Golf & Landscape Agronomic Report

To: Distinguished Members of the Board

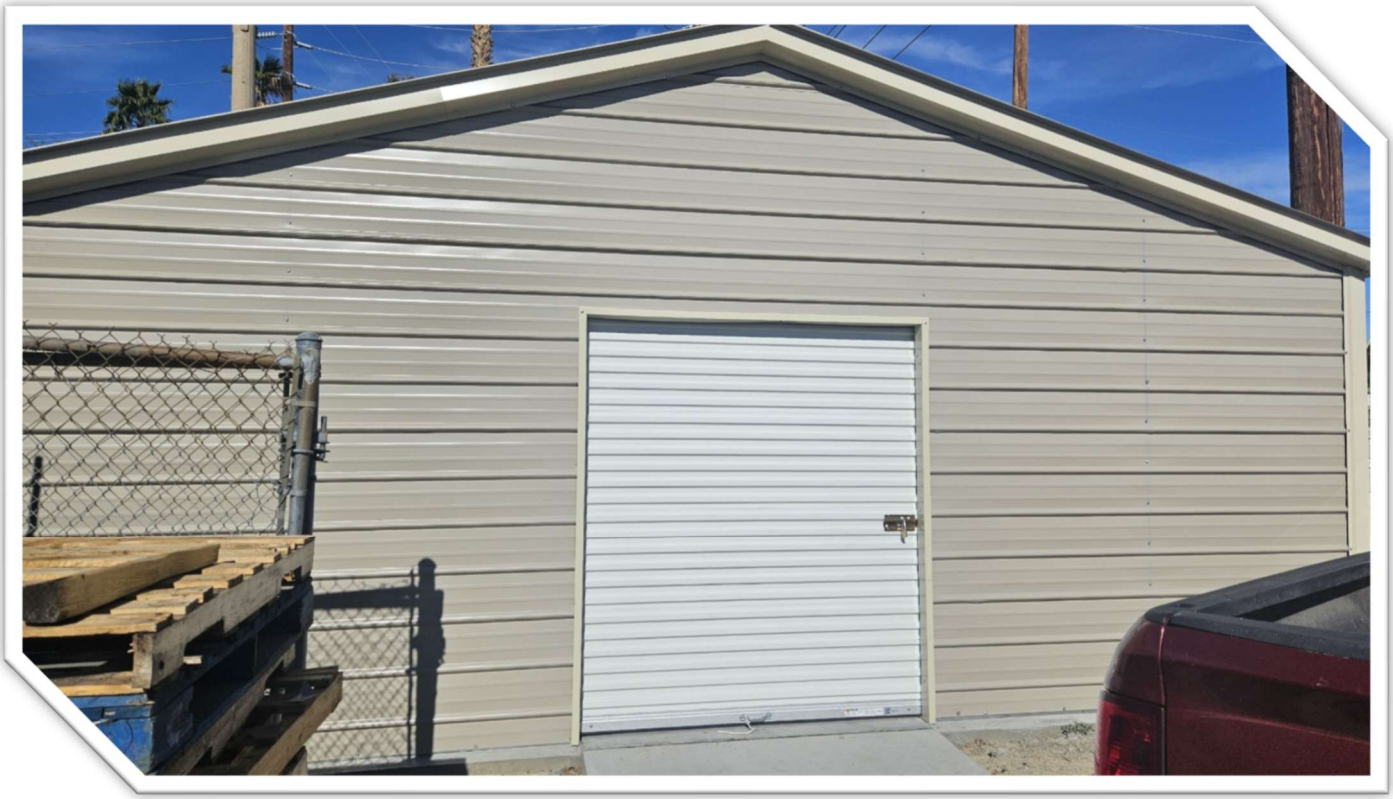
From: Matthew Hoyt, CGCS • Golf & Grounds Superintendent

Date: Thursday, January 15, 2026

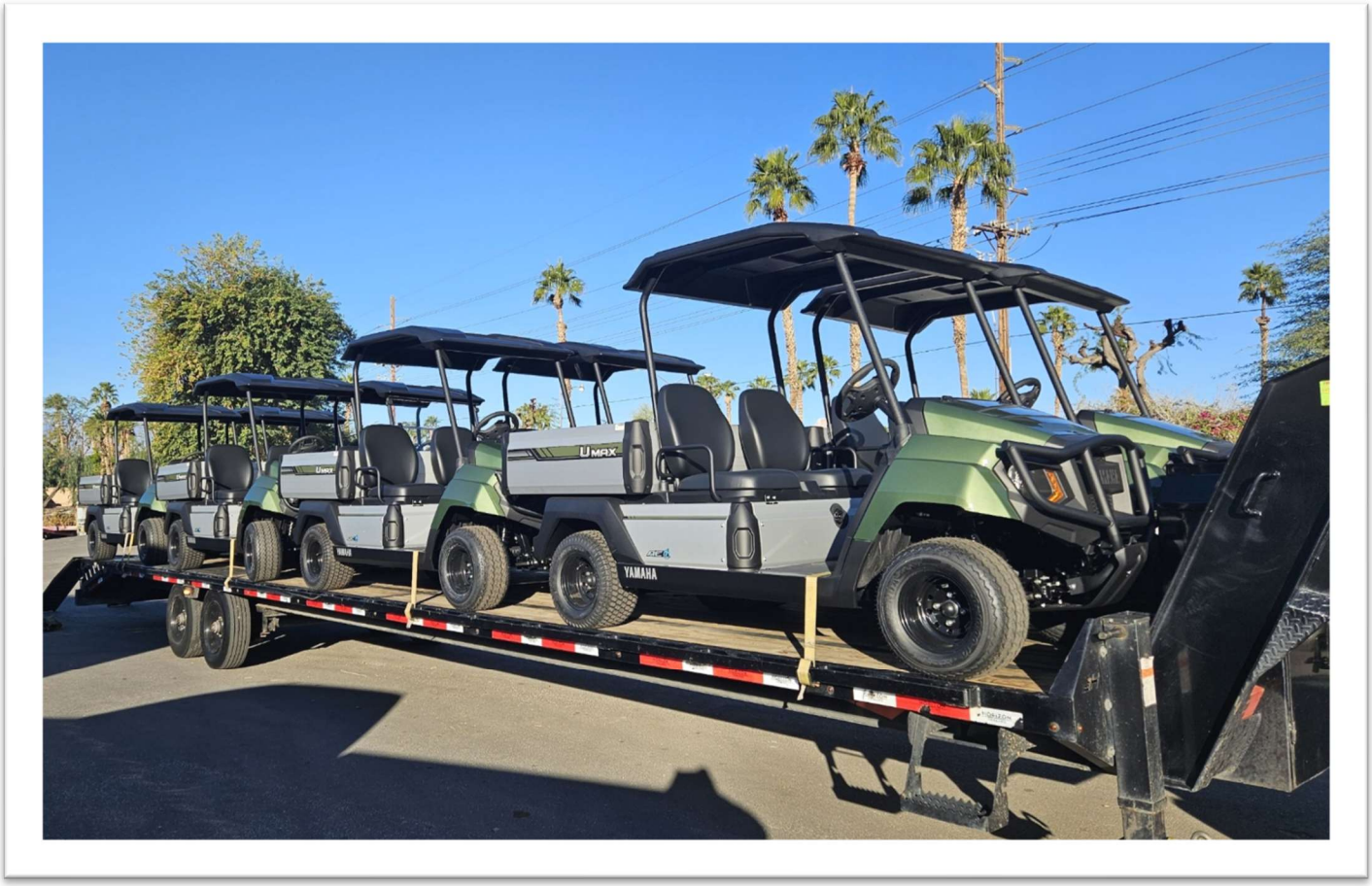
Re: January 2024 - Staff & Agronomic Report

First and foremost, let me say “Thank You” on behalf of the staff and managers in the Agronomy department. All of us are very grateful for the generosity that was demonstrated this year from Heritage Palms. We all say a big THANK YOU to the board of directors and the homeowners that provided so much this Holiday Season. Thank you again from all of us to all of you!

It is not super flashy, but in an effort to save you a trip, included is a photo of the new storage building. The structure is complete, but during construction some unforeseen adjustments and sealing of the foundation were needed as an extra fee. I am happy to report this project is over and now plans are already in place to divide the space for all the needed storage users.



The new Yamaha uMAX utility vehicles have now arrived. Thank you to the Board of Directors in support of replacing our ageing Club Car gas fleet. These new electric Lithium-ion cars will serve the association well during their service life. Although the required switch to electric was mandated by the great State of California, it still feels good to go-green and emission free.



Golf Course & Common Area Update:

- ✓ Ballmarks on greens continued to be addressed by staff. As the weather warms recuperative growth from the turf will return.
- ✓ Tree trimming around the perimeter of the property for all streetscapes has concluded.
- ✓ Desert areas are currently being attacked for explosive weed growth. A three-man team is attempting to spray all the unwanted growth induced by the rains.
- ✓ Cart path edging for the golf course is nearly complete, then the HOA common areas will be targeted.
- ✓ Trimming of the always growing plant material is a continued focus property wide.
- ✓ Weeding of all flower beds has been completed to enhance their look.

The first week of February I will be away from the facility for a few days gaining some valuable education. The 2026 GCSAA Conference and Trade Show will be in Orlando, FL this year. This year's event has moved in the calendar and is taking place from Feb 2nd through Feb 5th. The education portion allows for an expansion of all superintendent's knowledge base. The trade show portion aids in keeping pace with changes in the industry. This education and networking opportunity is nearly the only time of the year to accumulate valuable recertification credits.

As always thank you for all of your continued support and appreciation, please reach out with any questions or comments.

Funding Request

To: Board of Directors

From: Matthew Hoyt, CGCS – Golf & Grounds Superintendent

Date: 1/14/2026

Lithium Golf Car Batteries:

Over the past month the lithium battery pack in the Assistant Superintendent cart has continued to degrade. At this time, the cart can slowly climb out of the tunnel and has lost most of its torque. During charging sessions, that battery pack has now continued to fail when taking a nightly charge. The golf and grounds department is recommending full replacement of this single set battery pack with a modular lithium set of 4 Dakota Lithium golf car batteries.

The total investment to reinstate the full operation of the Assistant Superintendent cart is projected not to exceed: NTE: $4,853 (due to the chance of expiration of the applied coupon)

Order summary

1 DL+ 48V 135Ah Dual Purpose Golf Cart Battery Set	~~$4,880~~ $3,996
1 48V 15A LiFePO4 Battery Charger	$305

Subtotal (after discounts)	$4,085.95
Coupon: busyroaming	-$215.05 [Remove]
Shipping	Cost: $193.55
Tax	$357.52
Total	$4,637.02

DAKOTA LITHIUM+ 12V 135Ah BATTERY

The DL+ 12v 135Ah battery is the pinnacle of energy density and versatility. Combining deep cycle performance with 1,000 CCA engine starting power and even-heat technology, it defies limitations. From starting car engines to powering electronics, it excels in diverse applications. Engineered for rugged conditions, it charges five times faster than traditional batteries, with five times the power and half the weight of lead-acid batteries. With 135Ah capacity in a compact Group 24 case, it's perfect for marine, automotive, and other deep-cycle setups. Backed by an 11-year warranty, it exceeds ABYC standards and meets Mercury Outboard requirements, ensuring reliability and longevity.

SPECIFICATIONS:

1 YEAR WARRANTY
World beating, best in class, eleven year manufacturer defect warranty.

STORAGE CAPACITY
135 ampere hours (Ah). Dakota Lithium batteries provide consistent power for all 135 amp hours. DL LiFePO4 batteries have a flat voltage curve, which means they have a steady power output as the battery discharges. The power output will not dramatically drop like similar sized SLA batteries. You get all the juice down to the last drop.

VOLTAGE
12.8V (Dakota Lithium 12V batteries can be used in series for up to 48V systems)

ENGINE STARTING POWER
Lithium battery equivalent to 1,000 Cold Cranking Amps (CCA) of lead acid battery engine starting power. Suitable for marine, automotive, and other applications. 1/2 the weight of a normal car battery.

SIZE
9.5"L x 6.9"W x 8.22"H (242.5mm x 176mm x 209mm) Group 24 equivalent

GROUP SIZE 24 / 34 / GC2
Group 24 / 34 compatible physical dimensions & 24F terminal orientation. Cranking power (CCA rating) & usable deep cycle capacity is much higher than a lead-acid battery of the same group size. Group Size GC2 compatible.

ENERGY
1620 Watt-hours (Wh)

TERMINALS
F12 terminals (posts that screw in) with M8 size bolts. Includes a terminal adapter kit with automotive & marine posts that screw into the M8 bolt terminal, and M8 brass terminal bolts. Easy to adapt to different connection needs. (Max torque 15 ft. lbs.) (Max 5 ft. lbs. on terminal post adapters)

WEIGHT
27.2 lbs (12.3 Kg). 65% lighter than a SLA or lead battery.

LIFECYCLES (BATTERY LIFESPAN)
Up to 80% capacity for 5,000 cycles in recommended conditions. The typical automotive SLA has 500 cycles. Dakota Lithium batteries last so long that the price per use is a fraction of traditional batteries.

OPERATING TEMPERATURE
Ideal for rugged & harsh environments. Much better than SLA or other lithium batteries. -20°F min, +150°F max optimal operating temps (battery performs well down to -20°F). Internal even-heat technology allows for charging below 32°F. BMS high temp cut off at 167°F / 75°C.

DISCHARGE
270A max continuous discharge, 1000A max 2 second pulse, 900A max 5 sec pulse. The flat discharge voltage curve provides a 75% bigger capacity than a 135Ah SLA battery with the same CCA rating.

CHARGE
Recommend for longest life 70A or less (.5C). Max continuous 135A (1C). 14.4 V recommended, 15 V max, BMS protection from over charging will cut off at 15V. Included is a free 12V 10 Amp (A) LiFePO4 compatible charger that charges at the recommended 14.4 Volts..

CHARGE VIA ALTERNATOR
Drop in replacement for lead acid and AGM starter batteries for vehicles and outboard motors. NOTE: THE DL+ 135Ah IS LIMITED TO AN ALTERNATOR CHARGING PROFILE OF 135 AMPS OR LESS.

INCLUDES ACTIVE BMS PROTECTION
Contains a high discharge capable circuit that handles cell balancing, low voltage cutoff (10V) preventing over discharge, high voltage cutoff (15V) preventing over charging, short circuit protection and temperature protection for increased performance and longer life.

INTERNAL EVEN-HEAT TECHNOLOGY
Increases performance in extreme cold. When charging the battery in temperatures below 0°C/32°F DL's internal heating element will warm the cells to 0°C/32°F. This increases the lifespan, performance, and efficiency of the battery.

CERTIFICATIONS
All DL batteries are UN 38 certified. Dakota Lithium's cells are UL1642 certified and have been tested per IEC62133 standards. Meets all US & International regulations for air, ground, train, & marine transport.

ISO:9001 QUALITY CONTROL CERTIFIED
Engineering, design, uality control and manufacturing

DUAL PURPOSE USE
Multi-purpose use as a deep cycle battery and/or as a starter battery for starting gasoline engines.

SUITABLE FOR:

- STARTING CAR AND TRUCK ENGINES
- DEEP CYCLE APPLICATIONS
- TROLLING MOTORS #FISHLONGER
- OVERLAND & TRUCK BUILDS
- VANLIFE & RV BATTERY UPGRADE
- CAR AUDIO
- GOLF CARTS & ELECTRIC VEHICLES
- LINK IN SERIES FOR 24V, 36V, 48V
- INDUSTRIAL BATTERIES (BULK PRICING)
- LIFEPO4 REPLACEMENT FOR SLA 12V
- FISH FINDERS, FLASHERS, & BOATING ELECTRONICS
- RECREATIONAL VEHICLES, CAMPERS, AND TRAILERS
- OFF-GRID HOMES
- MERCURY OUTBOARD MOTORS

Reserve Component Detail:

Heritage Palms Homeowners Association

Component Detail

Directed Cash Flow Calculation Method; Sorted By Category

Golf Maint Equip - Cart, Asst Superintendent

Category	090 Golf Course	Quantity	1 cart
		Unit Cost	$23,870.25
		% of Replacement	100.00%
		Current Cost	$23,870.25
Placed In Service	03/2019	Future Cost	$24,586.36
Useful Life	6		
Adjustment	+3	Assigned Reserves at FYB	$14,635.92
Remaining Life	2	Monthly Member Contribution	$121.81
Replacement Year	2027-28	Monthly Interest Contribution	$24.73
		Total Monthly Contribution	$146.55

The association rebuilt the Assistant Superintendent cart during 2018 with lithium batteries, new suspension, wheels and upholstery for a total cost of $9,000. The association replaced this cart in March 2019 for an unknown total cost. ~~The association replaced the lithium batteries in this cart during 2022.~~

The remaining life of this component has been extended at the request of the client.

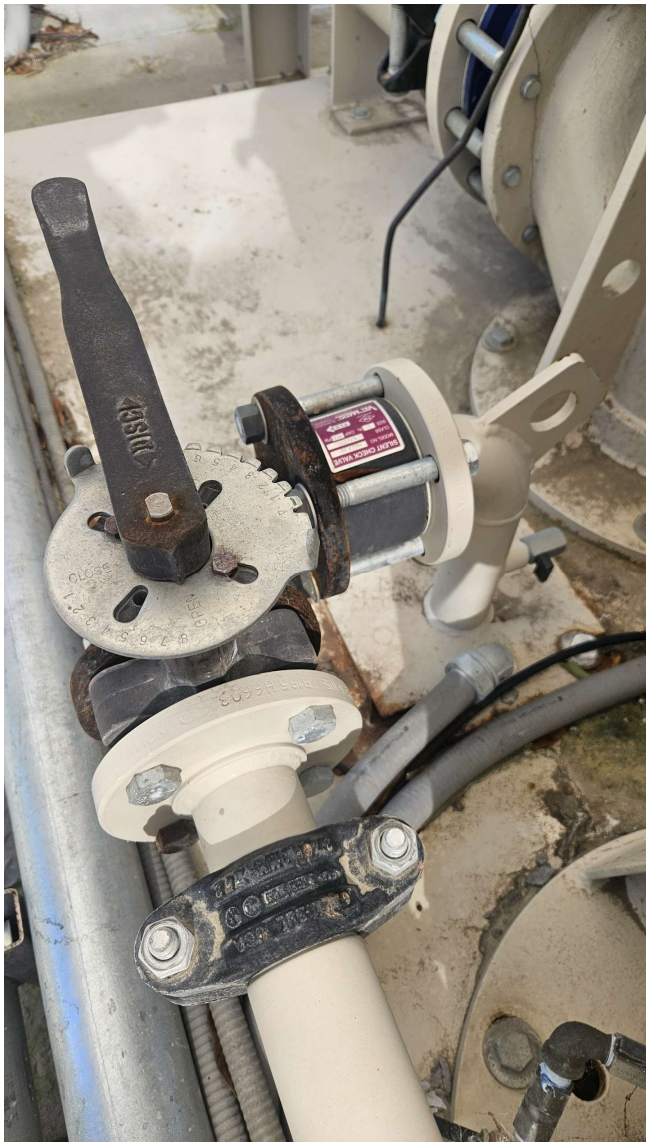
Funding Request

To: Board of Directors

From: Matthew Hoyt, CGCS – Golf & Grounds Superintendent

Date: 1/14/2026

Pressure Maintenance Pump:



It was recently discovered that the pressure maintenance pump at the SOUTH pump station has a ruptured riser pipe inside the wet well.

This pump is integral in the efficient function of the pump station. This small submersible pump continually turns on and off to maintain system pressure in idle times when the system is not actively irrigating. This is an energy savings as it allows the larger horsepower pumps to remain dormant and not cycle on/off just to maintain small system pressure drops.

Due to the late submission from or pump contractor the golf and grounds department is recommending activating the annual pump station repair provision. This annual provision is set aside specifically in the reserve fund for repair items such as this.

Activating this provision would be an unscheduled reserve expense not to exceed: NTE: $5,000

Reserve Component Detail:

Heritage Palms Homeowners Association

Component Detail

Directed Cash Flow Calculation Method; Sorted By Category

Golf Course - Pumps, Repair

Category	090 Golf Course	Quantity	1 provision
		Unit Cost	$5,304.50
		% of Replacement	100.00%
		Current Cost	$5,304.50
Placed In Service	10/2023	Future Cost	$5,150.00
Useful Life	1		
		Assigned Reserves at FYB	$5,000.00
Remaining Life	0	Monthly Member Contribution	$235.93
Replacement Year	2025-26	Monthly Interest Contribution	$3.60
		Total Monthly Contribution	$239.54

Interim repairs or replacements of a portion of the "North Pump Station" and "South Pump Station" may be required through time. For the purposes of this analysis, we have provided a $5,000 annual provision for major repairs of the pumps throughout the community; expenses in excess of this provision should be addressed using the association's operating and/or reserve contingency funds.

This component, and all information contained herein, has been provided by the client and incorporated into this analysis at their request.