



**GEO Certified<sup>®</sup>**

# GEO Certified<sup>®</sup> Report Dirab Golf & Country Club

Prepared by independent verifier, Alexandra Almeida

Certified by GEO Foundation: October 2022  
Valid until: October 2025

**GEO Certified<sup>®</sup>**

 **GEO  
Foundation**  
Sustainability in and through golf

*'Dirab Golf & Country Club has demonstrated a solid understanding of major sustainability themes throughout this certification process. Management from the top level to the individual teams on the course, facilities and infrastructure, catering, retail and human resources are committed to working together – providing an excellent golf course for people and nature, and an asset to the community.'*

Alexandra Almeida

*(GEO accredited independent verifier)*



# Introduction

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GEO Foundation is pleased to confirm that **Dirab Golf & Country Club** has successfully achieved GEO Certified® status for its outstanding work to foster nature, conserve resources and support the community.

GEO Certified® is the most respected certification for golf, based on a credibly and transparently developed modern sustainability Standard of best practice.

**Dirab Golf & Country Club** has:

1. Met the required certification criteria for sustainable golf operations
2. Successfully completed the official third-party verification process
3. Successfully passed the final evaluation by GEO Certification Ltd. (autonomous subsidiary of GEO Foundation)

GEO agreed with the conclusions of the official verification report, that, having achieved all mandatory criteria; and with specific Continual Improvement Points (CIP) set for the future, **Dirab Golf & Country Club** should be awarded GEO Certified® status.

For the certification period stated above, **Dirab Golf & Country Club** can therefore claim a position as a leader in advancing sustainability in golf – making important contributions in protecting nature, conserving resources and strengthening communities.

The GEO Certified® Report that follows comments on the actions undertaken against the criteria, as observed by the independent verifier during the assurance process.

Certification is nearly always the result of a dedicated team effort resulting in many practical and valuable social and environmental results around the golf course, maintenance facility and clubhouse. These dedication and leadership qualities are an important part of ensuring the resilience of the golf facility and the golf industry into the future and also as part of society's wider effort to pull together for people and planet.

We congratulate all involved.

Jonathan Smith  
Founder and Executive Director, GEO Foundation  
GEO Certification Ltd. Board Member

Kelli Jerome  
Executive Director, GEO Foundation

Richard Allison  
Manager, GEO Certified Facilities



# Verification and Certification

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## Verification

The official third-party audit was carried out by an independent verifier, accredited by GEO to undertake verifications of golf facilities applying for certification.

Verification involves reviewing practices and data, using the International Voluntary Standard for Sustainable Golf Operations as the guide to ensure comprehensive and consistent evaluation of performance. A detailed verification report is submitted for evaluation by GEO Certification Ltd, a subsidiary of GEO Foundation.

## Certification

GEO Certification Ltd, an autonomous subsidiary of GEO Foundation [both not-for-profit entities], undertook a full review of all content submitted through the OnCourse® online platform and the report submitted by the verifier, ensuring:

- Comprehensiveness – that activities undertaken touched on all elements of the Standard
- Consistency – that the verification approach was balanced, well weighted and with consistent depth of evaluation across each theme
- Accuracy - matching the verification report with evidence submitted by the golf facility to ensure statements and claims were accurate

GEO Foundation is an international not-for-profit founded to advocate, support and reward sustainability in and through golf. Over more than ten years, the group has worked collaboratively with dozens of golf industry associations and government and non-government organisations around the world, to help golf become a sustainability leader, striving for a net positive social and environmental impact. In addition to managing and assuring GEO Certified®, GEO Foundation also provides a suite of credible, practical programmes for golf facility management, new golf developments and golf tournaments called OnCourse®, often delivered in partnership with national golf bodies. Find out more at [www.sustainable.golf](http://www.sustainable.golf)

## Credibility

GEO Certified® is part of the ISEAL Alliance, a group of the world's foremost credible certification systems including Fairtrade, Rainforest Alliance, Forest Stewardship Council, Marine Stewardship Council and many others. GEO Foundation earned and retains full membership of the ISEAL Alliance global association following a rigorous evaluation against the ISEAL Codes of Credibility in Sustainability Standards and Certification. The ISEAL Codes cover standard-setting, assurance, and monitoring and evaluation. Find out more at [www.isealalliance.org](http://www.isealalliance.org)



# Verifier's Report

The Sustainability Agenda for golf covers the following themes and action areas:

THEMES	ACTION AREAS
<b>Nature</b>	<ul style="list-style-type: none"> <li>• Habitats &amp; Biodiversity</li> <li>• Turfgrass management</li> <li>• Pollution prevention</li> </ul>
<b>Resources</b>	<ul style="list-style-type: none"> <li>• Water</li> <li>• Energy</li> <li>• Materials</li> </ul>
<b>Community</b>	<ul style="list-style-type: none"> <li>• Partnerships &amp; Outreach</li> <li>• Golfing &amp; Employment</li> <li>• Advocacy &amp; Communications</li> </ul>

Included below are the observations made by the Independent Verifier against each item in the Standard.

NATURE			
N1 Habitats and Biodiversity			
Objectives	Requirements	Mandatory Practices	Verifier Notes
N1.1 Understand the site and surroundings	N1.1.1 Sound understanding of the nature and landscape value of the site	Map all habitats and vegetation types on the site; Regularly update landscape / biodiversity surveys	Confirmed mapping of the site. The club has established and maintained documented information of flora.

			<p>The following areas were inspected during the site visit: wadi, desert areas and nature conservation areas / wildlife sanctuaries.</p> <p>Confirmed native trees and shrubs planted on the golf course.</p> <p>Implement a biodiversity management plan for the wildlife sanctuaries <b>(CIP)</b></p> <p>Record and monitor fauna found on site <b>(CIP)</b></p> <p>Upload wildlife and native trees surveys on the GEO platform <b>(CIP)</b></p>
	<b>N1.1.2 Knowledge of legal designations for protected areas, habitats and species</b>	Understand legal responsibilities for protected landscapes and species; Record and monitor protected, endangered, or rare species found on the site	The superintendent has knowledge of the native plant species occurring on site.
	<b>N1.1.3 Understanding and respect for cultural heritage</b>	Protect any archaeological, historical or cultural designations on the site	Not applicable
<b>N1.2 Opportunities to naturalise the course</b>	<b>N1.2.1 Measures taken to identify and minimise the required area of managed turfgrass</b>	Observe, track and / or monitor golfer play	Confirmed effort made to reduce turfgrass area (4.62 ha), number of turf lines in irrigation and irrigation upgrade (new part-circle sprinklers) to reduce water consumption.
<b>N1.3 Actively manage habitats for wildlife</b>	<b>N1.3.1 Projects to manage habitats in the best way for wildlife and golf</b>	Regularly review and follow a habitat management plan; Prioritise native species when planting and landscaping	The club has implemented a land management plan which includes environmentally sensitive areas and a list of native plant species that are well adapted to the local environment.
<b>N1.4 Conserve key species</b>	<b>N1.4.1 Practical conservation measures for priority species</b>		<p>Environmentally sensitive areas identified. Information of wildlife and native trees will be displayed on the golf course.</p> <p>Removal of 25 invasive trees and planting of 25 native trees.</p> <p>The club installed a bird house on the 3<sup>rd</sup> Tee.</p> <p>Maintain an in-situ native plant nursery for all KSA golf courses <b>(CIP)</b></p>
<b>N2 Turfgrass</b>			
	<b>N2.1.1 Appropriate turfgrass varieties</b>	Select appropriate grass species for climate	Confirmed use of warm season turf grasses, namely <i>Cynodon dactylon</i> and seashore paspalum ( <i>Paspalum vaginatum</i> ), considered drought tolerant.

<b>N2.1 Maintain optimum turf and soil health</b>	<b>adapted to climatic and other geomorphological factors</b>		
	<b>N2.1.2 Practices to maintain good soil structure and condition</b>		Course management plan includes soil monitoring and physical maintenance, in form of topdressing, scarification, hollow coring and verticutting to relive compaction and maintain low thatch.
	<b>N2.1.3 Careful and responsible fertiliser application throughout the year to avoid over-fertilisation</b>	Undertake soil tests and nutrient analysis	Soil testing is undertaken regularly to determine the need for inputs or other intervention.  Fertilizer applications are planned based upon soil test information and environmental conditions.
<b>N2.2 Prioritise mechanical maintenance</b>	<b>N2.2.1 Non-chemical pest, disease and weed management</b>	Sharpen mowing blades; Remove surface moisture; Hand weeding	The quality of the playing surface is based on proper watering, balanced use of chemical controls and pest monitoring.  Implement non-chemical control strategies in addition to chemical control (Integrated Pest Management -IPM) <b>(CIP)</b>
<b>N2.3 Use chemicals responsibly</b>	<b>N2.3.1 Application of chemicals only when necessary to prevent or cure defined / identified turf health issues</b>	Establish patterns and levels of risk for pests and diseases; Scout the course daily for early signs of pests and disease; Accurate pest and disease identification; Map and track pest and disease hotspots; Establish pest and disease thresholds	Discussed appropriate choice of pesticides and application methods through the use of IPM.
	<b>N2.3.2 Application of chemicals with full safety precautions</b>	Use only legally registered and approved products; Ensure staff are fully qualified and licenced to use pesticides; Regularly calibrate and test applicators; Use appropriate protective equipment; Dilute and dispose of leftover product on untreated areas of turf	Pesticides are applied in accordance with label instructions, under appropriate environmental conditions and by qualified persons with proven methods and appropriate material.  Confirmed use of personal protective equipment (PPE) appropriate for the pesticide in use.  Sprayers / equipment have been tested for accurate and safe application.
<b>N3 Pollution Prevention</b>			
<b>N3.1 Prevent pollution across the entire site</b>	<b>N3.1.1 Practical measures to ensure pollution risks are</b>	Document procedures for emergency spill responses; Maintain mowing buffer zones around water and all ecologically sensitive areas;	Discussed and confirmed emergency responses. The superintendent has implemented an emergency plan with procedures for handling sudden or unexpected situations.

	<b>minimised from golf course operations</b>	Maintain spraying and spreading buffer zones around water and all ecologically sensitive areas; Create a map / aerial visual reproduction, drawing etc of the course showing buffer zones and no-spray, no-spread areas.	The MSDS sheets have been collected for all the fertilizers and chemicals and are stored appropriately in case of a fire or emergency. MSDS are updated when new chemicals and fertilizers are delivered.  Create digital maps of the course showing buffer zones and no-spray, no-spread areas <b>(CIP)</b>
	<b>N3.1.2 Practical measures to ensure pollution risks are minimised from clubhouse operations</b>	Ensure all hazardous materials are safely and securely stored; Ensure compliance with all required standards and systems for hazardous waste and wastewater discharge	Initiate a comprehensive program for recycling, reuse and waste reduction at the clubhouse <b>(CIP)</b>
	<b>N3.1.3 Practical measures to ensure pollution risks are minimised from maintenance facility operations</b>	Ensure wash areas are on impermeable, leak-free surfaces; Mixing and loading of pesticides and fertilisers over an impermeable surface; Triple rinse pesticide containers and applicators	Temporary spill kits (sand) are in place, next to chemical storage areas, fuel and oil areas. The club has started the procurement process of proper spill kits.  The temporary pesticide storage area is locked and secured. The club has started the process of acquiring of chemical container.  Temporary wash pad installed.
<b>N3.2 Safely manage hazardous substances</b>	<b>N3.2.1 Legal compliance in the storage, handling, application and safe disposal of all hazardous substances</b>	Maintain a register of hazardous materials available to authorised staff; Safe storage in secure and ventilated concrete or metal building; Sufficient storage capacity; Impermeable flooring; Spill containment kits present; Emergency wash area; Fire extinguisher in the immediate area; Secondary containment for fuel, either externally constructed, or integrally manufactured; Regular inspection of storage tanks	A new maintenance facility is in the planning stage.  Install a secondary containment for the above ground fuel storage tank and oil drums storage <b>(CIP)</b>  Confirmed regular inspection of storage tanks.
<b>N3.3 Responsibly manage waste / storm water</b>	<b>N3.3.1 Appropriate wastewater usage and discharge licences</b>	Wastewater discharge licence; Appropriate treatment of machinery wash water (impermeable surface, oil / grease / clipping separation)	Temporary wash pad installed.  Bunding for diesel tank has been ordered at time of report.



## RESOURCES

### R1 Water

Objectives	Requirements	Mandatory Practices	Verifier Notes
<b>R1.1 Minimise water demand</b>	<b>R1.1.1 Measures to reduce the need to consume water</b>	Target irrigation to essential playing surfaces only	The club has initiated a turfgrass reduction programme to minimise areas requiring high maintenance, including fertility, mowing and irrigation.
<b>R1.2 Maximise water efficiency</b>	<b>R1.2.1 Practical measures to use water more efficiently on the golf course</b>	Conduct regular irrigation performance checks; Provide staff training on efficient irrigation practices; Ensure effective application of water to target areas; Ensure irrigation schedules are informed by weather patterns and soil moisture analysis	Weather and evapotranspiration rates are taken into consideration when scheduling irrigation.  The club has implemented water management plan and improvements are being made in the irrigation system to improve the efficiency of the golf course irrigation.  The new irrigation system has been procured and the purchase order has been issued, installation is planning to be completed by October 2022. The fairway and rough sprinklers are also being replaced with part circle sprinklers on the rough edges.
	<b>R1.2.2 Practical measures to use water more efficiently in buildings</b>	Audit water use regularly; Review bills frequently and look for irregularities; Encourage water-saving practices amongst staff and visitors; Categorise and track water consumption	Water use is recorded and monitored for both irrigation and potable consumption.
<b>R1.3 Source water responsibly</b>	<b>R1.3.1 Measures towards alternative, lower quality sources of water</b>	Ensure appropriate water abstraction permit and reporting, as required	Source of water for irrigation is groundwater. The club is authorized to use the water from the boreholes.  Analyse potential alternative source of irrigation water, i.e. recycled community grey water <b>(CIP)</b>

### R2 Energy

<b>R2.1 Reduce energy demand</b>	<b>R2.1.1 Measures to reduce the amount of energy</b>	Minimise areas of managed turf to reduce mowing, irrigation, and turf inputs	The club has initiated a turfgrass reduction programme to minimise areas requiring high maintenance, including fertility, mowing and irrigation.
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	consumed in course maintenance		Discussed land management plan and wildlife corridors that can be managed by the club.
<b>R2.2 Maximise energy efficiency</b>	<b>R2.2.1 Measures to use energy and fuels more efficiently in buildings</b>	Audit energy use regularly; Regularly review bills; Categorise and track energy consumption	Energy bills are reviewed monthly and energy consumption at the clubhouse and maintenance facility is monitored monthly.
<b>R2.3 Source energy responsibly</b>	<b>R2.3.1 Measures to source alternative, renewable forms of energy</b>	Determine potential sources of renewable energy in the area and on-site, through renewable energy providers	Analyse potential sources of renewable energy in the area and on-site <b>(CIP)</b>
<b>R3 Materials</b>			
<b>R3.1 Reduce materials demand</b>	<b>R3.1.1 Products and materials selection based on necessity, including opportunities for recycled, reused and locally sourced alternatives</b>	Undertake a review of materials consumed	Start a composting program and install a composting unit on-site <b>(CIP)</b>
<b>R3.2 Purchase responsibly</b>	<b>R3.2.1 Practical use of an ethical / environmental purchasing policy</b>	Adopt a sustainable, or ethical / environmental purchasing policy to maximise the use of locally sourced goods and goods made from recycled, recyclable and certified materials	Restaurant primarily sources local produce.  Consider replacing some accessories of the course, e.g. benches, course poles/fence and tee signs, garbage bins and flag poles, by new ones made from environmentally friendly material. <b>(CIP)</b>
<b>R3.3 Reuse and recycle</b>	<b>R3.3.1 Waste stream separation for maximum recycling and re-use opportunity</b>	Demonstrate waste separation, reuse and recycling; Track how much waste goes to landfill, or is reused / recycled	Initiate a comprehensive program for recycling, reuse and waste reduction <b>(CIP)</b>
<b>R3.4 Demonstrate legal compliance</b>	<b>R3.4.1 Compliance with all local and regional waste management regulations</b>	Use authorised waste and recycling contractor for general, hazardous, industrial and green waste	See N3.1.1

## COMMUNITY

### C1 Outreach

Objectives	Requirements	Mandatory Practices	Verifier Notes
C1.1 Diversify access and provide multi-functionality	C1.1.1 Social and recreational activities at the facility		Clubhouse is open to the community, organises club tournaments open to all ages and categories. The club has implemented a junior program.  creating a digital newsletter that goes out to members and community, to share sustainable actions at each golf course <b>(CIP)</b>
C1.2 Provide for volunteering and charity	C1.2.1 Opportunities available for volunteering and support of charities and good causes		
C1.3 Establish active community partnerships	C1.3.1 Positive and constructive engagement with neighbours, the local community and other groups	Create a 'sustainability working group'	Initiate a working group to assist sustainability across departments and ensure continuity if staff leave <b>(CIP)</b>

### C2 Golfers & Employees

C2.1 Improve health and wellbeing	C2.1.1 Benefits to human physical and mental health from golf and facility activities		There is awareness of the benefits provided to mental and physical health.
C2.2 Be open and inclusive	C2.2.1 Inclusivity and diversity in membership and visitor policies	Demonstrate inclusive policies for members and visitors	Friendly, family-orientated facility that welcomes golfers and non-golfers alike to enjoy a host of golf and leisure activities
C2.3 Employ fairly and safely, and provide career opportunities	C2.3.1 Ethical and legal employment, working conditions and professional development	Follow all relevant national legislation and best practice for employment, health & safety etc	Ongoing training provided.

### C3 Communications

<b>C3.1 Engage golfers and members</b>	<b>C3.1.1 Communications activities that raise awareness and understanding amongst members and visitors</b>	Provide information on the facility's sustainability commitments, actions, or achievements	Post a site map of environmentally sensitive areas at the entrance to the clubhouse where members / visitors are sure to see it to explain the importance of protection measures and the need to avoid any activity in environmentally sensitive areas <b>(CIP)</b>
<b>C3.2 Celebrate and promote sustainability</b>	<b>C3.2.1 Activities that raise awareness and engage people in the wider community</b>	Provide evidence of external communications and community engagement	Encourage players and visitors to learn about resident or migratory wild birds, through the creation of a "Bird of the Month" initiative <b>(CIP)</b>

## Golf and Sustainability

Among all sports, golf has a particularly close relationship with the environment and communities, golf facilities can bring many benefits to people and nature - from the protection of greenspace and conservation of biodiversity; healthy recreation for all ages; local supply chains; and jobs, tourism and other forms of economic value.

Adopting a more sustainable approach is also good for golf. It's about presenting a high-quality golf course and providing a memorable experience in natural surroundings. It's about being as efficient as possible. And it's about supporting the community in a range of ways that bring increased recognition, respect and contact.

At a broader level, it's important that golf credibly demonstrates its commitment, and its social and environmental value – strengthening the sport's image and reputation for the long term.

Golf facilities that participate in OnCourse®, an international sustainability initiative assured by the non-profit GEO Foundation, are taking a comprehensive approach and striving to be leaders in the community.

Find out more at [www.sustainable.golf](http://www.sustainable.golf)