

Blue Ridge Resource Authority
Capital Improvements Plan

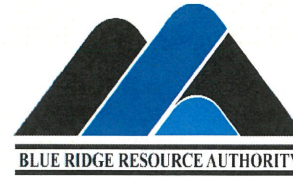
FY 2023-2027



Presented to the Blue Ridge Resource Authority
Board

April 11, 2022

**The Blue Ridge Resource Authority Capitol Improvements Plan
For Fiscal Years 23-27**



I am pleased to present to you the proposed FY23- FY27 Capital Improvements Program (CIP) for The BRRRA. This CIP plan includes \$1,961,672 of capital improvements for the BRRRA. The plan identifies \$1,931,672 of equipment procurements through planned lease-purchase agreements. This plan also includes \$30,000 for the purchase of a new slope mower which is due for replacement in FY 2024.

This plan consists of equipment procurement in the form of 5 and 10 year lease agreements. These lease agreements represent a continued plan of financing the Authority put into place 13 years ago. We are currently into our second transition of equipment. Our Cat IT14 wheel loader is on a scheduled life cycle of 15 years. It was purchased used in 1994. This machine is used daily in our collection center to unload waste, supplies, manage our brush pile, and is also used for numerous tasks across our site. The estimated cost for replacement is \$155,348. Replacement will be required in FY 2024.

The John Deere Track Loader (or equivalent), is on a scheduled life cycle of 5 years. This particular piece of equipment is used daily to push up waste. Construction debris is considered a harsh environment for this piece of equipment. The rate of replacement of the track loader is \$397,500. Replacement will be required in FY 2024.

The Al-Jon Compactor (or equivalent) is the most important piece of equipment to the landfill. Compaction provides efficiency by saving airspace. The compactor is a unique piece of equipment and is not readily available for rental should our unit breakdown. The estimated cost of replacement is \$750,000 and will be required in FY 2025. This unit has a 10 year life cycle. By FY 2025 the life cycle will have been extended to 12 years.

The Volvo EC350 Excavator (or equivalent) serves a vital role at the landfill. It is used daily for the excavation of cover soil and various other projects around our site. It has an expected life span of 10 years. It is currently scheduled to be replaced in FY 2026. The estimated cost of replacement is \$321,672.

A handwritten signature in black ink, appearing to read "Fred Dudley", is written over a horizontal line.

Fred Dudley, Director BRRRA

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2023 - 2027)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Lease-Purchase of a Hitachi ZW150PL Wheel Loader (or equivalent)
Budget Line #:	4-19-19040-8002

Status: (mark with BOLD "X")		New Project	X	No change from prior year's plan		Changes Added
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Description: (Enter narrative to the right)	The BRRA is currently operating a CAT IT14 Wheel Loader purchased in August of 1994. The current machine has 10,000 hours on it. Staff is requesting to replace the current machine in FY 2024. This procurement plan assumes a 15 year life cycle.
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Justification: (Enter narrative to the right)	It has been made clear through past operations and analysis of other landfill programs that scheduled replacement of key equipment will greatly reduce maintenance and repair costs, and will require lower rental expenses and/or downtime due to equipment failures. This machine is essential to the effecient operation of the Authority. It's used to load and unload materials, supplies and waste. It is also used to load commingle material, manage the brush pile, and complete numerous other maintenance projects across the site.This piece of equipment is scheduled to be replaced in FY 2024. Staff anticipates a 5-year lease term at an interest rate of 5%. Principal value @ \$155,348; interest @ \$20,549 with a total of 60 payments @ \$2,932 for a total cost of \$175,897. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.
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Performed by (mark applicable w/ BOLD "X"):		In-house	X	Contract
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Estimated Annual Impact on Operating Cost:	\$2,000
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Fund Source	FYE 2023	FYE 2024	FYE 2025	FYE 2026	FYE 2027	Not Yet Programmed	Total
Op Revenues	\$0	\$32,248	\$35,179	\$35,179	\$35,179	\$38,111	\$175,897
Total	\$0	\$32,248	\$35,179	\$35,179	\$35,179	\$38,111	\$175,897

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2023 - 2027)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Purchase of a Ventrac 4500Z Slope Mower (or equivalent)
Budget Line #:	4-19-19040-8002

Status: (mark with BOLD "X")		New Project	X	No change from prior year's plan		Changes Added
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Description: (Enter narrative to the right)	The BRRR is currently operating a Ventrac 4500Z slope mower which was purchased in December of 2012. Staff is requesting to replace this machine in FY 2024. This procurement plan assumes a 12-year life cycle.
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Justification: (Enter narrative to the right)	The Ventrac 4500Z slope mower is an essential machine for mowing of the landfill slopes and is also utilized for other necessary mowing operations on the property. The estimated replacement cost of the machine is \$30,000.00 and would be purchased through a cooperative procurement group or State contract. Staff is requesting that funding for this purchase be added to our FY 2024 budget.
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Performed by (mark applicable w/ BOLD "X"):	X	In-house		Contract
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Estimated Annual Impact on Operating Cost:	\$1,400
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Fund Source	FYE 2023	FYE 2024	FYE 2025	FYE 2026	FYE 2027	Not Yet Programmed	Total
Op Revenues	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
Total	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2023 - 2027)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Lease-Purchase of John Deere Track Loader (or equivalent)
Budget Line #:	4-19-19040-8002

Status: (mark with BOLD "X")		New Project		No change from prior year's plan	X	Changes Added
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Description: (Enter narrative to the right)	The BRRA is currently operating a 2018 John Deere 755K Track Loader. Staff is requesting to replace the equipment in FY 2024. This procurement plan assumes a 5 year life cycle for the current machine.
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Justification: (Enter narrative to the right)	It has been made clear through past operations and analysis of other landfill programs that scheduled replacement of key equipment will greatly reduce maintenance and repair costs, and will require lower rental expenses and/or downtime due to equipment failures. The benefit is to ensure regulatory compliance, maximize services, and minimize unscheduled costs. This piece of equipment is scheduled to be replaced in FY 2024. Staff anticipates a 5-year lease term at an interest rate of 5%. Principal value @ \$397,500; interest @ \$52,579 with a total of 5 annual payments @ \$90,016, for a total cost of \$450,079. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.
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Performed by (mark applicable w/ BOLD "X"):		In-house	X	Contract
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Estimated Annual Impact on Operating Cost:	\$22,500
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Fund Source	FYE 2023	FYE 2024	FYE 2025	FYE 2026	FYE 2027	Not Yet Programmed	Total
Op Revenues	\$0	\$90,016	\$90,016	\$90,016	\$90,016	\$90,016	\$450,079
Total	\$0	\$90,016	\$90,016	\$90,016	\$90,016	\$90,016	\$450,079

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2023 - 2027)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Lease-Purchase of Al-Jon Compactor (or equivalent)
Budget Line #:	4-19-19040-8002

Status: (mark with BOLD "X")		New Project		No change from prior year's plan	X	Changes Added
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Description: (Enter narrative to the right)	The BRRR is currently operating a 2013 AlJon ADV500 Landfill Compactor (put into service 2013). Staff is requesting to replace the equipment in FY 2025. This procurement plan assumes a 10-year life cycle for the current machine.
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Justification: (Enter narrative to the right)	The Al-Jon Compactor is scheduled to be replaced in FY 2025. An additional two years of service life is being added to the existing unit as staff believes the compactor has additional service life remaining. The additional two years will assist the BRRR in out-year budgeting to meet operational and closure/post-closure requirements. Staff anticipates a 10 year lease term at an interest rate of 5%. Principal value @ \$750,000; interest @ \$204,589 with a total of 10 annual payments @ \$95,459 for a total cost of \$954,589. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.
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Performed by (mark applicable w/ BOLD "X"):		In-house	X	Contract
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Estimated Annual Impact on Operating Cost:	\$36,000
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Fund Source	FYE 2023	FYE 2024	FYE 2025	FYE 2026	FYE 2027	Not Yet Programmed	Total
Op Revenues	\$0	\$0	\$95,459	\$95,459	\$95,459	\$668,212	\$954,589
Total	\$0	\$0	\$95,459	\$95,459	\$95,459	\$668,212	\$954,589

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2023 - 2027)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Lease Purchase of Volvo EC350 Excavator (or equivalent)
Budget Line #:	4-19-19040-8002

Status: (mark with BOLD "X")		New Project		No change from prior year's plan	X	Changes Added
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Description: (Enter narrative to the right)	The BRRR is currently operating a Volvo EC350EL Crawler Excavator. This machine was purchased in FY 2016. Staff is requesting to replace the equipment in FY 2026. This procurement plan assumes a 10-year life cycle for the current machine.
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Justification: (Enter narrative to the right)	It has been made clear through past operations and analysis of other landfill programs that scheduled replacement of key equipment will greatly reduce maintenance and repair costs, and will require lower rental expenses and/or downtime due to equipment failures. The benefit is to ensure regulatory compliance, maximize services, and minimize unscheduled costs. In FY 2026, staff anticipates a 5 year lease term at an interest rate of 5%. Principal value @ \$321,672; interest @ \$42,549 with a total of 5 annual payments @ \$69,844 for a total cost of \$351,107. The former equipment can be sold as surplus to recoup costs. Procurement will be made via an existing cooperative procurement contract.
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Performed by (mark applicable w/ BOLD "X"):		In-house	X	Contract
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Estimated Annual Impact on Operating Cost:	\$14,500
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Fund Source	FYE 2023	FYE 2024	FYE 2025	FYE 2026	FYE 2027	Not Yet Programmed	Total
Op Revenues	\$0	\$0	\$0	\$70,221	\$70,221	\$210,665	\$351,107
Total	\$0	\$0	\$0	\$70,221	\$70,221	\$210,665	\$351,107

BRRR Debt Service FY23-27



FY 2023

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	D6N Dozer	Cat Fin	Monthly	\$ 32,472	\$ 280	\$ 32,752
4-19-19040-9902	Transfer Station	VRA	10/1/22	\$ 30,000	\$ 10,772	\$ 40,772
4-19-19040-9902	Transfer Station	VRA	4/1/23	\$ -	\$ 10,028	\$ 10,028
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/22	\$ 625,000	\$ 65,738	\$ 690,738
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/23	\$ -	\$ 49,722	\$ 49,722
4-19-19040-9900	Closure & Post Closure			\$ 344,566		\$ 344,566
Total FY 2023				\$ 1,032,038	\$ 136,540	\$ 1,168,578

FY 2024

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 65,652	\$ 16,862	\$ 82,514
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 25,658	\$ 6,590	\$ 32,248
4-19-19040-9902	Transfer Station	VRA	10/1/23	\$ 30,000	\$ 10,028	\$ 40,028
4-19-19040-9902	Transfer Station	VRA	4/1/24	\$ -	\$ 9,259	\$ 9,259
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/23	\$ 90,000	\$ 49,722	\$ 139,722
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/24	\$ -	\$ 47,416	\$ 47,416
4-19-19080-XXXX	Cell-2	VRA	10/1/23	\$ 360,000	\$ 89,047	\$ 449,047
4-19-19080-XXXX	Cell-2	VRA	4/1/24		\$ 79,822	\$ 79,822
4-19-19040-9900	Closure & Post Closure			\$ 344,566		\$ 344,566
Total FY 2024				\$ 915,876	\$ 308,746	\$ 1,224,622

FY2025

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 75,130	\$ 14,886	\$ 90,016
4-19-19040-8002	Aljon Compactor		Monthly	\$ 54,250	\$ 33,254	\$ 87,504
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 29,362	\$ 5,818	\$ 35,180
4-19-19040-9902	Transfer Station	VRA	10/1/24	\$ 35,000	\$ 9,259	\$ 44,259
4-19-19040-9902	Transfer Station	VRA	4/1/25	\$ -	\$ 8,363	\$ 8,363
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/24	\$ 95,000	\$ 47,416	\$ 142,416
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/25	\$ -	\$ 44,981	\$ 44,981

BRRR Debt Service FY23-27



FY2025 (Continued)

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19080-XXXX	Cell-2	VRA	10/1/24	\$ 380,000	\$ 79,822	\$ 459,822
4-19-19080-XXXX	Cell-2	VRA	4/1/25		\$ 70,084	\$ 70,084
4-19-19040-9900	Closure & Post Closure			\$ 344,566		\$ 344,566
Total FY 2025				\$ 1,013,307	\$ 313,883	\$ 1,327,190

FY 2026

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 78,973	\$ 11,042	\$ 90,016
4-19-19040-8002	Aljon Compactor		Monthly	\$ 62,081	\$474,831.31	\$ 536,913
4-19-19040-8002	Volvo Excavator		Monthly	\$ 53,128	\$ 13,646	\$ 66,774
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 30,864	\$ 4,316	\$ 35,180
4-19-19040-9902	Transfer Station	VRA	10/1/25	\$ 35,000	\$ 8,363	\$ 43,363
4-19-19040-9902	Transfer Station	VRA	4/1/26	\$ -	\$ 7,466	\$ 7,466
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/25	\$ 100,000	\$ 44,981	\$ 144,981
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/26	\$ -	\$ 42,569	\$ 42,569
4-19-19080-XXXX	Cell-2	VRA	10/1/25	\$ 400,000	\$ 70,084	\$ 470,084
4-19-19080-XXXX	Cell-2	VRA	4/1/26		\$ 59,834	\$ 59,834
4-19-19040-9900	Closure & Post Closure			\$ 344,566		\$ 344,566
Total FY 2026				\$ 1,104,613	\$ 737,132	\$ 1,841,745

FY 2027

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 83,014	\$ 7,002	\$ 90,016
4-19-19040-8002	Aljon Compactor		Monthly	\$ 65,258	\$ 30,201	\$ 95,459
4-19-19040-8002	Volvo Excavator		Monthly	\$ 57,798	\$ 12,046	\$ 69,844
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 32,443	\$ 2,737	\$ 35,180
4-19-19040-9902	Transfer Station	VRA	10/1/26	\$ 35,000	\$ 7,466	\$ 42,466
4-19-19040-9902	Transfer Station	VRA	4/1/27	\$ -	\$ 6,669	\$ 6,669
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/26	\$ 105,000	\$ 42,569	\$ 147,569
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/27	\$ -	\$ 40,028	\$ 40,028

BRRR Debt Service FY23-27



FY 2027 (Continued)

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19080-XXXX	Cell-2	VRA	10/1/26	\$ 420,000	\$ 59,834	\$ 479,834
4-19-19080-XXXX	Cell-2	VRA	4/1/27		\$ 49,072	\$ 59,834
4-19-19040-9900	Closure & Post Closure			\$ 344,566	\$ -	\$ 344,566
Total FY 2027				\$ 1,143,078	\$ 257,624	\$ 1,411,465