

WELCOME PARTICIPANTS



Sustainable Maintenance Practices on Greens and Bunkers at

Royal Lakeside Golf Club

Chachoengsao, Thailand

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Golf Course Superintendent





ROYAL
LAKESIDE
GOLF CLUB AT BANGPAKONG

Short History of Royal Lakeside Golf Club



- Opened in 1993 (30 years Old)
- Minor Renovation 2011
- Construction Consultant
Sumitomo Construction Company
- Turf:Greens – TifEagle
- Turf:Fairways/Rough - Local Zoysia
(Zoysia japonica)
- 18 Holes - Par 72
- 7003 Yards from the Black Tees

Condition of the Golf Course November 2019

August 2020 Sports Turf Solutions STS Thailand, was hired as consultant to help rehabilitate the condition of the golf course starting with the Greens



Green 16



Green 17



Green 5



Green 5 Nov 2019

Gathering Data/Information on Problem Greens



Steps Implemented to Recondition the Greens/Bunkers

• GREENS

- Soil Test Analysis
- Use of Wetting agents, Penetrants, Moisture meter, EC Tester(Electrical Conductivity) Sodium(Na) content.
- Combined use of Foliar Fertilizer with PGR(Plant Growth Regulator) and Granular fertilizer
- Coring Tines (Hollow and Solid)
- Dust and Groom Program

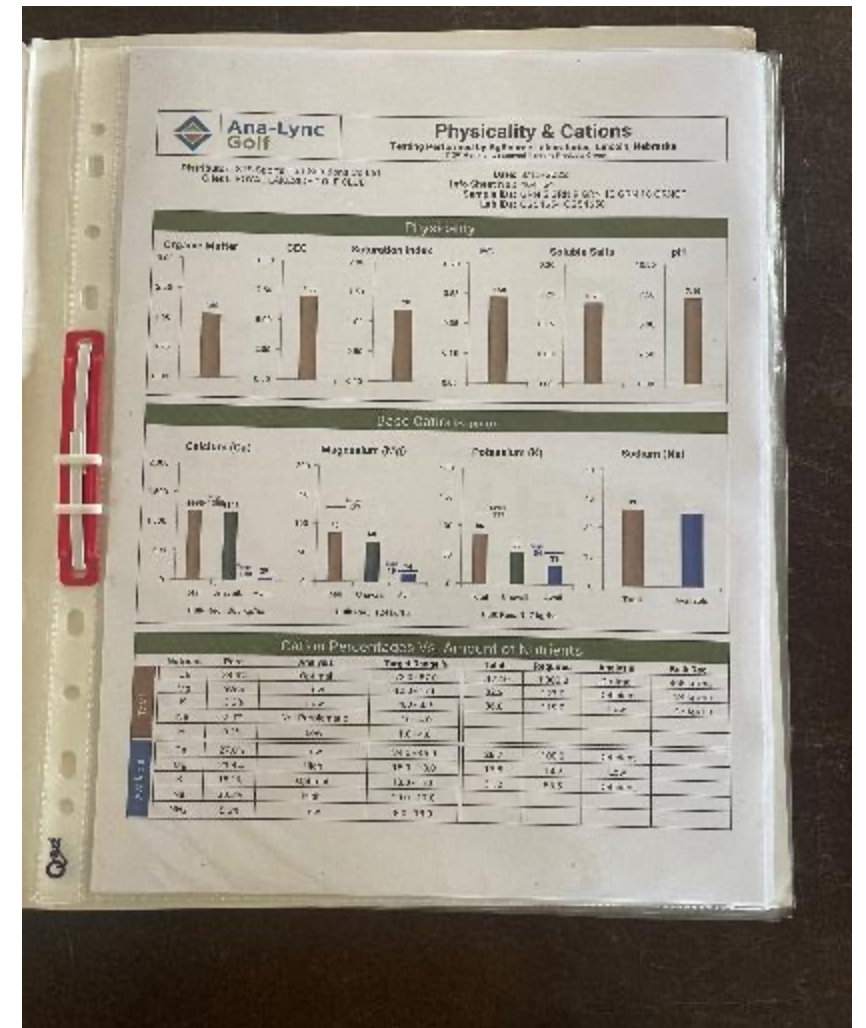
• BUNKERS

- Regular Fertilization, Application of wetting agents, penetrants, insecticide.
- Use of Geotextile (separate sand from ground dirt)
- Use of Sandtrappers on bunker faces
- DURABUNKERS

Soil Analysis

(Stop Guessing)

- The result of this analysis identify elements/properties in the growing medium
- This eliminates the guess work of Turf Managers and saves them time.
- Base from these result Turf Managers can formulate both there fertilization and cultural program at least for another 6 months to 1 year, depending on what condition they want to accomplish.



Use of Wetting agents, Penetrants, Moisture meter, EC Tester(Electrical Conductivity) Sodium(Na) content.

(Invest in these tools)
Moisture Meter

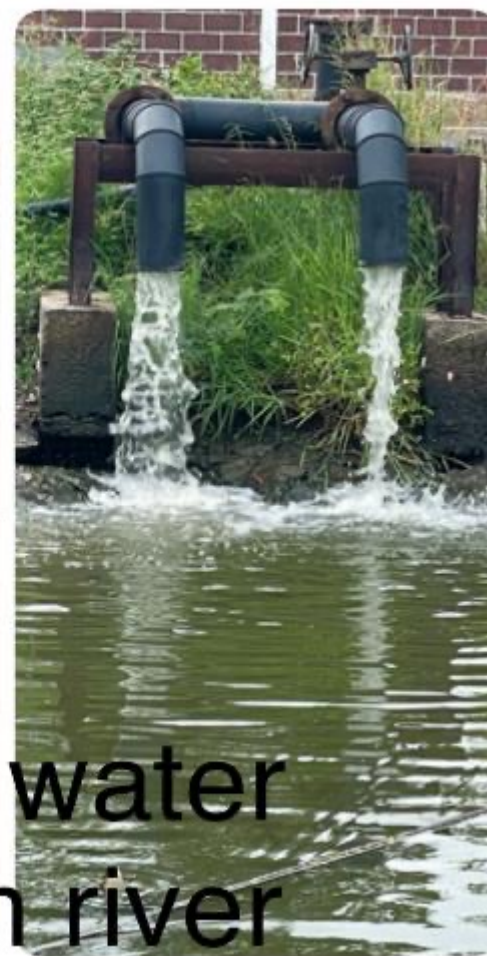


Regular Checking the Electrical Conductivity of Water

Bangpakong River, Chacheongsao, Thailand



Checking the salinity of water



Pump water
in from river

Wetting and penetrants Agents for Retention and Percolation

Over all Application



Spot Application



Pellet Applicator Hose attachments and Pellets



Combined use of Foliar Fertilizer + PGR(Plant Growth Regulator)

Floratine Foliar Fertilizer mix + Primo Maxx (PGR)



Granular Fertilizer



Core/Vertidrain Program (Hollow and Solid Tines)



- Tractor attached vertidrain Unit

Hollow and Solid type tines

18,12,8mm Solid Tines
3/8, 5/8, Ninja Hollow Tines



Dust and Groom Program

Light Sand Application



Groom over the Sand

(Groomer Back Track, set at 0.0mm)



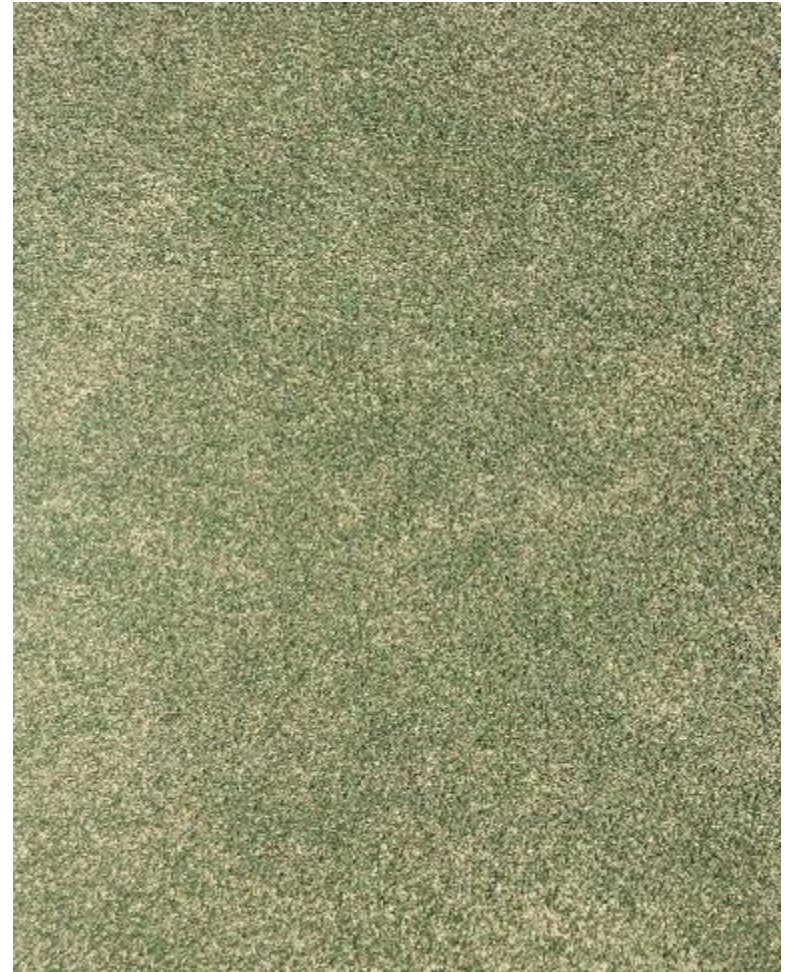
No Baskets on Triplex

(Do not worry about the grass clippings)



Clean sand no effect on Putting surface condition

Sand tucked between spaces/turf gaps



Bunkers

(DuraBunkers stormproof)

- **BUNKERS**

- Regular Fertilization, Application of wetting agents, penetrants, insecticide.
- Use of Geotextile (separate sand from ground dirt)
- Use of Sandtrappers on bunker faces

- **DURABUNKERS**



Regular Application of fertilizers wetting agents, penetrants, insecticide, Herbicide.



Herbicide + Foliar Fertilizers



Fertilize bunkers



Use of Geotextile and Sandtrappers on bunker slopes

(concrete sand from ground/Holds sand on slope)





DURABUNKERS



Before and After pictures of some bunkers





Clear response of the turf to the maintenance program Implemented at Royal Lakeside Golf Club. Green 10

November 2019



April 2023



Putting Green

November 2019



April 2023



Green 16

November 2019

April 2023



Green 17

November 2019

April 2023



Green 5

November 2019



April 2023

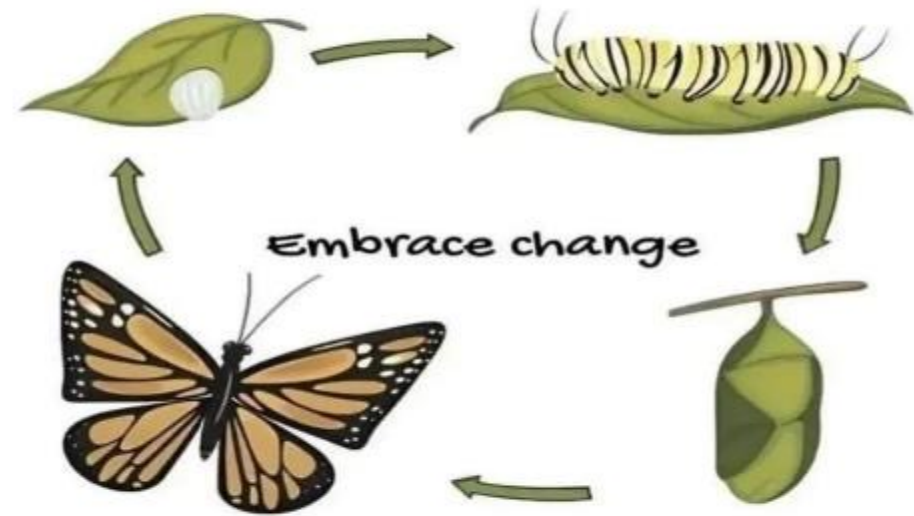


Sustainability is a choice with a proper mind set (Turf grass selection)

STS Thailand Sustainable Turf Farm



Metamorphosis
(what does not kills you can
makes you stronger)



Royal Lakeside Golf Club, Thailand





LPGA Players practicing at Royal Lakeside Golf Club

Pro Saipan

Pro Yuka and Pro Meaw



THANK YOU TO THE ORGANIZERS AND PARTICIPANTS
OF THE
8TH Philippine
Golf Course Management Conference

Please follow us @



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