

Blue Ridge Resource Authority
Capital Improvements Plan

FY 2025-2029



Presented to the Blue Ridge Resource Authority
Board

May 13, 2024

The Blue Ridge Resource Authority Capital Improvements Plan For Fiscal Years 25-29



I am pleased to present to you the proposed FY25- FY29 Capital Improvements Program (CIP) for The BRRR. This CIP plan includes \$1,723,672 of capital improvements for the BRRR. The plan identifies \$1,628,672 of equipment procurements through planned lease-purchase agreements. This plan includes \$45,000 for the purchase of a new slope mower which was due for replacement in FY 2024, and an additional \$50,000 for the purchase of a used road tractor for pulling the leachate tanker.

This plan consists of equipment procurement in the form of 5 - 10 year lease agreements. These lease agreements represent a continued plan of financing the Authority put into place 15 years ago. 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 replacement was scheduled for FY 2024; however, based on the current condition of the machine, staff has decided to postpone replacement until FY 2026. The projected replacement cost will be \$166,222.

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 2027. The estimated cost of replacement is \$371,175.

The Volvo A30G Articulating truck (or equivalent) is required to support daily landfill activities such as transporting daily cover soil from the borrow area to the working face, and moving other various materials around the site. It has an estimated life cycle of 14 years. It is currently scheduled to be replaced in FY 2029. The estimated cost of replacement is \$577,479.

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 estimated cost of replacement is \$513,796. Replacement will be required in FY 2029.

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

Fred Dudley, Director

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2025 - 2029)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Purchase of a Ventrac 4500Z Slope Mower (or equivalent)
Budget Line #:	4-19-19040-7002

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 2025. 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 \$45,000.00 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 2025 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:	\$2,160
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Fund Source	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	Not Yet Programmed	Total
Op Revenues	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000
Total	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2025 - 2029)



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 10,500 hours on it. Staff is requesting to replace the current machine in FY 2026. This procurement plan assumes a 17 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 efficient 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 2026. Staff anticipates a 5-year lease term at an interest rate of 7%. Principal value @ \$166,222; interest @ \$31,261 with a total of 60 payments @ \$3,291 for a total cost of \$197,484. 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:	\$3,000
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Fund Source	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	Not Yet Programmed	Total
Op Revenues	\$0	\$39,497	\$39,497	\$39,497	\$39,497	\$39,497	\$197,483
Total	\$0	\$39,497	\$39,497	\$39,497	\$39,497	\$39,497	\$197,483

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2025 - 2029)



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 2027. This procurement plan assumes a 11-year life cycle for the current machine. (Machine cost projection based on average percentage per year increase)
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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 2027, staff anticipates a 5 year lease term at an interest rate of 7%. Principal value @ \$371,175; interest @ \$69,808 with a total of 5 annual payments @ \$88,197 for a total cost of \$440,983. 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:	\$21,600
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Fund Source	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	Not Yet Programmed	Total
Op Revenues	\$0	\$0	\$88,197	\$88,197	\$88,197	\$176,393	\$440,983
Total	\$0	\$0	\$88,197	\$88,197	\$88,197	\$176,393	\$440,983

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2025 - 2029)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Purchase of a Used Road Tractor
Budget Line #:	4-19-19040-7002

Status: (mark with BOLD "X")	X	New Project		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 2006 International 9200 road tractor purchased in September of 2017. Staff is requesting to replace this machine in FY 2027. The life cycle is solely dependant upon the condition and mileage of the used machine purchased. This procurement plan assumes an estimated 7-year life cycle.
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Justification: (Enter narrative to the right)	This truck is used to pull our leachate tanker which is used to haul leachate to the waste water treatment plant. The estimated replacement cost is \$50,000. Staff is requesting funds be added to our FY 2027 budget to finance this purchase.
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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:	\$2,160
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Fund Source	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	Not Yet Programmed	Total
Op Revenues	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
Total	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2025 - 2029)



Requesting Organization:	Blue Ridge Resource Authority
Project Title:	Lease-Purchase of Volvo A30G Artic Truck (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 A30G Artic Truck. This machine was purchased in FY 2016. Staff is requesting to replace the equipment in FY 2029. This procurement plan assumes a 14-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. The Articulated Truck will be replaced in FY 2028. Staff anticipates a 5-year lease term at an interest rate of 7%. Principal value @ \$577,479; interest @ \$108,608 with a total of 5 annual payments @ \$137,217 for a total cost of \$686,087. 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:	\$24,000
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Fund Source	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	Not Yet Programmed	Total
Op Revenues	\$0	\$0	\$0	\$0	\$137,217	\$548,869	\$686,087
Total	\$0	\$0	\$0	\$0	\$137,217	\$548,869	\$686,087

CAPITAL IMPROVEMENT PLAN REQUEST
FISCAL YEARS ENDING (FYE 2025 - 2029)



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 2024 John Deere 755K Track Loader. Staff is requesting to replace the equipment in FY 2029. 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 2029. Staff anticipates a 5-year lease term at an interest rate of 7%. Principal value @ \$513,796; interest @ \$96,631 with a total of 5 annual payments @ \$122,085 for a total cost of \$610,426. 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:	\$33,600
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Fund Source	FYE 2025	FYE 2026	FYE 2027	FYE 2028	FYE 2029	Not Yet Programmed	Total
Op Revenues					\$122,085	\$488,341	\$610,426
Total	\$0	\$0	\$0	\$0	\$122,085	\$488,341	\$610,426

BRRR Debt Service FY25-29



FY 2025

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	Landfill Compactor		Biannual	\$ 63,620	\$ 18,401	\$ 82,022
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
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			\$ 360,325		\$ 360,325
Total FY 2025				\$ 933,945	\$ 278,326	\$ 1,212,272

FY 2026

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	Landfill Compactor		Biannual	\$ 66,061	\$ 15,961	\$ 82,022
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 26,298	\$ 9,908	\$ 36,205
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			\$ 365,730		\$ 365,730
Total FY 2026				\$ 993,088	\$ 259,165	\$ 1,252,253

BRRR Debt Service FY25-29



FY 2027

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	Landfill Compactor		Biannual	\$ 68,595	\$ 13,427	\$ 82,022
4-19-19040-8002	Volvo Excavator		Monthly	\$ 58,723	\$ 22,124	\$ 80,847
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 30,674	\$ 8,823	\$ 39,497
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
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			\$ 371,216	\$ -	\$ 371,216
Total FY 2027				\$ 1,089,207	\$ 250,011	\$ 1,349,981

FY 2028

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	Landfill Compactor		Biannual	\$ 71,227	\$ 10,795	\$ 82,022
4-19-19040-8002	Volvo Excavator		Monthly	\$ 68,495	\$ 19,702	\$ 88,197
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 32,891	\$ 6,606	\$ 39,497
4-19-19040-9902	Transfer Station	VRA	10/1/27	\$ 40,000	\$ 6,669	\$ 46,669
4-19-19040-9902	Transfer Station	VRA	4/1/28	\$ -	\$ 5,794	\$ 5,794
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/27	\$ 110,000	\$ 40,028	\$ 150,028
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/28	\$ -	\$ 37,509	\$ 37,509
4-19-19080-XXXX	Cell-2	VRA	10/1/27	\$ 445,000	\$ 49,072	\$ 494,072
4-19-19080-XXXX	Cell-2	VRA	4/1/28		\$ 37,669	\$ 59,834
4-19-19040-9900	Closure & Post Closure			\$ 376,784	\$ -	\$ 376,784
Total FY 2028				\$ 1,144,396	\$ 213,843	\$ 1,380,405

BRRR Debt Service FY25-29



FY 2029

Account	Purpose	Company	Due Date	Principal	Interest	Total
4-19-19040-8002	John Deere Track Loader		Monthly	\$ 116,295	\$ 28,156	\$ 144,451
4-19-19040-8002	Landfill Compactor		Biannual	\$ 73,959	\$ 8,063	\$ 82,022
4-19-19040-8002	Volvo Excavator		Monthly	\$ 73,446	\$ 14,750	\$ 88,197
4-19-19040-8002	Hitachi ZW150PL Wheel Loader		Monthly	\$ 35,269	\$ 4,228	\$ 39,497
4-19-19040-8002	Volvo Artic Truck		Monthly	\$ 91,361	\$ 34,421	\$ 125,783
4-19-19040-9902	Transfer Station	VRA	10/1/28	\$ 40,000	\$ 5,794	\$ 45,794
4-19-19040-9902	Transfer Station	VRA	4/1/29	\$ -	\$ 4,869	\$ 4,869
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	10/1/28	\$ 115,000	\$ 37,509	\$ 152,509
4-19-19040-XXXX	Cell-1 & Infrastructure	VRA	4/1/29	\$ -	\$ 35,088	\$ 35,088
4-19-19080-XXXX	Cell-2	VRA	10/1/28	\$ 465,000	\$ 37,669	\$ 502,669
4-19-19080-XXXX	Cell-2	VRA	4/1/29		\$ 37,669	\$ 59,834
4-19-19040-9900	Closure & Post Closure			\$ 382,436	\$ -	\$ 382,436
Total FY 2029				\$ 1,392,766	\$ 248,215	\$ 1,663,146