



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE
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Jerome A. Brooks
Regional Director

November 9, 2023

Mr. Jerry Cifor
President
Green Ridge Recycling and Disposal LLC
12230 Deergrove Road
Midlothian, Virginia 23112

**Subject: Green Ridge Recycling and Disposal Facility, LLC
Notice of Intent and Part A Permit Application – Conditional Approval**

Dear Mr. Cifor:

The Virginia Department of Environmental Quality (DEQ) Piedmont Regional Office (PRO) has received a Notice of Intent (NOI) and Part A permit application for the Green Ridge Recycling and Disposal Facility, LLC, dated January 17, 2020 and received on January 22, 2020. Additional information was received by the Department April 16, 2020 and October 28, 2020 regarding Disclosure Statements, January 08, 2021 regarding the Demonstration of Need, and February 16, 2021 regarding Public Water Supplies. The NOI and Part A permit application, and supplemental information, was prepared by Draper Aden Associates, LLC, on behalf of the Green Ridge Recycling and Disposal Facility, LLC.

The NOI and Part A permit application were reviewed for administrative completeness in accordance with § 9 VAC 20-81-450.A, B, and C, § 9 VAC 20-81-460, and § 9 VAC 20-81-120 of the Virginia Solid Waste Management Regulations (VSWMR, 9 VAC 20-81-10, *et seq.*) and found to be ***administratively complete*** in a Final Completeness Review letter dated December 11, 2020.

The application was subsequently reviewed for technical adequacy and regulatory compliance and found to be ***technically inadequate*** in the Department's first technical review, dated April 08, 2021. The facility submitted a "Response to Technical Review 1," with 16 Attachments, dated October 01, 2021, and submitted a "Supplement to Response TR-1," with 7 Attachments, dated April 13, 2022, prepared by Draper Aden Associates and Schnabel Engineering, P.C. The application was subsequently reviewed for technical adequacy and regulatory compliance and found to be ***technically inadequate*** in the Department's second technical review, dated June 16, 2022, and in the Department's addendum to the second technical review, dated October 25, 2022.

The facility submitted a draft response to the Department's second technical review, and based upon the Department's review comments, submitted a revised and updated full NOI and Part A permit application, dated August 3, 2023, and prepared by TRC Companies, LLC (formerly Draper Aden Associates), which incorporates responses to all of the Department's review comments. The revised NOI and Part A permit application propose a facility boundary, waste management boundary, and initial disposal unit boundary for the Green Ridge Recycling & Disposal Facility.

In accordance with § 9VAC20-81-450.A, B, and C, § 9VAC20-81-460, and § 9VAC20-81-120 of the Virginia Solid Waste Management Regulations (VSWMR, 9 VAC 20-81-10 *et seq.*), the NOI and Part A application have been reviewed for ***administrative completeness, technical adequacy and regulatory compliance***.

Pursuant to § 9 VAC 20-81-450.C.3 of the VSWMR, DEQ is providing conditional approval of the Part A application. The following information is needed to complete the site suitability determination for the proposed waste management boundary as required by 9VAC20-81-450.C.:

- A. Prior to any development of disposal areas or leachate collection and storage systems beyond the defined initial disposal unit boundary ***and*** within the proposed Waste Management Boundary, the facility must demonstrate the layout and locations are in compliance with the site suitability provisions of 9 VAC 20-81-120.C.1.b. (perennial streams), 9 VAC 20-81-120.E. (wetlands), and 9 VAC 20-81-120.F.1.c. (springs, seeps, groundwater intrusion). This may require the facility to submit a new JPA, and obtain any necessary wetland permits.
- B. Prior to development of disposal areas or leachate collection and storage systems beyond the initial disposal area, the facility shall coordinate with the Virginia Department of Historic Resources regarding any proposed impacts to the two sites identified as 44CM0145 and 44CM0139, and perform a Phase II investigation and mitigation, as necessary.

While this letter provides a conditional Part A approval, the applicant may submit the Part B application provided the following parameters are adhered to in the submission:

- 1. The facility boundary (1,177.63 acres), waste management boundary (approximately 428.0 acres), and the initial disposal unit boundary (approximately 104 acres) are limited to those areas identified as the ***“Property Boundary / Facility Boundary,” “Waste Management Boundary,” and “Initial Disposal Unit Area,”*** respectively, on the maps entitled “Near Vicinity Map,” Part A Attachment IX, Figures 2A, 2B, 2C, and 2D, stamped, signed and dated August 3, 2023.
- 2. An approved copy of this NOI and Part A permit application for the Green Ridge Recycling and Disposal Facility, Permit No. 626, must be maintained at the site office. This Part A conditional approval letter and attached Near Vicinity Maps dated August 3, 2023, shall be included with the Part B permit application as Attachment 1 to the Design Report. The Part

B permit application must discuss how the parameters described in this Part A conditional approval letter have been met.

3. During the Part B design, the disposal cells layout and location must be within the waste management boundary that has been delineated as “*Initial Disposal Unit Area*” in the Near Vicinity Map (Figures 2A, 2B, 2C, and 2D) of the Part A application. The total disposal capacity of the facility considering the maximum build-out, must be equal to or less than 54,000,000 cubic yards.
4. The daily maximum disposal limit is 1,500 tons per day. This figure is subject to change (decreasing tonnage only) during the Part B permit application process depending on the planning and permitting for the equipment and other design or operational needs of the facility. Future increases in the daily disposal limit will be handled as a Part B major permit modification and will require submission of a new VDOT approval and adequacy report. Revision of the daily disposal limit may potentially require a revision to the local solid waste management plan (SWMP).
5. The recommendations in the VDOT approval letter dated June 7, 2023, shall be followed in the Part B design of the landfill. This includes installation of a westbound right turn taper on Route 60 at the intersection of Route 654 and widening Route 654 to twenty-two feet (22’) between the site entrance and Route 60. Any proposed changes to the entrance of the landfill or other design changes that impact Virginia primary and/or secondary highways will require separate VDOT review and approval.
6. Disposal units that are within 500 feet from the nearest edge of the right-of-way of any highway or street shall be screened by natural objects, plantings, fences, or other means so as to minimize the visibility from the main traveled way of the highway or street.
7. The maximum height/elevation of the landfill final cover system shall not exceed 690 ft above mean sea level (AMSL). The lowest elevation of the base grade is 287.47 ft AMSL.
8. All containment structures, including liners, leachate collection systems, and surface water control systems, shall be designed to resist the maximum horizontal ground acceleration, with a 10% or greater probability of occurring in 250 years, for this site. The value was estimated to be 0.223g in the seismic analysis submitted with the Part A application. The Part B design analysis must be performed using the maximum horizontal acceleration of 0.223g or greater.
9. Prior to construction, any piezometers or monitoring wells located within proposed disposal areas shall be completely removed or over-drilled, followed by grouting to the ground surface.
10. The final NOI and Part A permit application indicate that no wetlands or perennial streams will be impacted by development of the initial disposal unit area. The applicant received concurrence from the ACOE on June 13, 2023, for the supplemental Preliminary Jurisdictional Determination (PJD) of wetlands at the site. The applicant has withdrawn the

Joint Permit Application (JPA) submitted to the USACOE and the DEQ-VWP, by letter dated July 12, 2023.

11. The applicant has completed a Phase I historic resources investigation for the entire site. Based upon the findings of the Phase I investigation, the applicant completed a Phase II investigation of the two sites within the initial disposal area (sites 44CM0138 and 44CM0136). Except as described in condition B above, historic sites within the facility property boundary that are located beyond the initial disposal area shall be marked, protected, and left undisturbed during the development of the facility.

Please contact Mr. Dean E. Starook at (804) 712-9102 or by e-mail at dean.starook@deq.virginia.gov if there are any questions regarding the Part A Notice of Intent and permit application review and approval.

Sincerely,



Shawn Weimer
Regional Land Protection Manager

Attachment: Near Vicinity Map, Figures 2A, 2B, 2C, 2D, dated August 3, 2023

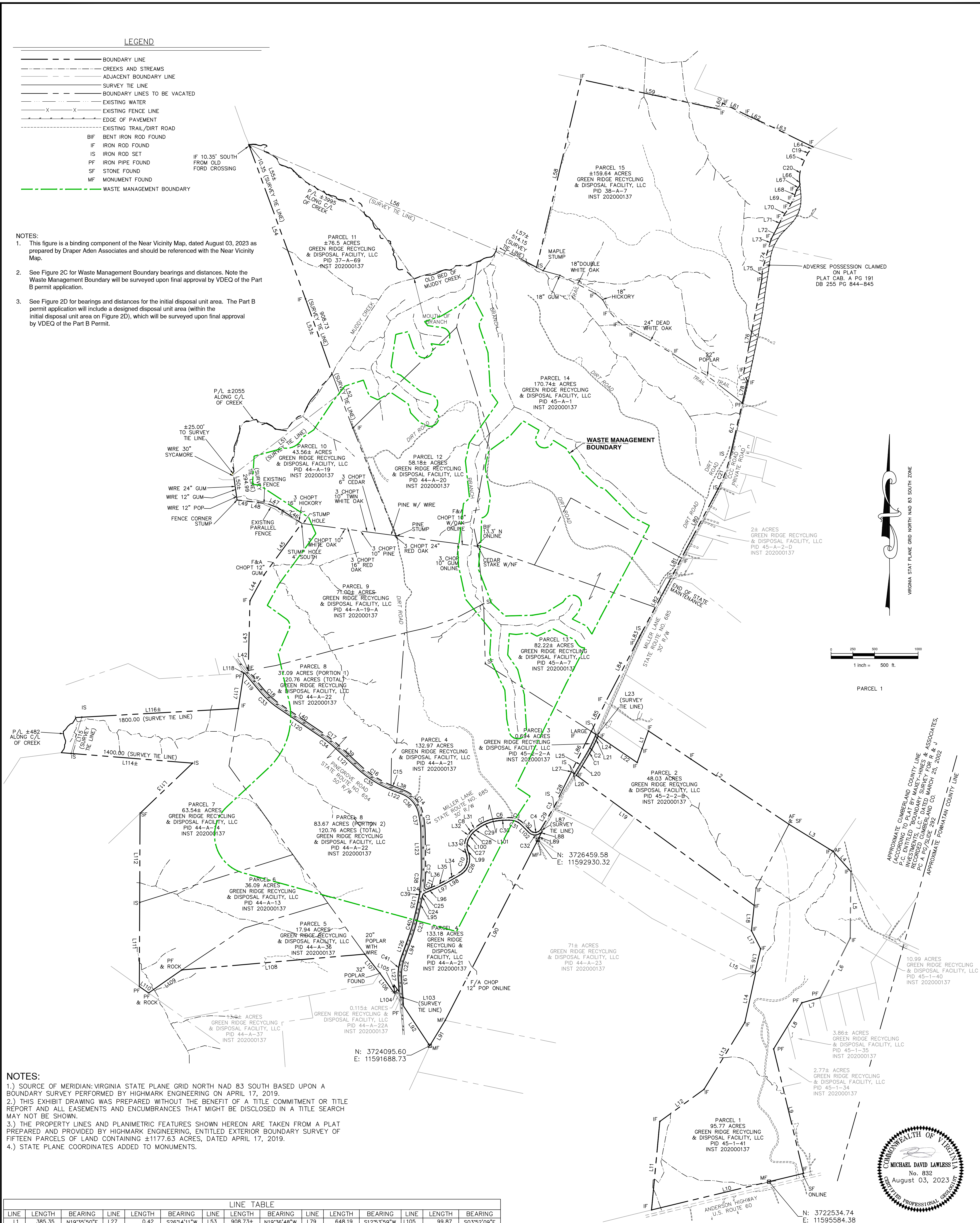
c: Derek Stamey, Cumberland County Administrator
Michael D. Lawless, P.G., C.P.G., TRC Companies, Inc.
Geoff Christe, DEQ-PRO
JengHwa Lyang, DEQ-VRO
Dean Starook, DEQ-PRO

LEGEND

---	BOUNDARY LINE
---	CREEKS AND STREAMS
---	ADJACENT BOUNDARY LINE
---	SURVEY TIE LINE
---	BOUNDARY LINES TO BE VACATED
---	EXISTING WATER
---	EXISTING FENCE LINE
---	EDGE OF PAVEMENT
---	EXISTING TRAIL/DIRT ROAD
BIF	BENT IRON ROD FOUND
IF	IRON ROD FOUND
IS	IRON ROD SET
PF	IRON PIPE FOUND
SF	STONE FOUND
MF	MONUMENT FOUND
---	WASTE MANAGEMENT BOUNDARY

NOTES:

- This figure is a binding component of the Near Vicinity Map, dated August 03, 2023 as prepared by Draper Aden Associates and should be referenced with the Near Vicinity Map.
- See Figure 2C for Waste Management Boundary bearings and distances. Note the Waste Management Boundary will be surveyed upon final approval by VDEQ of the Part B permit application.
- See Figure 2D for bearings and distances for the initial disposal unit area. The Part B permit application will include a designed disposal unit area (within the initial disposal unit area on Figure 2D), which will be surveyed upon final approval by VDEQ of the Part B Permit.



NOTES:

- SOURCE OF MERIDIAN: VIRGINIA STATE PLANE GRID NORTH NAD 83 SOUTH BASED UPON A BOUNDARY SURVEY PERFORMED BY HIGHMARK ENGINEERING ON APRIL 17, 2019.
- THIS EXHIBIT DRAWING WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR TITLE REPORT AND ALL EASEMENTS AND ENCUMBRANCES THAT MIGHT BE DISCLOSED IN A TITLE SEARCH MAY NOT BE SHOWN.
- THE PROPERTY LINES AND PLANIMETRIC FEATURES SHOWN HEREON ARE TAKEN FROM A PLAT PREPARED AND PROVIDED BY HIGHMARK ENGINEERING, ENTITLED EXTERIOR BOUNDARY SURVEY OF FIFTEEN PARCELS OF LAND CONTAINING ±1177.63 ACRES, DATED APRIL 17, 2019.
- STATE PLANE COORDINATES ADDED TO MONUMENTS.

LINE TABLE											
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING	LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L1	385.35	N19°35'50"E	L27	0.42	S26°14'11"W	L53	908.73±	N19°36'48"W	L79	648.19	S12°53'59"W
L2	1937.45	S56°25'26"E	L28	454.32	S26°14'11"W	L54	1876.11	N20°10'30"W	L80	898.91	S27°58'06"W
L3	595.36	S58°25'22"E	L29	285.93	S31°04'56"W	L55	10.35±	N20°10'30"W	L81	195.23	S27°31'32"W
L4	309.62	S41°12'28"E	L30	118.38	N44°23'36"W	L56	3592.70	S68°54'50"E	L82	814.25	S28°12'54"W
L5	763.34	S00°37'00"W	L31	44.69	S31°36'34"W	L57	514.15±	S62°08'21"E	L83	22.45	S24°08'33"W
L6	764.88	S26°44'27"W	L32	33.57	S32°46'24"W	L58	2216.24	N13°18'24"E	L84	840.56	S27°28'44"W
L7	218.55	S74°30'35"W	L33	28.80	S18°40'58"E	L59	1636.78	S77°51'06"E	L85	369.46	S25°58'56"W
L8	620.87	S31°27'47"W	L34	194.33	S60°03'44"W	L60	75.92	N19°53'40"E	L86	516.17	S26°14'11"W
L9	1469.41	S13°30'22"E	L35	125.08	S63°25'14"W	L61	316.13	S63°46'30"E	L87	32.28	S33°09'57"E
L10	1795.34	S76°29'02"W	L36	90.36	S66°42'28"W	L62	220.64	S65°33'39"E	L88	37.80	S31°15'29"W
L11	1019.98	N05°22'07"E	L37	393.10	N00°42'17"W	L63	620.40	S63°58'26"E	L89	70.18	S26°14'11"W
L12	626.60	N54°01'07"E	L38	109.87	N69°04'52"W	L64	56.53	S44°35'18"W	L90	2331.37	S27°11'10"W
L13	900.50	N31°25'07"E	L39	345.57	N47°09'43"W	L65	128.14	S23°56'23"W	L91	339.87	S31°18'50"W
L14	562.26	N12°19'07"E	L40	612.99	N55°59'35"W	L66	58.71	S03°32'52"E	L92	546.44	N33°34'50"W
L15	35.97	N00°23'36"W	L41	261.09	N39°29'21"W	L67	68.38	S34°04'11"W	L93	315.65	N03°52'09"W
L16	268.49	N13°03'26"E	L42	0.94	N76°37'24"E	L68	113.65	S18°15'28"W	L94	211.29	N20°02'45"E
L17	231.47	N27°01'16"W	L43	801.08	N01°20'33"E	L69	120.70	S28°59'33"W	L95	146.08	N12°05'16"E
L18	292.39	N06°16'38"E	L44	339.57	N28°33'06"E	L70	135.59	S34°09'02"W	L96	147.34	N66°42'28"E
L19	2529.31	N53°49'23"W	L45	732.15	N36°12'46"E	L71	116.17	S25°43'40"W	L97	126.82	N63°25'14"E
L20	254.60	N31°15'29"E	L46	328.56	N56°48'05"W	L72	149.26	S28°06'03"W	L98	195.21	N60°03'44"E
L21	59.56	N23°55'11"E	L47	123.75	N68°48'05"W	L73	81.90	S16°03'34"W	L99	28.80	S18°40'58"W
L22	541.07	S55°51'56"E	L48	292.88	N82°48'05"W	L74	281.89	S16°02'26"W	L100	33.57	N32°46'24"E
L23	30.60	N54°45'31"W	L49	61.98	N84°25'32"W	L75	117.47	S03°40'51"W	L101	44.69	N51°36'34"E
L24	65.57	S23°55'09"W	L50	319.99±	N07°58'08"W	L76	1099.43	S10°57'50"W	L102	118.38	S44°23'36"E
L25	252.02	S31°15'29"W	L51	1532.15	N52°45'23"E	L77	88.55	S28°53'50"E	L103	172.36	N17°17'19"W
L26	40.29	N53°49'23"W	L52	250.00	N20°48'05"W	L78	263.11	S12°42'38"W	L104	100.00	N35°51'08"W

CURVE TABLE											
CURVE	LENGTH	RADIUS	DELTA	CHD DIRECTION	CHORD	CURVE	LENGTH	RADIUS	DELTA	CHD DIRECTION	CHORD
C1	201.65	1574.41	7°20'18"	N27°35'20"E	201.51	C22	239.48	573.74	23°54'54"	S08°05'18"W	237.74
C2	197.80	1544.41	7°20'17"	N27°35'20"E	197.66	C23	355.84	2562.00	7°57'29"	N16°04'01"E	355.56
C3	7.53	89.00	4°50'45"	N28°39'34"E	7.52	C24	43.81	1612.00	1°33'25"	N11°18'34"E	43.80
C4	139.32	76.37	104°31'27"	N83°20'40"E	120.79	C25	24.51	25.00	56°10'37"	S38°37'09"W	23.54
C5	152.00	204.98	42°28'06"	N65°38'04"W	148.54	C26	288.62	210.00	78°44'43"	N20°41'23"E	286.43
C6	202.37	830.00	13°58'11"	S88°11'02"W	201.87	C27	157.16	175.00	51°27'22"	S07°02'43"W	151.94
C7	231.13	480.00	27°35'23"	S65°24'15"W	228.91	C28	54.24	165.00	18°50'10"	S42°11'29"W	54.00
C8	64.11	195.00	18°50'10"	S42°11'29"W	63.82	C29	216.69	450.00	27°35'23"	S65°24'15"W	214.60
C9	184.11	205.00	51°27'22"	S07°02'43"W	177.98	C30	195.05	800.00	13°58'11"	S88°11'02"W	194.57
C10	247.39	180.00	78°44'43"	N20°41'23"E	228.37	C31	129.78	175.01	42°28'08"	N65°38'18"W	126.82
C11	52.54	25.00	120°24'43"	S53°05'11"E	43.39	C32	179.99	106.37	96°56'54"	N87°07'56"E	159.27
C12	220.82	1617.00	7°49'28"	N03°12'27"E	220.65	C33	293.99	1020.60	16°30'15"	S47°44'28"E	292.97
C13	250.21	1125.00	12°44'36"	N07°04'35"W	249.70	C34	181.79	1179.40	8°49'53"	N51°34'39"W	181.61
C14	342.67	352.91	55°37'59"	N41°15'52"W	329.36	C35	492.32	1286.90	21°55'10"	S58°07'17"E	489.33
C15	45.18	1236.90	2°05'35"	S68°02'05"E	45.18	C36	294.12	302.91	55°37'59"	N41°15'52"W	282.70
C16	428.01	1236.90	19°49'35"	S57°04'30"E	425.88	C37	239.09	1075.00	12°44'36"	N07°04'35"W	238.60
C17	169.50	1228.40	8°49'53"	N51°34'39"W	169.31	C38	275.19	1567.00	10°03'43"	N04°19'34"E	274.83
C18	279.59	970.60	16°30'15"	S47°44'28"E	278.62	C39	74.92	1572.00	2°43'50"	N10°43'21"E	74.91
C19	65.69	182.29	20°38'50"	S34°15'53"W	65.34	C40	350.29	2522.00	7°57'29"	N16°04'01"E	350.01
C20	171.22	356.90	27°29'14"	S10°11'46"W	169.58	C41	256.17	613.74	23°54'54"	S08°05'18"W	254.32
C21	381.35	1450.00	15°04'08"	N20°26'03"E	380.25						



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NEAR VICINITY MAP - PROPERTY/FACILITY BOUNDARY
SURVEYED METES AND BOUNDS
**OVERALL BOUNDARY
GREEN RIDGE RECYCLING AND
DISPOSAL FACILITY**
HAMILTON DISTRICT - CUMBERLAND COUNTY, VIRGINIA

DESIGNED BY:

DRAWN BY:

CHECKED BY:

SCALE:

DATE:

08/03/2023

REVISIONS

NOVEMBER 6, 2019
OWNER INFORMATION
NOVEMBER 18, 2019
CLIENT DEED INFO
APRIL 21, 2021
PARCEL LABELS UPDATED
NOVEMBER 18, 2022
SURVEY TIE LINE

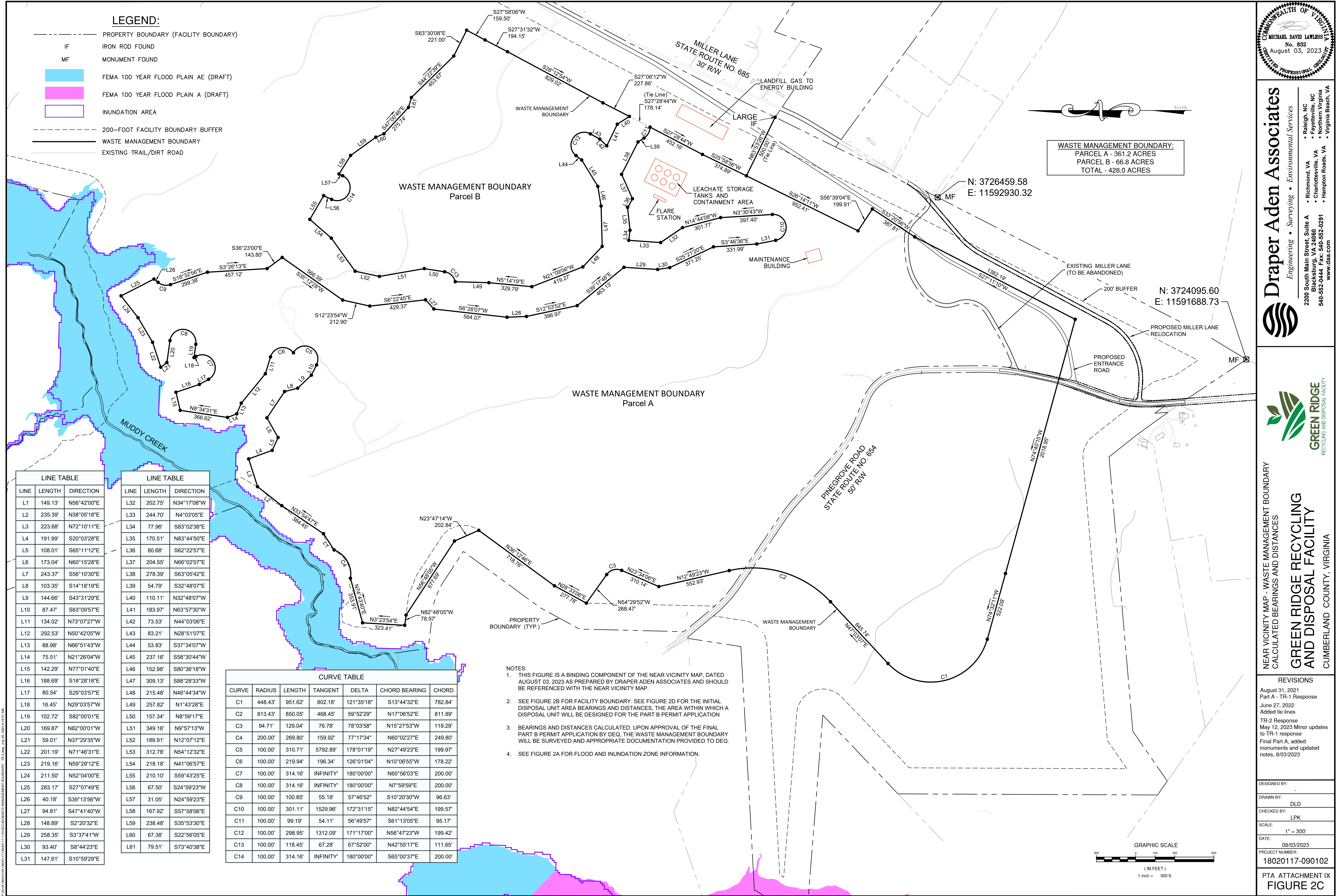
REVISIONS CONT

TR-2 RESPONSE,
May 12, 2023, Minor updates
to original Part A application
Final Part A,
updated note, 8/03/2023

PROJECT NUMBER:

18020117-090102

PTA ATTACHMENT IX
FIGURE 2B



P:\2018\18020117-090102\17-090102\WASTE MANAGEMENT BOUNDARY - TR-2.dwg 08/23/2023 11:03:57 AM

