

Quote Ref: SNQ2648

27<sup>th</sup> March 2025

David High  
St Asaph Office  
Units 21 & 22  
c/o Glyndŵr Innovations Ltd  
St Asaph  
Denbighshire  
LL17 0LJ

Dear David

**Re: Sewage Treatment Plant for Bryntysilio**

Thank you for giving EWwS this opportunity to offer our proposal for the wastewater treatment plant. We now enclose our proposal and comments for process related issues which we hope are useful.

We agree with your analysis of the flows at this site, we have adjusted the loads slightly as we recommend that you upgrade the BOD and Ammonia incoming loads as we feel this has been slightly underestimated.

**Design Parameters**

Temperature	12°C – 20°C (assumed wastewater temperature)
Flow (DWF)	7.61m <sup>3</sup> /d (Dry weather)
Peak Flow rate	0.95m <sup>3</sup> /hr (Dry weather)
BOD load	4kgBOD <sub>5</sub> /day (525mg/l @ DWF)
NH <sub>4</sub> -N load	698kgNH <sub>4</sub> -N/day (92mg/l @ DWF)

**Final Effluent Standard – Option 1**

BOD	< 15mg/l
TSS	< 20mg/l
NH <sub>4</sub> -N	< 8mg/l
TP	< 0.5mg/l

**RBC packaged plant E-50 SHR as per drawing No GA0058 Issue 6**

We offer our E-50 SHR packaged RBC treatment plant in GRP casing with covers. The RBC will be driven by a 0.18Kw close coupled shaft mounted geared motor.

## **Final Effluent Standard – Option 2**

BOD	< 6mg/l
TSS	< 15mg/l
NH <sub>4</sub> -N	< 3mg/l
TP	< 0.5mg/l

### **RBC packaged plant E-100 SHR as per drawing No GA0059 Issue 6.**

We offer our E-100 SHR packaged RBC treatment plant in GRP casing with covers. The RBC will be driven by a 0.37Kw close coupled shaft mounted geared motor.

To meet the required ammoniacal nitrogen discharge limit, if alkalinity is deficient, it may be necessary to buffer alkalinity and dose Sodium Bicarbonate via a chemical dosing system. We have included for a chemical dosing unit with overhead mixer within our quotation (chemicals not included).

To meet the required Phosphorous discharge limit, it will be necessary dose Polyaluminium chloride (PAC) via a chemical dosing system. We have included for a chemical dosing unit within our quotation (chemicals not included).

Please note that Total Phosphorous will include both organic and inorganic phosphorous, most organic phosphorous would be from human excrement but inorganic phosphorous would be from cleaning materials used in houses. We can coagulate inorganic phosphorous, but organic phosphorous will be consumed in the biological process and therefore the removal rates cannot be guaranteed, hence we have stipulated the outlet TP to be <0.5mg/l and not 0.3mg/l.

The delivered unit would be ready to be installed on a concrete slab for levelling and concrete backfilling. For this a suitable crane will be required to offload the units from the lorry. EWwS have not included for a crane for offloading at site.

We trust the above meets with your requirements. Should you need to discuss any details above, please do not hesitate to contact us on +44 (0) 756 555 3944 or +44 (0) 1442 957 875

Yours sincerely



Carlos Mateus  
Sales  
EWwS Ltd

Company Registration Number 11960958



## Environmental Wastewater Solutions (EWwS) Limited

### Quotation

Client: Caulmert Ltd

Date: 27.03.2025

Site: Bryntysilio

#### Option 1

##### E-50 SHR RBC packaged plant– as per drawing No GA0058-6

E-50 SHR packaged sewage treatment plant in GRP casing with single skin sectional interlinked GRP covers and including a weatherproof control panel.

**Price for 1 x E-50 SHR packaged plant = £32,500.00 delivered**

#### Option 2

##### Reconfigured and optimised E-100 SHR RBC packaged plant for option 2 outlet criteria

– as per drawing No GA0059-6

E-100 SHR packaged sewage treatment plant in GRP casing with single skin sectional interlinked GRP covers and including a weatherproof control panel.

**Price for 1 x E-100 SHR packaged plant = £45,950.00 delivered**

#### **Items required for either option.**

1 No Alkalinity Chemical dosing unit with pump, 500L tank and overhead mixer.

**Price for Chemical Dosing unit = £7,995.00 delivered**

1 No PACS Chemical dosing unit with pumps and 500L tank.

**Price for Chemical Dosing unit = £6,895.00 delivered**

Company Registration Number 11960958



## Terms and Conditions

Validity of Quotation:	This quotation is open for 30 days from the quotation date.
Terms of payment:	30% non-refundable deposit with order. 70% balance is payable on notification that the equipment is ready for delivery at the agreed delivery date unless agreed otherwise. Please note that changes to the payment terms shall have an impact on the prices quoted.
Storage:	EWwS will aim to have the unit(s) ready during the agreed delivery week; once the units are ready for delivery during the agreed delivery week, payment will become due. For delayed deliveries for any reason, storage will be charged on a weekly basis. Rates will vary from project-to-project
VAT:	VAT is excluded from the prices quoted and will be charged if applicable at the rate current at the time.
Support:	We strongly advise that the Packaged Plants and RBCs are process optimised after the plant has been fully process commissioned. EWwS will be available to offer office-based support as necessary. Site based support can also be offered. Our normal day rate is £500.00 per man day or part man day spent away from EWwS offices.
Documentation:	We will provide all reasonable technical support and documentation to ensure that the equipment is optimised to be fit for purpose.
Terms & Conditions:	Please note that this quotation is subject to EWwS Ltd standard terms of sales.