



**RE: AC190017 : P0665 - Bike Park Wales, Merthyr Tydfil - PTP**

**From** Chris Quinn <chris.quinn@kingspan.com>  
**Date** Thu 11/12/2025 10:52  
**To** Paolo Carnevale <Paolo@bear-consult.com>  
**Cc** Walter Hung <Walter@bear-consult.com>; Martin Astley <martin@bikeparkwales.com>; Paul Howe <paul.howe@kingspan.com>

Hi Paolo,

My apologies.

Please find your revised quote below with the correct loadings.

Unfortunately, we don't have specific performance data for this system achieving the 10/30/4 effluent standard. This is because each system is designed specifically to the site loadings with the effluent being determined on a site by site basis. You should be able to present the below to NRW, showing the effluent qualities that we have confirmed below the product description for confirmation.

<b>Site Summary:</b>	<p><b>Bike Park Wales</b>  <b>Site loadings as per table provided in email trail below.</b></p> <p><b>Grease Separator included in quote (to be installed underground and a minimum 10m from kitchen)</b></p> <p><b><u>All invert levels and gravity outlet TBC.</u></b></p> <p><b><u>Discharge TBC .</u></b></p> <table border="1"> <thead> <tr> <th colspan="4">Source of Waste</th> <th colspan="2">Flow: Litres/Day</th> <th colspan="2">BOD : Grams/Day</th> <th colspan="2">Amm : Grams/Day</th> </tr> <tr> <th>Description</th> <th>No</th> <th>Per Head</th> <th>Total</th> <th>Per Head</th> <th>Total</th> <th>Per Head</th> <th>Total</th> <th>Per Head</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Sites - Tent</td> <td>22</td> <td>75</td> <td>1650</td> <td>44</td> <td>968</td> <td>8</td> <td>176</td> <td></td> <td></td> </tr> <tr> <td>Amenity - Shower / per use</td> <td>40</td> <td>40</td> <td>1600</td> <td>19</td> <td>760</td> <td>2</td> <td>80</td> <td></td> <td></td> </tr> <tr> <td>Amenity - Toilet (WC) per use</td> <td>10</td> <td>10</td> <td>100</td> <td>12</td> <td>120</td> <td>2.5</td> <td>25</td> <td></td> <td></td> </tr> <tr> <td>Amenity - Toilet (WC) per use</td> <td>300</td> <td>10</td> <td>3000</td> <td>12</td> <td>3600</td> <td>2.5</td> <td>750</td> <td></td> <td></td> </tr> <tr> <td>Amenity - Shower / per use</td> <td>50</td> <td>40</td> <td>2000</td> <td>19</td> <td>950</td> <td>2</td> <td>100</td> <td></td> <td></td> </tr> <tr> <td>Sites - Tent</td> <td>40</td> <td>75</td> <td>3000</td> <td>44</td> <td>1760</td> <td>8</td> <td>320</td> <td></td> <td></td> </tr> <tr> <td>Sites Caravan - (ii) Static not service</td> <td>18</td> <td>100</td> <td>1800</td> <td>44</td> <td>792</td> <td>8</td> <td>144</td> <td></td> <td></td> </tr> <tr> <td>Restaurants - Fast Food i.e. Little C</td> <td>420</td> <td>12</td> <td>5040</td> <td>12</td> <td>5040</td> <td>2.5</td> <td>1050</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>Totals</b></td> <td><b>900</b></td> <td></td> <td><b>18190</b></td> <td></td> <td><b>13990</b></td> <td></td> <td><b>2645</b></td> <td></td> <td></td> </tr> </tbody> </table>	Source of Waste				Flow: Litres/Day		BOD : Grams/Day		Amm : Grams/Day		Description	No	Per Head	Total	Per Head	Total	Per Head	Total	Per Head	Total	Sites - Tent	22	75	1650	44	968	8	176			Amenity - Shower / per use	40	40	1600	19	760	2	80			Amenity - Toilet (WC) per use	10	10	100	12	120	2.5	25			Amenity - Toilet (WC) per use	300	10	3000	12	3600	2.5	750			Amenity - Shower / per use	50	40	2000	19	950	2	100			Sites - Tent	40	75	3000	44	1760	8	320			Sites Caravan - (ii) Static not service	18	100	1800	44	792	8	144			Restaurants - Fast Food i.e. Little C	420	12	5040	12	5040	2.5	1050													<b>Totals</b>	<b>900</b>		<b>18190</b>		<b>13990</b>		<b>2645</b>		
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Confirmation of products/prices: -

Quantity	Description/Model	Price
1	<b>Klargester BioDisc model NN having an inlet invert depth of 600mm, *maximum recycle*, gravity discharge and non-pedestrian duty covers.</b>	<b>£56,364.00</b>

1	<b>Supplied with control panel having integral loss of power and rotation alarms Deeper 1000 mm inlet depth <u>if required</u> for</b>	<b>£60,388.00</b>
1	<b>Feeding into Biotreat 13 – TTM4, 49m3 Media, 750mm Invert, 160mm Pipework</b>	<b>£33,845.00</b>
1	<b>GRP Floor Mounted Weatherproof Kiosk with flashing beacon</b>	<b>£1,100.00</b>
1	<b>Sample chamber</b>	<b>£175.00</b>
1	<b>Premium Commissioning for Commercial Treatment Plant</b>	<b>£900.00</b>
1	<b>NSG09 – 4,000 Litres Grease Separator, 9/ls</b>	<b>£3,451.00</b>

-

<i>Effluent Quality</i>	
BOD	10mg/l
SS	30mg/l
NH4N	4mg/l

Current Lead time:	35-40 working days from receipt of order (subject to daily change)
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Please see attached product files for further details.

Prices are nett - exclusive of VAT; include delivery to site but not offloading or installation.

Prices are valid for a period of 45 days and subject to Kingspan Klargester terms and conditions.

Delivery details will be confirmed after order placement – customer own offloading facilities will be required.

Please refer to the attached product brochures and drawings prior to the installation of your units.

It is the purchaser’s responsibility to ensure Building Regulations Document H2 is adhered to in regard to the maintenance of their units, all maintenance activity should be logged and the purchased should have suitable management plan in place. All Kingspan Klargester systems must be regularly inspected and should be maintained in accordance with our installation/operation instructions.

**IMPORTANT:** When installing the treatment plant, you should ensure that all surface water is excluded from the foul drain, as the plant is not designed to accept any form of ground/rainwater.

We trust our quotation and enclosures are sufficient for your immediate needs and look forward to further discussions regarding your project.

Please do not hesitate to contact us if we can be of any further assistance.

Kind regards,  
Chris

**Chris Quinn**  
 Technical Sales - Klargester  
**Klargester**  
 T: +44 1296 633 033 | M: +44 7880 093 004

**From:** Paolo Carnevale <Paolo@bear-consult.com>  
**Sent:** Thursday, December 11, 2025 10:31 AM  
**To:** Chris Quinn <chris.quinn@kingspan.com>  
**Cc:** Walter Hung <Walter@bear-consult.com>; Martin Astley <martin@bikeparkwales.com>; Paul Howe <paul.howe@kingspan.com>  
**Subject:** [EXTERNAL] RE: AC190017 : P0665 - Bike Park Wales, Merthyr Tydfil - PTP

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Thanks Chris.

Just two final things we need confirming:

- Your sizing sheet still shows the previous loading figures prior to the additional 18 no. motorhome residents. Could you please update it to align with our attached calculations? The revised maximum daily flow is now approximately 18.5 m<sup>3</sup>/day.
- If we were to replace the proposed horizontal reed bed (which was intended to provide tertiary treatment) with the Klargester BioTreat granular tertiary module, do you have performance data/test evidence demonstrating that the system will meet the required 10 : 30 : 4 effluent standards? NRW will require this as part of the permit application, so we will need some testing documentation confirming compliance and the values below have been met in testing.

## 2. Introduction

- 2.1 Standard effluent discharge permit is normally 20/30/20 for sewage treatment plant. This means 20 mg/l Biochemical Oxygen Demand (BOD), 30 mg/l suspended solids (SS) and 20 mg/l Ammonia (NH<sub>4</sub>).
- 2.2 Where improved effluent qualities are required, for example BODs of <5 mg/l, further 'tertiary' treatment of the effluent is required, and this can be achieved using the Tertiary Treatment Module(s).
- 2.3 On Third party testing when the Tertiary Treatment Module(s) is used alongside our Klargester BioDisc treatment plant, will reduce effluent by the following:

Filter Module	Description	% Removal
BOD <sub>5</sub>	Biochemical Oxygen Demand	99.2%
SS	Suspended Solids	99.3%
NH <sub>4</sub> -N	Ammonia	98.4%
TNb	Total Nitrogen	69.4%

- 2.3.a Approximate reduction values for the Tertiary Treatment Module(s) used in conjunction with another Treatment plant.

Filter Module	Description	% Removal
BOD <sub>5</sub>	Biochemical Oxygen Demand	77.8%
SS	Suspended Solids	75.8%
TNb	Total Nitrogen	19.8%

Many thanks

**Paolo Carnevale** BEng (Hons) MSc CEng MICE  
**Director**

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[www.bear-consult.com](http://www.bear-consult.com)



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**From:** Chris Quinn <[chris.quinn@kingspan.com](mailto:chris.quinn@kingspan.com)>  
**Sent:** 11 December 2025 09:58  
**To:** Paolo Carnevale <[Paolo@bear-consult.com](mailto:Paolo@bear-consult.com)>  
**Cc:** Walter Hung <[Walter@bear-consult.com](mailto:Walter@bear-consult.com)>; Martin Astley <[martin@bikeparkwales.com](mailto:martin@bikeparkwales.com)>; Paul Howe <[paul.howe@kingspan.com](mailto:paul.howe@kingspan.com)>  
**Subject:** AC190017 : P0665 - Bike Park Wales, Merthyr Tydfil - PTP

Hi Paolo,

Thanks for the information. With the additional loadings now taken into consideration (and also the reduced loadings at off peak times), and to achieve the desired effluent qualities, we would still propose the same Biodisc, but would add an additional treatment system (Biotreat) to ensure that the effluent qualities are met.

I have included our sizing sheet in the site summary below, which shows the flows as well as ammonia, suspended solids, & BOD

Please find your revised quote below.

<b>Site Summary:</b>	<p><b>Bike Park Wales</b>  <b>Site loadings as per table provided in email trail below.</b></p> <p><b>Grease Separator included in quote (to be installed underground and a minimum 10m from kitchen)</b></p> <p><b>All invert levels and gravity outlet TBC.</b></p> <p><b>Discharge TBC .</b></p>																																																																																																												
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We trust our quotation and enclosures are sufficient for your immediate needs and look forward to further discussions regarding your project.

Please do not hesitate to contact us if we can be of any further assistance.

Kind regards,  
Chris

**Chris Quinn**

Technical Sales - Klargester

**Klargester**

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**From:** Paolo Carnevale <[Paolo@bear-consult.com](mailto:Paolo@bear-consult.com)>  
**Sent:** Wednesday, December 10, 2025 5:09 PM  
**To:** Chris Quinn <[chris.quinn@kingspan.com](mailto:chris.quinn@kingspan.com)>  
**Cc:** Walter Hung <[Walter@bear-consult.com](mailto:Walter@bear-consult.com)>; Martin Astley <[martin@bikeparkwales.com](mailto:martin@bikeparkwales.com)>  
**Subject:** [EXTERNAL] RE: P0665 - Bike Park Wales, Merthyr Tydfil - PTP

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Chris

It's also worth mentioning that although the peak flow is 18.5 m<sup>3</sup>/day, the average over a typical week is around 11.7 m<sup>3</sup>/day, as shown on the attachment and the extract below. I appreciate that the PTP will ultimately need to be sized based on the maximum daily flow, but we also need to be mindful of the quieter days. The tank arrangements still need to maintain the required effluent quality when flows are significantly lower (on the Tuesday/Wednesday), so this should be considered in the overall configuration.

**Foul Water Flow Assessment Note**

**The calculated maximum daily foul water flow from the proposed development is 18.5 m<sup>3</sup>/day, based on full occupancy and peak usage assumptions in accordance with British Water Flows and Loads - 4. Actual site usage varies throughout the week and BPW has confirmed typical daily utilisation ranging from 20% to 100% of the maximum. This results in an expected average daily flow of approximately 11.7 m<sup>3</sup>/day over a standard operating week.**

**Monday – 70%; Tuesday – 20%; Wednesday – 20%; Thursday – 50%; Friday – 80%; Saturday – 100%; and Sunday –100%.**

Many Thanks

**Paolo Carnevale** BEng (Hons) MSc CEng MICE  
**Director**

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**From:** Paolo Carnevale  
**Sent:** 10 December 2025 16:51  
**To:** 'Chris Quinn' <[chris.quinn@kingspan.com](mailto:chris.quinn@kingspan.com)>  
**Cc:** Walter Hung <[Walter@bear-consult.com](mailto:Walter@bear-consult.com)>; Martin Astley <[martin@bikeparkwales.com](mailto:martin@bikeparkwales.com)>  
**Subject:** RE: P0665 - Bike Park Wales, Merthyr Tydfil - PTP

Hi Chris

Thanks for the response.

Regarding the max flow rate issue, we're planning to address this through discussions with NRW about amalgamating both permits, so we're not too concerned about the higher volume at this stage.

The water quality is the key issue. The motorhome guests will be using the onsite facilities, so we can't isolate this foul drainage to a separate PTP. Our preference would therefore be to install an additional Biotreat unit downstream of the PTP.

I'm copying in Martin (client) so he's aware of the additional PTP requirements. Would you be able to provide supporting evidence that this arrangement (NN max recycle tank + Biotreat tank) would meet the required water quality parameters?

Many thanks

**Paolo Carnevale** BEng (Hons) MSc CEng MICE  
**Director**



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**From:** Chris Quinn <[chris.quinn@kingspan.com](mailto:chris.quinn@kingspan.com)>  
**Sent:** 10 December 2025 16:31  
**To:** Paolo Carnevale <[Paolo@bear-consult.com](mailto:Paolo@bear-consult.com)>  
**Cc:** Walter Hung <[Walter@bear-consult.com](mailto:Walter@bear-consult.com)>  
**Subject:** RE: P0665 - Bike Park Wales, Merthyr Tydfil - PTP

Hi Paolo,

Unfortunately, due to the tight effluent quality required, we would need to change the spec.

Would they be able to separate the flows from the motor home to another smaller plant that we could offer solely for them? Alternatively, we could add an additional Biotreat tank to the end of a Biodisc to achieve this.

Unfortunately though, the flows for the site in total would be 18190 litres per day, which would be higher than the 10.2m<sup>3</sup> permitted in the newer permit.

Thanks  
Chris

**Chris Quinn**

Technical Sales - Klargester

**Klargester**

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**From:** Paolo Carnevale <[Paolo@bear-consult.com](mailto:Paolo@bear-consult.com)>  
**Sent:** Wednesday, December 10, 2025 2:47 PM  
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**Cc:** Walter Hung <[Walter@bear-consult.com](mailto:Walter@bear-consult.com)>  
**Subject:** [EXTERNAL] P0665 - Bike Park Wales, Merthyr Tydfil - PTP

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Hi Chris

Thanks again for all your help on this project to date.

We've met with the client and have updated the proposals slightly. The 18 guests from the motorhomes will now use the on-site facilities, which increases the loading on the PTP - please see the attached SKc04 calculation summary.

Could you confirm whether the NN max recyclable unit is still suitable based on these revised flows?

Our aim is for the final effluent leaving the PTP to comply with the newer permit parameters (column 2 on the attached PERMIT COMPARISON document, ignoring the max daily volume for now). We are proposing tertiary treatment to assist with this, but ideally we would like the PTP on its own to be capable of achieving these limits.

Also, if NRW require any additional technical justification, would you be able to provide supporting evidence that we can include with the permit application to demonstrate that the proposed unit is suitable?

Kind regards,

**Paolo Carnevale** BEng (Hons) MSc CEng MICE  
**Director**



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