Matlock Bend Landfill 21712 Highway 72 North Loudon, Tennessee 37774 O: 865.458.2651, republicservices.com

April 29, 2024

Mr. Nick Lytle Division of Solid Waste Management William R. Snodgrass Tennessee Tower 312 Rosa L Parks Avenue, 14th Floor Nashville, TN 37243

Re: Matlock Bend Landfill – Annual Engineering Report

Loudon County, Tennessee Facility Permit No. TNR051889

Dear Mr. Lytle:

Enclosed, please find the Annual Engineering Report (AER) for Matlock Bend Landfill.

Please note that the Remaining Constructed Capacity (Section C.6.) and the Remaining Permitted Capacity (Section C.8) reported is based on the total available fill volumes calculated. Remaining Constructed Life (Section C.10.) and Remaining Permitted Life (Section C.12.) is calculated by reducing the volumes reported in Section C.6. and Section C.8. by the Volume of Fill Above Permitted Waste Grades (Section C.13.). Along with the reduced volumes, an anticipated tonnage of 640 tons per operational day and the Airspace Utilization Rate / Waste Density (Section C.7.) of 1,283 lbs/cy were utilized to calculate the remaining permitted and constructed years of life for the landfill.

Should you require additional information or have any questions or comments, please contact me via email at Hvankirk@republicservices.com or by phone at (615) 956-9277.

Sincerely,

Holly Van Kirk

Holly Van Kirk Environmental Manager Republic Services

cc: Operating Record (Hard Copy and Electronic)

Robert Heller, HHNT (Electronic)



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT
WILLIAM R. SNODGRASS TENNESSEE TOWER
312 ROSA L. PARKS AVENUE, 14TH FLOOR
NASHVILLE, TN 37243

AER REPORT YEAR

2023 CLASS I DISPOSAL FACILITY ANNUAL ENGINEERING REPORT (AER) TO AVOID DELAYS, COMPLETE ALL SECTIONS OF THE APPLICATION. INCLUDE ALL SUPPORTING DOCUMENTATION. A. DISPOSAL FACILITY FACILITY NAME PERMIT NUMBER Matlock Bend Loudon County Landfill SNL 53-0203 CITY PHONE MAILING ADDRESS STATE ZIP FAX 21712 Highway 72 North **37774** (865) 458-2651 (865) 458-5377 Loudon TECHNICAL CONTACT NAME PHONE FAX **EMAIL** Hollv Van Kirk (615) 956-9277 HVankirk@republicservices.com **B. TOPOGRAPHIC SURVEY INFORMATION** RULE 0400-11-01-.04(2)(t)1 REQUIRES ALL OPERATORS OF CLASS I DISPOSAL FACILITIES WITHIN THE STATE OF TENNESSEE TO FILE AN ANNUAL ENGINEERING REPORT WITH THE DEPARTMENT BY MAY 1st OF EVERY YEAR. A CURRENT TOPOGRAPHIC SURVEY OF THE ACTIVE PORTION OF THE DISPOSAL FACILITY (SAME SCALE AS APPROVED PERMIT PLANS) MUST BE PERFORMED BY A QUALIFIED LAND SURVEYOR DULY AUTHORIZED UNDER TENNESSEE LAW TO CONDUCT SUCH ACTIVITIES AND SHOULD BE SUPERIMPOSED ON THE APPROVED FINAL CONTOURS WITH A DELINEATION SHOWING CURRENT CONTOURS. SUBMIT THIS DRAWING ELEC-TRONICALLY AS A PDF CREATED DIRECTLY FROM A CAD PROGRAM AND EMAILED TO THE ENVIRONMENTAL FIELD OFFICE MANAGER. 2. DATE OF CURRENT AER SURVEY 3. WASTE RECEIVED BETWEEN 4. CAPACITY CONSUMED 1. DATE OF PREVIOUS AER SURVEY **SURVEY DATES (TON)** BETWEEN SURVEY DATES (CU. YD 19/15/2022 19/19/9093 117 626 **ว**วก 162

12/13/2022	12/12/2023	)	147,020	230,162	
C. FACILITY INFORMATION					
1. PERMITTED LANDFILL FOOTPRINT (ACRES)			2. PERMITTED DESIGN CAPACITY (CUBIC YARDS)		
40.70		4,748,110			
3. CONSTRUCTED LANDFILL FOOTPRINT (ACRES)			4. TOTAL CONSUMED CAPACITY (CUBIC YARDS)		
40.5	53		4,372	,597	
5. WASTE ACCEPTED IN PREVIOUS CA	LENDAR YEAR (TONS)	<b>6.</b> REM	MAINING CONSTRUCTED CAPACITY	(CUBIC YARDS)	
148,7	57		291,5	591	
7. AIRSPACE UTILIZATION RATE/WAST	E DENSITY (LBS/CUB <b>I</b> C YARDS)	<b>8.</b> REM	MAINING PERMITTED CAPACITY (CU	JBIC YARDS)	
128	3		375,5	513	
9. OPERATIONAL DAYS IN PREVIOUS	CALENDAR YEAR (DAYS)	<b>10.</b> RE	MAINING CONSTRUCTED LIFE (YE	ARS)	
286	6		0.7	7	
11. TOTAL WASTE IN PLACE (TONS)		<b>12.</b> RE	MAINING PERMITTED LIFE (YEARS)		
INFORMATION NOT AVAILABLE		1.0			

**13.** VOLUME OF FILL ABOVE PERMITTED WASTE GRADES (CUBIC YARDS)

86,129

FD032620

			GALLONS		
MONTH	A TOTAL COLLECTED	B ON-SITE DISPOSAL	C OFF-SITE DISPOSAL	<b>D</b> RECIRCULATED	<b>E</b> OTHER
ANUARY	657,349		657,349		
EBRUARY	1,558,590		1,558,590		
ИARCH	1,323,925		1,323,925		
PRIL	548,532		548,532		
ЛАY	470,681		470,681		
JNE	117,948		117,948		
ULY	610,790		610,790		
AUGUST	614,117		614,117		
SEPTEMBER	324,420		324,420		
OCTOBER	314,890		314,890		
IOVEMBER	311,671		311,671		
	4 407 007		4 407 007		
DECEMBER	1,187,887		1,187,887		
TOTALS	8,040,800	0	8,040,800	0	0
TOTALS	· · · · · ·	В		O D	0 <b>E</b>
TOTALS  DESCRIBE O	8,040,800  A THER LEACHATE MANAGE	B  MENT METHODS HERE:  ATMENT FACILITIES WITH	8,040,800 C	D	E
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DESCRIBE O	8,040,800  A THER LEACHATE MANAGE F-SITE DISPOSAL AND TREA tilities Wastewater TE MANAGEMENT	B  MENT METHODS HERE:  ATMENT FACILITIES WITH  Treatment Plant (	8,040,800 C	<b>D</b> CHATE SENT TO EACH FAC	E  CILITY: 3. TRANSPORT ME  PUMP & HAUL  DIRECT DISCH
DESCRIBE O	8,040,800  A THER LEACHATE MANAGE  F-SITE DISPOSAL AND TREA  tilities Wastewater  TE MANAGEMENT  CILITY UTILIZES SUMP PUN	B  MENT METHODS HERE:  ATMENT FACILITIES WITH  Treatment Plant (	8,040,800  C  THE AMOUNT (GAL) OF LEA  (8,040,800 gal)  E TO TANKS OR OTHER MA	<b>D</b> CHATE SENT TO EACH FAC	E  CILITY: 3. TRANSPORT ME  PUMP & HAUL  DIRECT DISCH
DESCRIBE OF OUT	8,040,800  A THER LEACHATE MANAGE  F-SITE DISPOSAL AND TREA  tilities Wastewater  TE MANAGEMENT  CILITY UTILIZES SUMP PUN  1 NUMBER OF P	B  MENT METHODS HERE:  ATMENT FACILITIES WITH  Treatment Plant (  MPS TO CONVEY LEACHAT  UMPED SUMPS EMPLOYE	8,040,800  C  THE AMOUNT (GAL) OF LEA  (8,040,800 gal)  E TO TANKS OR OTHER MA	D  CHATE SENT TO EACH FAC	E  CILITY: 3. TRANSPORT ME PUMP & HAUL IN DIRECT DISCH
TOTALS  DESCRIBE O  LIST ALL OFF  OUDON U  LEACHA  FA	8,040,800  A THER LEACHATE MANAGE  F-SITE DISPOSAL AND TREA  tilities Wastewater  TE MANAGEMENT  CILITY UTILIZES SUMP PUN  1 NUMBER OF P	B  MENT METHODS HERE:  ATMENT FACILITIES WITH  Treatment Plant (  MPS TO CONVEY LEACHAT  UMPED SUMPS EMPLOYE	8,040,800  C  THE AMOUNT (GAL) OF LEAGE (8,040,800 gal)  E TO TANKS OR OTHER MAD AT THIS FACILITY  IATE TO TANKS OR OTHER I	D  CHATE SENT TO EACH FAC	E  CILITY: 3. TRANSPORT MI PUMP & HAUI I DIRECT DISCH
TOTALS  DESCRIBE OF COUDON U  LEACHA  a  FA'  a	8,040,800  A THER LEACHATE MANAGE  F-SITE DISPOSAL AND TREA  tilities Wastewater  TE MANAGEMENT  CILITY UTILIZES SUMP PUN  1 NUMBER OF P  CILITY UTILIZES GRAVITY D  2 NUMBER OF G	B  MENT METHODS HERE:  ATMENT FACILITIES WITH  Treatment Plant (  MPS TO CONVEY LEACHAT  UMPED SUMPS EMPLOYE  PRAINS TO CONVEY LEACH  BRAVITY SUMPS EMPLOYE	8,040,800  C  THE AMOUNT (GAL) OF LEAGE (8,040,800 gal)  E TO TANKS OR OTHER MAD AT THIS FACILITY  IATE TO TANKS OR OTHER I	D  CHATE SENT TO EACH FACT  NAGEMENT COMPONENTS  MANAGEMENT COMPONE	E  CILITY: 3. TRANSPORT MI PUMP & HAUI I DIRECT DISCH
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TOTALS  DESCRIBE OF THE PROPERTY OF THE PROPER	8,040,800  A THER LEACHATE MANAGE  F-SITE DISPOSAL AND TREA  tilities Wastewater  TE MANAGEMENT  CILITY UTILIZES SUMP PUN  1 NUMBER OF P  CILITY UTILIZES GRAVITY D  2 NUMBER OF G  ANY LEACHATE MANAGEN	B  MENT METHODS HERE:  ATMENT FACILITIES WITH  Treatment Plant (  MPS TO CONVEY LEACHAT  UMPED SUMPS EMPLOYE  PRAINS TO CONVEY LEACH  GRAVITY SUMPS EMPLOYE  MENT SYSTEM CLEANING F  T backup only since	8,040,800  C  THE AMOUNT (GAL) OF LEAGE (8,040,800 gal)  E TO TANKS OR OTHER MAD AT THIS FACILITY  DAT THIS FACILITY  PERFORMED IN THE PREVIOUS	D  CHATE SENT TO EACH FACTOR SENT TO EACH FACTOR SENT TO EACH FACTOR SENT TO EACH FACTOR SENTENCE SENT	E  CILITY: 3. TRANSPORT M  PUMP & HAU  DIRECT DISCH  S.

#### F. SPECIAL WASTE

INCLUDE TYPES AND AMOUNTS OF SPECIAL WASTES DISPOSED RELATIVE TO NORMAL SOLID WASTE DISPOSED OF SINCE LAST AER. TYPES OF SPECIAL WASTE INCLUDE, BUT IS NOT LIMITED TO, SLUDGES, SOILS, COMBUSTION WASTES, COMMERCIAL CHEMICAL PRODUCTS OR MANUFACTURING CHEMICAL INTERMEDIATES. **DO NOT** LIST INDIVIDUAL WASTE GENERATORS. ATTACH ADDITIONAL SHEETS IF NECESSARY.

	A. SPECIAL WASTE CATEGORY	B. ANNUAL TONS OF THIS TYPE	C. TOTAL WASTE PERCENT	
1.	Off-Spec Material	12664.06	8.51%	
2.	Tire-Shred/Quart/Pcs	7312.4	4.92%	
3.	Sludge	6619.03	4.45%	
4.	Sludge-WWTP-Industrial	1692.25	1.14%	
5.	Sludge-WWTP-Municipal	829.63	0.56%	
6.	Industrial	596.06	0.40%	
7.	Asbestos-Non Friable	395.28	0.27%	
8.	Dead Animals	183.55	0.12%	
9.	Filter Cake	166.00	0.11%	
10.	Contaminated Soil	146.52	0.10%	

#### G. SEND COMPLETED REPORT TO:

STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT
WILLIAM R. SNODGRASS TENNESSEE TOWER
312 ROSA L. PARKS AVENUE, 14TH FLOOR
NASHVILLE, TN 37243

ELECTRONIC VERSIONS OF THIS REPORT SHOULD BE EMAILED TO THE APPROPRIATE ENVIRONMENTAL FIELD OFFICE MANAGER.

### H. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

	Holly Van Kirk HOUSTGNATURE OF AUTHORIZED REPRESE	NTATIVE OF D	DISPOSAL FACILITY DATE		
	Holly Van Kirk		Environmental Manager		
	PRINTED NAME			TITLE	
TDEC USE	REVIEWER'S SIGNATURE	NOTES			

1 212 Battle Front Trail • Knoxville, TN 37934 Phone: 865.548.2385 • www.pinnaclelandsurvey.com

April 29, 2024

Mr. Ryan Willoughby, P.E. Hodges, Harbin, Newberry & Tribble, Inc. 12 E Grady Street, Suite B Statesboro, GA 30458

RE: Flight Control - Matlock Bend Landfill, Loudon, TN

Dear Mr. Willoughby,

In May of 2015, Pinnacle Land Surveying (PLS) was provided certain established site control points with State Plane horizontal and vertical data. PLS then established additional control along with painting and placing aerial targets for annual aerial surveying needs.

The Site Survey Control Points shown on the FIRMATEK CAD file dated December 12, 2023 are control points provided by PLS and based on the original data supplied to PLS.

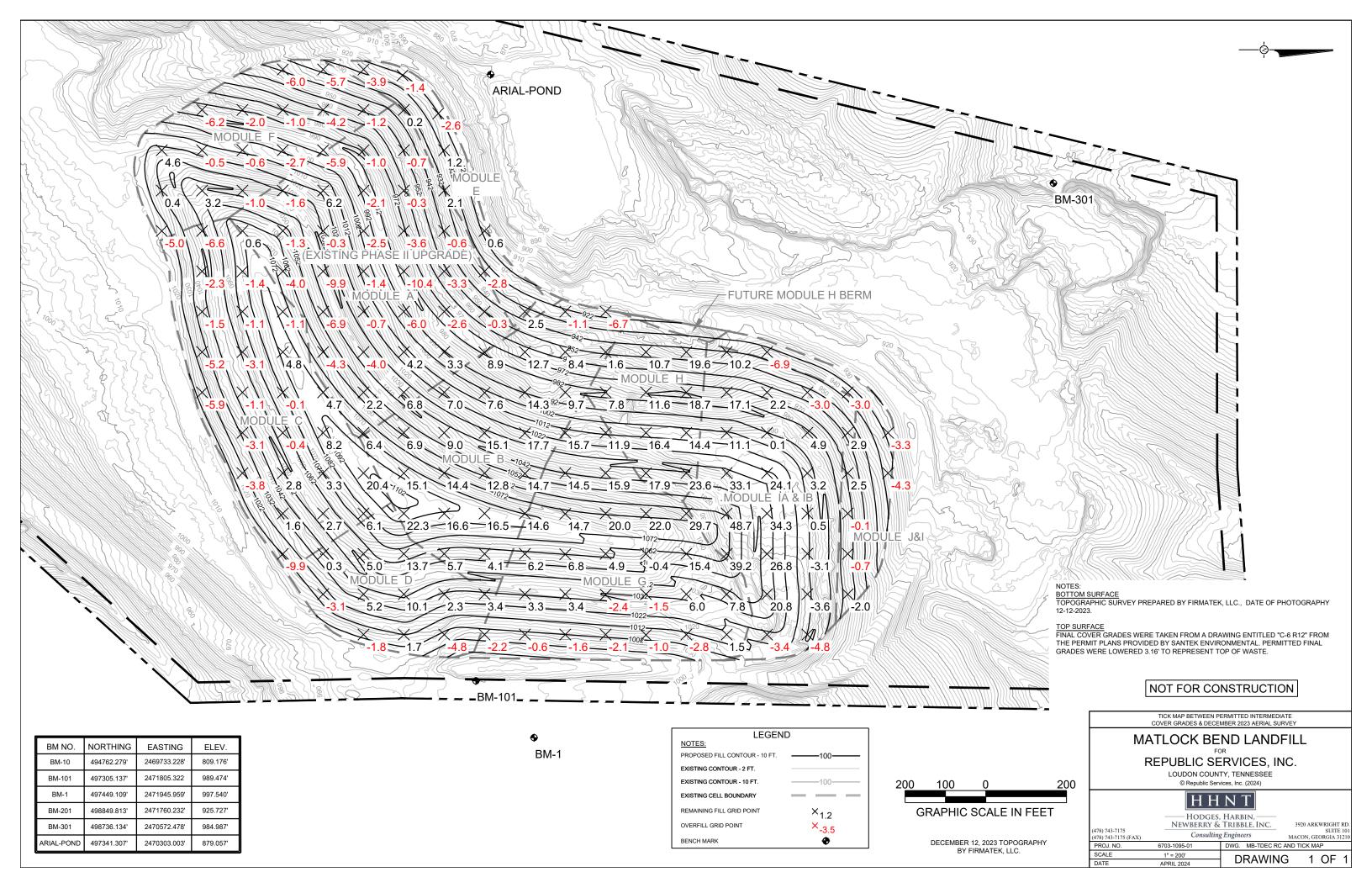
Please let me know if you need anything further.

Respectfully,

PINNACLE LAND SURVEYING, Inc.

Dean M. Gerchar, RLS

President



# Lytle - Matlock Bend Landfill - Annual Engineering Report

Final Audit Report 2024-04-30

Created: 2024-04-30

By: Avery Rogers (arogers@hhnt.com)

Status: Signed

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## "Lytle - Matlock Bend Landfill - Annual Engineering Report" History

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