PROPOSED EXTENSION OF HORTICULUTRAL NURSERY WITH NEW GLASSHOUSE AT ROOKERY FARM, HOLBEACH ST. JOHNS.

Surface Water Drainage

The existing glasshouse on site discharges to a nearby reservoir whilst the offices and packing shed discharge to separate storage tanks.

Capacity of the reservoir is 947 cu.m. whilst the storage tanks have a total capacity of 75000 litres (75cu.m.)

The reservoir capacity enables rainfall to be stored during the winter months and provide all year round irrigation of the existing glasshouse whilst also having to purchase mains water from Anglian Water.

The increase in glasshouse area will enable additional rainfall run-off to be stored in the existing reservoir such that its capacity is sufficient whilst at the same time allowing the additional water to be recycled for plant watering.

Summary

Existing glasshouse area is 1000 sq.m Rainfall is 600mm
Total volume of surface water run-off is 600 cu.m.
Whilst the reservoir capacity is 947 cu.m.
Plant Water Irrigation is at least 1200 cu.m.

Future glasshouse area is 2842 sq.m.. Rainfall is 600mm
Total volume of surface water run-off is 1705 cu.m. with reservoir capacity remaining at 947 cu.m.
Plant water irrigation is estimated to be 3360 cu.m.

Conclusion

The increase in surface water run-off from the extended glasshouses area will not cause any adverse impact to the surrounding land as plant water irrigation will have increased pro-rata and well above the present operations.

Geoff Beel Consultancy
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