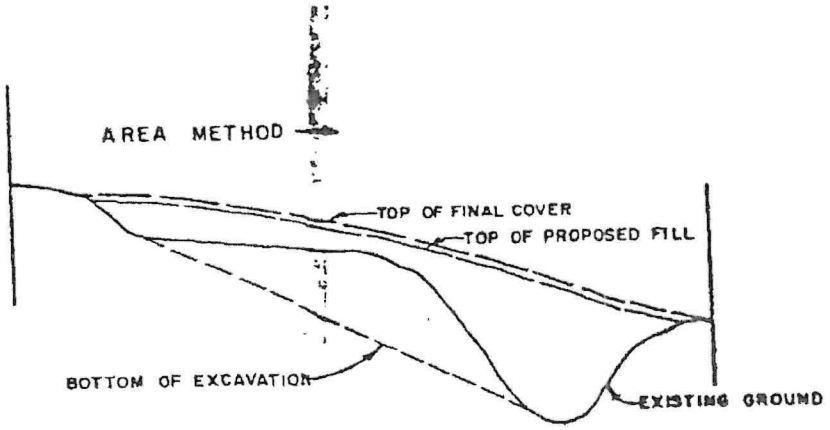
No. 4

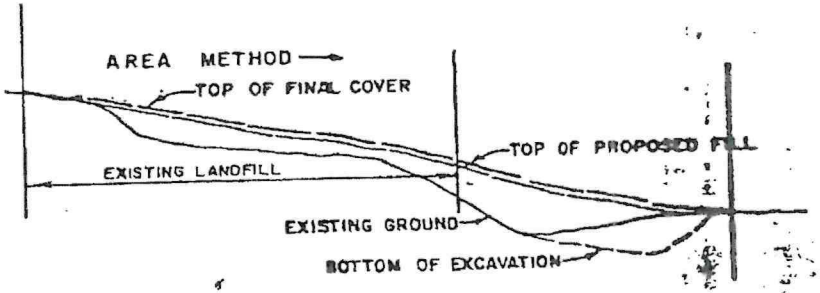
490
480
470
460
450
440
430

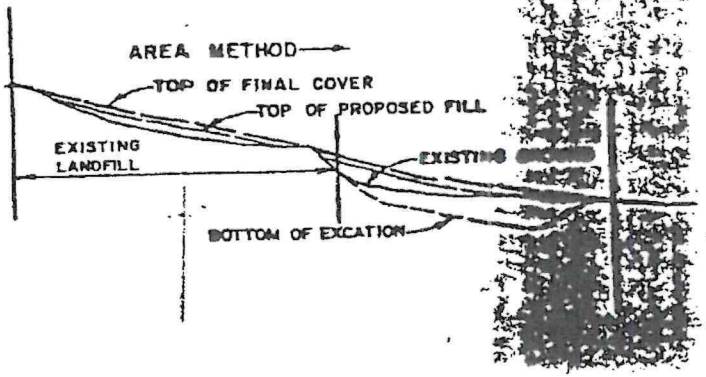
No. 5

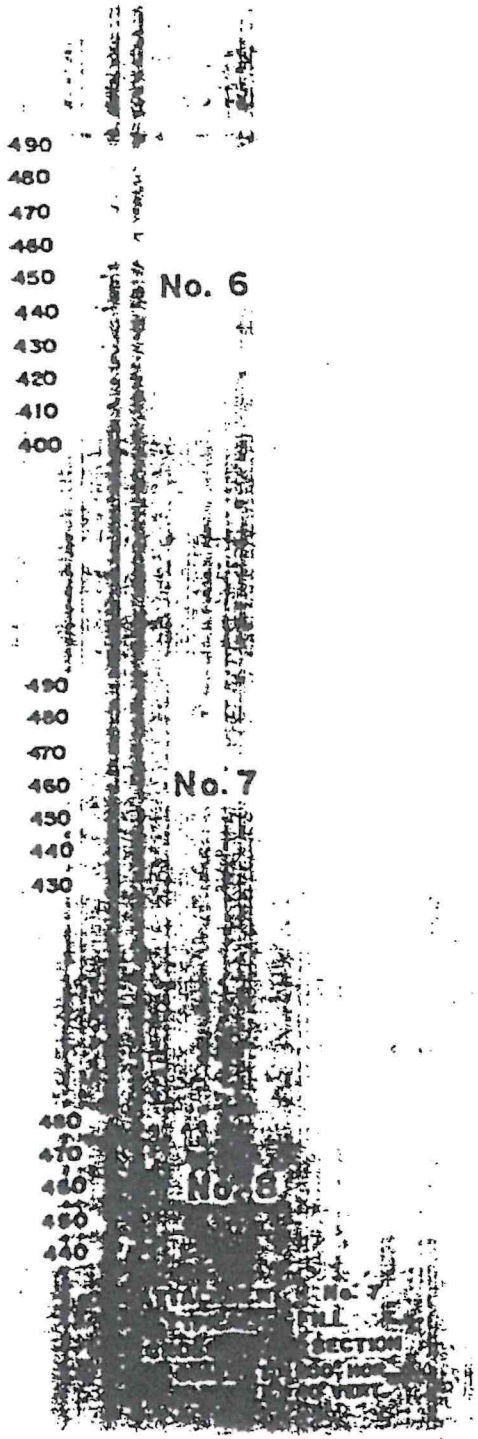
Copy

ATTACHMENT
TYPICAL FI
CROSS SECT
SCALE: 1" = 100'
1" = 40' V


AREA METHOD
TOP OF FINAL COVER
TOP OF PROPOSED FILL
BOTTOM OF EXCAVATION
EXISTING GROUND


AREA METHOD
TOP OF FINAL COVER
TOP OF PROPOSED FILL
EXISTING LANDFILL
EXISTING GROUND
BOTTOM OF EXCAVATION


AREA METHOD
TOP OF FINAL COVER
TOP OF PROPOSED FILL
EXISTING LANDFILL
BOTTOM OF EXCATION


490
480
470
460
450
440
430
420
410
400
No. 6
No. 7
No. 8

Copy

SKYLINE LANDFILL

APPENDIX E8

GEOTECHNICAL DATA

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
McBride-Ratcliff - 1987-1990	I	CB-1	476.5	78	24	54		26			
	I	CB-1	456.5	81	24	57		25			
	I	CB-1	446.5	81	27	54		20			
	I	CB-1	436.5	76	25	51		19			
	I	CB-2	488.7	90	24	66		27			
	I	CB-2	473.7	86	26	60		25			
	I	CB-2	453.7	73	24	49		21			
	I	CB-2	433.7	73	24	49		17			
	I	CB-3	476.2	79	26	53		28			
	I	CB-3	451.2	97	31	66		30			
	I	CB-3	441.2	92	30	62		25			
	I	CB-3	436.2	92	29	63		24			
	I	CB-4	481.7	74	27	47		29			
	I	CB-4	471.7	69	26	43		29			
	I	CB-4	456.7	80	27	53		28			
	I	CB-4	451.7	90	26	64		25			
	I	CB-5	473.0	86	30	56		27			
	I	CB-5	448.0	92	28	64		25			
	I	CB-5	443.0	90	31	59		23			
	I	CB-5	433.0	78	27	51		18			
	I	CB-6	483.4	94	66	28		28			
	I	CB-6	473.4	89	61	28		28			
	I	CB-6	458.4	85	56	29		29			
	II	CB-6	438.4	77	58	19		19			
	I	CB-7	456.6	80	53	27		27			
	II	CB-7	446.6	87	61	26		26			
	II	CB-7	436.6	88	62	26		26			
	II	CB-7	421.6	93	70	23		23			
	I	CB-8	482.5	82	46	36		36			
	I	CB-8	462.5	83	56	27		27			
	II	CB-8	442.5	89	60	29		29			
	II	CB-8	422.5	90	68	22		22			
	I	CB-9	489.7	82	55	27		27			
	I	CB-9	469.7	91	65	26		26			
	II	CB-9	454.7	92	68	24		24			
	II	CB-9	434.7	65	45	20		20			

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
McBride-Ratcliff - 1987-1990	I	CB-10	427.8	68	40	28		28			
	I	CB-10	417.8	72	53	19		19			
	I	CB-10	407.8	75	57	18		18			
	I	CB-11	507.1	56	38	18		18			
	I	CB-11	492.1	50	33	17		17			
	I	CB-11	477.1	80	55	25		25			
	I	CB-11	462.1	74	55	19		19			
	I	CB-12	445.8	72	48	24		24			
	I	CB-12	430.8	73	52	21		21			
	I	CB-12	420.8	64	44	20		20			
	I	CB-13	430.4	86	25	61		24			
	II	CB-13	415.4	73	24	49		28			
	II	CB-13	410.4	74	27	47		27			
	II	CB-13	390.4	78	24	54		18			
	I	CB-15	435.0	69	29	40		31			
	II	CB-15	425.0	70	28	42		21			
	II	CB-15	410.0	65	27	38		19			
	I	CB-16	437.4	69	21	48		24			
	I	CB-16	427.4	71	28	43		27			
	II	CB-16	417.4	65	26	39		22			
	II	CB-16	412.4	63	28	35		22			
	I	CB-17	475.6	73	28	45		23			
	I	CB-17	460.6	79	29	50		23			
	II	CB-17	445.6	85	27	58		20			
	II	CB-17	430.6	87	27	60		18			
	I	CB-18	411.6	81	26	55		28			
	I	CB-18	401.6	73	26	47		25			
	I	CB-18	391.6	71	28	43		18			
	II	CB-18	381.6	67	27	40		18			
	I	CB-19	406.0	76	24	52		26			
	I	CB-19	396.0	71	23	48		27			
	II	CB-19	381.0	65	28	37		31			
	II	CB-19	371.0					20			
	I	CB-20	493.1	83	28	55		19			
	I	CB-20	478.1	74	27	47		25			
	I	CB-20	463.1	78	25	53		22			

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
McBride-Ratcliff - 1987-1990	II	CB-20	438.1	79	27	52		18			
	I	CB-21	501.2	65	25	40		28			
	I	CB-21	481.2	75	27	48		25			
	II	CB-21	451.2	69	28	41		20			
	II	CB-21	411.2	67	27	40		19			
	I	CB-22	406.3	77	29	48		26			
	I	CB-22	401.3	70	27	43		17			
	II	CB-22	386.3	91	28	63		15			
	I	CB-23	444.6	72	22	50		20			
	II	CB-23	439.6	74	27	47		24			
	II	CB-23	434.6	66	27	39		20			
	II	CB-23	429.6	62	28	34		23			
	I	CB-24	485.7	73	25	48		22			
	I	CB-24	460.7	67	26	41		20			
	II	CB-24	435.7	75	26	49		19			
	I	CB-25	433.0	74	28	46		23			
	I	CB-25	423.0	70	26	44		21			
	I	CB-25	413.0	67	24	43		16			
	I	CB-25	403.0	62	26	36		20			
	I	CB-26	441.5	70	26	44		26			
	I	CB-26	431.5	73	26	47		28			
	I	CB-26	421.5	77	22	55		25			
	I	CB-26	411.5	71	27	44		21			
	II	CB-27	400.1	75	21	54		27			
	II	CB-27	390.1	78	23	55		26			
	II	CB-27	380.1	59	23	36		20			
	II	CB-27	370.1	60	24	36		16			
	I	P-12	436.0	72	33	39		27	91		
	I	P-12	431.0	72	35	37		28			
	I	P-13	437.0	75	38	37		26			
	I	P-13	432.0	74	34	40		27	93		
	I	P-13	427.0	73	35	38		26	93		
	I	P-13	422.0	47	27	20		21	103		
	I	P-13	417.0	72	26	46		18			
	I	P-13	412.0	67	29	38		18	110		
	I	P-13	407.0	62	25	37		18			

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
McBride-Ratcliff - 1987-1990	I	P-14	501.0	76	30	46		20	83		
	I	P-14	496.0	63	27	36		21			
	I	P-14	486.0					28			
	I	P-14	476.0	72	33	39		24			
	I	P-15	486.0	73	30	43		27	96		
	I	P-16	501.0	69	21	48		18	102		
	I	P-16	496.0	89	30	59		28	97		
	I	P-16	491.0	80	29	51		29			
	I	P-16	486.0	77	30	47		27	96		
	I	P-16	481.0	67	29	38		26	96		
	I	P-16	476.0					26	100		
	I	P-16	471.0	79	32	47		23	97		
	I	P-16	466.0					20			
	I	P-16	461.0	59	27	32		22	96		
	II	P-16	453.0	86	31	55		21			
	II	P-16	450.0	80	31	49		22	103		
	II	P-16	445.0	90	32	58		21	103		
	I	P-17	477.0	77	42	35		28	93.2		
	I	P-17	467.0	77	42	35		29			
	I	P-18	482.0	79	26	53					
	I	P-18	477.0					30	92		
	I	P-18	472.0	80	28	52		29	92		
	I	P-18	467.0					27			
	I	P-18	462.0	78	32	46		23	93		
	I	P-18	457.0	81	33	48		28	91		
	I	P-18	452.0	84	30	54		29	92		
	I	P-19	414.0	85	28	57		31			
	I	P-19	404.0					24	96		
	I	P-19	394.0	72	30	42		20	78		
	II	P-19	384.0				99	19	104		
	II	P-19	374.0					18			
	II	P-19	364.0	80	33	47		18	98		
	II	P-19	354.0					18			
	II	P-19	348.0					17	101		
	I	P-20	416.0					29	94		
	I	P-20	406.0	74	31	43		29	95		

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
McBride-Ratcliff - 1987-1990	I	P-21	416.0					32	93		
	I	P-22	416.0					30			
	I	P-22	406.0	77	24	53		29	96		
	I	P-22	396.0	77	30	47		20	96		
	II	P-22	386.0	75	28	47		19	107		
	I	P-23	421.0	78	28	50		19	97		
	I	P-23	416.0					29			
	I	P-23	411.0	71	23	48		30	90		
	I	P-23	406.0					29	90		
	I	P-23	401.0	62	29	33		31	84		
	I	P-23	396.0	65	26	39	99	8	112		
	I	P-23	391.0	85	30	55		20	109		
	II	P-23	381.0	63	28	35		19	99		
	II	P-23	371.0	70	21	49		19	86		
	II	P-23	366.0					19			
	II	P-23	361.0	77	30	47		19	101		
	II	P-23	356.0				99	19			
	II	P-23	351.0	66	33	33		17	98		
	II	P-23	346.0	83	25	58		19	73		
	II	P-23	341.0					19	100		
	II	P-23	331.0	84	30	54		19	93		
	II	P-23	326.0					16			
	II	P-23	321.0	75	27	48		17	101		
	II	P-23	316.0	78	30	48					
	II	P-23	311.0	71	28	43		16	98		
	II	P-23	306.0					16			
	II	P-23	298.0	77	26	51		16			
HDR Engineering - 1991	I	CB-28	418.8	85	26	59	99.6				
	I	CB-28	408.8	81	37	44					
	I	CB-29	395.5	70	23	47					
	I	CB-32	433.3	76	24	52		30			
	I	CB-33	417.0	65	24	41					
	I	CB-34	463.3	74	27	47					
	I	CB-34	413.3	72	26	46	99.6	14			
	I	CB-35	429.9	72	28	44		20			
	I	CB-35	424.9	74	28	46		21			

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
HDR Engineering - 1991	I	CB-36	432.7	71	24	47		30			
	I	CB-36	422.7	63	22	41		19			
	I	CB-37	432.8	64	26	38					
	I	CB-38	433.5	61	24	37					
	I	CB-39	478.8	66	27	39	99.6	27			4.00E-09
	I	CB-39	463.8	72	25	47		26			
	I	CB-39	418.8	63	24	39		18			
	I	CB-40	427.1	74	26	48					
	I	CB-40	422.1	71	22	49					
	I	CB-41	470.4	79	25	54		23	102		
	I	CB-42	452.2	72	27	45		24			
	I	CB-42	437.2	70	24	46		21			
	I	CB-42	392.2	56	26	30		34			
	I	CB-44	437.2	74	24	50		26	98		
	II	CB-44	382.2	61	23	38		22			
	I	CB-45	426.5	74	25	49		20			
	I	CB-46	457.4	73	25	48		27			
	I	CB-46	437.4	70	22	48		22			
	I	CB-48	482.3	67	24	43	98.4	28			
	I	CB-48	447.3	65	19	46	99.7	20			6.80E-09
	I	CB-49	488.7	44	20	24		22	105		
	I	CB-49	473.7	82	24	58		29			
	I	CB-50	462.3	69	22	47	98.4	27			
	I	CB-50	437.3	62	24	38		22			
	I	CB-51	452.1	75	25	50		28			
	I	CB-51	418.1	62	24	38	99.2	21			
	I	CB-52	460.3	81	22	59		27	97		
	I	CB-52	425.3	73	22	51		22	102		
	I	CB-53	476.4	73	19	54		33			
	I	CB-53	446.4	73	19	54		28			
	I	CB-53	436.4	67	23	44		25			
	I	CB-54	453.9	79	25	54		27	97		
	I	CB-55	459.5	87	32	55		33			
	I	CB-56	446.1	79	26	53		27			
	I	CB-56	436.1	69	30	39		22			
Biggs & Mathews Environmental, Inc. - 2011-2012	II	CB-21	396.6								8.20E-09
	II	CB-33	378.9								9.0E-09
	II	CB-36	384.7								6.0E-09
	II	TP-1	426.0								8.90E-08

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
Biggs & Mathews Environmental, Inc.-2024	I	BME-01	493.4	80	22	58		26			
	II	BME-01	468.4				96	22			
	I	BME-02	443.1	84	24	60		23			
	II	BME-02	403.1	56	20	36		18			
	I	BME-03	427.5				95				
	II	BME-03	372.5	49	17	32		17			
	I	BME-04	465.4	75	21	54	97	17			
	II	BME-04	446.9				99				
	I	BME-05	448.0	47	17	30		20			
	II	BME-05	383.0				93	18			
	I	BME-06	472.6	75	25	50	94	19			
	I	BME-07	450.5							2.56	
	I	BME-07	447.5	82	23	59	98	17	111		
	II	BME-07	428.5					20	109		
	I	BME-08	438.7	84	24	60		20			
	II	BME-08	408.7				98	18			
	II	BME-09	431.5	44	16	28		18			
	I	BME-10	475.8	80	24	56		17			
	II	BME-10	382.8	68	24	44		19			
	I	BME-11	445.4	78	22	56		22	105		
	II	BME-11	440.4					20	105		
	II	BME-12	481.3	84	23	61		24	97		
	II	BME-12	479.3							2.72	
	II	BME-12	447.3	47	19	28		22	99		
	I	BME-13	486.4	81	24	57		16			
	II	BME-13	397.4	84	24	60	99	18			
	I	BME-14	456.6	83	22	61		27	97		
	II	BME-14	449.6	78	25	53		22	106		
	II	BME-14	411.6					17	115		
	I	BME-15	495.9				92				
	II	BME-15	404.9	40	15	25		17			
	I	BME-16	474.7	82	24	58		24	100		
	I	BME-16	469.7							2.72	
	II	BME-16	404.7					18	112		
	I	BME-17	478.4				98				
	II	BME-17	408.4	58	21	37		15			
	I	BME-18	484.2	81	22	59		24			
	II	BME-18	444.2	42	19	23		21			
	I	BME-19	491.6	42	14	28		12			
	II	BME-19	441.6	45	16	29		6			
	I	BME-20	488.1	84	24	60		18	112		

Skyline Landfill
Summary of Laboratory Results

				Atterberg Limits							
Subsurface Exploration	Stratum	Boring #	Sample Elevation, ft msl	Liquid Limit, %	Plastic Limit, %	Plasticity Index, %	Passing 200 Sieve, %	Moisture, %	Unit Dry Weight, pcf	Specific Gravity	Permeability, cm/sec
Biggs and Mathews Environmental, Inc.- 2024	I	BME-20	461.1							2.66	
	II	BME-20	456.1	48	18	30	88	22	104		
	II	BME-21	510.6	67	22	45		25			
	I	BME-22	490.4	84	22	62		30	91		
	II	BME-22	425.4					20	107		
	I	BME-23	515.5	49	18	31		19			
	I	BME-23	475.5	66	20	46	85	18			
	I	BME-24	489.1	68	21	47		21			
	II	BME-24	434.1	46	17	29		13			
	I	BME-25	454.7	81	25	56	98	24			
	I	BME-26	457.8	76	23	56		25			
	I	BME-27	460.6				99				

LANDTEC engineers

1700 Robert Road, Suite 101
Mansfield, Texas 76063
Metro 817.572.2818
Fax 817.453.9984

CLIENT: Biggs & Mathews Environmental, Inc.
1700 Robert Road, Ste. 100
Mansfield, TX 76063

REPORT DATE: 2/8/2012

PROJECT NO.: 0611-1655

PROJECT: Skyline Landfill Expansion

HYDRAULIC CONDUCTIVITY WORKSHEET

FALLING HEAD, RISING TAILWATER, CONSTANT VOLUME - FLEXIBLE WALL PERMEAMETER

LOCATION:
MATERIAL: Shale, gray
BORING/SAMPLE: CB-21
PROCTOR # :
SAMPLE ORIENTATION: Vertical
Remold

LAB START DATE: 2/4/2012
LAB RPT. DATE: 2/8/2012
TECHNICIAN: MLT
DEPTH/LIFT: 124.7'-125.4'
PERM FLUID USED: De-aired Tap Water

a. Length of Specimen, L: 2.01 in
b. Avg. Diameter of Specimen: 1.86 in
c. Sample Volume (π b^2 / 4 * a): 5.46 cu in
d. Wet Unit Weight: [(e * 3.8095) / c)]: 134.6 pcf

INITIAL CONDITIONS

e. Wet Weight Soil: 192.9 gms
f. Wet Weight Soil + Tare: 291.5 gms
g. Dry Weight Soil + Tare: 264.1 gms
h. Tare Weight: 98.6 gms
i. Moisture Content [(f-g)/(g-h)]*100: 16.6 %
j. Unit Dry Weight [d/(1+(i/100))]: 115.4 pcf

FINAL CONDITIONS

k. Wet Weight Soil + Tare: 292.9 gms
l. Dry Weight Soil + Tare: 264.1 gms
m. Tare Weight: 98.6 gms
n. Moisture Content [(k-l)/(l-m)]*100: 17.4 %

Specific Gravity of Mercury, d_{Hg}: 13.55
Specific Gravity of Water, d_w: 1.00

Equilibrium Head, R_{eq}: 2.0 cm
Maximum Pipet Head, R_p: 13.72 cm
Maximum Gradient, i: 30.0 cm/cm

B COEFFICIENT DETERMINATION						PRESSURE, psi			
	P3	Delta Pressure	Back Pressure, bp	Pore Pressure	B Coeff.	Trial	P3 cp	Inflow ha, in	Outflow ha, out
		10							
		10							
		10							
7-Feb	45	10	40	49.5	0.95	1	45	40	40

	Time	Cumul. Time, s	Head Reading H, cm	Total Head Loss Dz_p, cm	Temp C	Rt	k @ 20C cm/sec
2/7/2012	07:00		13.70				
2/7/2012	07:12	720	13.50	0.20	22	0.953	1.6E-08
2/7/2012	07:20	1200	13.40	0.30	22	0.953	1.4E-08
2/7/2012	07:30	1800	13.30	0.40	22	0.953	1.3E-08
2/7/2012	07:39	2340	13.30	0.40	22	0.953	9.9E-09
2/7/2012	07:47	2820	13.30	0.40	22	0.953	8.2E-09

Test Method ASTM D 5084-90

Pipet Area = 0.031416 sq cm
Annulus Area = 0.767120 sq cm

LANDTEC engineers

1700 Robert Road, Suite 101
Mansfield, Texas 76063
Metro 817.572.2818
Fax 817.453.9984

CLIENT: Biggs & Mathews Environmental, Inc.
1700 Robert Road, Ste. 100
Mansfield, TX 76063

REPORT DATE: 2/8/2012

PROJECT NO.: 0611-1655

PROJECT: Skyline Landfill Expansion

HYDRAULIC CONDUCTIVITY WORKSHEET

FALLING HEAD, RISING TAILWATER, CONSTANT VOLUME - FLEXIBLE WALL PERMEAMETER

LOCATION:
MATERIAL: Shale, gray
BORING/SAMPLE: CB-33
PROCTOR # :
SAMPLE ORIENTATION: Vertical
Remold

LAB START DATE: 2/4/2012
LAB RPT. DATE: 2/8/2012
TECHNICIAN: MLT
DEPTH/LIFT: 54.0'-55.0'
PERM FLUID USED: De-aired Tap Water

a. Length of Specimen, L: 2.6 in
b. Avg. Diameter of Specimen: 1.94 in
c. Sample Volume ($\pi b^2 / 4 * a$): 7.69 cu in
d. Wet Unit Weight [(e * 3.8095) / c)]: 135.6 pcf

INITIAL CONDITIONS		FINAL CONDITIONS	
e. Wet Weight Soil:	273.6 gms	k. Wet Weight Soil + Tare:	372.5 gms
f. Wet Weight Soil + Tare:	370.8 gms	l. Dry Weight Soil + Tare:	333.1 gms
g. Dry Weight Soil + Tare:	333.1 gms	m. Tare Weight:	97.2 gms
h. Tare Weight:	97.2 gms	n. Moisture Content [(k-l)/(l-m)]*100:	16.7 %
i. Moisture Content [(f-g)/(g-h)]*100:	16.0 %		
j. Unit Dry Weight [d/(1+(i/100))]:	116.9 pcf		

Specific Gravity of Mercury, d_{Hg}: 13.55
Specific Gravity of Water, d_w: 1.00

Equilibrium Head, R_{eq}: 2.0 cm
Maximum Pipet Head, R_p: 17.17 cm
Maximum Gradient, i: 30.0 cm/cm

B COEFFICIENT DETERMINATION						PRESSURE, psi			
	P3	Delta Pressure	Back Pressure, bp	Pore Pressure	B Coeff.	Trial	P3 cp	Inflow hs, in	Outflow hs, out
		10							
		10							
		10							
7-Feb	45	10	40	49.5	0.95	1	45	40	40

	Time	Cumul. Time, s	Head Reading H, cm	Total Head Loss Dz_p, cm	Temp C	Rt	k @ 20C cm/sec
2/7/2012	07:51		17.10				
2/7/2012	08:02	660	16.80	0.30	22	0.953	2.4E-08
2/7/2012	08:15	1440	16.70	0.40	22	0.953	1.5E-08
2/7/2012	08:27	2160	16.60	0.50	22	0.953	1.2E-08
2/7/2012	08:42	3060	16.50	0.60	22	0.953	1.0E-08
2/7/2012	08:50	3540	16.50	0.60	22	0.953	9.0E-09

Test Method ASTM D 5084-90

Pipet Area = 0.031416 sq cm
Annulus Area = 0.767120 sq cm

LANDTEC engineers

1700 Robert Road, Suite 101
Mansfield, Texas 76063
Metro 817.572.2818
Fax 817.453.9984

CLIENT: Biggs & Mathews Environmental, Inc.
1700 Robert Road, Ste. 100
Mansfield, TX 76063

REPORT DATE: 2/8/2012

PROJECT NO.: 0611-1655

PROJECT: Skyline Landfill Expansion

HYDRAULIC CONDUCTIVITY WORKSHEET

FALLING HEAD, RISING TAILWATER, CONSTANT VOLUME - FLEXIBLE WALL PERMEAMETER

LOCATION:
MATERIAL: Shale, gray
BORING/SAMPLE: CB-36
PROCTOR # :
SAMPLE ORIENTATION: Vertical
Remold

LAB START DATE: 2/4/2012
LAB RPT. DATE: 2/8/2012
TECHNICIAN: MLT
DEPTH/LIFT: 53.7'-54.6'
PERM FLUID USED: De-aired Tap Water

a. Length of Specimen, L: 2.74 in
b. Avg. Diameter of Specimen: 1.98 in
c. Sample Volume (π b^2 / 4 * a): 8.44 cu in
d. Wet Unit Weight: [(e * 3.8095) / c)]: 133.5 pcf

INITIAL CONDITIONS

e. Wet Weight Soil: 295.7 gms
f. Wet Weight Soil + Tare: 396.5 gms
g. Dry Weight Soil + Tare: 353.5 gms
h. Tare Weight: 100.8 gms
i. Moisture Content [(f-g)/(g-h)]*100: 17.0 %
j. Unit Dry Weight [d/(1+(i/100))]: 114.1 pcf

FINAL CONDITIONS

k. Wet Weight Soil + Tare: 399.2 gms
l. Dry Weight Soil + Tare: 353.5 gms
m. Tare Weight: 100.8 gms
n. Moisture Content [(k-l)/(l-m)]*100: 18.1 %

Specific Gravity of Mercury, d_{Hg}: 13.55
Specific Gravity of Water, d_w: 1.00

Equilibrium Head, R_{eq}: 2.0 cm
Maximum Pipet Head, R_p: 17.98 cm
Maximum Gradient, i: 30.0 cm/cm

B COEFFICIENT DETERMINATION						PRESSURE, psi			
	P3	Delta Pressure	Back Pressure, bp	Pore Pressure	B Coeff.	Trial	P3 cp	Inflow hs, in	Outflow hs, out
		10							
		10							
		10							
7-Feb	45	10	40	49.5	0.95	1	45	40	40

	Time	Cumul. Time, s	Head Reading H, cm	Total Head Loss Dz_p, cm	Temp C	Rt	k @ 20C cm/sec
2/7/2012	08:53		17.90				
2/7/2012	09:10	1020	17.70	0.20	22	0.953	9.9E-09
2/7/2012	09:22	1740	17.60	0.30	22	0.953	8.7E-09
2/7/2012	09:30	2220	17.50	0.40	22	0.953	9.2E-09
2/7/2012	09:39	2760	17.50	0.40	22	0.953	7.4E-09
2/7/2012	09:50	3420	17.50	0.40	22	0.953	6.0E-09

Test Method ASTM D 5084-90

Pipet Area = 0.031416 sq cm
Annulus Area = 0.767120 sq cm

LANDTEC engineers

1700 Robert Road, Suite 101
Mansfield, Texas 76063
Metro 817.572.2818
Fax 817.561.5485

CLIENT: Biggs & Matthews Engineering

REPORT DATE: 10/16/2011

PROJECT NO.: 1655

PROJECT: Skyline Landfill

HYDRAULIC CONDUCTIVITY WORKSHEET
FALLING HEAD - FIXED WALL PERMEAMETER

LOCATION: TP-1 EL 426.0
MATERIAL: Shaley clay, gray & tan
BORING/SAMPLE: North of Cell #8
PROCTOR # :
SAMPLE ORIENTATION: H __X__ V _____
Remold _____

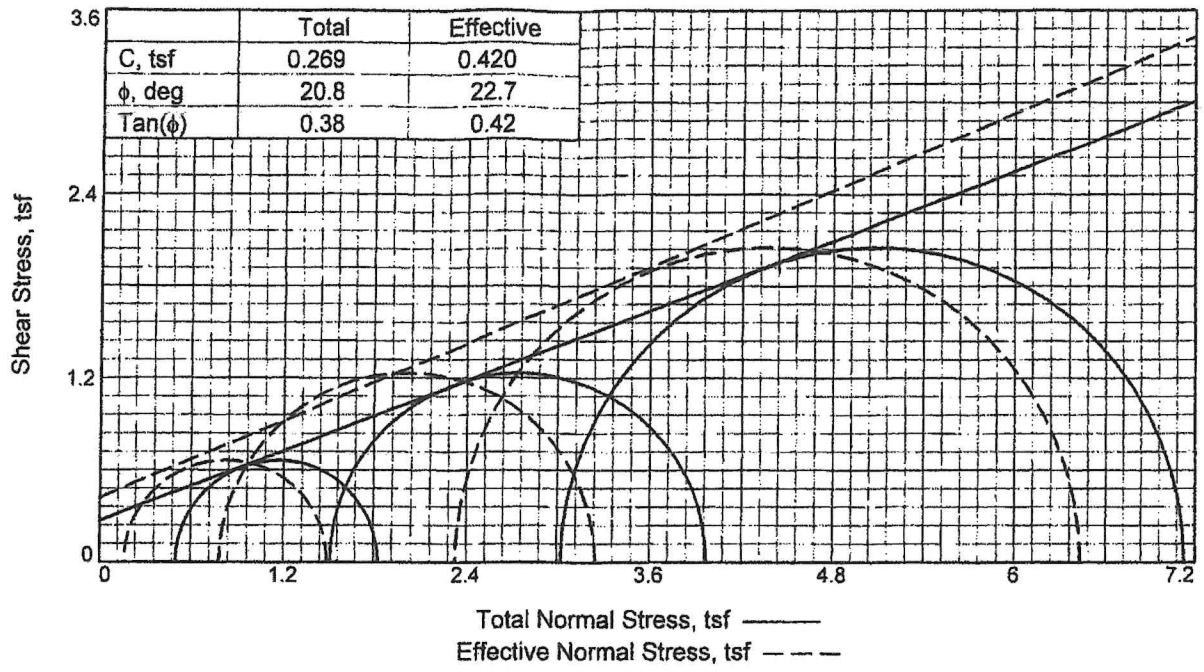
LAB START DATE: 10/14/2011
LAB RPT. DATE: 10/16/2011
TECHNICIAN: MLT
DEPTH/LIFT:
PERM FLUID USED: De-aired Tap Water

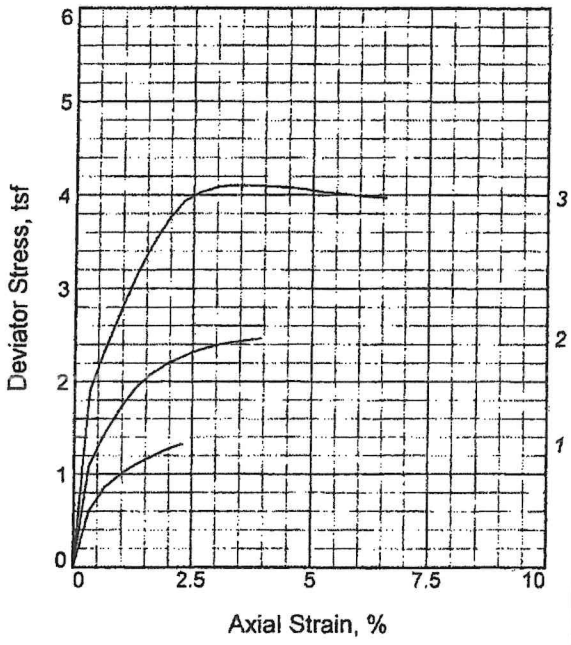
a. Length of Specimen, L: 1.0 in
b. Avg. Diameter of Specimen: 2.5 in
c. Sample Volume ($\pi b^2 / 4 * a$): 4.909 cu in
d. Wet Unit Weight: [((f-h)*3.8095)/c)]: 108.8 pcf

INITIAL CONDITIONS		FINAL CONDITIONS	
e. Ring + Wet Weight Soil:	667.1 gms	k. Wet Weight Soil + Tare:	245.5 gms
f. Wet Weight Soil + Tare:	237.5 gms	l. Dry Weight Soil + Tare:	206.2 gms
g. Dry Weight Soil + Tare:	206.2 gms	m. Tare Weight:	97.3 gms
h. Tare Weight:	97.3 gms	n. Moisture Content [(k-l)/(l-m)]*100:	36.1 %
i. Moisture Content [(f-g)/(g-h)]*100:	28.7 %	o. Unit Dry Weight [d/(1+(n/100))]:	80.0 pcf
j. Unit Dry Weight [d/(1+(i/100))]:	84.5 pcf	p. Ring Weight:	526.9 gms

Date	Time	t sec	Initial Height, ho	Corrected ho - C	Final Height, hf	Corrected hf - C	Temp C	Rt	k @ 20C cm/sec
14-Oct	09:19		44.1	36.6					
14-Oct	18:20	32460			31.7	24.2	22	0.953	8.4E-07
14-Oct	18:20		31.7	24.2					
15-Oct	06:51	45060			30.2	22.7	22	0.953	9.4E-08
15-Oct	06:51		30.2	22.7					
15-Oct	12:06	18900			29.6	22.1	22	0.953	9.4E-08
15-Oct	12:06		29.6	22.1					
15-Oct	16:00	14040			29.2	21.7	22	0.953	8.6E-08
15-Oct	16:00		29.2	21.7					
15-Oct	21:32	19920			28.7	21.2	22	0.953	7.7E-08
14-Oct	18:20		31.7	24.2					
15-Oct	21:32	97920			28.7	21.2	22	0.953	8.9E-08

Height of Top of Specimen From Top of Table: 7.50 cm
Standpipe Diameter: 1.05 cm
Standpipe Area: 0.866 sq cm





Sample No.		1	2	3
Initial	Water Content, %	30.0	30.0	30.0
	Dry Density, pcf	89.6	89.6	89.6
	Saturation, %	93.8	93.8	93.8
	Void Ratio	0.8472	0.8472	0.8472
	Diameter, in.	1.45	1.45	1.45
	Height, in.	3.05	3.05	3.05
At Test	Water Content, %	32.0	32.0	32.0
	Dry Density, pcf	89.6	89.6	89.6
	Saturation, %	100.0	100.0	100.0
	Void Ratio	0.8472	0.8472	0.8472
	Diameter, in.	1.45	1.45	1.45
	Height, in.	3.05	3.05	3.05
Strain rate, in./min.				
Back Pressure, psi		10.00	10.00	10.00
Cell Pressure, psi		17.00	31.00	52.00
Fail. Stress, tsf		1.32	2.46	4.11
Total Pore Pr., tsf		1.06	1.45	1.42
Ult. Stress, tsf				
Total Pore Pr., tsf				
$\bar{\sigma}_1$ Failure, tsf		1.49	3.25	6.43
$\bar{\sigma}_3$ Failure, tsf		0.17	0.78	2.33

Type of Test:
CU with Pore Pressures

Sample Type: Undisturbed

Description: Clay, shaley w/sand seams brown & gray

LL= 65 **PL=** 32 **PI=** 33

Assumed Specific Gravity= 2.65

Remarks: Sample Taken North Of Cell #8

Client:

Project: Skyline Landfill

Sample Number: Cell #8

Proj. No.: 1655 **Date Sampled:** 10/14/2011

TRIAXIAL SHEAR TEST REPORT
M L Testing, LLC
Bluff Dale, TX

Figure _____

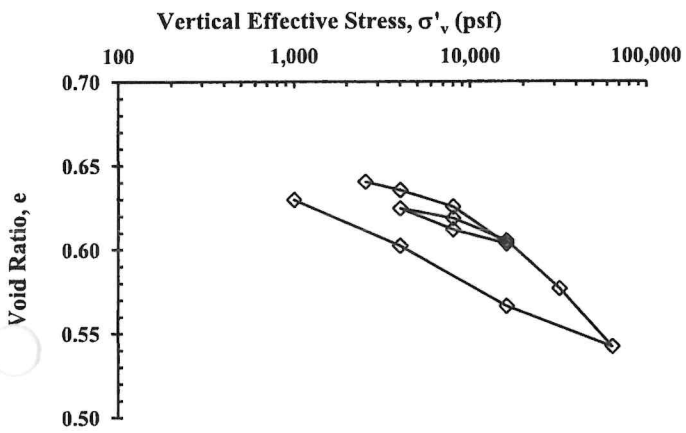
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

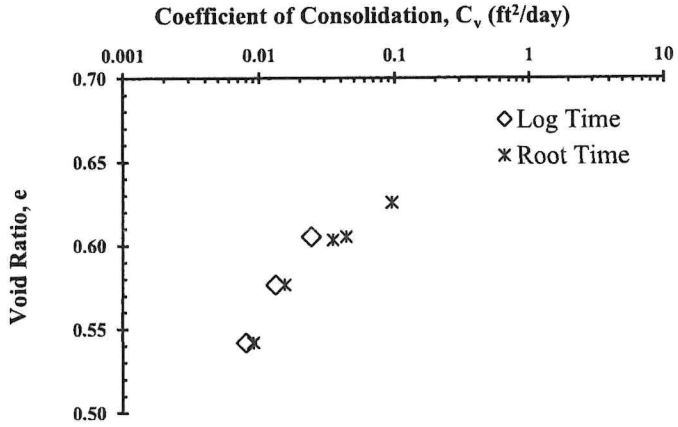
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-14 U6 (10-12)

TRI Log No.: 24-000171-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

Soil Specimen Properties	Initial	Final
Water Content (%)	21.0	22.6
Diameter (in)	2.50	2.50
Height (in)	0.98	0.98
Dry Unit Weight, γ_o lb_f/ft^3	104.6	105.3
Specific Gravity (Assumed)	2.75	
Void Ratio, e	0.64	0.63
Degree of Saturation (%)	90.3	-

Test Setup		
Specimen Condition	•	Intact / "Undisturbed"
		Compacted/Remolded/Reconstituted
Test Water		Extracted Pore Water
	•	Potable Tap Water
		Demineralized Water
		Saline Water
		Other





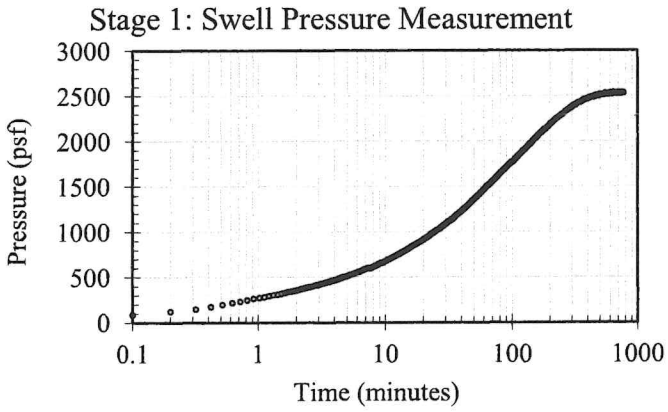
Stage	σ'_v	log (σ'_v)	e	Strain, ε	δe	C_α	t_{50} (min)		C_v (ft^2/day)	
(#)	(psf)	log (psf)	(-)	(%)	δlog (σ'_v)	(x1,000)	Log Time	Root Time	Log Time	Root Time
1	2,543	3.41	0.640	0.00	-	-	-	-	-	-
2	4,000	3.60	0.636	0.30	-0.025	-	-	-	-	-
3	8,000	3.90	0.626	0.90	-0.033	-	-	4.9	-	9.5E-02
4	16,000	4.20	0.603	2.26	-0.074	-	-	13.1	-	3.5E-02
5	8,000	3.90	0.612	1.74	-0.028	-	-	-	-	-
6	4,000	3.60	0.624	0.97	-0.042	-	-	-	-	-
7	8,000	3.90	0.619	1.33	-0.019	-	-	-	-	-
8	16,000	4.20	0.605	2.14	-0.044	-	18.9	10.5	2.4E-02	4.4E-02
9	32,000	4.51	0.577	3.89	-0.095	-	33.4	28.5	1.3E-02	1.5E-02
10	64,000	4.81	0.542	6.01	-0.116	-	52.4	46.4	8.0E-03	9.1E-03
11	16,000	4.20	0.566	4.52	-0.041	-	-	-	-	-
12	4,000	3.60	0.602	2.33	-0.060	-	-	-	-	-
13	1,000	3.00	0.630	0.65	-0.046	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-

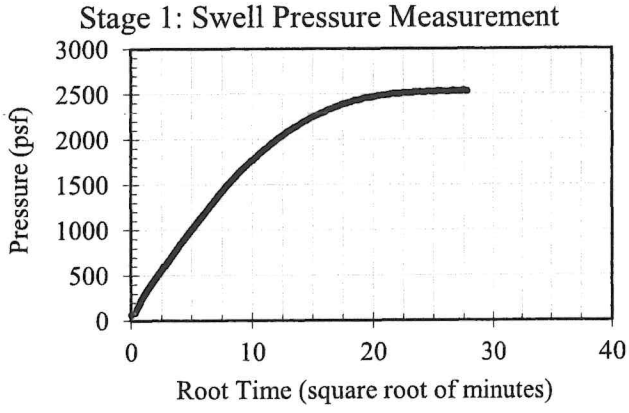
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

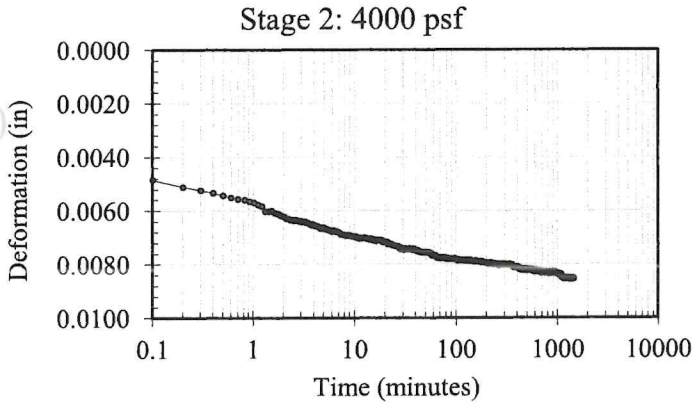
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

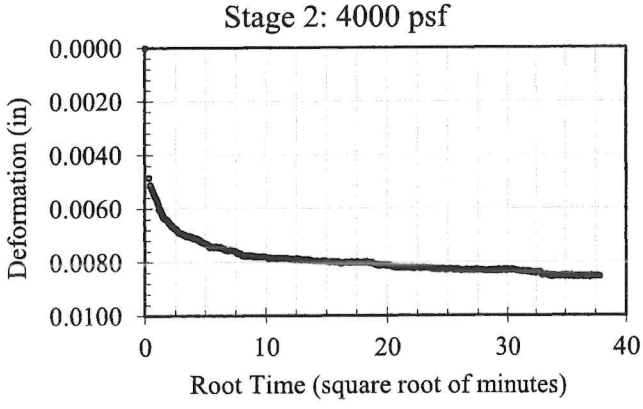
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-14 U6 (10-12)

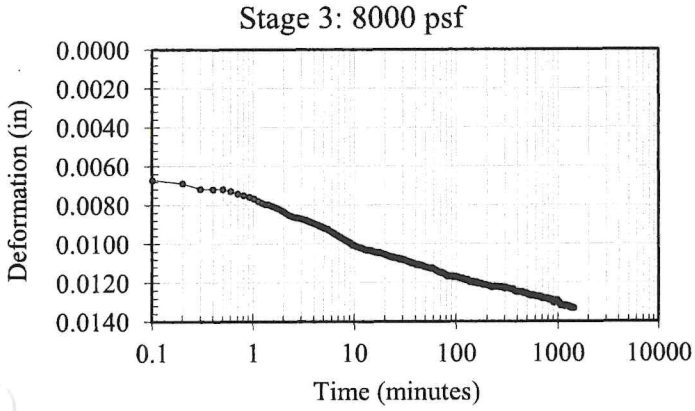
TRI Log No.: 24-000171-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

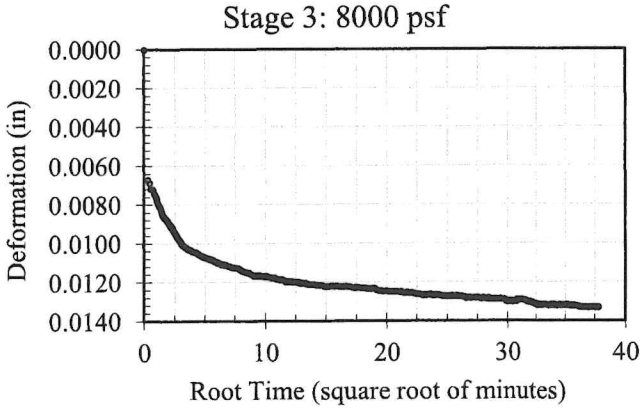










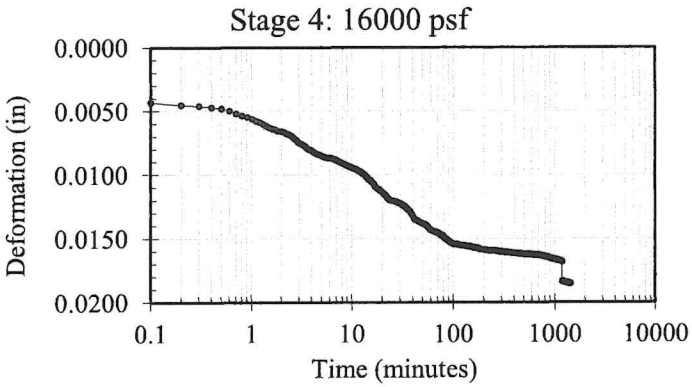


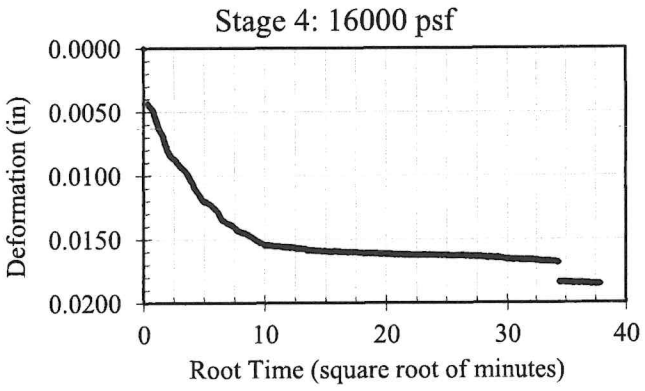
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

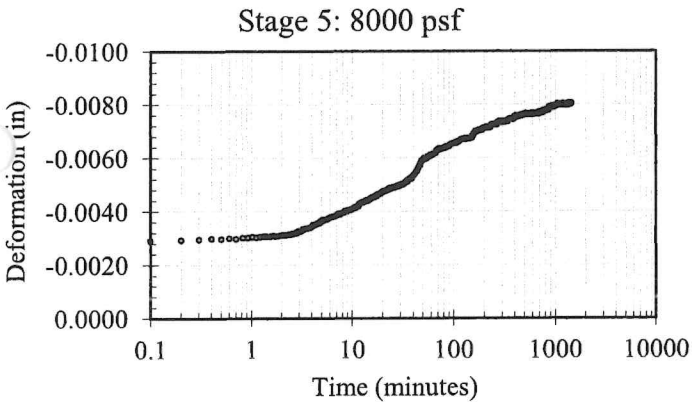
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

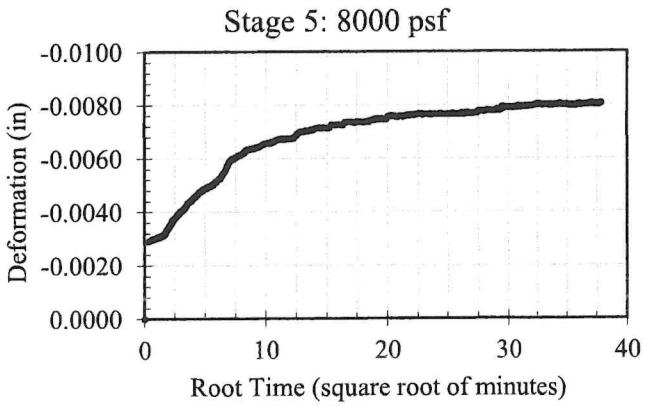
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-14 U6 (10-12)

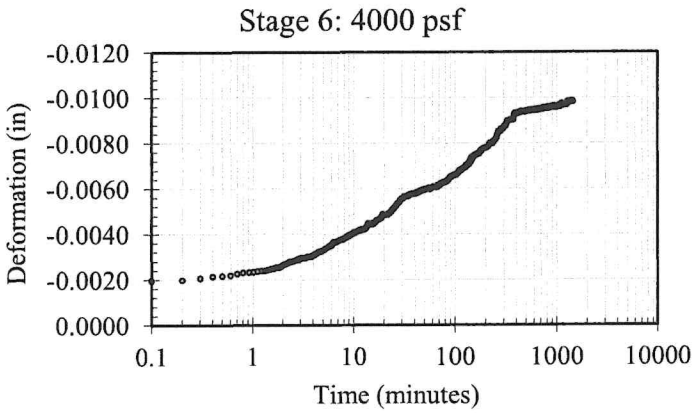
TRI Log No.: 24-000171-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

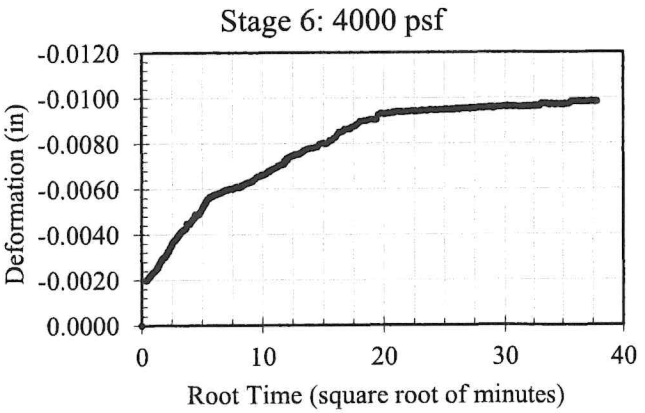










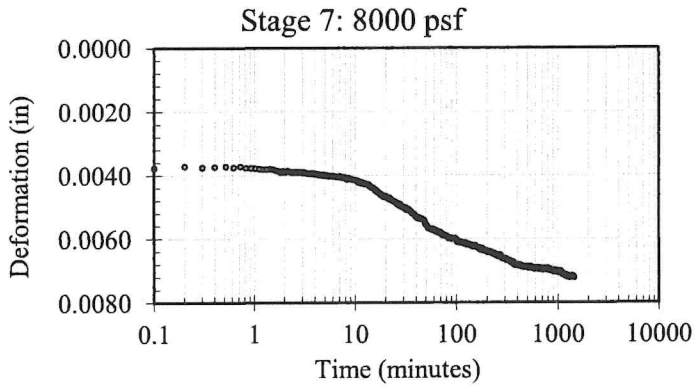


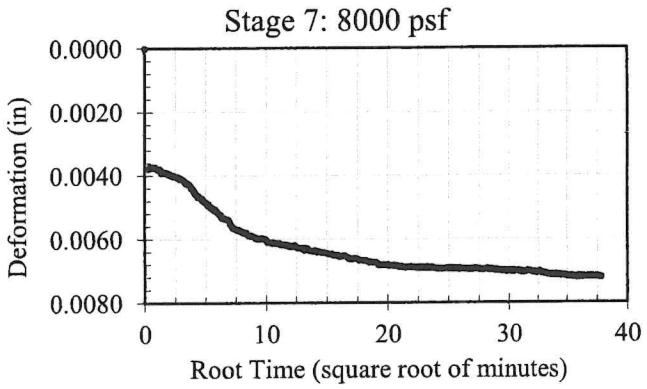
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

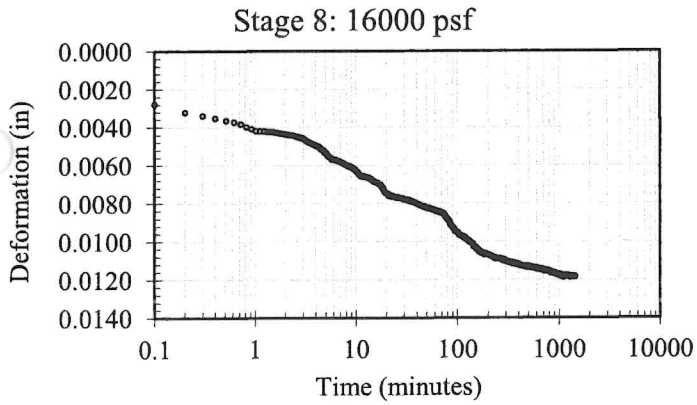
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

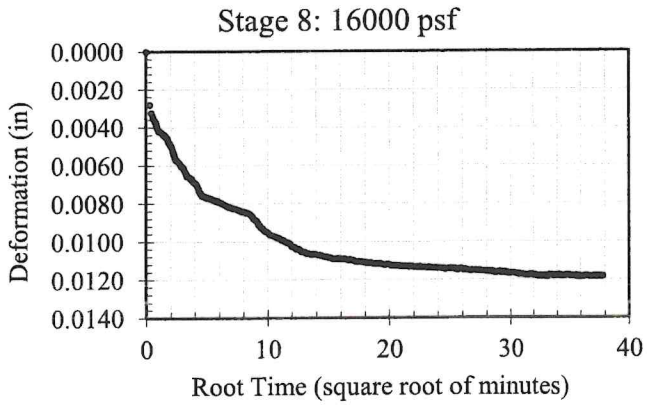
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-14 U6 (10-12)

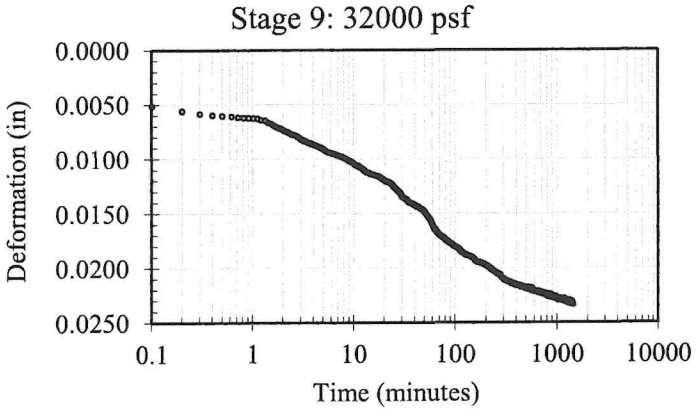
TRI Log No.: 24-000171-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

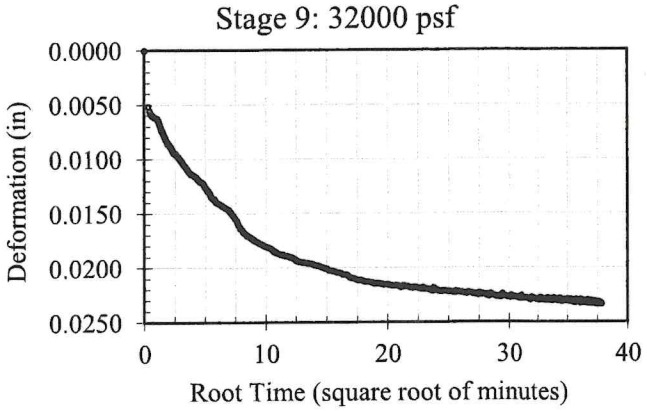










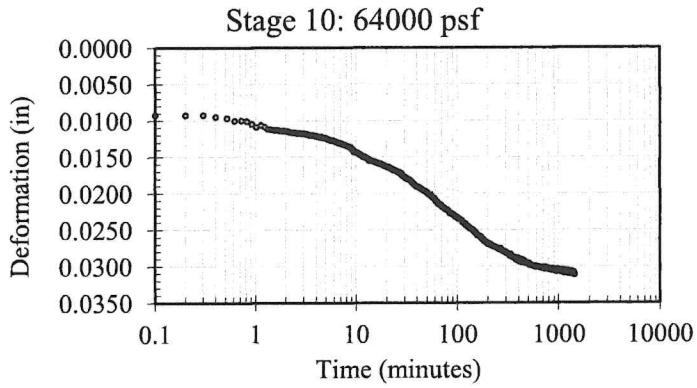


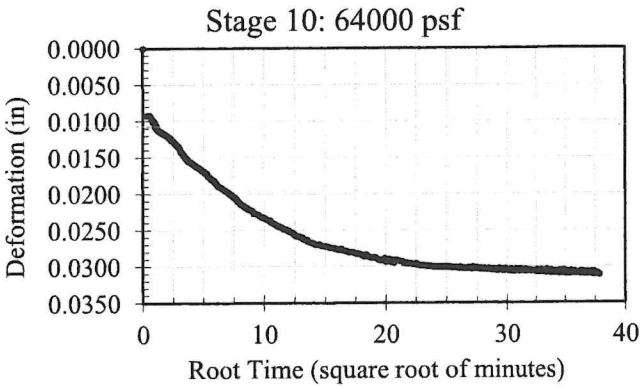
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

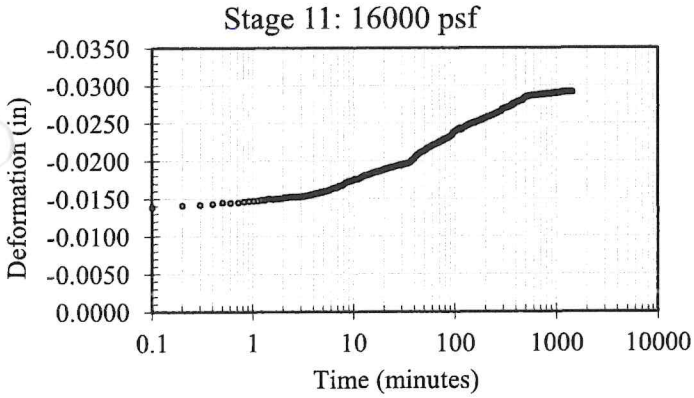
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

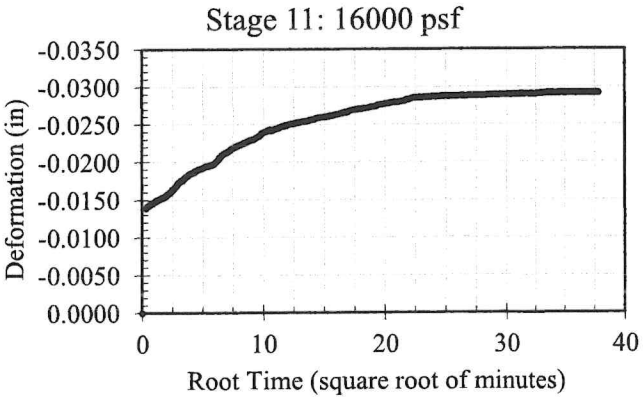
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-14 U6 (10-12)

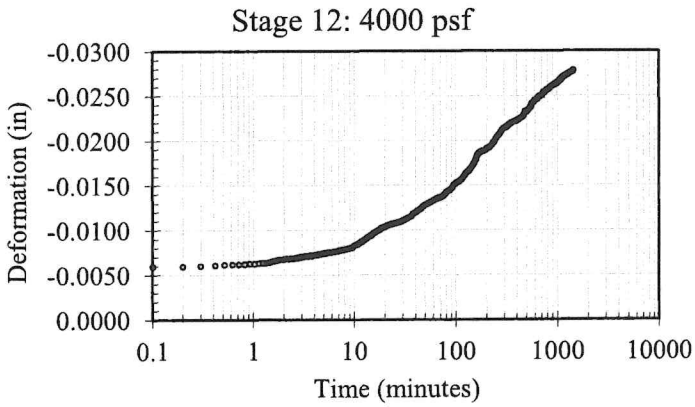
TRI Log No.: 24-000171-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

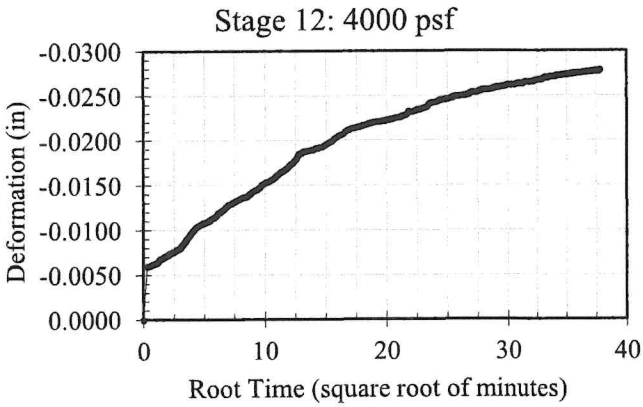










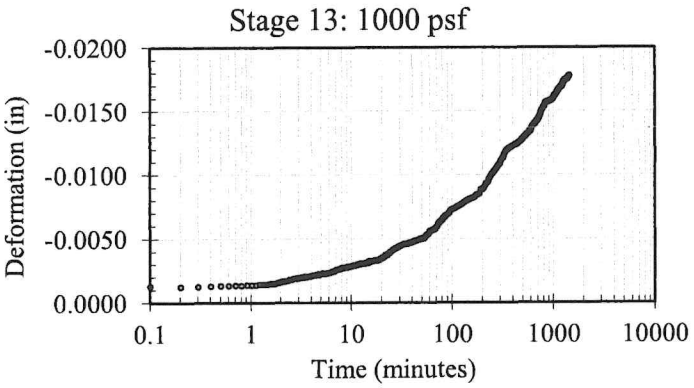


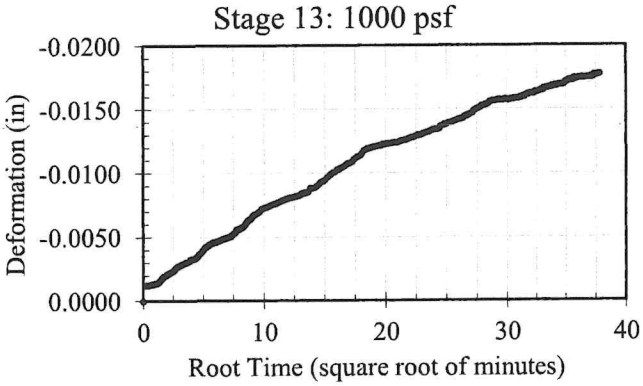
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

One-Dimensional Consolidation Properties of Soil (ASTM D2435)

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-14 U6 (10-12)

TRI Log No.: 24-000171-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

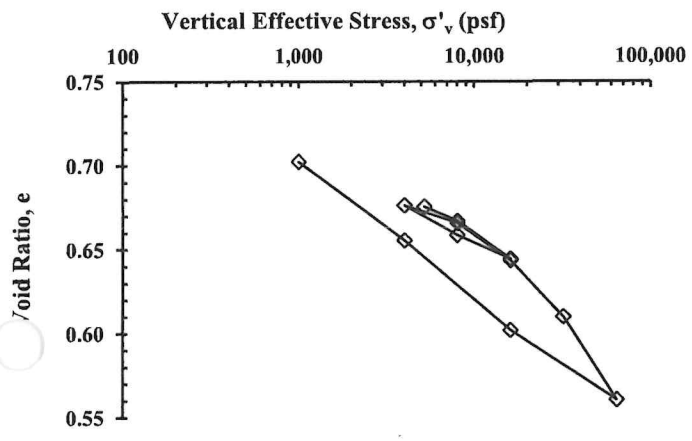
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

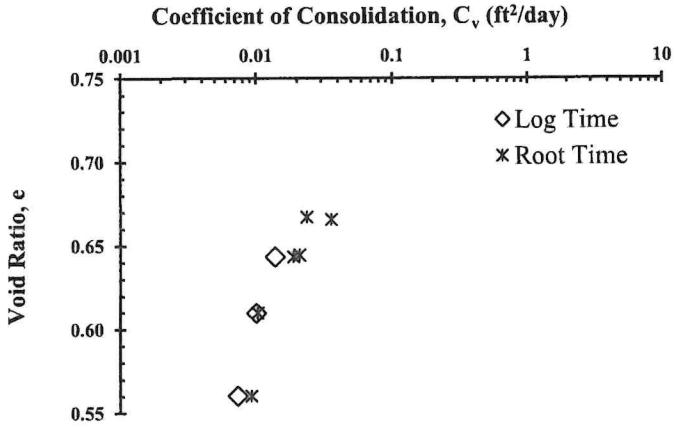
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-16 U15 (28-30)

TRI Log No.: 24-000171-05
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

Soil Specimen Properties	Initial	Final
Water Content (%)	23.3	25.2
Diameter (in)	2.49	2.49
Height (in)	1.00	1.02
Dry Unit Weight, γ_o lb_f/ft^3	102.5	100.8
Specific Gravity (Assumed)	2.75	
Void Ratio, e	0.67	0.70
Degree of Saturation (%)	94.9	-

Test Setup		
Specimen Condition	•	Intact / "Undisturbed"
		Compacted/Remolded/Reconstituted
Test Water		Extracted Pore Water
	•	Potable Tap Water
		Demineralized Water
		Saline Water
		Other





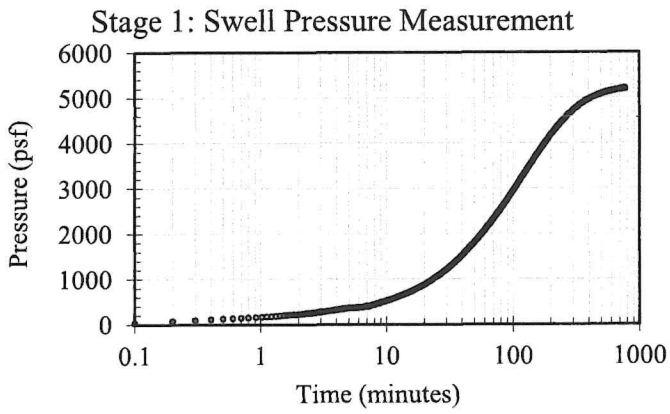
Stage	σ'_v	log (σ'_v)	e	Strain, ε	δe	C_α	t_{50} (min)		C_v (ft^2/day)	
(#)	(psf)	log (psf)	(-)	(%)	δlog (σ'_v)	(x1,000)	Log Time	Root Time	Log Time	Root Time
1	5,203	3.72	0.676	0.00	-	-	-	-	-	-
2	8,000	3.90	0.667	0.51	-0.045	-	-	21.0	-	2.4E-02
3	16,000	4.20	0.644	1.86	-0.075	-	-	22.9	-	2.1E-02
4	8,000	3.90	0.659	1.02	-0.047	-	-	-	-	-
5	4,000	3.60	0.676	-0.04	-0.059	-	-	-	-	-
6	8,000	3.90	0.666	0.59	-0.035	-	-	13.7	-	3.6E-02
7	16,000	4.20	0.643	1.92	-0.074	-	34.6	25.4	1.4E-02	1.9E-02
8	32,000	4.51	0.610	3.93	-0.111	-	45.4	44.4	1.0E-02	1.0E-02
9	64,000	4.81	0.560	6.89	-0.165	-	58.4	46.4	7.4E-03	9.3E-03
10	16,000	4.20	0.602	4.41	-0.069	-	-	-	-	-
11	4,000	3.60	0.656	1.20	-0.089	-	-	-	-	-
12	1,000	3.00	0.703	-1.60	-0.078	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-

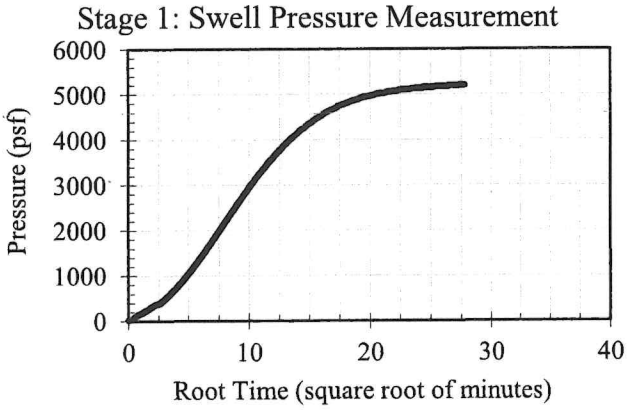
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

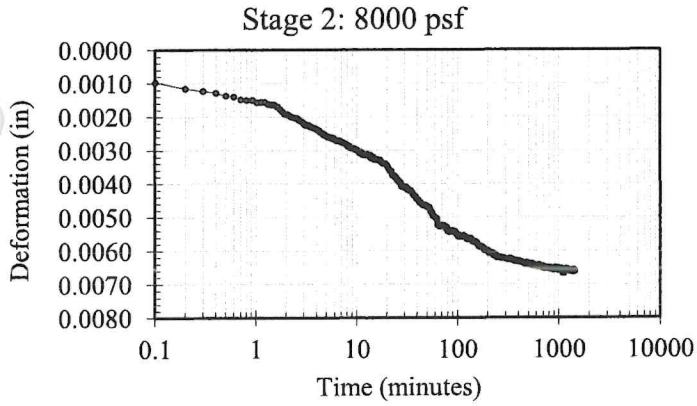
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

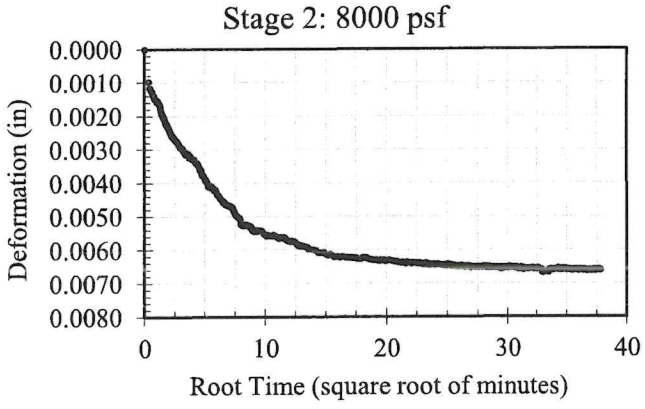
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-16 U15 (28-30)

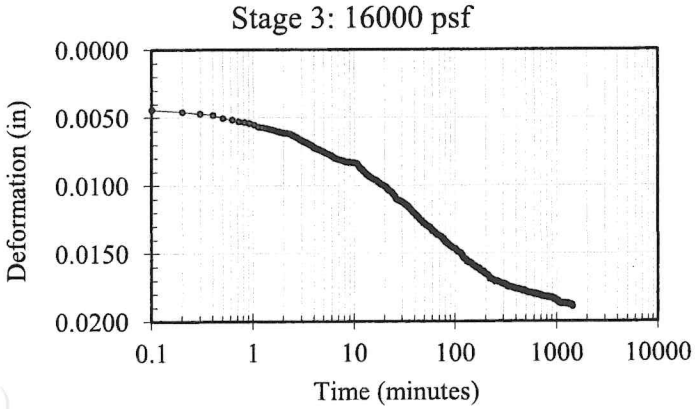
TRI Log No.: 24-000171-05
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

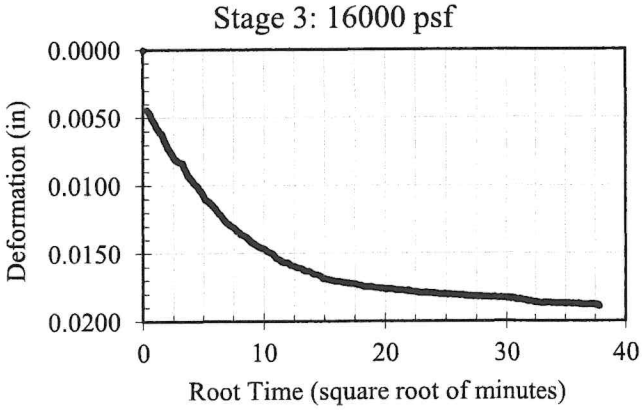










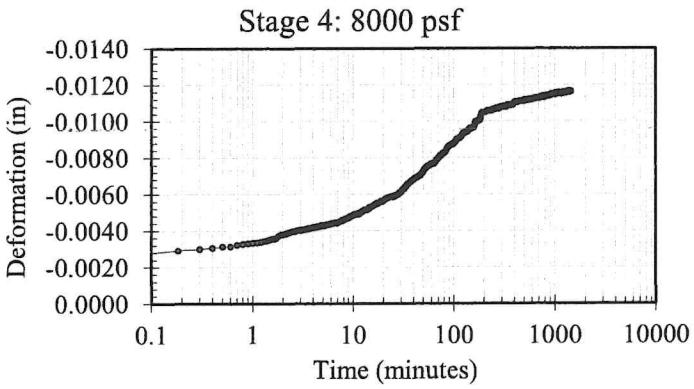


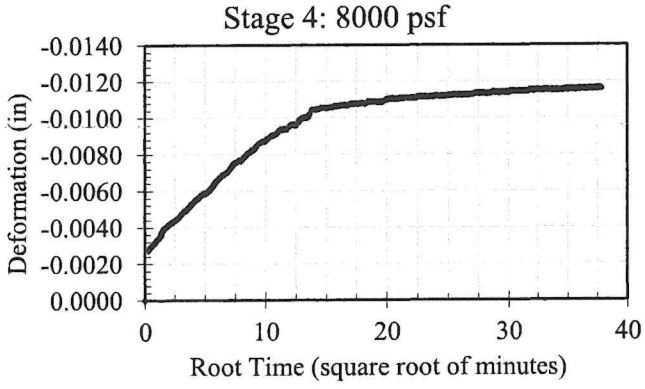
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

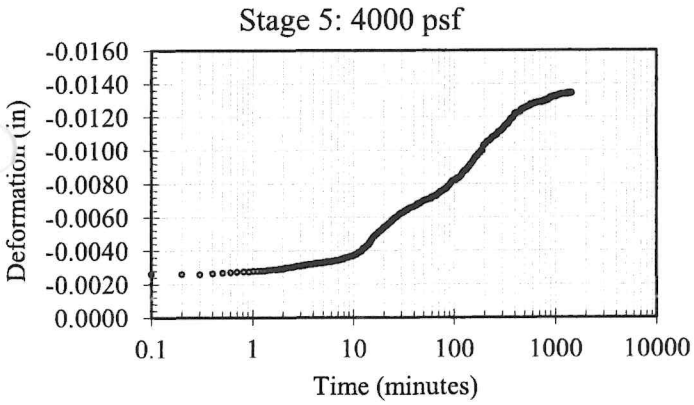
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

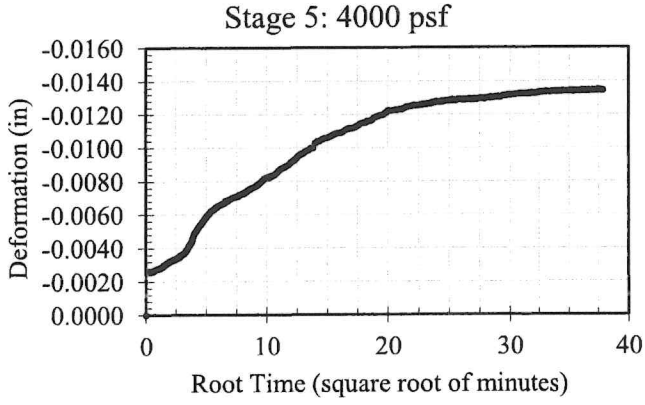
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-16 U15 (28-30)

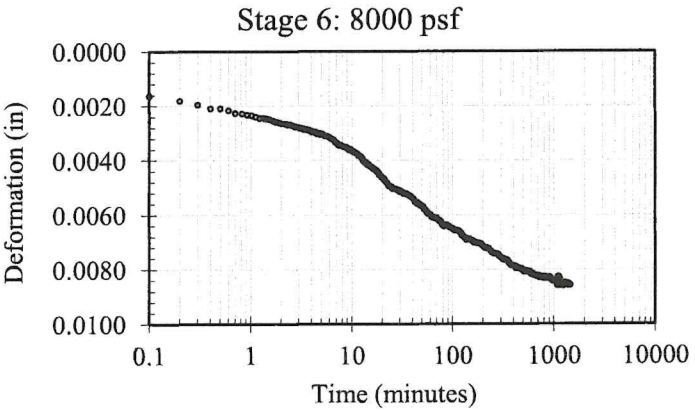
TRI Log No.: 24-000171-05
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

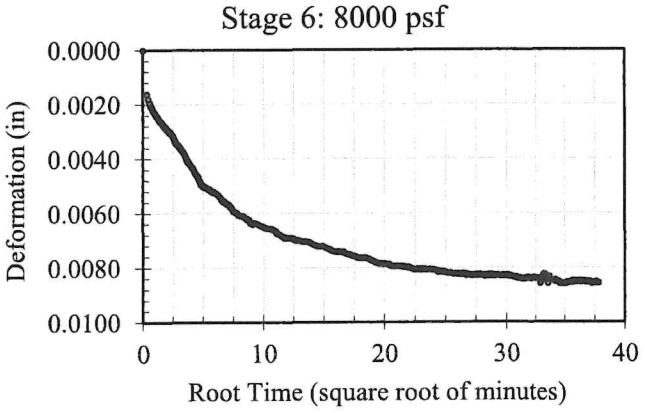










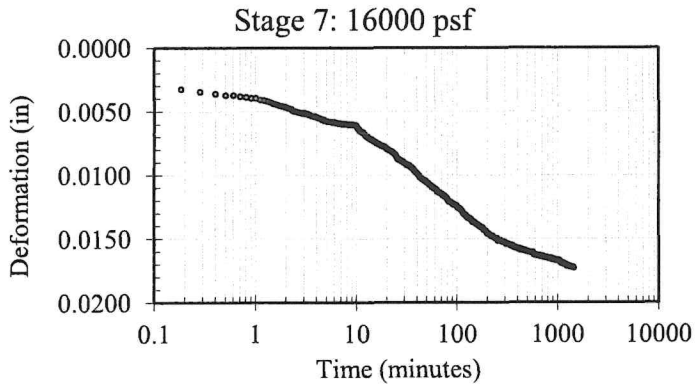


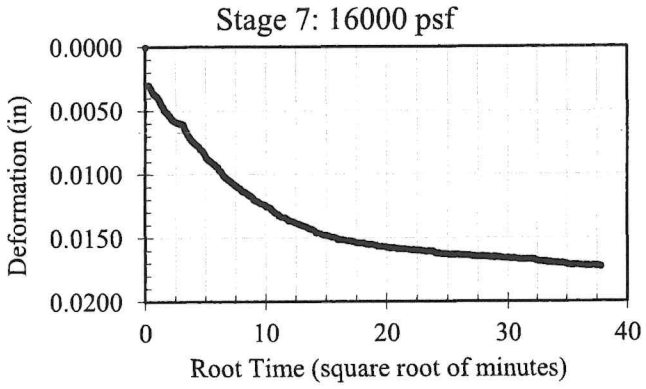
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

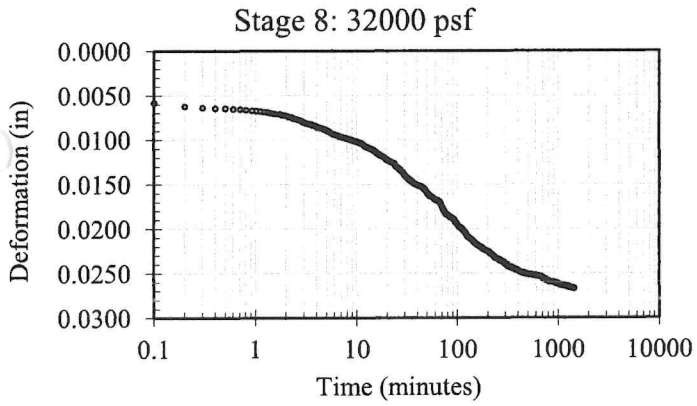
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

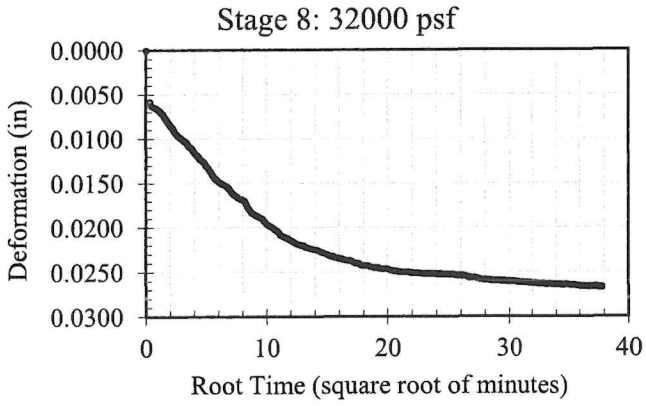
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-16 U15 (28-30)

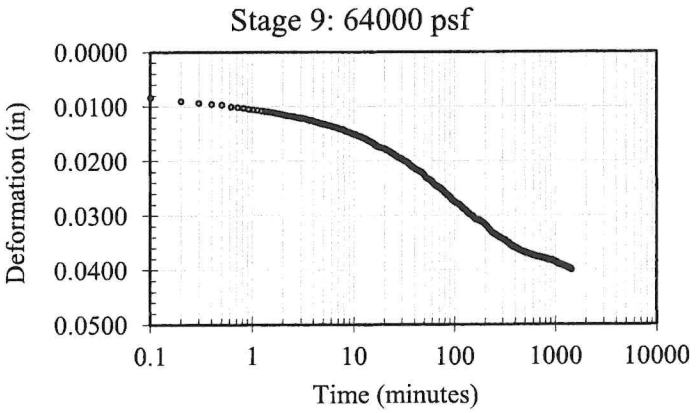
TRI Log No.: 24-000171-05
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

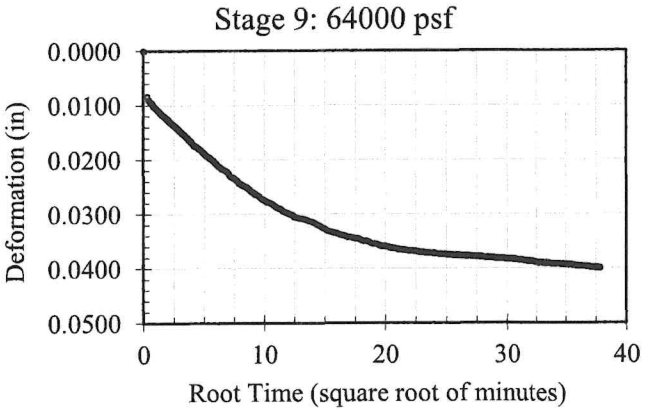










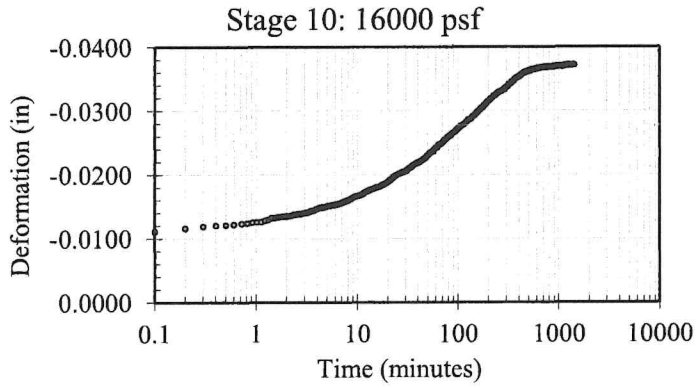


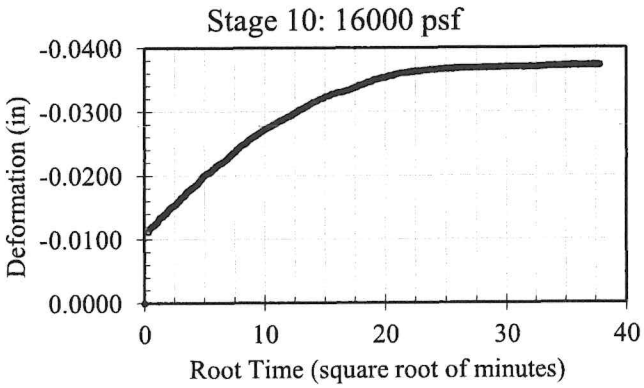
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

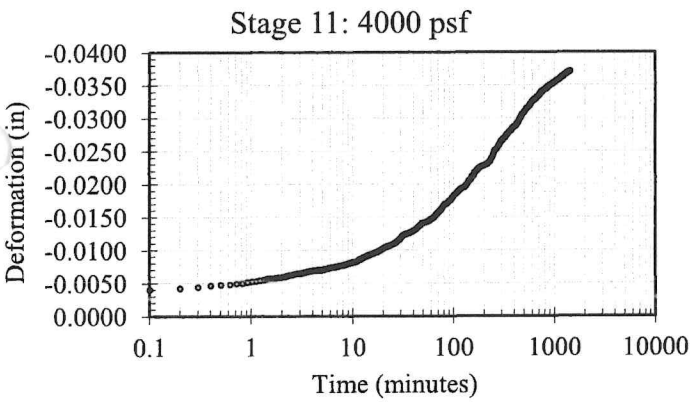
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

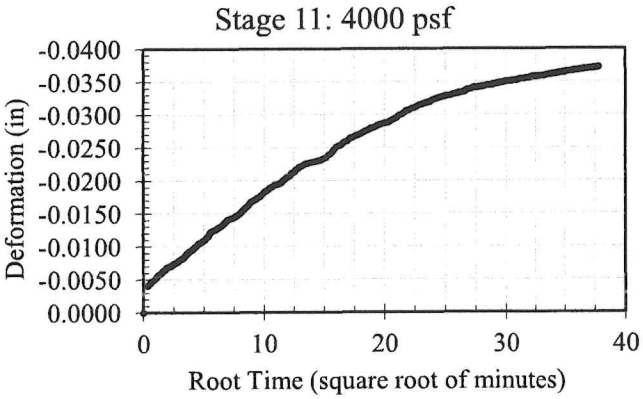
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-16 U15 (28-30)

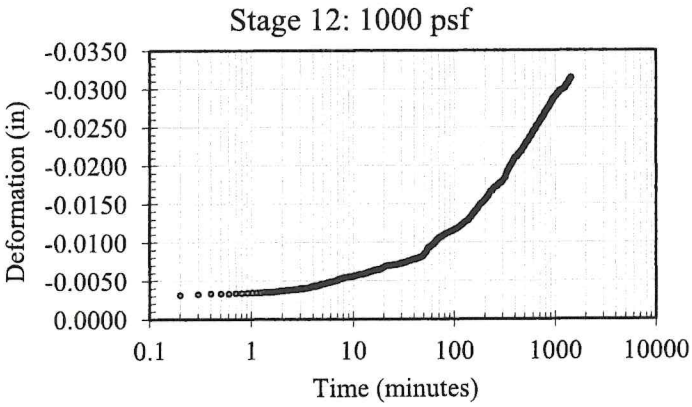
TRI Log No.: 24-000171-05
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

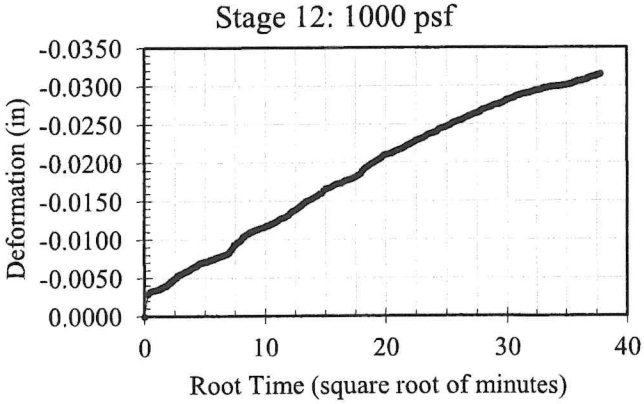












The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-7 C16 (29-30)

TRI Log #: 24-000170-04
Test Method: ASTM D4767 Mod

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	32.0	64.0	128.0	-
Initial Specimen Properties				
Avg. Diameter (in)	1.43	1.43	1.50	-
Avg. Height (in)	3.06	2.94	2.52	-
Avg. Water Content (%)	21.4	-	-	-
Bulk Density (pcf)	125.6	-	-	-
Dry Density (pcf)	103.5	-	-	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	89.2	-	-	-
Void Ratio, n	0.66	0.58	0.50	-
B-Value, End of Saturation	0.85	-	-	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.58	0.50	0.45	-

Shear / Post-Shear				
Rate of Strain (%/hr)	1.00	1.00	1.00	-
Avg. Water Content (%)	-	-	20.8	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	-	-	-	-	1.9	2.4	8.3	-
Minor Effective Stress (psi), $\sigma_3'_f$	-	-	-	-	4.7	22.7	94.9	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	-	-	-	-	72.1	113.1	265.3	-
Pore Water Pressure, Δu_f (psi)	-	-	-	-	27.3	41.3	33.2	-
Major Effective Stress (psi), $\sigma_1'_f$	-	-	-	-	76.8	135.8	360.3	-
Secant Friction Angle (degrees)	-	-	-	-	62.2	45.5	35.7	-
Effective Friction Angle (degrees)	-				31.1			
Effective Cohesion (psi)	-				17.9			

Note: Multi-stage testing was performed for this sample. The first two stages were terminated in accordance with stress path tangency and/or peak principal stress ratio. The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio are presented in tabular form on the first page of the report. There are alternate interpretations to this failure criterion including but not limited to peak principal stress difference and strain compatibility.

Jeffrey A. Kuhn , Ph.D., P.E., 2/13/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-7 C16 (29-30)

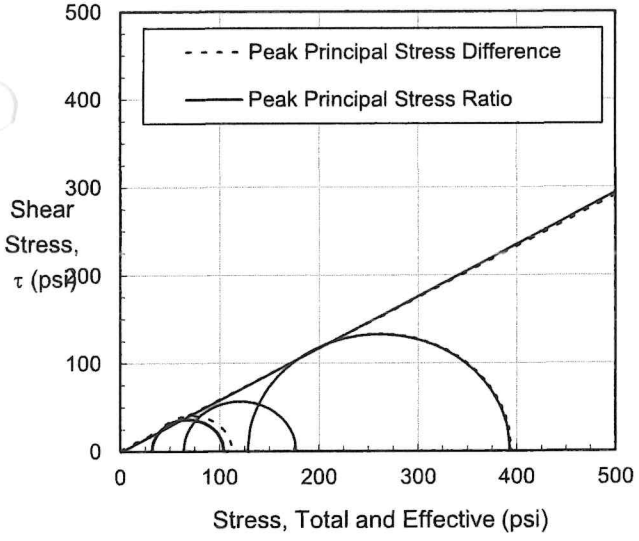
TRI Log #: 24-000170-04
Test Method: ASTM D4767 Mod

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	30.1	30.5
Cohesion (psi)	c_R	1.0	-1.2

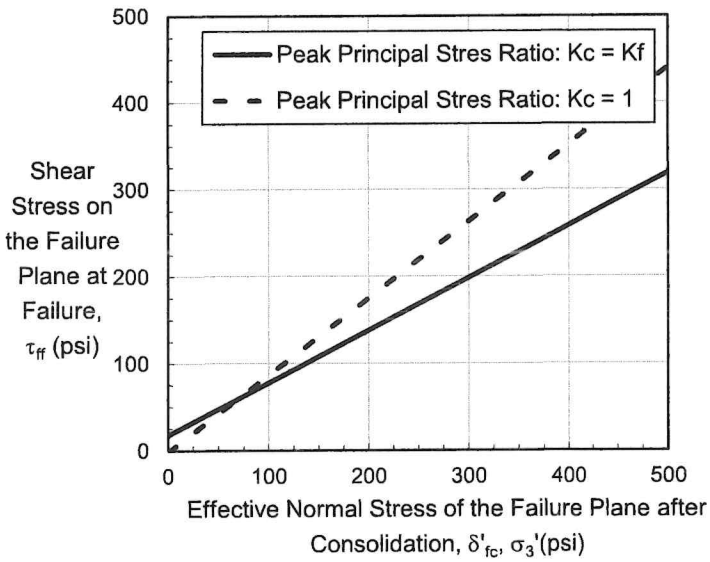
Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	30.9	31.1
Effective Cohesion (psi)	c'	18.1	17.9

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	40.8	41.5
Cohesion (psi)	$\Psi_{Kc=1}$	1.5	-1.7

R / "Total Stress" Envelope



Three-Stage Rapid Drawdown Envelopes



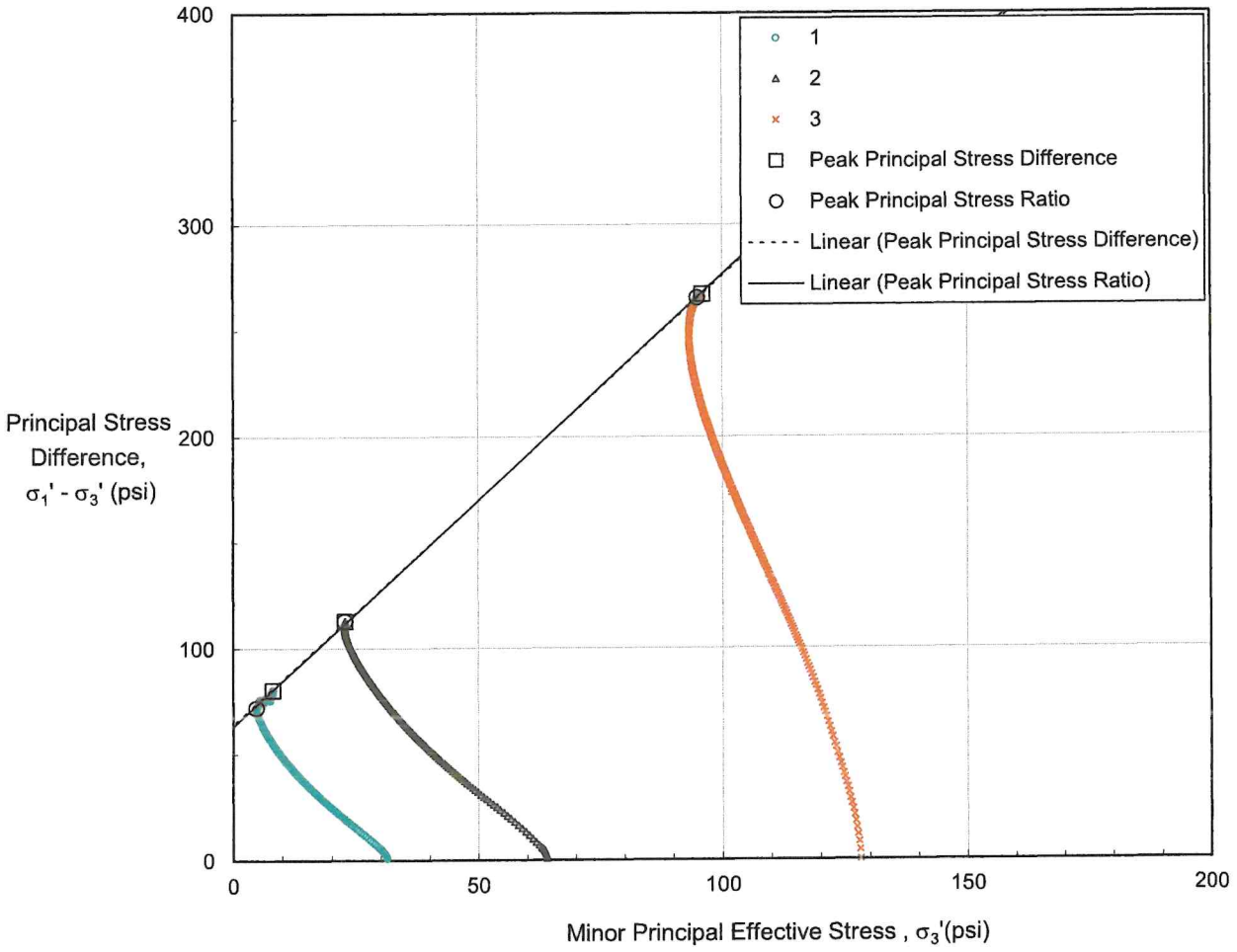
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-7 C16 (29-30)

TRI Log #: 24-000170-04
Test Method: ASTM D4767 Mod

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	31.1
Effective Cohesion (psi)	-	17.9

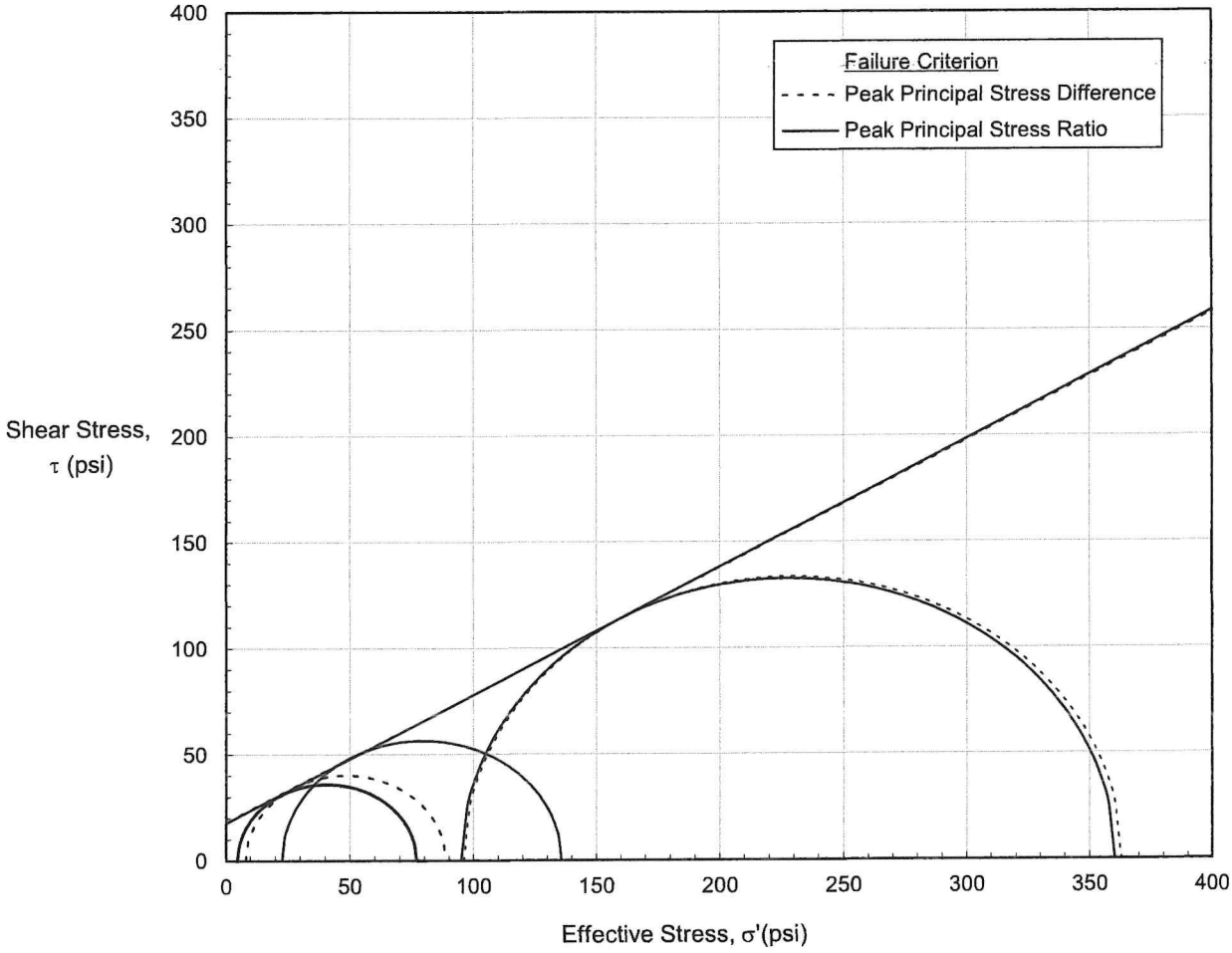
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-7 C16 (29-30)

TRI Log #: 24-000170-04
Test Method: ASTM D4767 Mod

Mohr-Coulomb



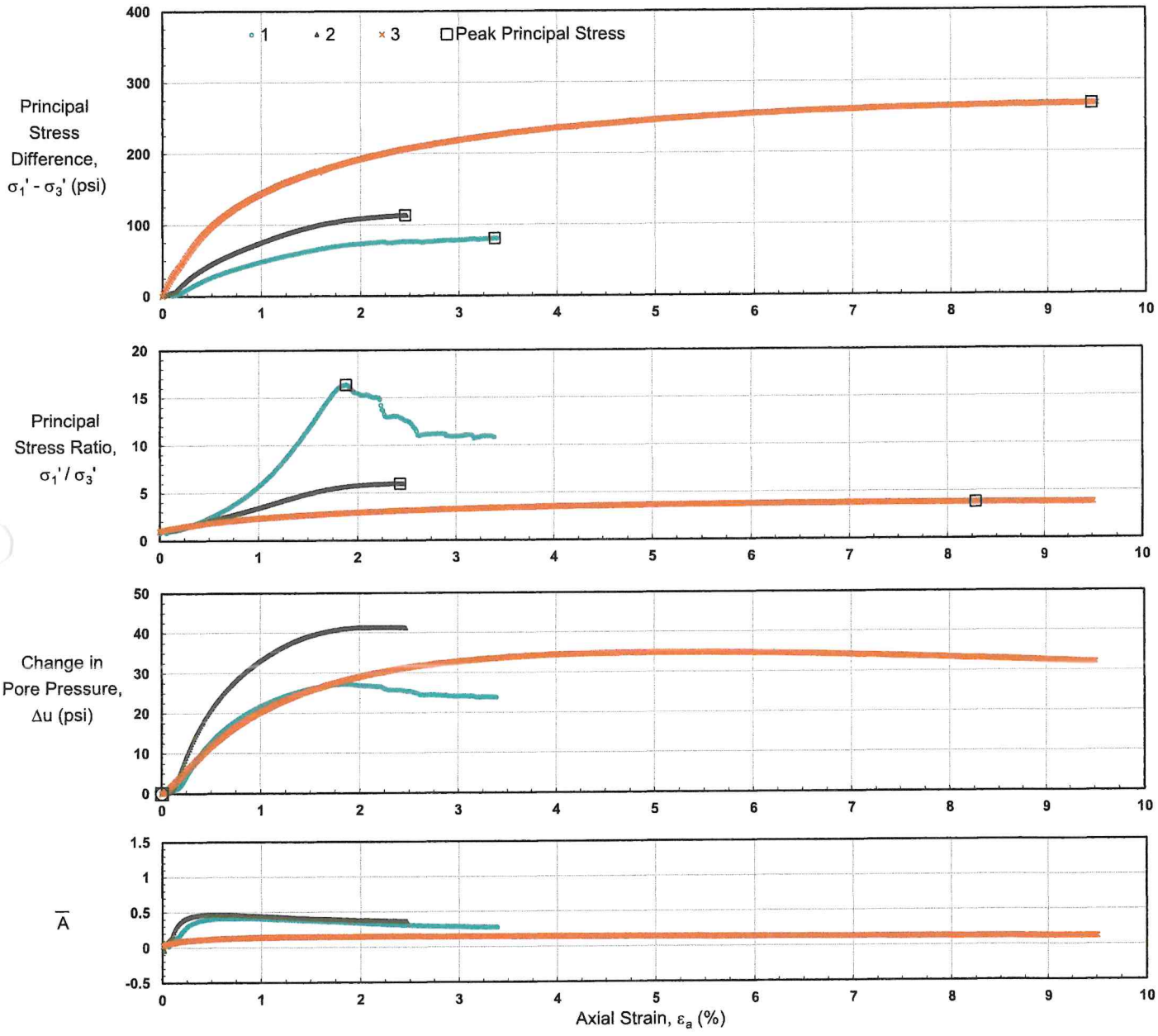
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	31.1
Effective Cohesion (psi)	-	17.9

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-7 C16 (29-30)

TRI Log #: 24-000170-04
Test Method: ASTM D4767 Mod



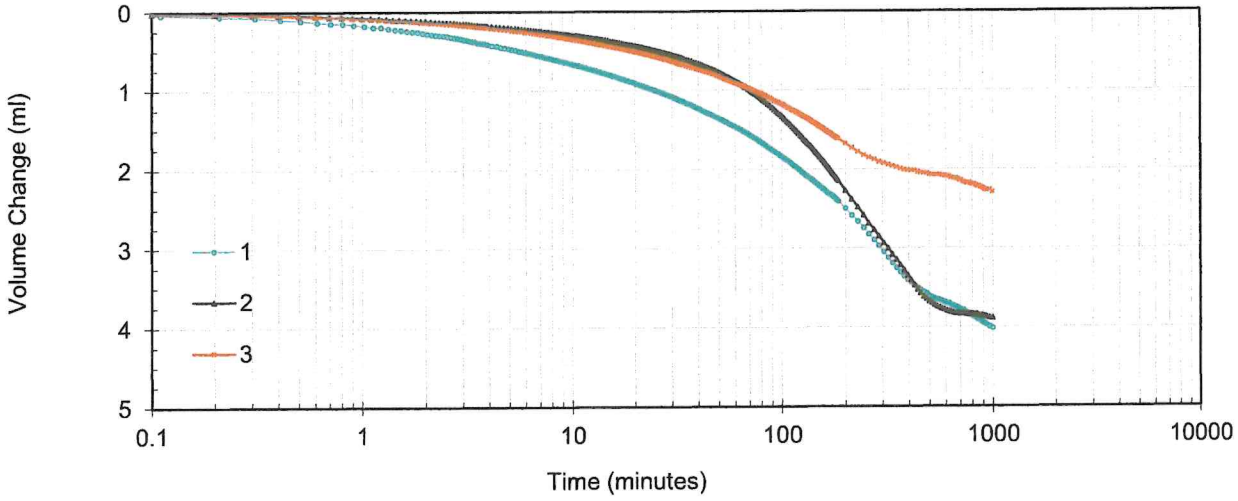
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

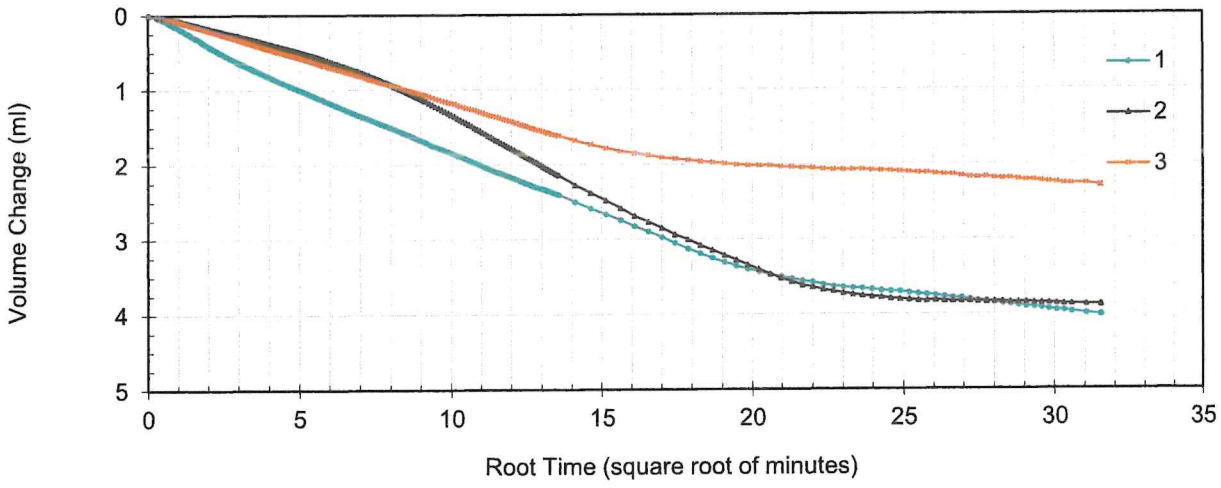
Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-7 C16 (29-30)

TRI Log #: 24-000170-04
Test Method: ASTM D4767 Mod

Consolidation





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-11 U4 (6-8)

TRI Log #: 24-000170-05
Test Method: ASTM D4767 Mod

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	21.0	42.0	84.0	-
Initial Specimen Properties				
Avg. Diameter (in)	1.47	1.49	1.51	-
Avg. Height (in)	3.05	2.92	2.81	-
Avg. Water Content (%)	22.8	-	-	-
Bulk Density (pcf)	124.0	-	-	-
Dry Density (pcf)	100.9	-	-	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	89.8	-	-	-
Void Ratio, n	0.70	0.67	0.66	-
B-Value, End of Saturation	0.80	-	-	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.67	0.66	0.62	-

Shear / Post-Shear				
Rate of Strain (%/hr)	1.00	1.00	1.00	-
Avg. Water Content (%)	-	-	32.3	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	-	-	-	-	3.2	3.5	3.1	-
Minor Effective Stress (psi), $\sigma_3'_f$	-	-	-	-	8.1	22.2	47.5	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	-	-	-	-	28.0	42.9	75.1	-
Pore Water Pressure, Δu_f (psi)	-	-	-	-	12.8	19.6	36.5	-
Major Effective Stress (psi), $\sigma_1'_f$	-	-	-	-	36.1	65.1	122.6	-
Secant Friction Angle (degrees)	-	-	-	-	39.3	29.4	26.2	-
Effective Friction Angle (degrees)	-				22.1			
Effective Cohesion (psi)	-				5.9			

Note: Multi-stage testing was performed for this sample. The first two stages were terminated in accordance with stress path tangency and/or peak principal stress ratio. The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio are presented in tabular form on the first page of the report. There are alternate interpretations to this failure criterion including but not limited to peak principal stress difference and strain compatibility.

Jeffrey A. Kuhn , Ph.D., P.E., 2/14/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-11 U4 (6-8)

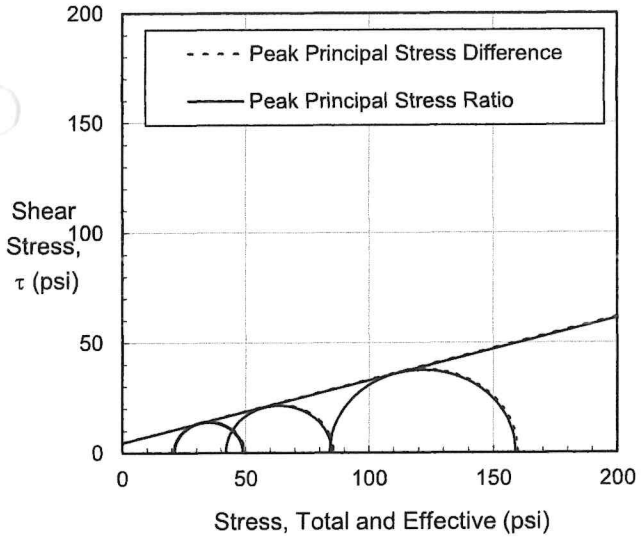
TRI Log #: 24-000170-05
Test Method: ASTM D4767 Mod

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	15.9	15.8
Cohesion (psi)	c_R	4.7	4.5

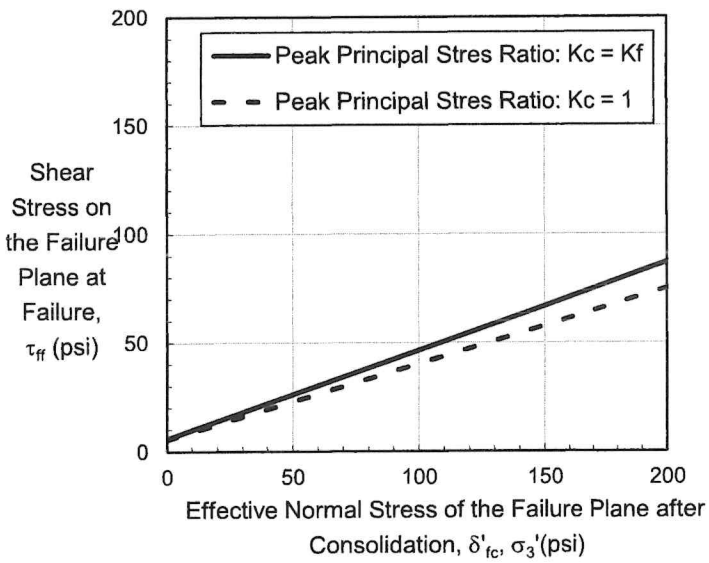
Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	25.1	22.1
Effective Cohesion (psi)	c'	1.2	5.9

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	18.9	19.2
Cohesion (psi)	$\psi_{Kc=1}$	5.6	5.5

R / "Total Stress" Envelope



Three-Stage Rapid Drawdown Envelopes



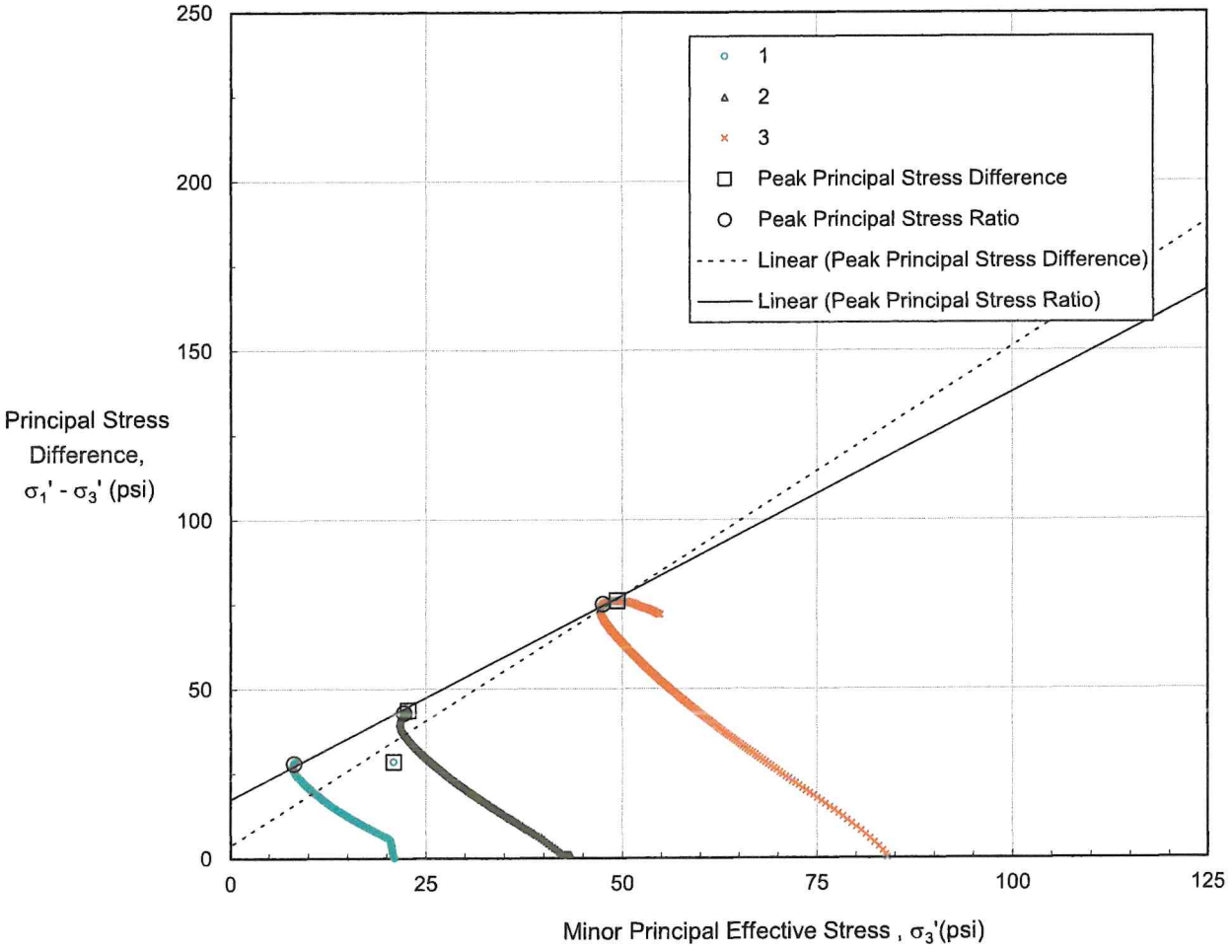
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-11 U4 (6-8)

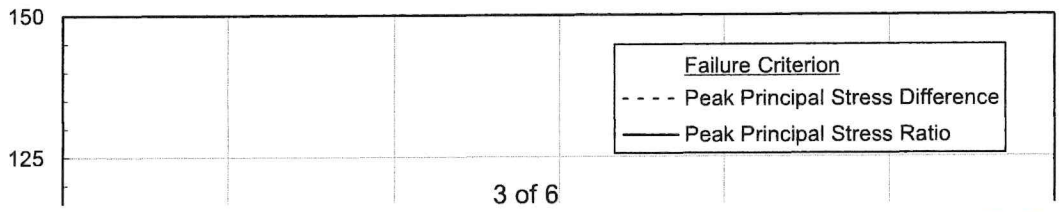
TRI Log #: 24-000170-05
Test Method: ASTM D4767 Mod

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	22.1
Effective Cohesion (psi)	-	5.9

Mohr-Coulomb

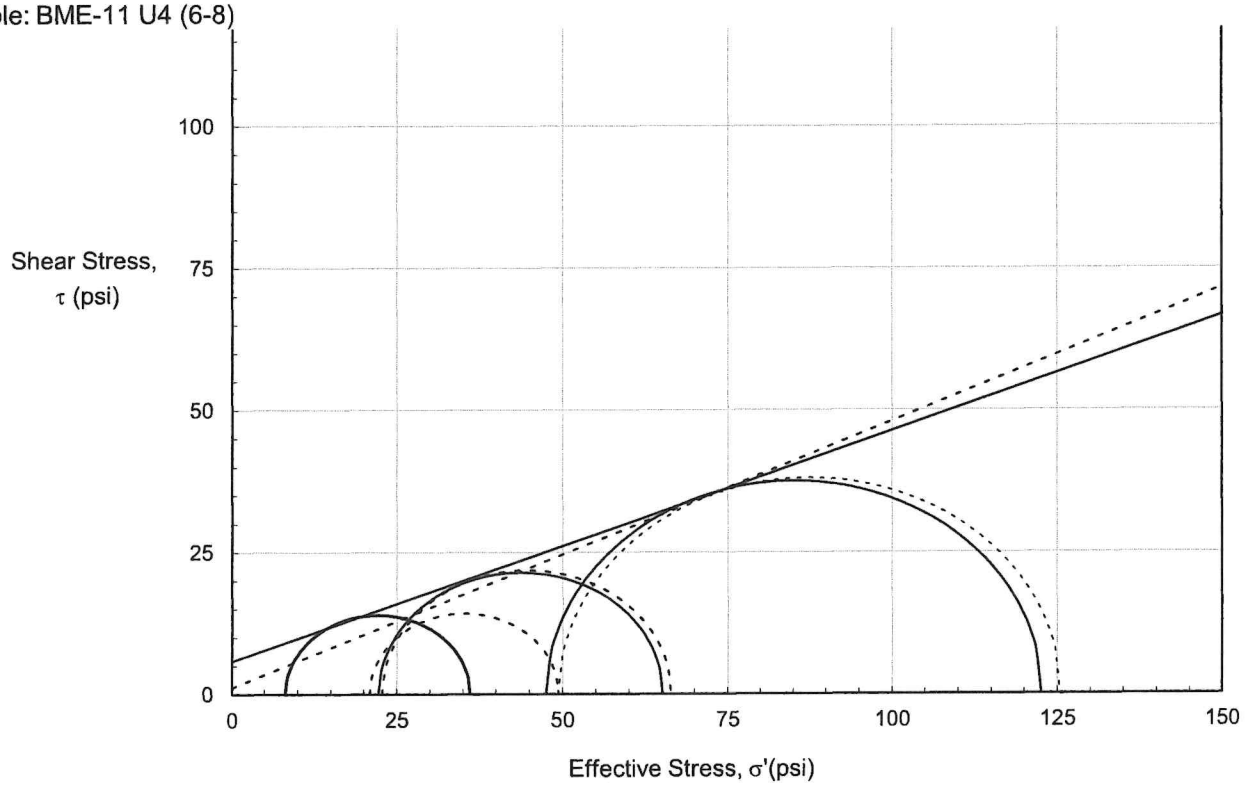


The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-11 U4 (6-8)

TRI Log #: 24-000170-05
Test Method: ASTM D4767 Mod



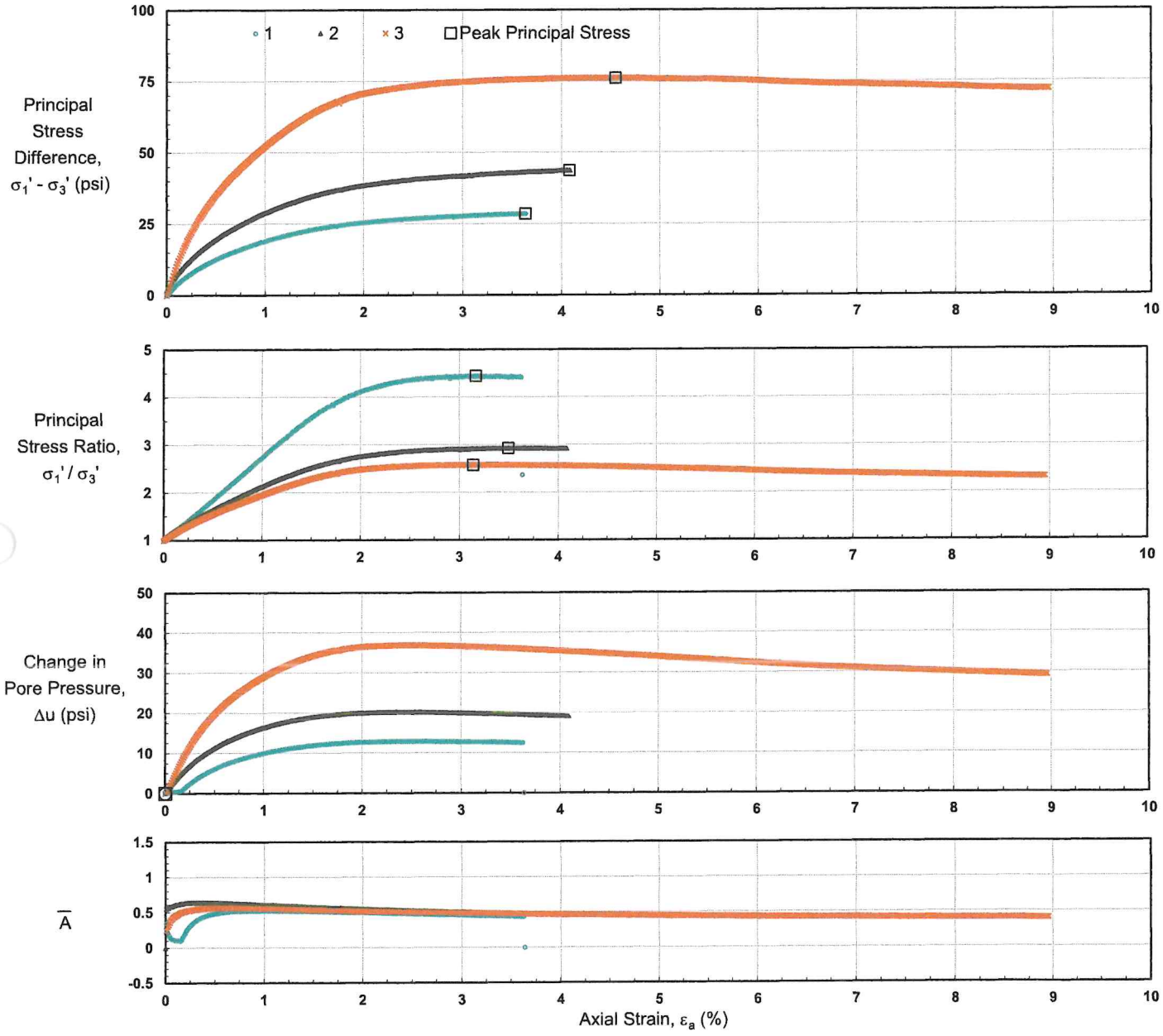
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	22.1
Effective Cohesion (psi)	-	5.9

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-11 U4 (6-8)

TRI Log #: 24-000170-05
Test Method: ASTM D4767 Mod



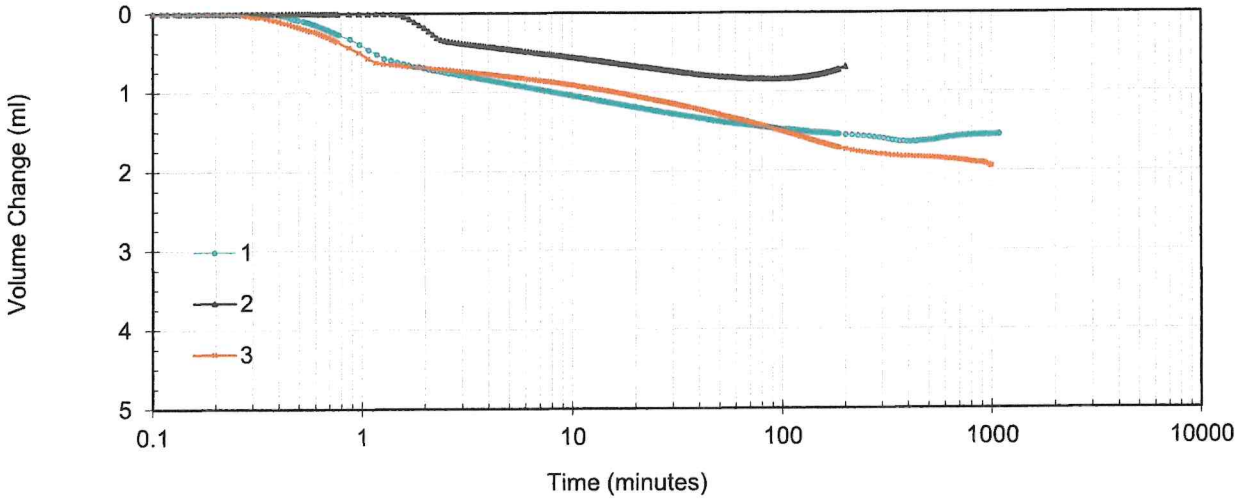
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

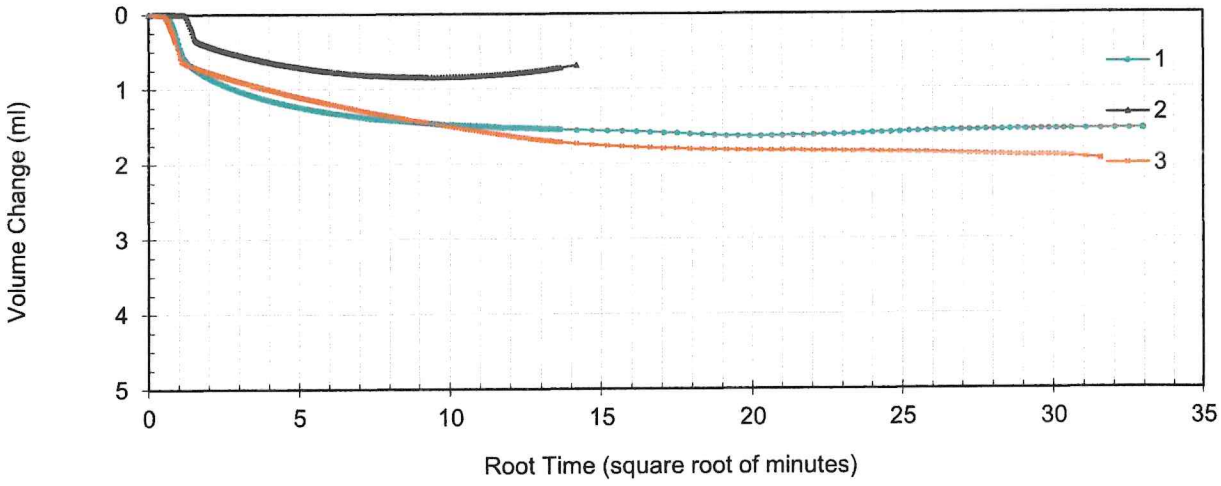
Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-11 U4 (6-8)

TRI Log #: 24-000170-05
Test Method: ASTM D4767 Mod

Consolidation





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-12 U7 (12-14)

TRI Log #: 24-000170-07
Test Method: ASTM D4767 Mod

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	21.0	42.0	84.0	-
Initial Specimen Properties				
Avg. Diameter (in)	1.48	1.47	1.49	-
Avg. Height (in)	3.13	3.07	2.99	-
Avg. Water Content (%)	24.0	-	-	-
Bulk Density (pcf)	120.6	-	-	-
Dry Density (pcf)	97.3	-	-	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	86.3	-	-	-
Void Ratio, n	0.76	0.72	0.70	-
B-Value, End of Saturation	0.97	-	-	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.72	0.70	0.65	-

Shear / Post-Shear				
Rate of Strain (%/hr)	1.00	1.00	1.00	-
Avg. Water Content (%)	-	-	30.4	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	-	-	-	-	1.5	2.0	1.8	-
Minor Effective Stress (psi), $\sigma_3'_f$	-	-	-	-	10.4	24.4	48.4	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	-	-	-	-	23.3	38.0	70.1	-
Pore Water Pressure, Δu_f (psi)	-	-	-	-	10.8	17.4	35.6	-
Major Effective Stress (psi), $\sigma_1'_f$	-	-	-	-	33.8	62.4	118.6	-
Secant Friction Angle (degrees)	-	-	-	-	31.8	25.9	24.8	-
Effective Friction Angle (degrees)	-				22.5			
Effective Cohesion (psi)	-				3.1			

Note: Multi-stage testing was performed for this sample. The first two stages were terminated in accordance with stress path tangency and/or peak principal stress ratio. The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio are presented in tabular form on the first page of the report. There are alternate interpretations to this failure criterion including but not limited to peak principal stress difference and strain compatibility.

Jeffrey A. Kuhn , Ph.D., P.E., 2/13/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-12 U7 (12-14)

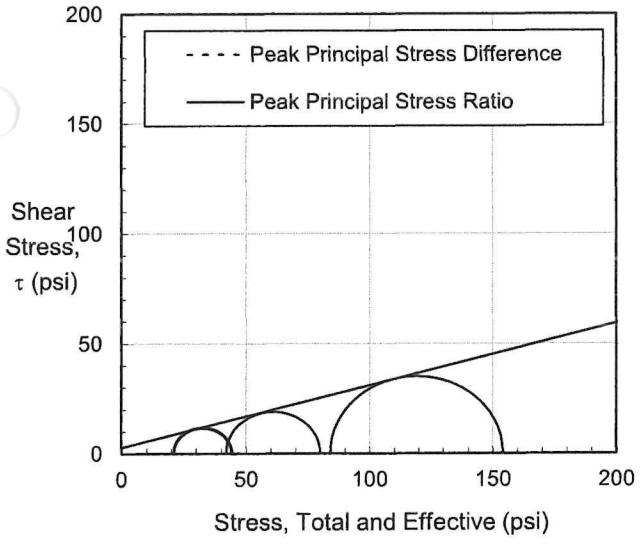
TRI Log #: 24-000170-07
Test Method: ASTM D4767 Mod

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	15.8	15.8
Cohesion (psi)	c_R	2.7	2.7

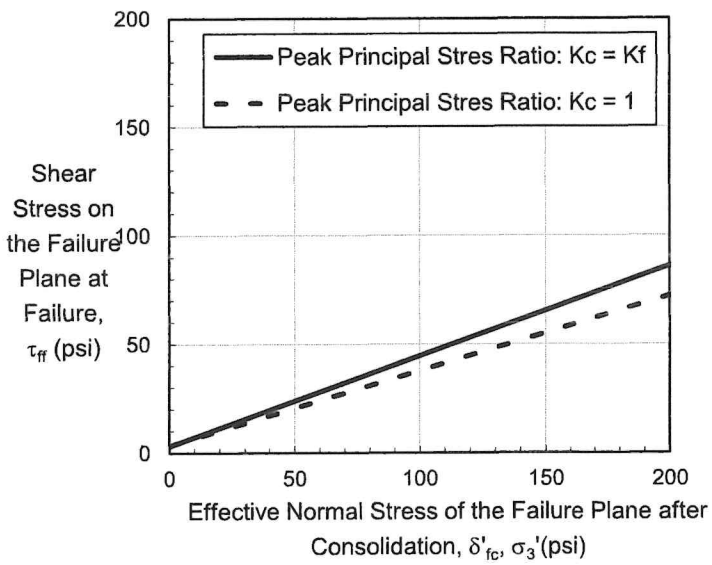
Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	22.5	22.5
Effective Cohesion (psi)	c'	3.1	3.1

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	19.0	19.0
Cohesion (psi)	$\Psi_{Kc=1}$	3.3	3.3

R / "Total Stress" Envelope



Three-Stage Rapid Drawdown Envelopes



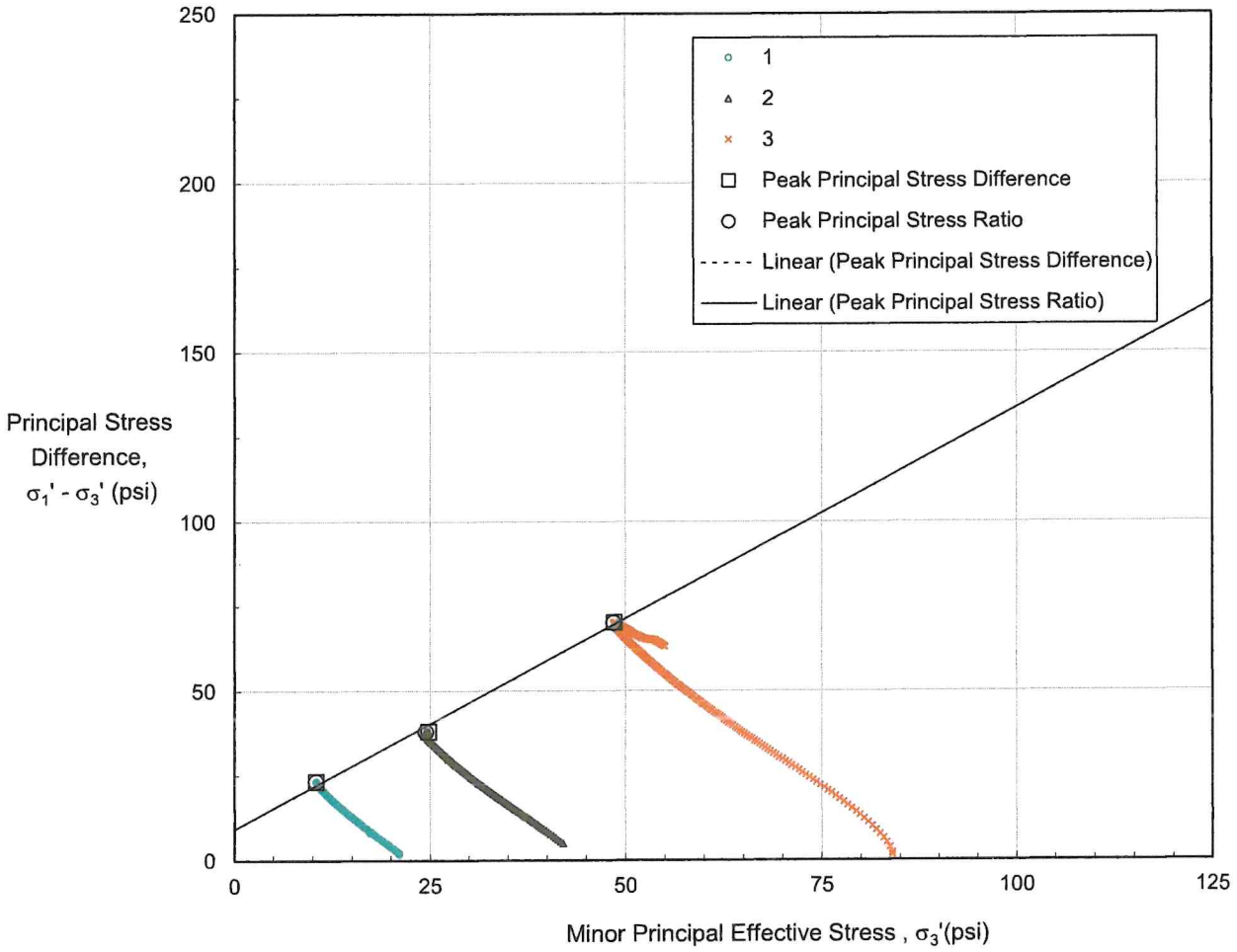
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-12 U7 (12-14)

TRI Log #: 24-000170-07
Test Method: ASTM D4767 Mod

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	22.5
Effective Cohesion (psi)	-	3.1

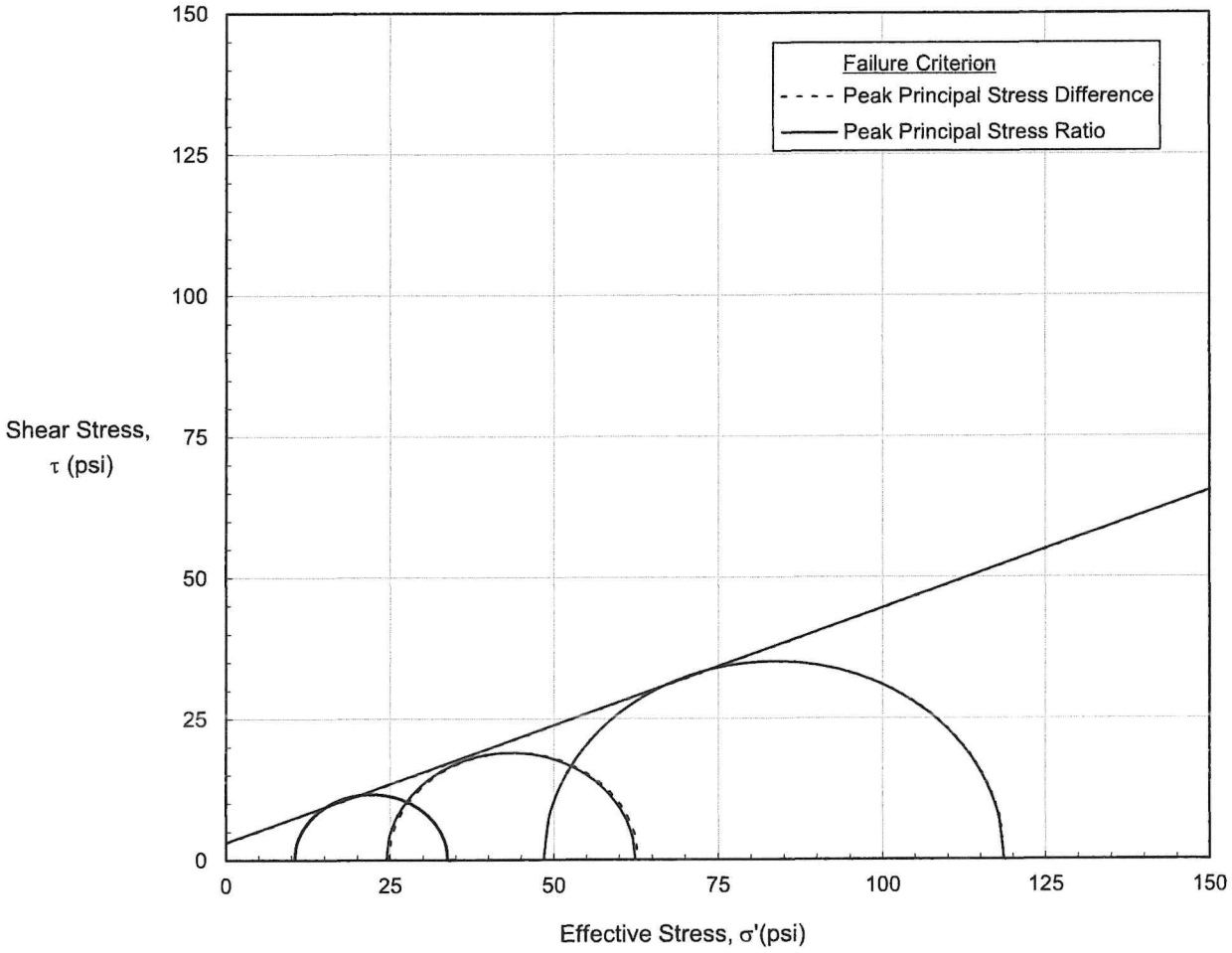
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-12 U7 (12-14)

TRI Log #: 24-000170-07
Test Method: ASTM D4767 Mod

Mohr-Coulomb



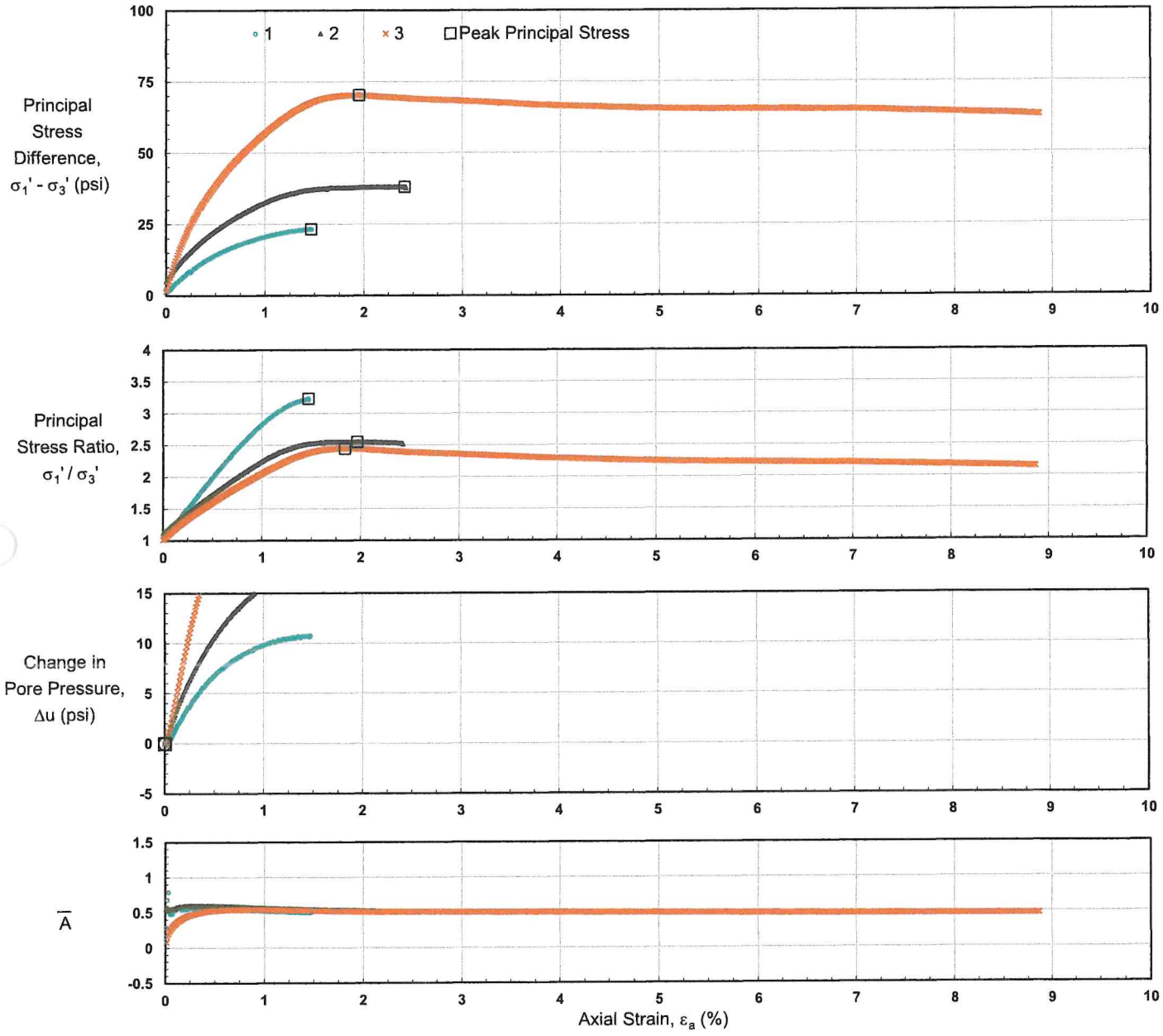
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	22.5
Effective Cohesion (psi)	-	3.1

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-12 U7 (12-14)

TRI Log #: 24-000170-07
Test Method: ASTM D4767 Mod



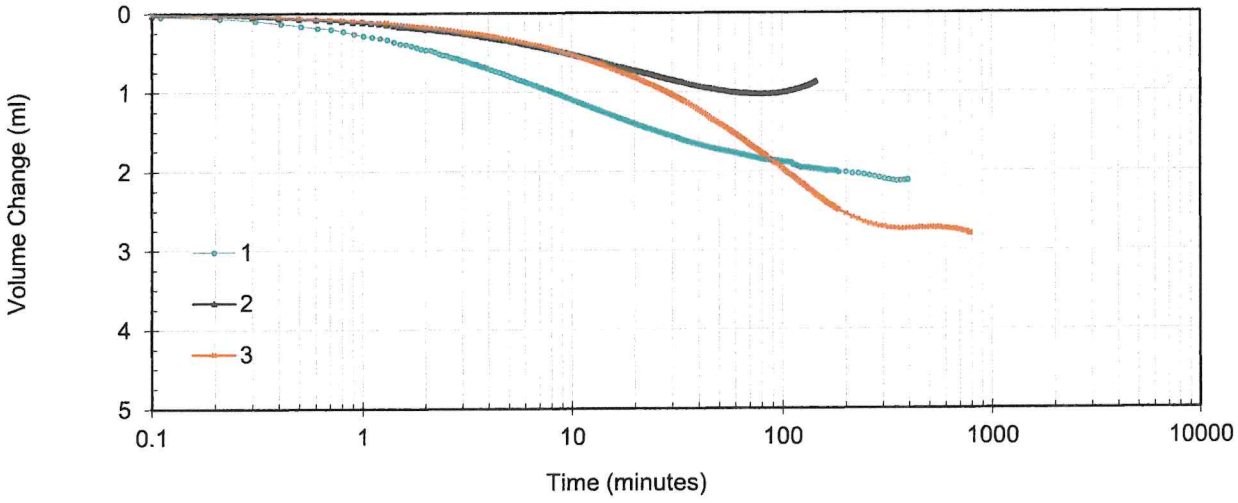
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

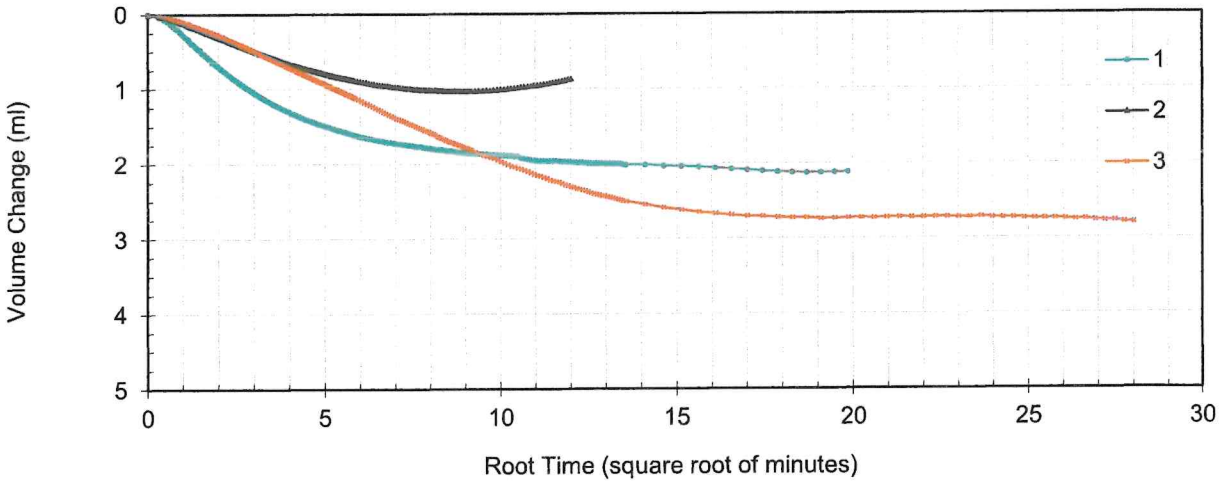
Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-12 U7 (12-14)

TRI Log #: 24-000170-07
Test Method: ASTM D4767 Mod

Consolidation





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-14 U5 (8-10)

TRI Log #: 24-000171-02
Test Method: ASTM D4767 Mod

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	32.0	64.0	128.0	-
Initial Specimen Properties				
Avg. Diameter (in)	1.46	1.33	1.34	-
Avg. Height (in)	2.81	3.36	3.28	-
Avg. Water Content (%)	19.4	-	-	-
Bulk Density (pcf)	117.8	-	-	-
Dry Density (pcf)	98.6	-	-	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	72.1	-	-	-
Void Ratio, n	0.74	0.72	0.71	-
B-Value, End of Saturation	0.97	-	-	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.72	0.71	0.66	-

Shear / Post-Shear				
Rate of Strain (%/hr)	1.00	1.00	1.00	-
Avg. Water Content (%)	-	-	24.5	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	-	-	-	-	5.1	1.9	1.6	-
Minor Effective Stress (psi), $\sigma_3'_f$	-	-	-	-	30.9	26.8	62.9	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	-	-	-	-	91.0	88.0	155.4	-
Pore Water Pressure, Δu_f (psi)	-	-	-	-	1.2	37.2	65.2	-
Major Effective Stress (psi), $\sigma_1'_f$	-	-	-	-	121.8	114.8	218.3	-
Secant Friction Angle (degrees)	-	-	-	-	36.6	38.4	33.5	-
Effective Friction Angle (degrees)	-				29.3			
Effective Cohesion (psi)	-				10.0			

Note: Multi-stage testing was performed for this sample. The first two stages were terminated in accordance with stress path tangency and/or peak principal stress ratio. The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio are presented in tabular form on the first page of the report. There are alternate interpretations to this failure criterion including but not limited to peak principal stress difference and strain compatibility.

Jeffrey A. Kuhn , Ph.D., P.E., 2/14/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-14 U5 (8-10)

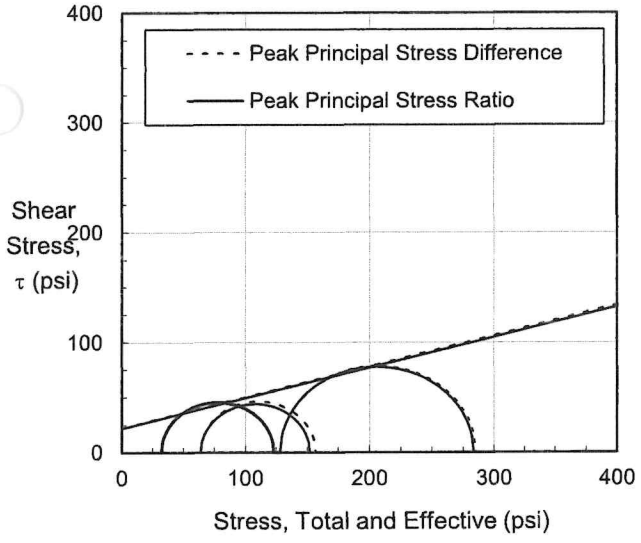
TRI Log #: 24-000171-02
Test Method: ASTM D4767 Mod

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	15.6	15.4
Cohesion (psi)	c_R	22.2	21.8

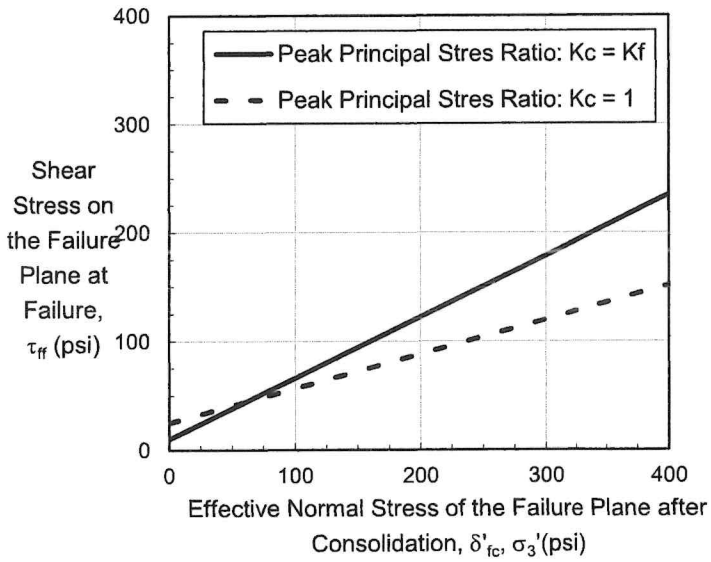
Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	28.4	29.3
Effective Cohesion (psi)	c'	11.1	10.0

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	18.0	17.5
Cohesion (psi)	$\psi_{Kc=1}$	25.8	25.0

R / "Total Stress" Envelope



Three-Stage Rapid Drawdown Envelopes



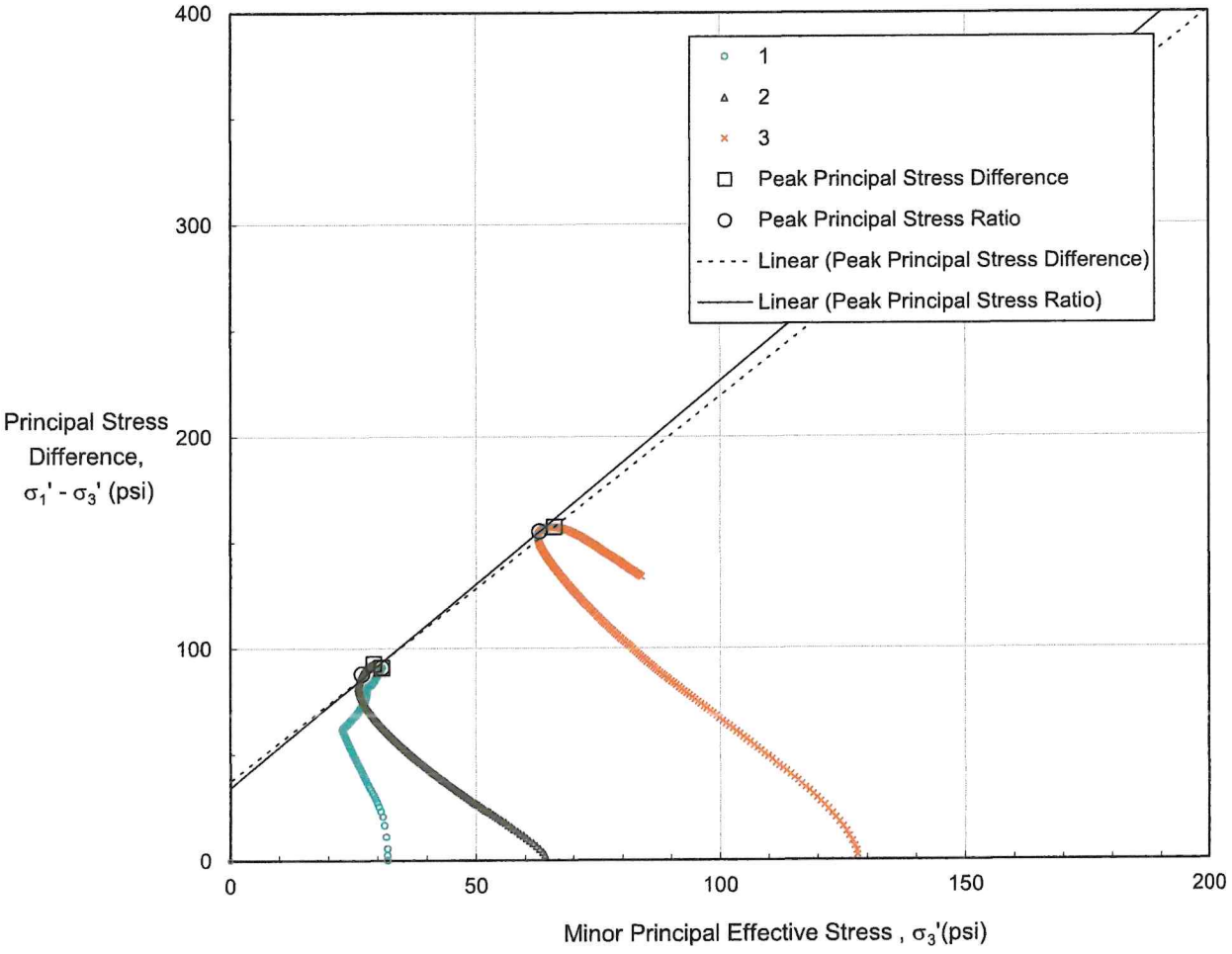
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-14 U5 (8-10)

TRI Log #: 24-000171-02
Test Method: ASTM D4767 Mod

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	29.3
Effective Cohesion (psi)	-	10.0

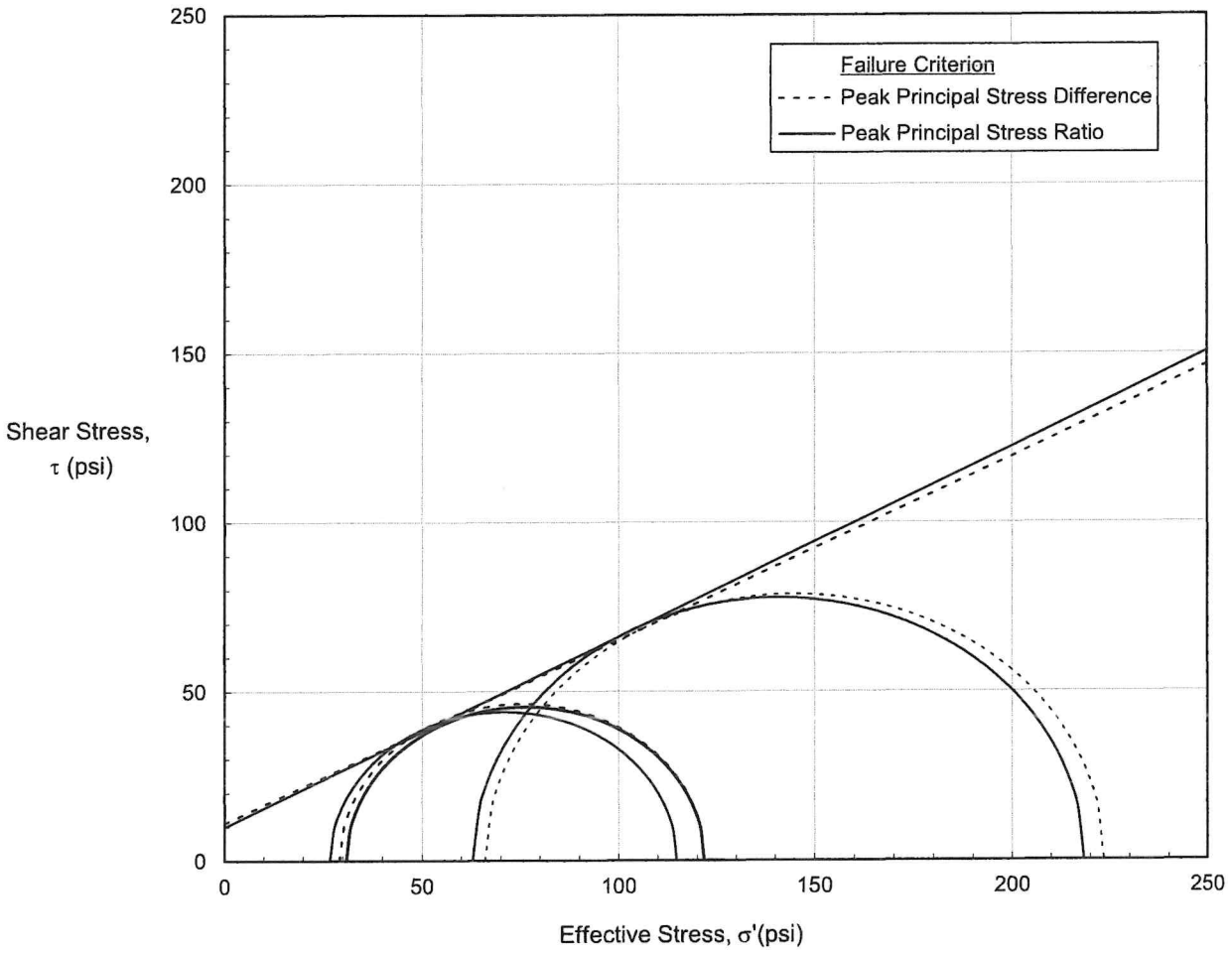
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-14 U5 (8-10)

TRI Log #: 24-000171-02
Test Method: ASTM D4767 Mod

Mohr-Coulomb



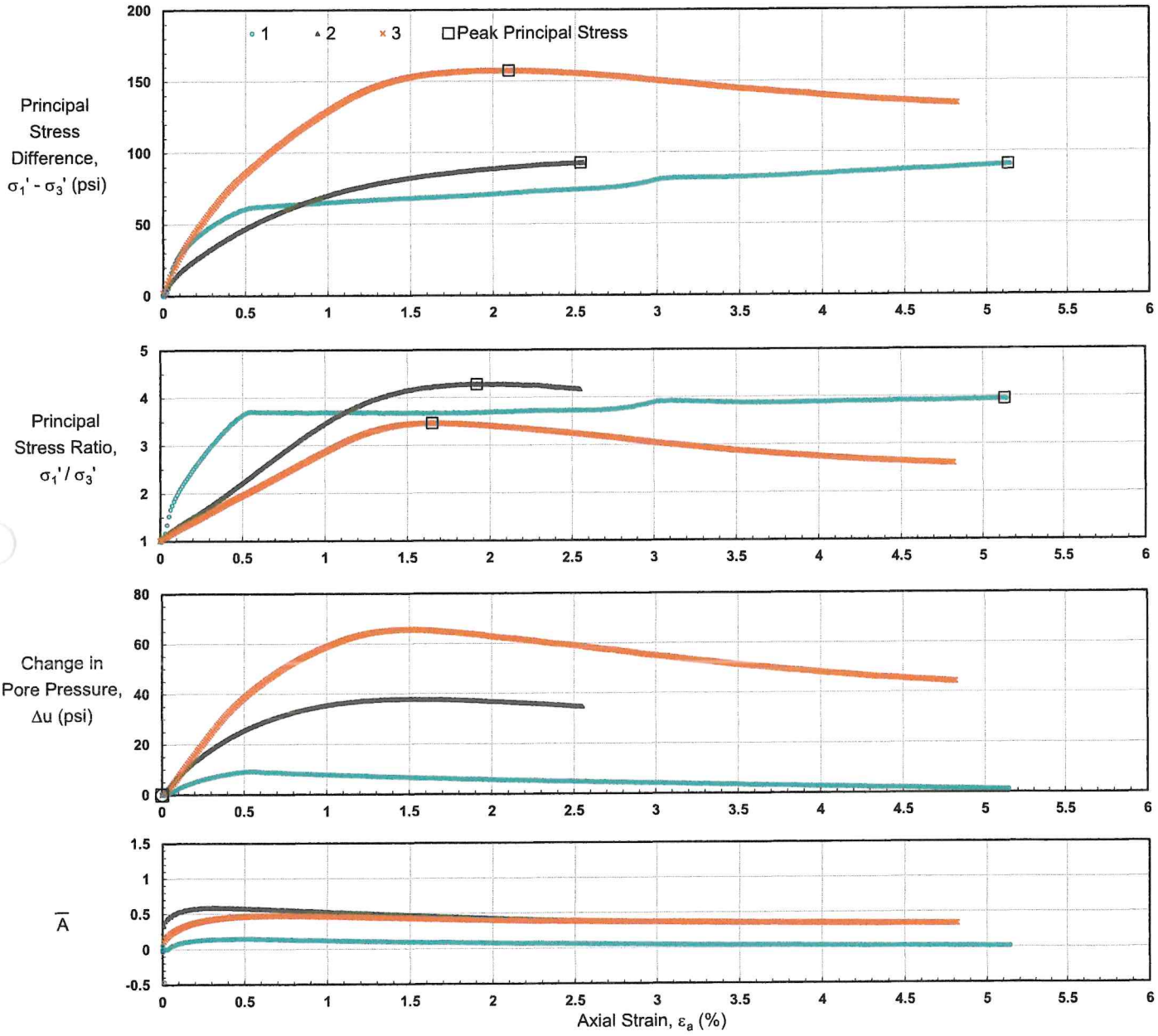
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	29.3
Effective Cohesion (psi)	-	10.0

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-14 U5 (8-10)

TRI Log #: 24-000171-02
Test Method: ASTM D4767 Mod



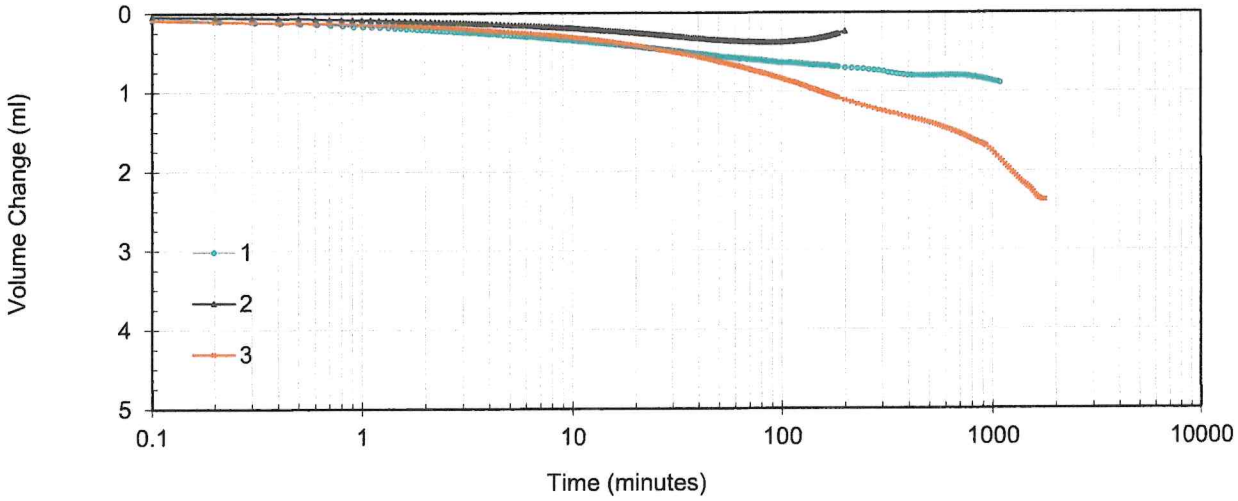
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

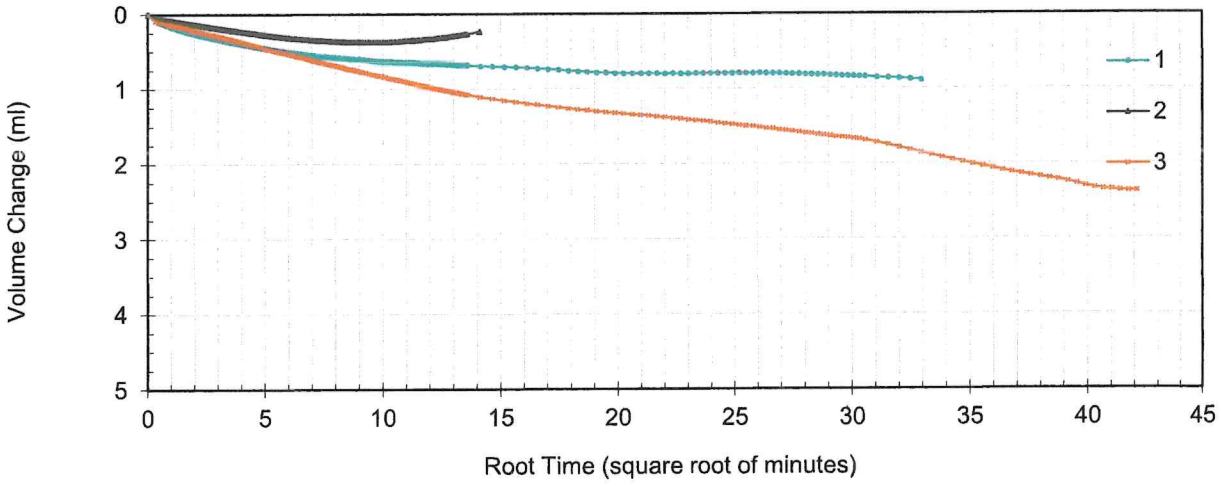
Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-14 U5 (8-10)

TRI Log #: 24-000171-02
Test Method: ASTM D4767 Mod

Consolidation





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-20 U20 (38-40)

TRI Log #: 24-000171-06
Test Method: ASTM D4767 Mod

Specimens				
Identification	1	2	3	4
Depth/Elev. (ft)	-	-	-	-
Eff. Consol. Stress (psi)	32.0	64.0	128.0	-
Initial Specimen Properties				
Avg. Diameter (in)	1.44	1.39	1.32	-
Avg. Height (in)	3.40	3.18	3.13	-
Avg. Water Content (%)	23.3	-	-	-
Bulk Density (pcf)	126.7	-	-	-
Dry Density (pcf)	102.8	-	-	-
Specific Gravity (Assumed)	2.75			
Saturation (%)	95.5	-	-	-
Void Ratio, n	0.67	0.46	0.30	-
B-Value, End of Saturation	0.99	-	-	-

Test Setup	
Specimen Condition	Undisturbed / Intact
Specimen Preparation	Trimmed
Mounting Method	Wet
Consolidation	Isotropic

Post-Consolidation / Pre-Shear				
Void Ratio	0.46	0.30	0.06	-

Shear / Post-Shear				
Rate of Strain (%/hr)	1.00	1.00	1.00	-
Avg. Water Content (%)	23.4	-	#DIV/0!	-

At Failure								
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$				Ratio, $(\sigma_1'/\sigma_3')_{max}$			
Axial Strain at Failure (%), $\varepsilon_{a,f}$	-	-	-	-	1.7	2.2	3.1	-
Minor Effective Stress (psi), $\sigma_3'_f$	-	-	-	-	4.7	22.7	52.1	-
Principal Stress Difference (psi), $(\sigma_1-\sigma_3)_f$	-	-	-	-	76.2	127.1	235.9	-
Pore Water Pressure, Δu_f (psi)	-	-	-	-	27.3	41.3	76.0	-
Major Effective Stress (psi), $\sigma_1'_f$	-	-	-	-	80.9	149.8	288.1	-
Secant Friction Angle (degrees)	-	-	-	-	62.9	47.5	43.9	-
Effective Friction Angle (degrees)	-				39.0			
Effective Cohesion (psi)	-				13.4			

Note: Multi-stage testing was performed for this sample. The first two stages were terminated in accordance with stress path tangency and/or peak principal stress ratio. The presented M-C parameters are based on a linear regression in modified stress space, across all assigned effective consolidation stresses. This fit does not purported to capture typical curvature of envelopes that may, in particular, be observed across broader range in effective stresses. Please note that the stresses associated with peak principal stress ratio are presented in tabular form on the first page of the report. There are alternate interpretations to this failure criterion including but not limited to peak principal stress difference and strain compatibility.

Jeffrey A. Kuhn , Ph.D., P.E., 2/13/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-20 U20 (38-40)

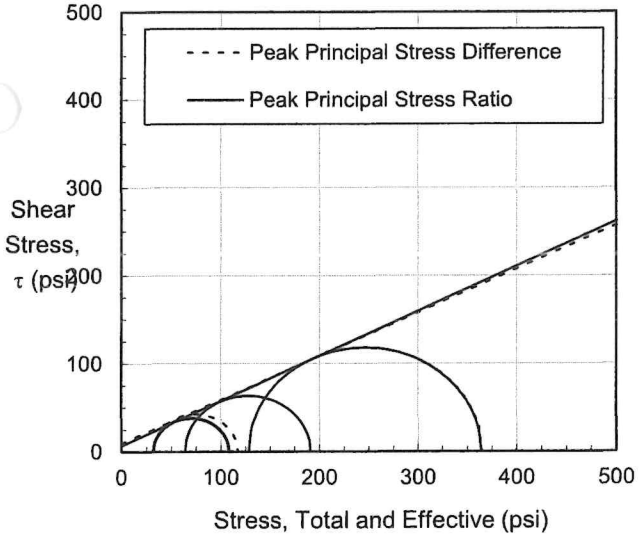
TRI Log #: 24-000171-06
Test Method: ASTM D4767 Mod

R / "Total Stress" Envelope			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	ϕ_R	26.4	27.1
Cohesion (psi)	c_R	9.4	6.7

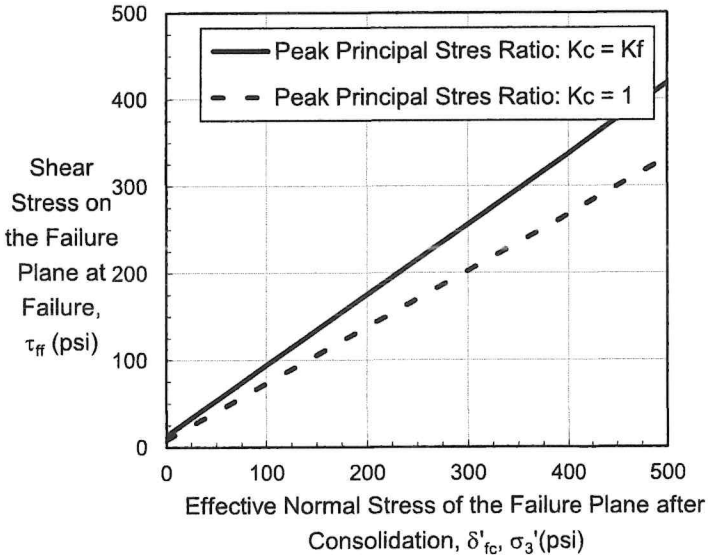
Kc = Kf Envelope, Effective Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	ϕ'	39.3	39.0
Effective Cohesion (psi)	c'	12.8	13.4

Kc = 1 (τ_{ff} vs σ'_{fc}) Envelope, Total Stress Envelope (Duncan et al. 1990)			
Failure Criterion: Peak Principal Stress		Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Friction Angle (deg)	$d_{Kc=1}$	31.8	33.0
Cohesion (psi)	$\Psi_{Kc=1}$	11.7	8.5

R / "Total Stress" Envelope



Three-Stage Rapid Drawdown Envelopes



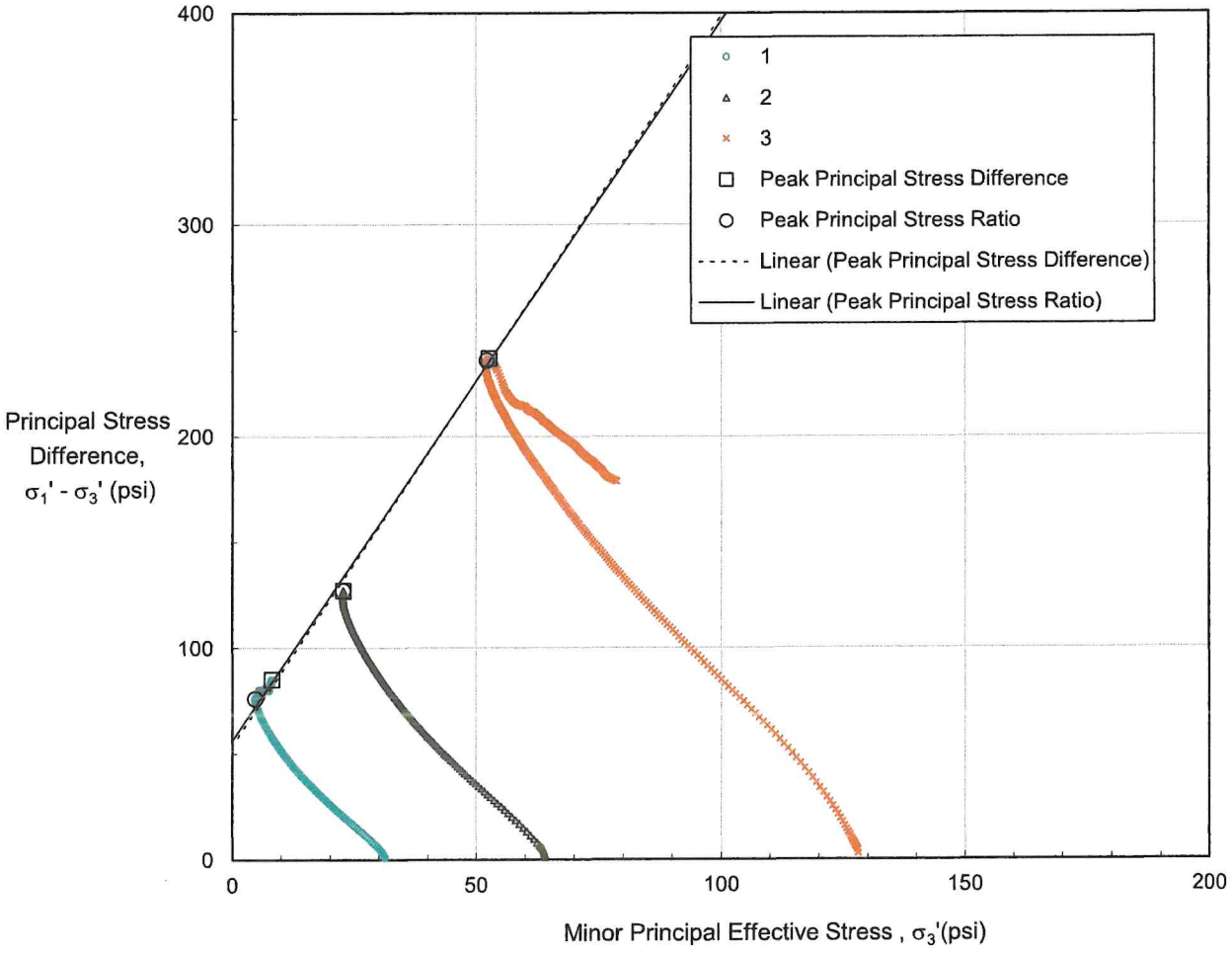
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-20 U20 (38-40)

TRI Log #: 24-000171-06
Test Method: ASTM D4767 Mod

Modified Mohr-Coulomb



Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	39.0
Effective Cohesion (psi)	-	13.4

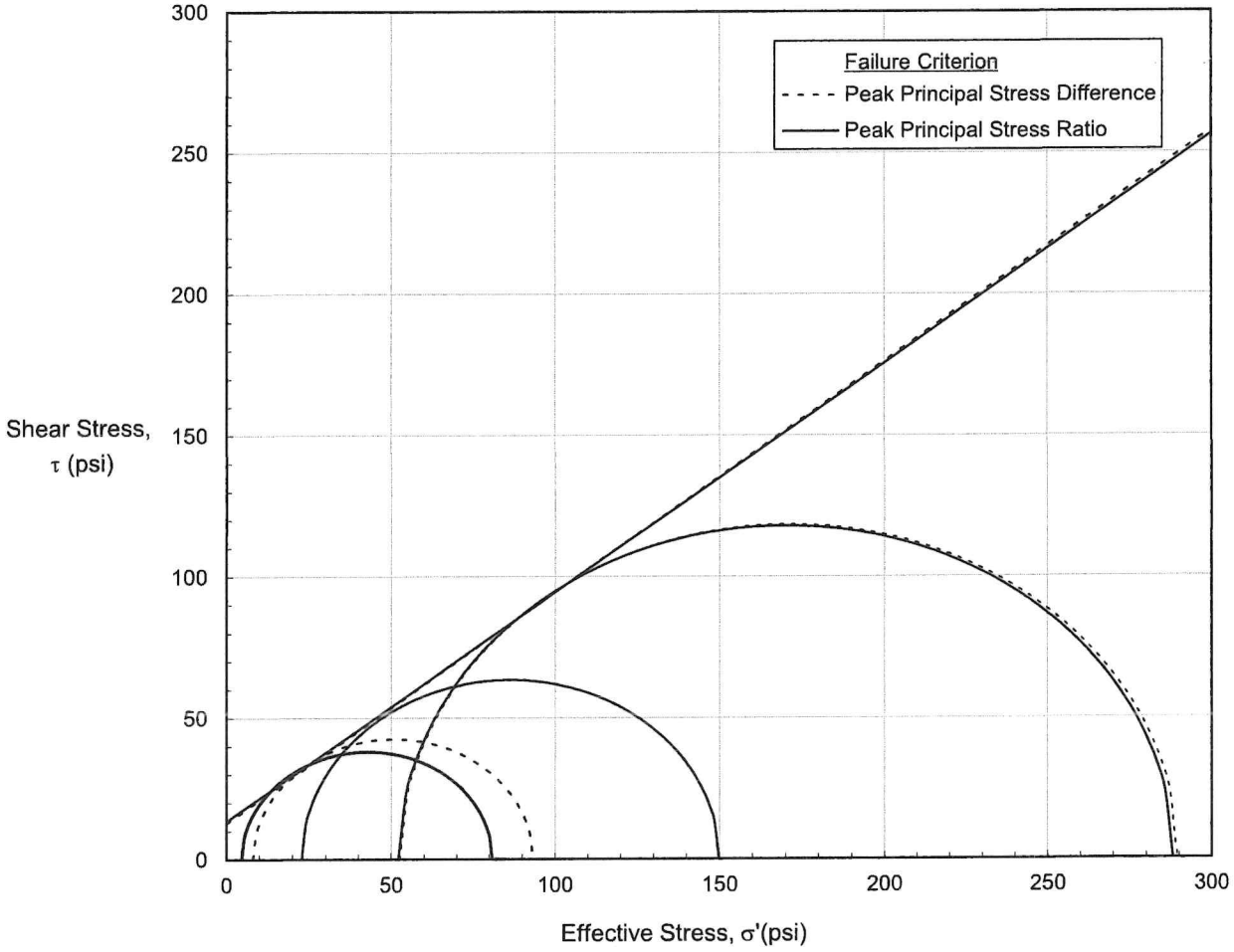
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-20 U20 (38-40)

TRI Log #: 24-000171-06
Test Method: ASTM D4767 Mod

Mohr-Coulomb



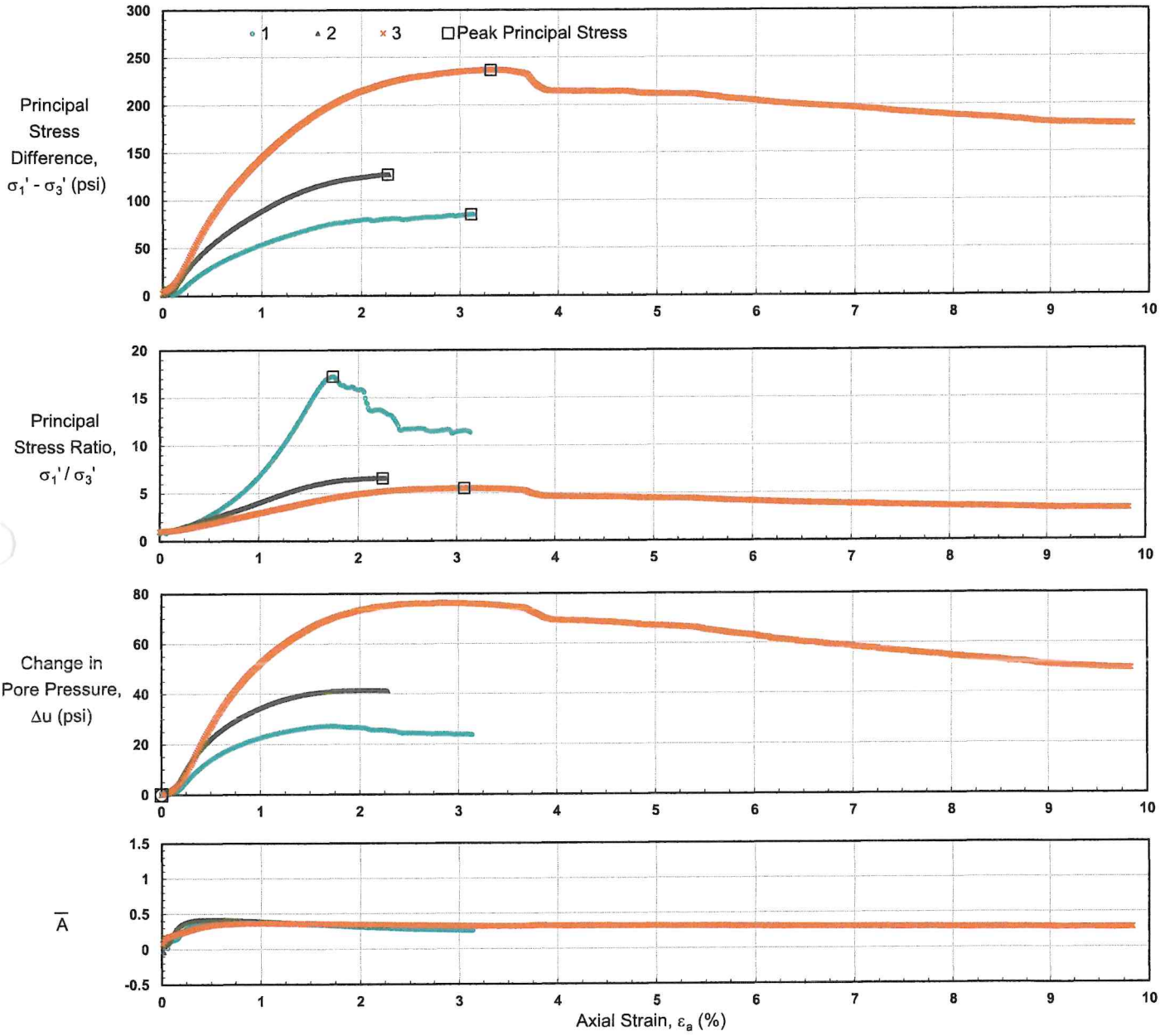
Failure Criterion: Peak Principal Stress	Difference, $(\sigma_1'-\sigma_3')_{max}$	Ratio, $(\sigma_1'/\sigma_3')_{max}$
Effective Friction Angle (deg)	-	39.0
Effective Cohesion (psi)	-	13.4

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-20 U20 (38-40)

TRI Log #: 24-000171-06
Test Method: ASTM D4767 Mod



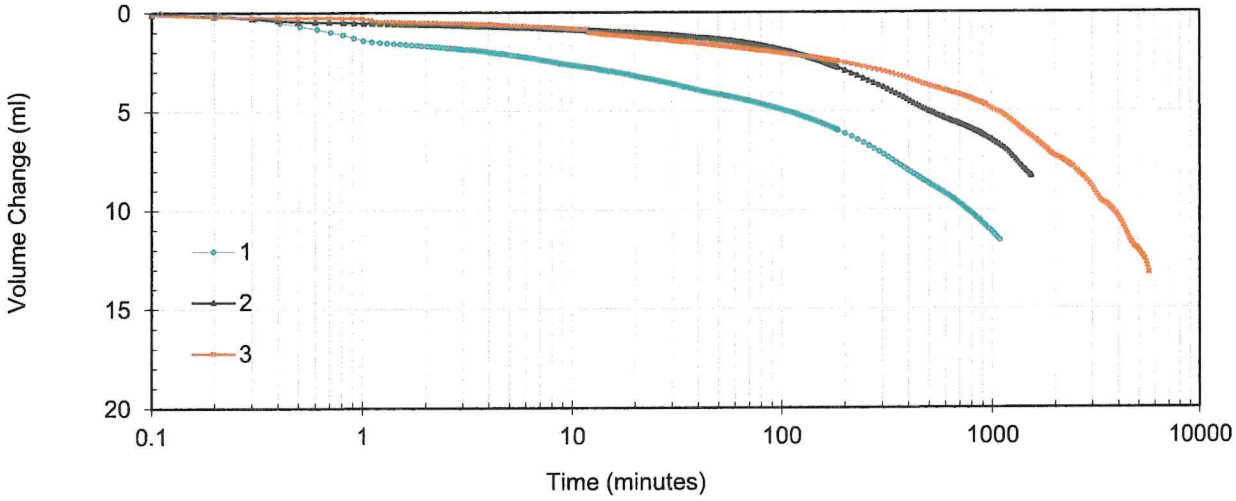
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

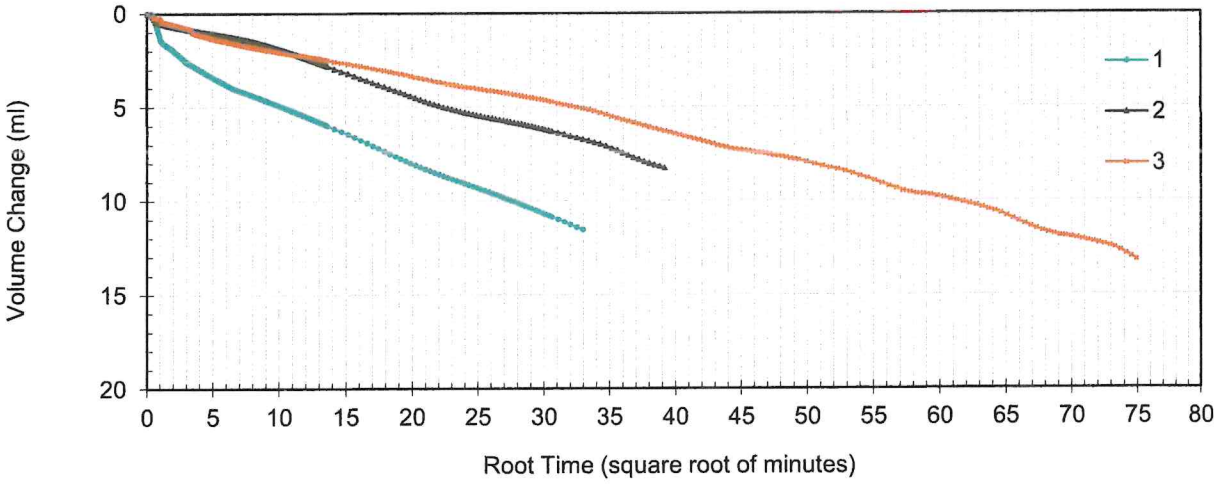
Multi-Stage Consolidated-Undrained Triaxial Compression

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample: BME-20 U20 (38-40)

TRI Log #: 24-000171-06
Test Method: ASTM D4767 Mod

Consolidation





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Hydraulic Conductivity (ASTM D5084)

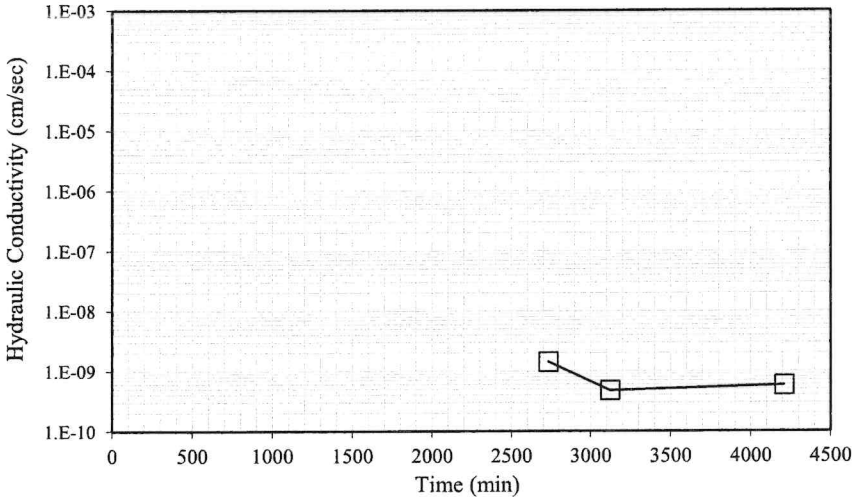
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample ID: BME-7 U2 (2-4)

TRI Log #: 24-000170.1

Sample Condition	Initial	Final
	Intact	Post-Test
Diameter (in)	2.80	2.83
Height (in)	2.87	2.91
Mass (g)	586.5	600.0
Sample Area (in^2)	6.17	6.28
Water Content (%)	22.5	26.5
Total Unit Weight (pcf)	126.2	125.0
Dry Unit Weight (pcf)	103.0	98.8
Specific Gravity (Assumed)	2.75	
Degree of Saturation	93.0	99.1
Void Ratio	0.67	0.74
Porosity	0.40	0.42
1 Pore Volume (cc)	116.0	127.0

Eff. Confining Stress (psi)	7.0
Back-Pressure	80.0
B-Value Prior to Permeation	0.90
Permeant	De-Aired Tap Water

Method F—Constant Volume–Falling Head by mercury, rising tailwater elevation			
Manometer Constants		Aa (cm^2)	0.767
M1	0.0302	Ap (cm^2)	0.0314
M2	1.041	Z_p (cm)	0
Time, t	Trial Constant, Z_1	Gradient	K_{20}
Min	-	-	cm/s
2732.7	20.0	34.4	1.4E-09
3122.2	11.3	19.5	4.8E-10
4210.9	11.0	19.0	5.9E-10
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Average, Last 2 Readings			**5.3E-10**



Kelby Broussard 1/25/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Hydraulic Conductivity (ASTM D5084)

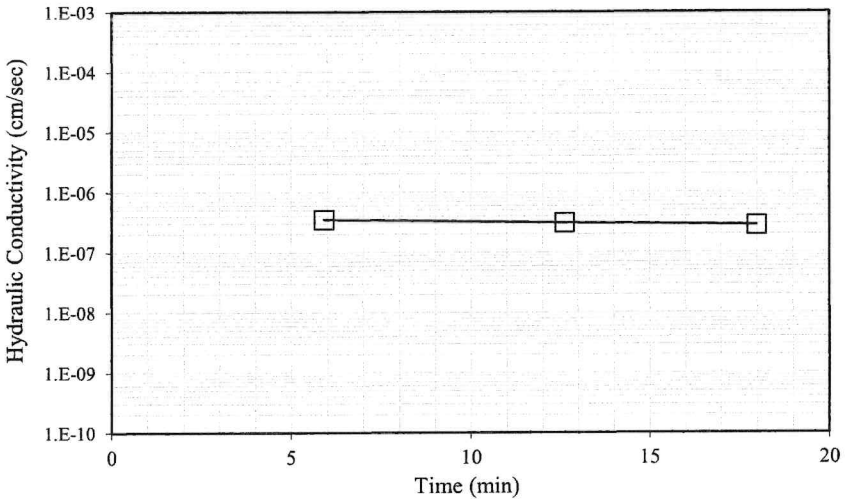
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample ID: BME-12 U21 (40-42)

TRI Log #: 24-000170.8

Sample Condition	Initial	Final
	Intact	Post-Test
Diameter (in)	2.73	2.76
Height (in)	3.64	3.75
Mass (g)	704.6	731.0
Sample Area (in^2)	5.86	5.98
Water Content (%)	21.6	30.0
Total Unit Weight (pcf)	125.7	124.1
Dry Unit Weight (pcf)	103.4	95.5
Specific Gravity (Assumed)	2.75	
Degree of Saturation	89.9	103.5
Void Ratio	0.66	0.80
Porosity	0.40	0.44
1 Pore Volume (cc)	139.1	163.1

Eff. Confining Stress (psi)	5.0
Back-Pressure	80.0
B-Value Prior to Permeation	0.95
Permeant	De-Aired Tap Water

Method F—Constant Volume–Falling Head by mercury, rising tailwater elevation			
Manometer Constants		Aa (cm^2)	0.767
M1	0.0302	Ap (cm^2)	0.0314
M2	1.041	Z_p (cm)	0
Time, t	Trial Constant, Z_1	Gradient	K_{20}
Min	-	-	cm/s
5.9	16.1	21.9	3.5E-07
12.6	12.9	17.5	3.1E-07
18.0	10.3	14.0	2.8E-07
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Average, Last 2 Readings			**3.0E-07**



Kelby Broussard 1/25/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

Hydraulic Conductivity (ASTM D5084)

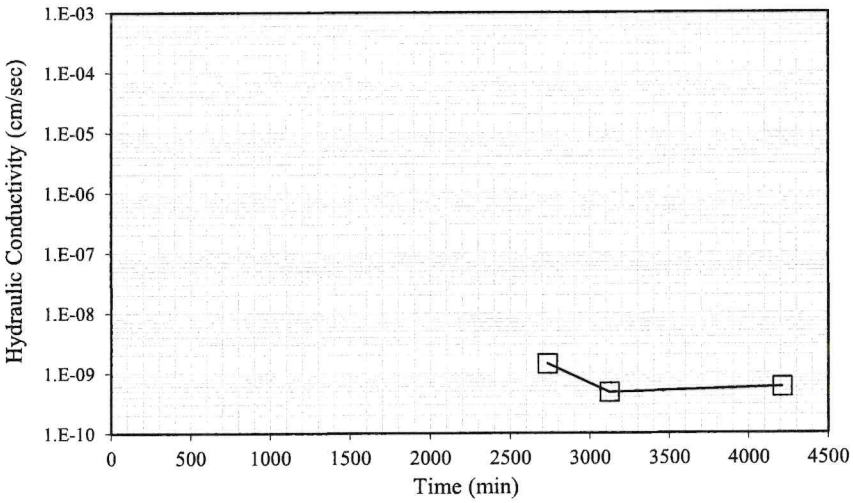
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Sample ID: BME-14 U4 (6-8)

TRI Log #: 24-000171.1

Sample Condition	Initial	Final
	Intact	Post-Test
Diameter (in)	2.80	2.83
Height (in)	2.87	2.91
Mass (g)	586.5	600.0
Sample Area (in^2)	6.17	6.28
Water Content (%)	22.5	26.5
Total Unit Weight (pcf)	126.2	125.0
Dry Unit Weight (pcf)	103.0	98.8
Specific Gravity (Assumed)	2.75	
Degree of Saturation	93.0	99.1
Void Ratio	0.67	0.74
Porosity	0.40	0.42
1 Pore Volume (cc)	116.0	127.0

Eff. Confining Stress (psi)	7.0
Back-Pressure	80.0
B-Value Prior to Permeation	0.90
Permeant	De-Aired Tap Water

Method F—Constant Volume–Falling Head by mercury, rising tailwater elevation			
Manometer Constants		Aa (cm^2)	0.767
M1	0.0302	Ap (cm^2)	0.0314
M2	1.041	Z_p (cm)	0
Time, t	Trial Constant, Z_1	Gradient	K_{20}
Min	-	-	cm/s
2732.7	20.0	34.4	1.4E-09
3122.2	11.3	19.5	4.8E-10
4210.9	11.0	19.0	5.9E-10
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Average, Last 2 Readings			**5.3E-10**



Kelby Broussard 2/15/2024
Analysis & Quality Review/Date

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

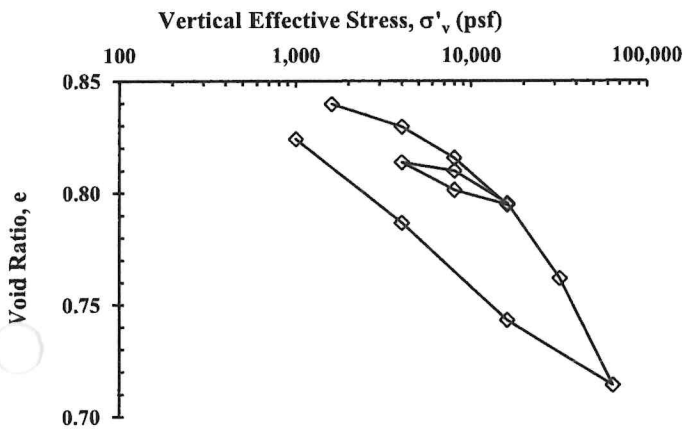
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

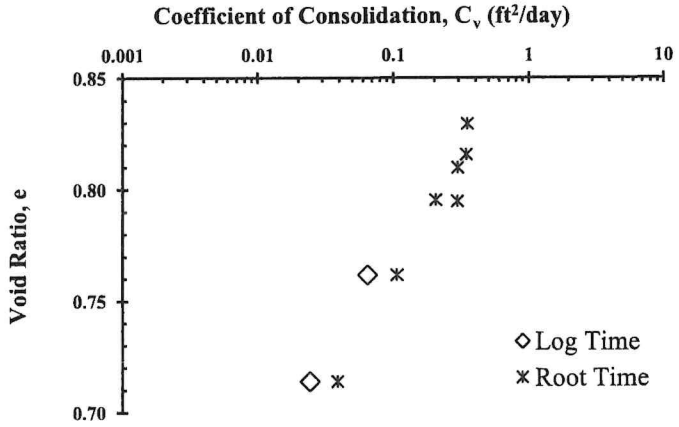
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-7 U-12 (22-24)

TRI Log No.: 24-000170-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

Soil Specimen Properties	Initial	Final
Water Content (%)	23.4	33.1
Diameter (in)	2.49	2.49
Height (in)	1.01	1.00
Dry Unit Weight, γ_o lb_f/ft^3	93.3	94.1
Specific Gravity (Assumed)	2.75	
Void Ratio, e	0.84	0.82
Degree of Saturation (%)	76.6	-

Test Setup		
Specimen Condition	•	Intact / "Undisturbed"
		Compacted/Remolded/Reconstituted
Test Water		Extracted Pore Water
	•	Potable Tap Water
		Demineralized Water
		Saline Water
		Other





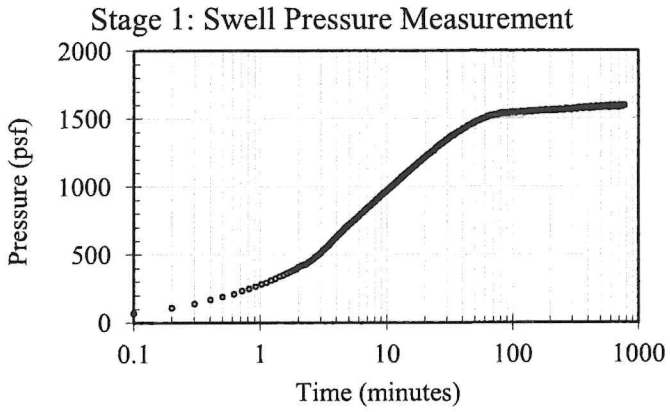
Stage	σ'_v	log (σ'_v)	e	Strain, ε	δe	C_α	t_{50} (min)		C_v (ft^2/day)	
(#)	(psf)	log (psf)	(-)	(%)	δlog (σ'_v)	(x1,000)	Log Time	Root Time	Log Time	Root Time
1	1,600	3.20	0.840	0.00	-	-	-	-	-	-
2	4,000	3.60	0.830	0.55	-0.026	-	-	1.4	-	3.5E-01
3	8,000	3.90	0.816	1.31	-0.046	-	-	1.4	-	3.4E-01
4	16,000	4.20	0.795	2.45	-0.070	-	-	1.6	-	2.9E-01
5	8,000	3.90	0.801	2.09	-0.022	-	-	-	-	-
6	4,000	3.60	0.814	1.42	-0.041	-	-	-	-	-
7	8,000	3.90	0.810	1.63	-0.013	-	-	1.6	-	3.0E-01
8	16,000	4.20	0.795	2.42	-0.048	-	-	2.3	-	2.0E-01
9	32,000	4.51	0.762	4.24	-0.111	-	7.0	4.3	6.5E-02	1.1E-01
10	64,000	4.81	0.714	6.84	-0.159	-	17.7	11.1	2.4E-02	3.9E-02
11	16,000	4.20	0.743	5.26	-0.048	-	-	-	-	-
12	4,000	3.60	0.787	2.89	-0.073	-	-	-	-	-
13	1,000	3.00	0.824	0.85	-0.062	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-

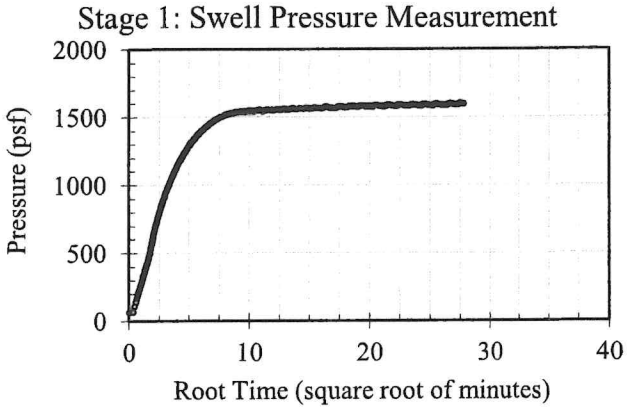
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

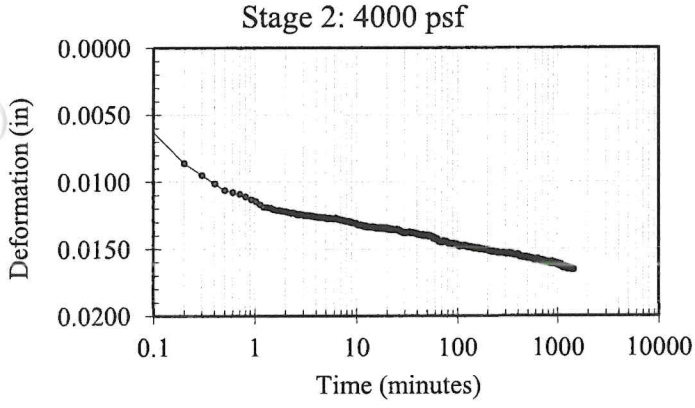
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

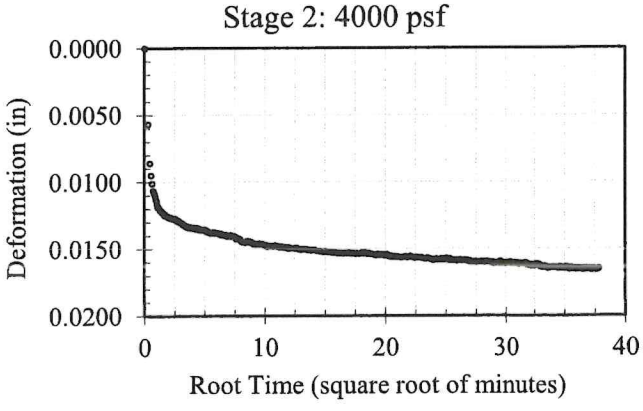
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-7 U-12 (22-24)

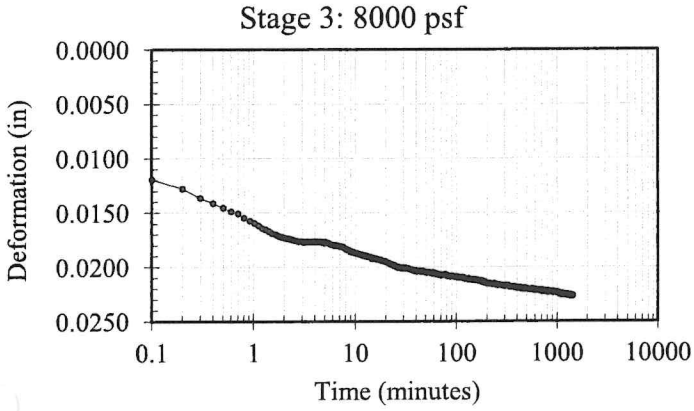
TRI Log No.: 24-000170-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

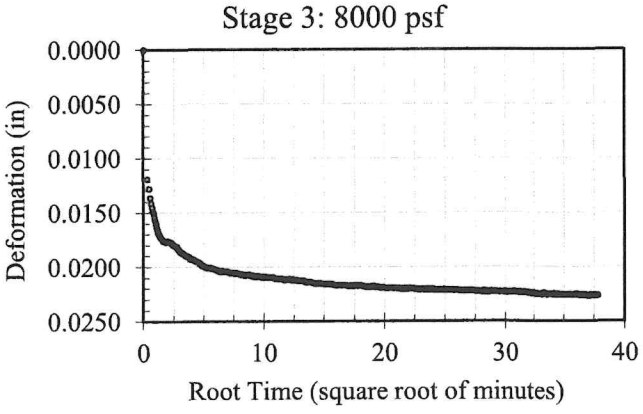










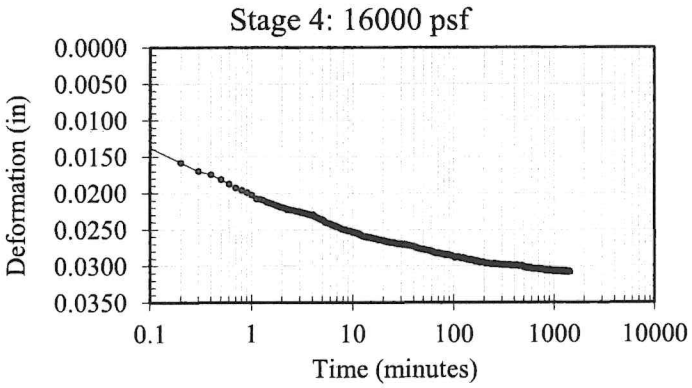


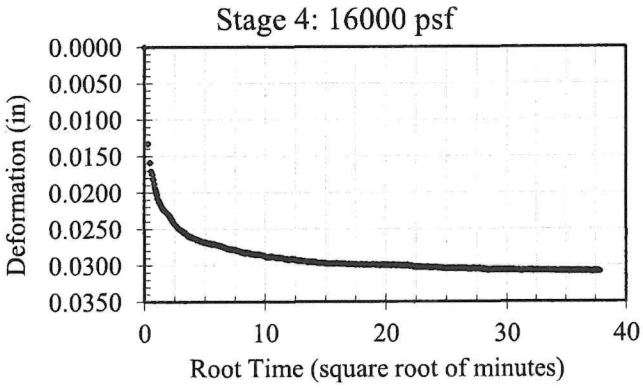
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

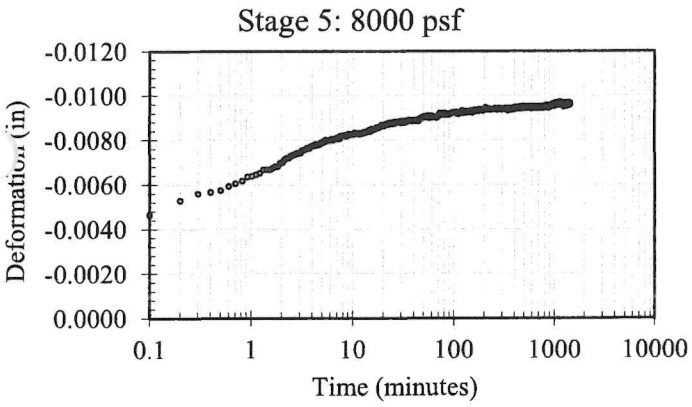
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

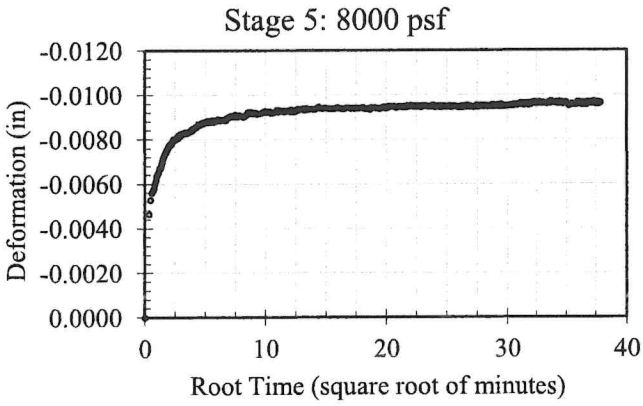
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-7 U-12 (22-24)

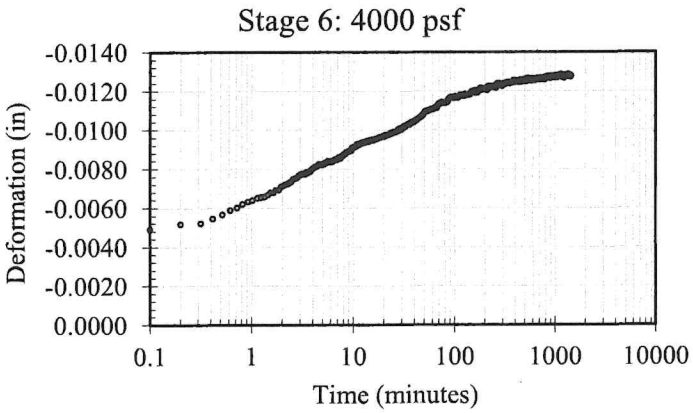
TRI Log No.: 24-000170-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

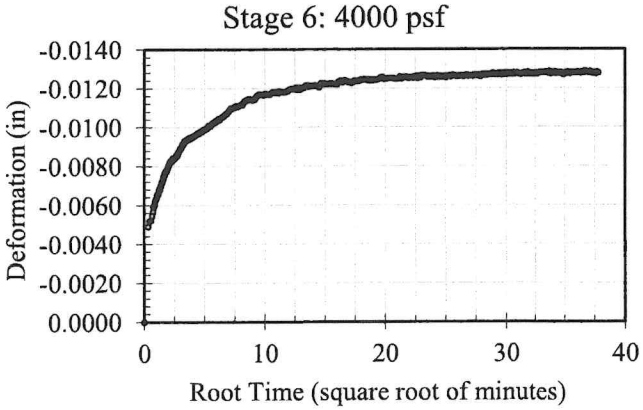










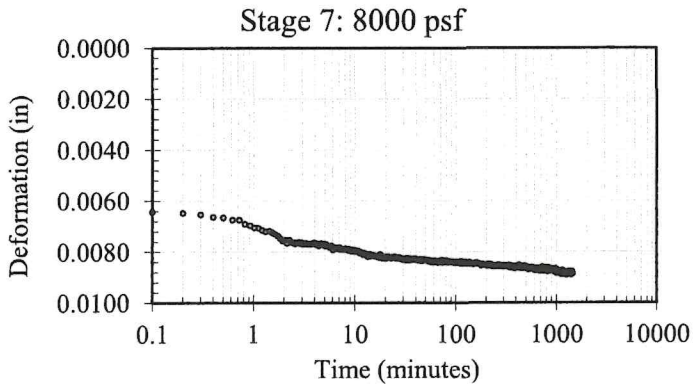


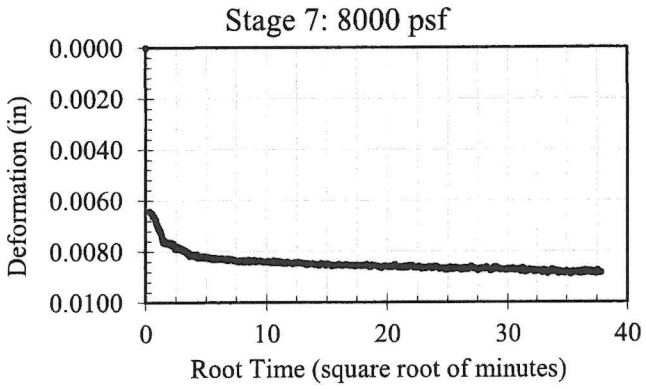
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

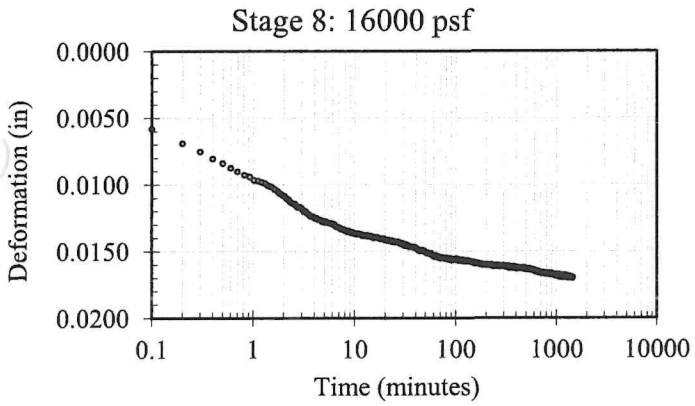
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

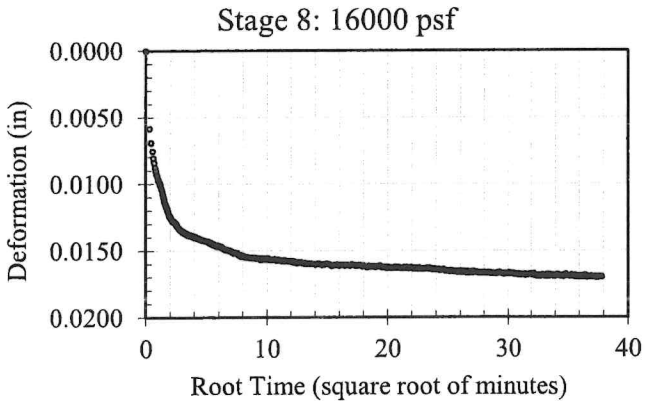
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-7 U-12 (22-24)

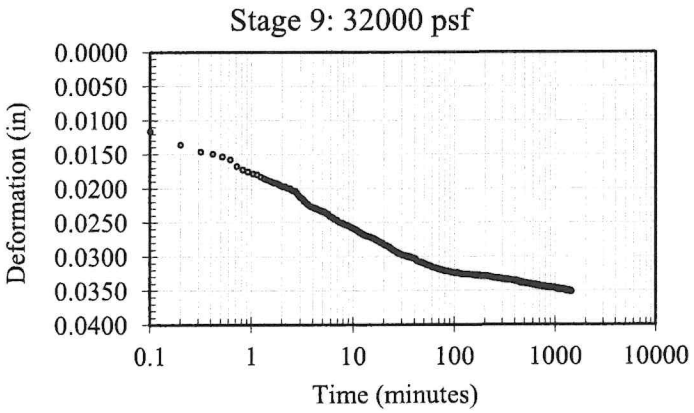
TRI Log No.: 24-000170-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

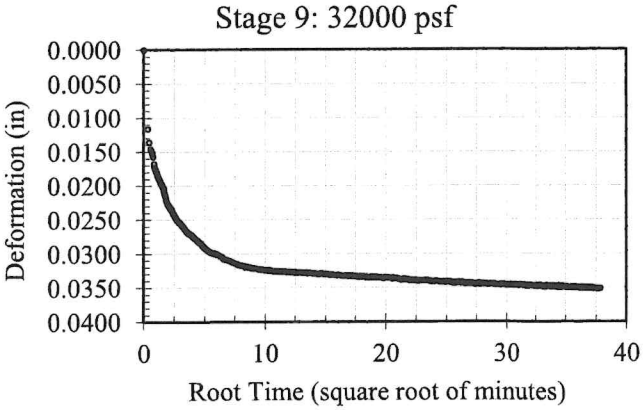










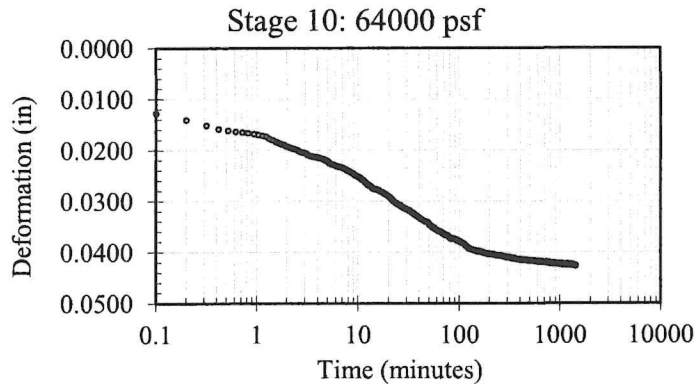


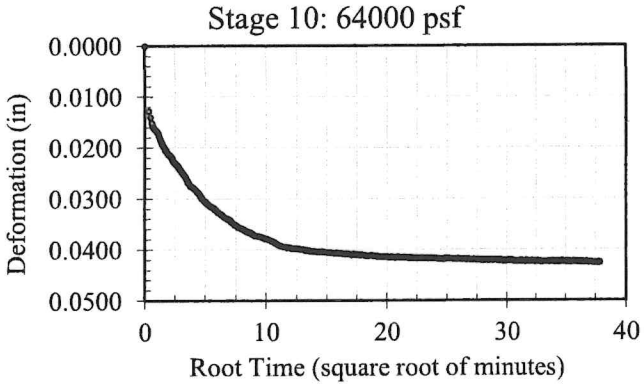
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

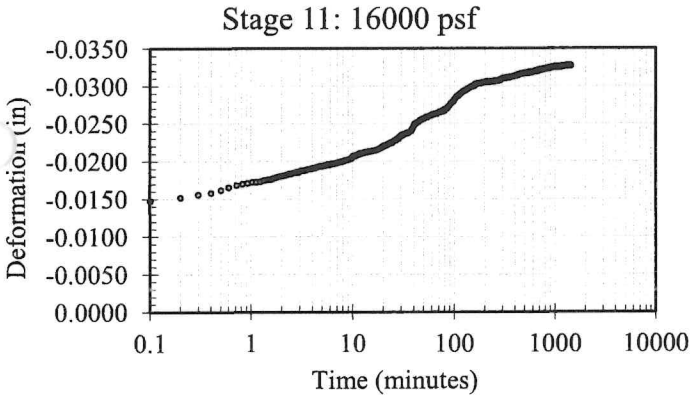
One-Dimensional Consolidation Properties of Soil (ASTM D2435)

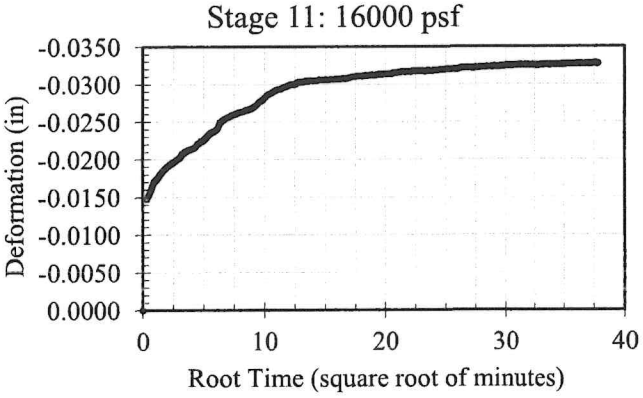
Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-7 U-12 (22-24)

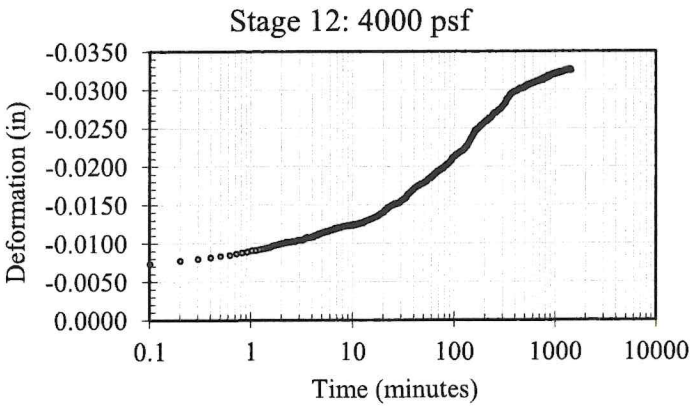
TRI Log No.: 24-000170-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date

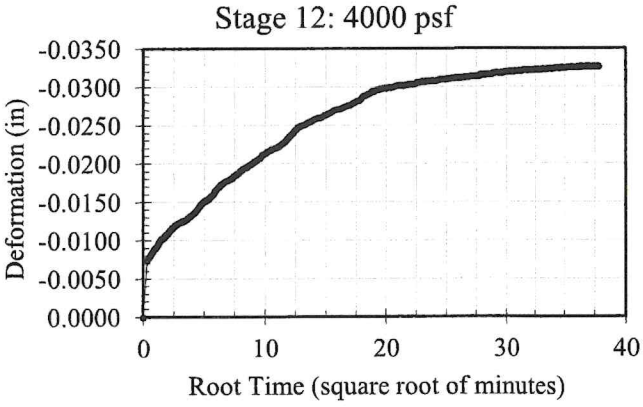










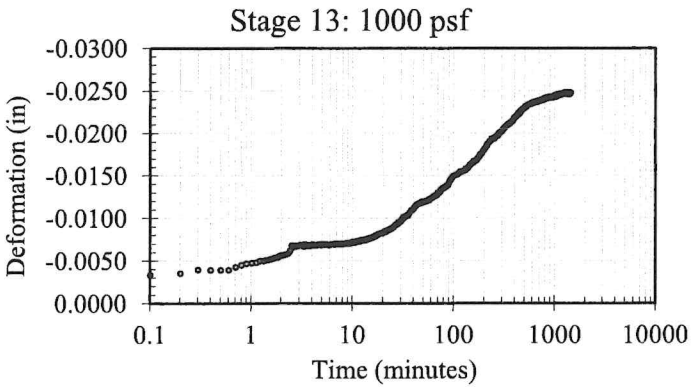


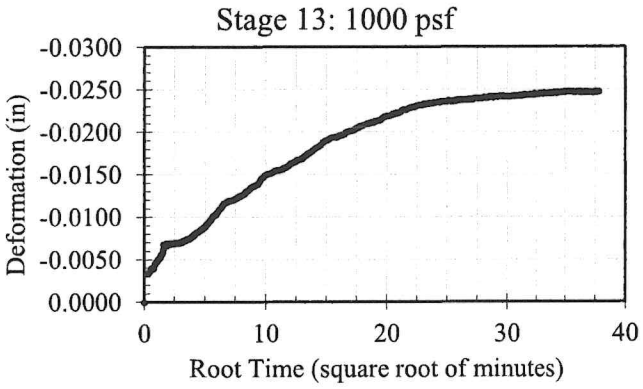
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

One-Dimensional Consolidation Properties of Soil (ASTM D2435)

Client: Biggs & Mathews Environmental, Inc.
Project: 101.01.140 Skyline Landfill Expansion
Specimen: BME-7 U-12 (22-24)

TRI Log No.: 24-000170-03
Jeffrey A. Kuhn, Ph.D., P.E., 2/13/2024
Quality Review/Date





The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.