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Charlton Haynes Property Group

Land at Templars Way Industrial Estate

Wooten Bassett, Wiltshire

Erection of Industrial Units

Drainage Assessment

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1 INTRODUCTION

1.1 Introduction

1.1.1 Charlton Haynes Property Group (CH) presently operate an existing development of light industrial units within Templars Way Industrial Estate, Wooten Bassett, Wiltshire (The Site).

1.1.2 In order to meet local demand for such sites, CH are proposing expansion of the Templars Way development upon lands to the south (The Proposed Development). A Planning Application (The Application) is thus being prepared to this effect.

1.1.3 Kedd Limited (KL), agents of CH, have therefore instructed BCL Consultant Hydrogeologists Limited (BCL) to prepare a Drainage Assessment specific to the Proposed Development to accompany the Application.

1.2 Scope of Report

1.2.1 The scope of this report includes the following elements:

- Summary description of the Site, its setting with respect to the water environment, and its planned layout and operations.
- Presentation of the planned drainage approach to be applied to the Proposed Development.
- Assessment of planned drainage approach to demonstrate its efficacy in controlling both on and off-Site flood risk.

2 BACKGROUND

2.1 Site Location and Setting

2.1.1 The Site is centred approximately upon National Grid Reference (NGR) 506982 181457, as upon the southern fringes of the town of Wooten Bassett, Wiltshire.

2.1.2 The local land use accords with the Site's peri-urban setting, being principally urbanised to the north and rural to the south, the Site itself being in an area of transition featuring mixed agricultural, industrial and residential use, infrastructure supporting the town also being present (including rail lines, canals and sewage treatment works).

2.1.3 The Site in its existing form is under industrial use and is bounded to the east by the Marlborough Road, to the north and south east by existing residential development, and to the south and west by agricultural land.

2.1.4 As at *figure 1*, the Proposed Development is located upon the southern limit of the Site as at approximately NGR: 406995 181379, encompassing part of the existing area of the Site (including the existing access route from Marlborough Road) and extending partially into the agricultural land to the south, though remaining in line with the existing residential development to the east.

2.1.5 The area local to the Site features a subdued topographic fall to the south from the higher ground of Brynard's Hill within Wooten Bassett (130 metres above Ordnance Datum, maOD), to the valley of the Brinkworth Brook (locally at some 86maOD).

2.1.6 Ground elevations within the Proposed Development range from some 94.6maOD in the north east to some 92.7maOD upon its southern limit.

2.2 Hydrological Setting

2.2.1 The Site falls entirely within the catchment of the Brinkworth Brook. This watercourse rises at Broad Town to the south of Wooten Bassett, then running north towards the Site, at which point it turns west, skirting the south of the town and passing at closest approach some 230m south of the Proposed Development. The Brinkworth Brook then flows on to the north and west, joining the River Avon at Great Somerford, and then on to the Bristol Channel.

2.2.2 The Brinkworth Brook as transiting to the south of the Site was observed during water features surveying (sustained wet summer conditions) to feature a channel of some 3m width at bank, 2m width at bed and 1.5m depth, with a wetted depth of some 0.3m, this conveying flows estimated at some 30l/s.

2.2.3 The Proposed Development drains to the Brinkworth Brook via 2 no. agricultural drainage ditches running within the boundaries of the field present to the south (The Eastern Ditch and the Western Ditch, *figure 1*).

2.2.4 The Eastern Ditch rises upon the south eastern limit of the Proposed Development, and was observed during water features surveying to form an open channel of 2m width at bank, 1m width at bed and 1m depth. The ditch was observed dry at the time of survey despite heavy rainfall. This ditch passes beneath an agricultural access track within a 6" iron pipe of estimated 8m run.

2.2.5 The Western Ditch rises to the south west of the Proposed Development at a concrete headwall housing the outlet of a 6" concrete pipe (invert confirmed by survey at 90.64maOD). This discharges to an open channel of 2.5m width at bank top, 1m width at bed and 1.5m depth. A wetted depth of some 0.05m was observed, with flows of estimated 0.5l/s being evident.

2.3 Hydrogeological Setting

2.3.1 Geology

2.3.1.1 The area is underlain by regionally pervasive Jurassic clays, locally in the form of the Ampthill Clay Formation, this forming smooth or silty mudstone with limestone nodules. The area is void of significant drift cover, bedrock at the Site being overlain by soils only.

2.3.2 Hydrogeology

2.3.2.1 The Jurassic clays underlying the Site feature negligible hydraulic properties, functioning as an aquitard (barrier to water movement). This aquitard serves to hydraulically isolated ground surface from deeper aquifer units, and impedes infiltration to ground of rainfall / recharge, leading to the majority of incident rainfall not satisfying soil moisture requirements or otherwise intercepted to form runoff.

2.4 Site Operations and Water Management

2.4.1 Current Layout and Operations

2.4.1.1 The Site comprises numerous existing light industrial units with a network of internal access roads linking at the Site's eastern extent to Marlborough Road.

2.4.1.2 The Proposed Development itself is focused upon the southernmost such access road (The Southern Access Road). The application boundary extends upon the Southern Access Road to its junction with Marlborough Road.

2.4.1.3 The Southern Access Road itself is laid to asphalt and features a bounding asphalt footpath on its southern side.

2.4.1.4 At the north western extent of the Proposed Development, to the north of the Southern Access Road, a vacant plot is present. Excepting a small shed, this area is formed from loose laid aggregate and is considered to be permeable.

2.4.1.5 The application boundary extends to the south of the Southern Access Road onto agricultural lands (these being considered permeable).

2.4.2 Current Water Management

2.4.2.1 Current water management within the Proposed Development is illustrated at *figure 1*.

2.4.2.2 The Southern Access Road features shallow covered surface drains on its northern and southern sides (The Northern and Southern Drains), with drainage grates following the route of the road, being spaced approximately every 10 to 14m. The northern run of drain receives flows from the roof tops of the industrial units on the northern side of the road via gutter downpipes and buried connecting drains.

2.4.2.3 The Northern and Southern Drains are indicated to coalesce in a covered chamber at the western limit of the Southern Access Road, at which point piped outflow is indicated to be made southwards, this discharging to the Western Drain via piped outlet and concrete headwall as described at *section 2.2*. Such waters thus flow on southwards to the Brinkworth Brook.

2.4.2.4 The vacant plot on the northern side of the Southern Access Road drains diffusely to ground, excess waters being collected by the Northern and Southern Drains.

2.4.2.5 The Proposed Development as presently comprising agricultural land drains diffusely overland southwards to the Brinkworth Brook (both directly and via the Western and Eastern Ditches).

2.4.3 Proposed Development Layout and Operations

2.4.3.1 The layout of the Proposed Development is presented at *figure 3*.

2.4.3.2 The Site as outside of the boundaries of the Proposed Development will be entirely unaltered by development proposals.

2.4.3.3 The Southern Access Road will be retained in its present form. Though its western limit will be re-purposed from active roadway to vehicle parking, it will not be physically altered in any other way by the Proposed Development.

2.4.3.4 The vacant plot to the north of the Southern Access Road will be re-purposed to provide 3 no. new light industrial units with associated parking spaces. The full area will be laid to hard standing expecting a strip of grass being retained on the western Site limit.

2.4.3.5 Lands to the south of the Southern Access Road will be developed to offer further light industrial units and associated parking (to be of impermeable cover), with bounding grassland strips. An agricultural access route will be retained at the eastern limit of this area (this remaining permeable).

2.4.4 Proposed Development Water Management

2.4.4.1 The existing areas of hard standing present within the Proposed Development boundary, this principally comprising the Southern Access Road, are to be effectively unchanged by the Proposed Development. These areas benefit from existing drainage provision, which will also be unchanged.

2.4.4.2 Areas of the Site within which new impervious surface will be introduced (all proposed parking and roof top areas) will be equipped with gutter downpipes and covered drains with regularly spaced drainage grates. These drains will convey all rainfall / runoff incident upon such areas to dedicated covered attenuation tanks, from which discharge will be made off Site to surface watercourses. Full details are provided at *section 3*.

3 DRAINAGE SCHEME

3.1 Introduction and Objectives

3.1.1 In order to ensure that consented Site development results in no significant impacts upon on-Site flood risk, off-Site flood risk and water quality, it is to be provided with an integrated drainage system (The Drainage System).

3.1.1.1 Specification of the Drainage System has been undertaken to satisfy the below aims:

- To ensure that Post Development Runoff Rates (PDRRs) and Post Development Runoff 6hr cumulative Volumes (PDRVs) remain within Greenfield Runoff Rates (GRRs) and Greenfield Runoff 6hr cumulative Volumes (GFRVs), thus precluding any increase in off-Site flood risk (including climate change allowance).
- Assessment of Drainage System to demonstrate its adequacy, and to ensure that its constituent elements do not form potential sources of flooding in their own right.
- Specification and assessment of measures necessary to ensure adequate control of discharge water quality.
- Specification of management and maintenance measures to ensure the efficacy of the Drainage System throughout its intended lifespan.
- Consideration of regulatory consents that may be required to permit operation of the Drainage System.

3.2 Drainage Approach

3.2.1 Hierarchy of Drainage

3.2.1.1 The CIRIA SuDS Manual, 2015, recommends drainage design in accord with the following hierarchy:

- 1: Infiltration to ground.
- 2: Discharge to surface waterbody / watercourse.
- 3: Discharge to surface water sewer or existing drainage system.
- 4: Discharge to combined sewer.

3.2.1.2 With reference to *section 2.3*, the hydrogeological setting of the Site is not conducive to effective soakaway operation.

3.2.1.3 With reference to *section 2.2*, there are no surface waterbodies / watercourses within the Proposed Development boundary.

3.2.1.4 With reference to *section 2.4.2*, the existing Site drainage system transits the Proposed Development and discharges to surface waters. Connection to the existing outlet from this system thus offers the best available method of surface water disposal from the Proposed Development.

3.2.2 Drainage design has been undertaken in line with this selected approach, areas of new impermeable surface being drained in 3 no. catchments as at *figure 4*, ensuring attenuation is provided local to the point of runoff generation.

3.2.3 As discussed, areas of existing hard standing will not be altered by the Proposed Development and their existing drainage provision will be retained. Areas of retained permeable surface are to similarly be unaltered in terms of their drainage from present conditions.

3.2.4 The drainage design within each catchment is discussed separately below, being further presented at *figure 5*. Elevations informed by available survey data, as applied to ensure a continuous fall across the Drainage System, are also presented at *figure 5*.

3.2.2 Catchment 1

3.2.2.1 Catchment 1 occupies the vacant plot to the north of the Southern Access Road, to area 0.061ha.

3.2.2.2 Catchment 1 is to be equipped with covered drains with regularly spaced drainage grates (The Catchment 1 Drains), towards which the planned parking areas will be graded to drain. Down pipes from roof guttering of the planned light industrial units will (on both eastern and western sides of the roofs according with their pitch) connect to the Catchment 1 Drains.

3.2.2.3 The Catchment 1 Drains will discharge to a buried attenuation tank (Tank 1), formed from stormwater attenuation crates, where waters will be attenuated for gradual discharge within greenfield rates (illustrative tank design for the Site as at *figure 6*).

3.2.2.4 Discharge from Tank 1 will be made via discharge chamber with dual orifice flow control plate. This will connect to a discharge pipeline (Discharge 1), which will intercept the existing outlet form the Site drainage network.

3.2.2.5 All waters will thus be conveyed to the Western Ditch via the existing Site outlet and headwall.

3.2.3 Catchment 2

3.2.3.1 Catchment 2 occupies lands to the south west of the Southern Access Road, to area 0.164ha.

3.2.3.2 Catchment 2 is to be equipped with covered drains with regularly spaced drainage grates (The Catchment 2 Drains), towards which the planned parking areas will be graded to drain. Down pipes from roof guttering of the planned light industrial units will (on both eastern and western sides of the roofs according with their pitch) connect to the Catchment 2 Drains.

3.2.3.3 The Catchment 2 Drains will discharge to a buried attenuation tank (Tank 2), formed from stormwater attenuation crates, where waters will be attenuated for gradual discharge within greenfield rates.

3.2.3.4 Tank 2 is to be placed beneath a parking area, and will thus require construction using attenuation crates of suitable load bearing capacity, the overlying parking spaces being constructed from permeable paving materials.

3.2.3.5 Discharge from Tank 2 will be made via discharge chamber with dual orifice flow control plate. This will connect to a discharge pipeline (Discharge 2), which will intercept the existing outlet form the Site drainage network to the Western Ditch (Discharge 3).

3.2.3.6 At this point, a hydrocarbon interceptor will be installed in chambers with manhole covers, through which all waters transiting through the existing and proposed pipelines will pass, allowing additional treatment of discharged waters.

3.2.3.7 All waters will thus be conveyed to the Western Ditch via the existing Site outlet and headwall.

3.2.4 Catchment 3

3.2.4.1 Catchment 3 occupies lands to the south east of the Southern Access Road, to area 0.18ha.

3.2.4.2 Catchment 3 is to be equipped with covered drains with regularly spaced drainage grates (The Catchment 3 Drains), towards which the planned parking areas will be graded to drain. Down pipes from roof guttering of the planned light industrial units will (on both eastern and western sides of the roofs according with their pitch) connect to the Catchment 3 Drains.

3.2.4.3 The Catchment 3 Drains will discharge to a buried attenuation tank (Tank 3), formed from stormwater attenuation crates, where waters will be attenuated for gradual discharge within greenfield rates.

3.2.4.4 Tank 3 is to be placed beneath a parking area, and will thus require construction using attenuation crates of suitable load bearing capacity, the overlying parking spaces being constructed from permeable paving materials.

3.2.4.5 Discharge from Tank 3 will be made via discharge chamber with dual orifice flow control plate. This will connect to a discharge pipeline linked to that serving Catchment 2 (Discharge 2), which will intercept the existing outlet form the Site drainage network, and pass through the proposed hydrocarbon interceptors.

3.2.4.6 All waters will thus be conveyed to the Western Ditch via the existing Site outlet and headwall.

4 DRAINAGE ASSESSMENT

4.1 Runoff Rates

4.1.1 Existing Runoff Rates

4.1.1.1 Point catchment descriptors for the Site location have been sourced from the Centre for Ecology & Hydrology (CEH) Flood Estimation Handbook (FEH) web service.

4.1.1.2 The resultant data has been applied to the CEH / Wallingford Hydro Solutions (WHS) Revitalized Flood Hydrograph Model (ReFH2.3), from which as rural GRRs and GFRVs have been derived in line with the relevant technical guidance[1].

4.1.1.3 The results of this assessment are presented below at *table 1*.

Table 1 Estimation of Greenfield Runoff Rates & Volumes

Catchment	Catchment Area (ha)	Storm Return Period (yrs)	Greenfield Runoff Rate (l/s)	Greenfield 6hr Cumulative Volume (m^3)
Catchment 1	0.061	1 in 1	0.51	7.03
		1 in 100	1.78	25.89
Catchment 2	0.164	1 in 1	1.35	18.90
		1 in 100	4.77	69.56
Catchment 3	0.18	1 in 1	1.48	20.74
		1 in 100	5.23	76.34

4.1.2 Post Development Runoff Rates

Climate Change Allowance

4.1.2.1 Climate change correction factors applicable to the location of the Proposed Development have been sourced through reference to the Environment Agency (EA) Hydrology Data Explorer, Climate Change Allowances, Rainfall Allowance online mapping service[2].

4.1.2.2 Assessment has thus adopted upper end peak rainfall intensity climate allowances for a 1% annual exceedance event to the 2070s for the Avon Bristol and North Somerset Streams Management Catchment, this at 45%.

Post Development Runoff Estimation

4.1.2.3 PDRRs and PDRVs have been established through application of the urbanisation facility within ReFH2.3, in accord with prevailing guidance in this regard. Urban parameters have been applied to the full area of Catchments 1, 2 and 3 to account for the introduction of new impervious surface in these areas. Assessment has included estimation of brownfield flow rates within the existing drainage system, as serving existing areas of hard standing within the Proposed Development boundary, based on its known catchment.

4.1.2.4 Assessment has subsequently applied the above climate correction factors, the resultant data being presented below at *table 2*.

[1] Wallingford Hydro Solutions, *The Revitalised Flood Hydrograph Model ReFH2.2: Technical Guidance*, 2016
[2] https://environment.data.gov.uk/hydrology/climate-change-allowances/rainfall

Table 2 Estimation of Post Development Runoff Rates & Volumes				
Catchment	Catchment Area (ha)	Storm Return Period (yrs)	Post Development Runoff Rate (l/s)	Post Development 6hr Cumulative Volume (m^3)
Catchment 1	0.061	1 in 1	1.22	15.68
		1 in 100	3.96	51.03
Catchment 2	0.164	1 in 1	3.28	42.13
		1 in 100	10.62	137.09
Catchment 3	0.18	1 in 1	3.60	46.24
		1 in 100	11.66	150.46
Existing Drainage System	0.215	1 in 1	4.30	55.22
		1 in 100	13.92	179.68

4.2 Assessment of Drainage System

4.2.1 Catchment 1

Catchment 1 Drains

4.2.1.1 The Catchment 1 drains are required to convey PDRRs for Catchment 1 for up to a 1 in 100 year storm event, as at *table 2*.

4.2.1.2 Necessary design parameters to achieve this have been assessed using Hazen Williams Equation. The results of the analysis are presented at *appendix 1* with summary detail at *table 3* below.

Table 3 Assessment of Catchment 1 Drains		
Variable (units)	Value	Justification
Pipe Radius (m)	0.076	6" Pipe
Gradient	0.0033	Minimum Site pipe gradient, Catchment 1, 0.15m fall, 45m run.
Roughness Coefficient	140	Literature value (smooth pipe)
Discharge Rate (l/s)	12.65	Hazen Williams Equation

4.2.1.3 Assessment indicates that, subject to construction to the specification outlined above at *table 3*, the Catchment 1 Drains will have sufficient conveyance capacity to accommodate expected flow rates, and will thus allow for the free and effective drainage of the Site.

Tank 1

4.2.1.4 Time series output from ReFH2.3 for post development conditions within Catchment 1 has been applied to Tank 1 to assess necessary design parameters to meet the aims of the Drainage System. Climate adjustment has been applied in accord with that derived at *section 4.1.2*.

4.2.1.5 The results of such assessment are presented at *appendix 2*, with summary results below at *table 4*.

Table 4 Assessment of Tank 1	
Variable (units)	Value
1 in 1 Year Storm Event	
Peak Flow (l/s)	0.33
6HCV (m^3)	2.51
Peak Attenuation (m^3)	10.45
Available Attenuation (m^3)	29.25
1 in 100 Year Storm Event	
Peak Flow (l/s)	1.73
6HCV (m^3)	10.80
Peak Attenuation (m^3)	28.43
Available Attenuation (m^3)	29.25

4.2.1.6 Analysis indicates that Tank 1 will provide attenuation capacity more than sufficient to limit PDRRs and PDRVs to within GRRs and GFRVs for Catchment 1 as at *table 1*. This ensures that post development runoff rates will not exceed those prevailing under pre-development conditions, this precluding any potential impact on off-Site / downstream flood risk.

4.2.1.7 In order to achieve this, Tank 1 should be completed to the below specification.

- Completion in line with design presented at *section 3* and *figure 6* with area of minimum 65m^2.
- Outlet from feature to be completed with discharge chamber with dual orifice plate.
- Primary orifice to have diameter of 0.02m and invert of 92.95maOD.
- Secondary orifice to have diameter of 0.033m and invert of 93.12maOD.
- Installation of exceedance overflow (westwards) of invert 92.95maOD (giving available freeboard of 0.45m).

Discharge 1

4.2.1.8 It is necessary for Discharge 1, as connecting Tank 1 to the Site's existing off-Site outlet, to have a conveyance capacity at least equal to 1 in 100 year peak flow rates from Tank 1 as at *table 4*.

4.2.1.9 Necessary design parameters to achieve this have been assessed using Hazen Williams Equation. The results of the analysis are presented at *appendix 1* with summary detail at *table 5* below.

Table 5 Assessment of Discharge 1		
Variable (units)	Value	Justification
Pipe Radius (m)	0.076	6" Pipe
Gradient	0.004	Drain gradient, 92.95maOD to 92.91maOD, 10m run.
Roughness Coefficient	140	Literature value (smooth pipe)
Discharge Rate (l/s)	14.03	Hazen Williams Equation

4.2.1.10 Assessment indicates that, subject to construction to the specification outlined above at *table 5*, Discharge 1 will have sufficient conveyance capacity to accommodate expected flow rates, and will thus allow for the free and effective drainage of the Site.

4.2.2 Catchment 2

Catchment 2 Drains

4.2.2.1 The Catchment 2 drains are required to convey PDRRs for Catchment 2 for up to a 1 in 100 year storm event, as at *table 2*.

4.2.2.2 Necessary design parameters applied to the Catchment 1 drains as at *table 3* are also sufficient to accommodate expected flow rates within Catchment 2, and are thus to be applied across the Proposed Development as standard design.

4.2.2.3 Subject to construction to the specification outlined at *table 3*, the Catchment 2 Drains will have sufficient conveyance capacity to accommodate expected flow rates, and will thus allow for the free and effective drainage of the Site.

Tank 2

4.2.2.4 Time series output from ReFH2.3 for post development conditions within Catchment 2 has been applied to Tank 2 to assess necessary design parameters to meet the aims of the Drainage System. Climate adjustment has been applied in accord with that derived at *section 4.1.2*.

4.2.2.5 The results of such assessment are presented at *appendix 2*, with summary results below at *table 6*.

Table 6 Assessment of Tank 2	
Variable (units)	Value
1 in 1 Year Storm Event	
Peak Flow (l/s)	1.3
6HCV (m^3)	10.66
Peak Attenuation (m^3)	22.28
Available Attenuation (m^3)	73.96
1 in 100 Year Storm Event	
Peak Flow (l/s)	4.67
6HCV (m^3)	33.40
Peak Attenuation (m^3)	71.98
Available Attenuation (m^3)	73.96

4.2.2.6 Analysis indicates that Tank 2 will provide attenuation capacity more than sufficient to limit PDRRs and PDRVs to within GRRs and GFRVs for Catchment 2 as at *table 1.* This ensures that post development runoff rates will not exceed those prevailing under pre-development conditions, this precluding any potential impact on off-Site / downstream flood risk.

4.2.2.7 In order to achieve this, Tank 2 should be completed to the below specification.

- Completion in line with design presented at *section 3* and *figure 6* with area of minimum 86m^2.
- Outlet from feature to be completed with discharge chamber with dual orifice plate.
- Primary orifice to have diameter of 0.035m and invert of 91.64maOD.
- Secondary orifice to have diameter of 0.038m and invert of 91.9maOD.
- Installation of exceedance overflow (southwards) of invert 92.6maOD (giving available freeboard of 0.86m).

4.2.3 Catchment 3

Catchment 3 Drains

4.2.3.1 The Catchment 3 drains are required to convey PDRRs for Catchment 2 for up to a 1 in 100 year storm event, as at *table 2*.

4.2.3.2 Necessary design parameters applied to the Catchment 1 drains as at *table 3* are also sufficient to accommodate expected flow rates within Catchment 3, and are thus to be applied across the Proposed Development as standard design.

4.2.3.3 Subject to construction to the specification outlined at *table 3*, the Catchment 3 Drains will have sufficient conveyance capacity to accommodate expected flow rates, and will thus allow for the free and effective drainage of the Site.

Tank 3

4.2.3.4 Time series output from ReFH2.3 for post development conditions within Catchment 3 has been applied to Tank 3 to assess necessary design parameters to meet the aims of the Drainage System. Climate adjustment has been applied in accord with that derived at *section 4.1.2*.

4.2.3.5 The results of such assessment are presented at *appendix 2*, with summary results below at *table 7*.

Table 7 Assessment of Tank 3	
Variable (units)	Value
1 in 1 Year Storm Event	
Peak Flow (l/s)	1.45
6HCV (m^3)	11.82
Peak Attenuation (m^3)	24.27
Available Attenuation (m^3)	80.56
1 in 100 Year Storm Event	
Peak Flow (l/s)	5.12
6HCV (m^3)	36.63
Peak Attenuation (m^3)	79
Available Attenuation (m^3)	80.56

4.2.3.6 Analysis indicates that Tank 3 will provide attenuation capacity more than sufficient to limit PDRRs and PDRVs to within GRRs and GFRVs for Catchment 3 as at *table 1.* This ensures that post development runoff rates will not exceed those prevailing under pre-development conditions, this precluding any potential impact on off-Site / downstream flood risk.

4.2.3.7 In order to achieve this, Tank 3 should be completed to the below specification.

- Completion in line with design presented at *section 3* and *figure 6* with area of minimum 106m^2.
- Outlet from feature to be completed with discharge chamber with dual orifice plate.
- Primary orifice to have diameter of 0.038m and invert of 91.74maOD.
- Secondary orifice to have diameter of 0.041m and invert of 91.98maOD.
- Installation of exceedance overflow (southwards) of invert 92.5maOD (giving available freeboard of 0.76m).

Discharge 2

4.2.3.8 It is necessary for Discharge 2, as connecting Tanks 2 and 3 to the Site's existing off-Site outlet, to have a conveyance capacity at least equal to 1 in 100 year peak flow rates from Tanks 2 and 3 combined, as at *tables 6* and *7*.

4.2.3.9 Necessary design parameters to achieve this have been assessed using Hazen Williams Equation. The results of the analysis are presented at *appendix 1* with summary detail at *table 8* below.

Table 8 Assessment of Discharge 2		
Variable (units)	Value	Justification
Pipe Radius (m)	0.076	6" Pipe
Gradient	0.0023	Drain gradient, 91.74maOD to 91.58maOD, 70m run.
Roughness Coefficient	140	Literature value (smooth pipe)
Discharge Rate (l/s)	10.37	Hazen Williams Equation

4.2.3.10 Assessment indicates that, subject to construction to the specification outlined above at *table 8*, Discharge 2 will have sufficient conveyance capacity to accommodate expected flow rates, and will thus allow for the free and effective drainage of the Site.

4.2.4 Existing Discharge Pipeline

Discharge 3

4.2.4.1 The existing discharge pipeline connecting the Proposed Development as already laid to hard standing to the Western Ditch is to additionally receive flows from Discharge 1 and Discharge 2. It is thus necessary for Discharge 3 to convey both existing flow rates including climate allowance (thus 1 in 100 PDRRs as at *table 2*), and 1 in 100 year peak outflow rates from Tanks 1, 2 and 3 (as at *tables 4*, *6* and *7*). This totals at some 25.44l/s.

4.2.4.2 The existing design of Discharge 3 has been assessed using Hazen Williams Equation. The results of the analysis are presented at *appendix 1* with summary detail at *table 9* below.

Table 9 Assessment of Discharge 3		
Variable (units)	Value	Justification
Pipe Radius (m)	0.076	6" Pipe, as already present.
Gradient	0.0023	Drain gradient, 92.91maOD to 90.64maOD, 60m run, as already present.
Roughness Coefficient	140	Literature value (smooth pipe)
Discharge Rate (l/s)	47.22	Hazen Williams Equation

4.2.4.3 Assessment indicates that Discharge 3 in its present form holds sufficient conveyance capacity to accommodate additional (though attenuated) flow rates resulting from the Proposed Development, and will thus allow for the free and effective drainage of the Site without need for upgrade.

Hydrocarbon Interceptor

4.2.4.4 It is necessary for the hydrocarbon interceptor to be installed upon Discharge 3 to accommodate both existing flow rates within Discharge 3 including climate allowance

(thus 1 in 100 PDRRs as at *table 2*), and 1 in 100 year peak outflow rates from Tanks 1, 2 and 3 (as at *tables 4*, 6 and 7). This totals at some 25.44l/s.

4.2.4.5 This features is to be of pre-fabricated design and should be specified to meet such required flow rates, subsequently being installed and operated in accord with manufacturer specifications.

4.3 Exceedance Flows

4.3.1 The Drainage System has been specified to accommodate expected rainfall / runoff rates resulting from up to a 1 in 100 year storm event. Storm events of greater magnitude have potential to exceed the design requirements of the Drainage System and result in on-Site flooding.

4.3.2 Tanks 1, 2 and 3 have thus been specified with exceedance overflows, these being set at suitable elevation to prevent uncontrolled overtopping of the Drainage System. Exceedance flows from Tank 1 are to be made westwards. Exceedance flows from Tanks 2 and 3 are to be made southwards. All such flows would thus be made to agricultural lands for overland conveyance to neighbouring surface watercourses, without risk to persons, property, or other flood vulnerable features.

4.4 Drainage System Water Quality Considerations

4.4.1 In accord with SuDS Manual recommendations, the Drainage System must allow for consideration of drainage water quality as well as rate and volume, the indicative adequacy of the system in this regard being assessed via the Simple Index Approach. Such assessment has been applied to the design of the Drainage System, summary results for which are presented below at *table 10*.

Table 10 Simple Index Approach Assessment of Water Quality Treatment Provision

Description	Suspended Solids	Metals	Hydrocarbons
Landuse Pollution Hazard Index	0.5	0.4	0.4
Pollution Mitigation Index	0.5	0.5	0.6
Sufficiency	Sufficient	Sufficient	Sufficient

4.4.2 Assessment indicates sufficient mitigation to be provided in this regard by the Drainage System.

4.5 Maintenance Requirements

4.5.1 The efficacy of the Drainage System as described is dependent upon its effective management and maintenance. It is therefore recommended that the Site adopt a maintenance schedule, as outlined below at *table 11*.

4.5.2 All required record keeping should be physically or digitally stored for a period of at least 2 years, this being consulted prior to subsequent maintenance to identify any deterioration over time.

4.5.3 Responsibility for undertaking the required maintenance is to be held by the Site operator (presently CH). Any transfer of Site operator / ownership should be accompanied by transfer of the maintenance schedule and associated responsibilities.

4.5.4 These requirements apply to all elements of the Drainage System outlined above.

Table 11 Drainage System Maintenance Schedule				
Type	Description	Records	Frequency	Commencement
Regular Maintenance	Visual inspection of physical condition of infrastructure.	Paper	Quarterly	On completion of installation
	Inspection for blockages or excessive debris / silt accumulation.			
	Removal of any vegetative growth and removal of cuttings.		Minimum annually	
Occasional Tasks	Observation of flows through infrastructure and identification / subsequent investigation of any impediment.		Following / during severe rainfall	As required
	Observation and recording of any exceedance flow events.			
Remedial Works	Reinstatement of infrastructure.		When required by regular maintenance / occasional tasks.	
	Clearance of blockages / debris.			
	Re-design and enhancement of drainage provision.			

4.6 Drainage System Regulatory Consents

4.6.1 The Drainage System is to convey uncontaminated Site drainage from small areas of roofing / parking, this passing via a hydrocarbon interceptor, to surface waters. It is thus considered that a consenting Environmental Permit, Water Discharge Activity, as issued by the EA, should not be necessary in this case.

4.6.2 Though discharging to the Western Ditch, which forms an Ordinary Watercourse, the Drainage System will utilise the Site's existing discharge outfall and headwall, which will not require alteration. Works on or near a watercourse will not be necessary and consenting Ordinary Watercourse Consent, as issued by the Lead Local Flood Authority (LLFA) should not be required in this case.

5 SUMMARY & CONCLUSIONS

5.1 A Drainage Assessment has been undertaken with respect to the proposed erection of new light industrial units at Templars Way Industrial Estate, Wooten Bassett, Wiltshire.

5.2 Assessment has summarised the hydrological and hydrogeological setting of the Site, together with its layout and operations. This has enabled description and specification of a drainage approach. Where required, assessment of the specified drainage approach has been undertaken to demonstrate its efficacy.

5.3 Consideration has been given to the water quality effects of Site drainage. Management and maintenance measures have further been specified, this ensuring the long-term efficacy of the planned drainage approach.

5.4 The report concludes that, subject to implementation of the recommendations presented herein, the Site will be provided with adequate and effective drainage, and is thus permissible in this regard.



Peter Simpson BSc, MSc, FGS
Principal Hydrogeologist

BCL Consultant Hydrogeologists Limited
30th August 2023

S/KL/TW/DS23/002

Charlton Haynes Property Group

Land at Templars Way Industrial Estate

Wooten Bassett, Wiltshire

Erection of Industrial Units

Drainage Assessment

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Figures

BCL HYDRO
BCL Consultant Hydrogeologists Limited

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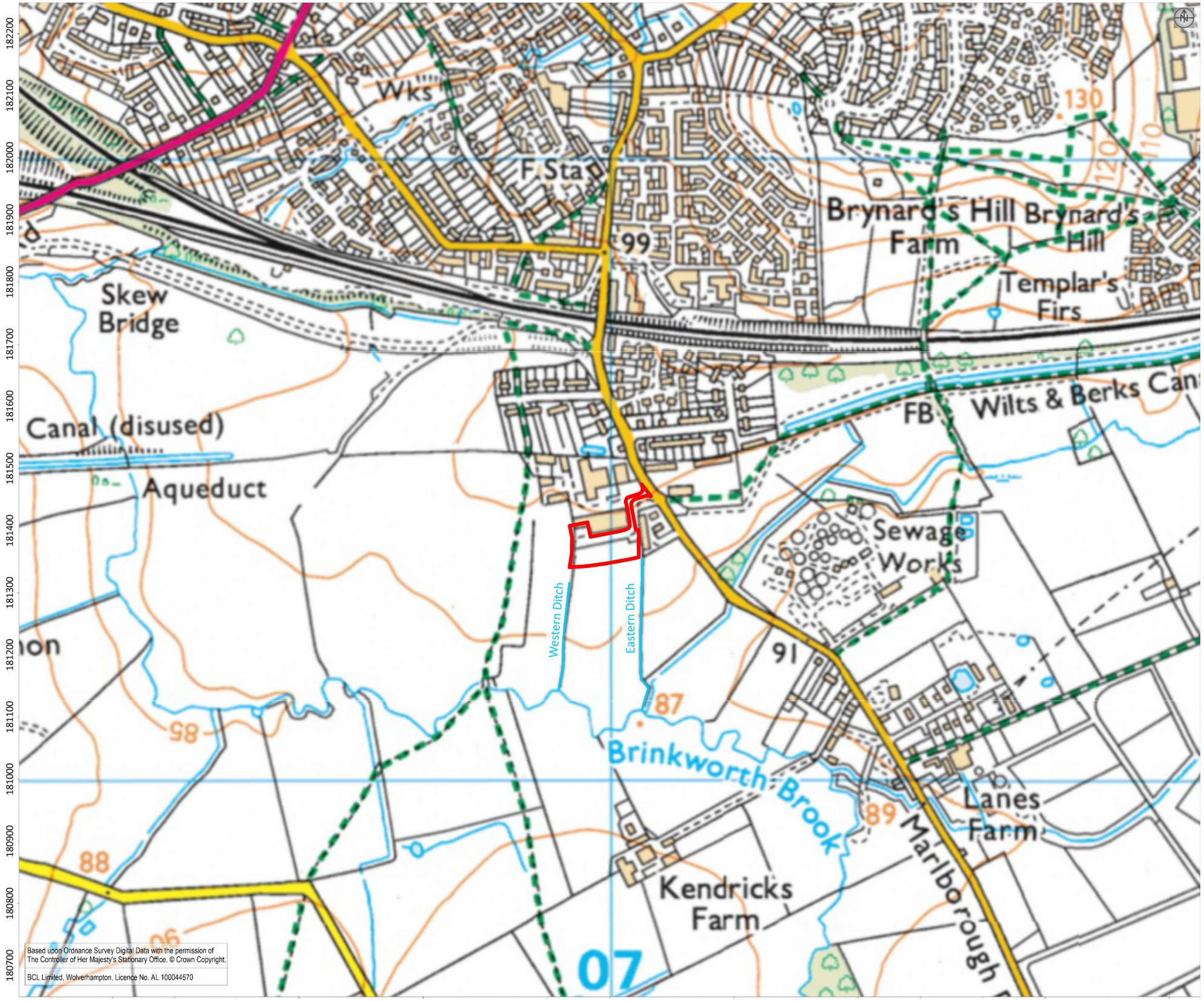
Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP
Registered in England & Wales. Company Registration Number: 4043373



Site Boundary

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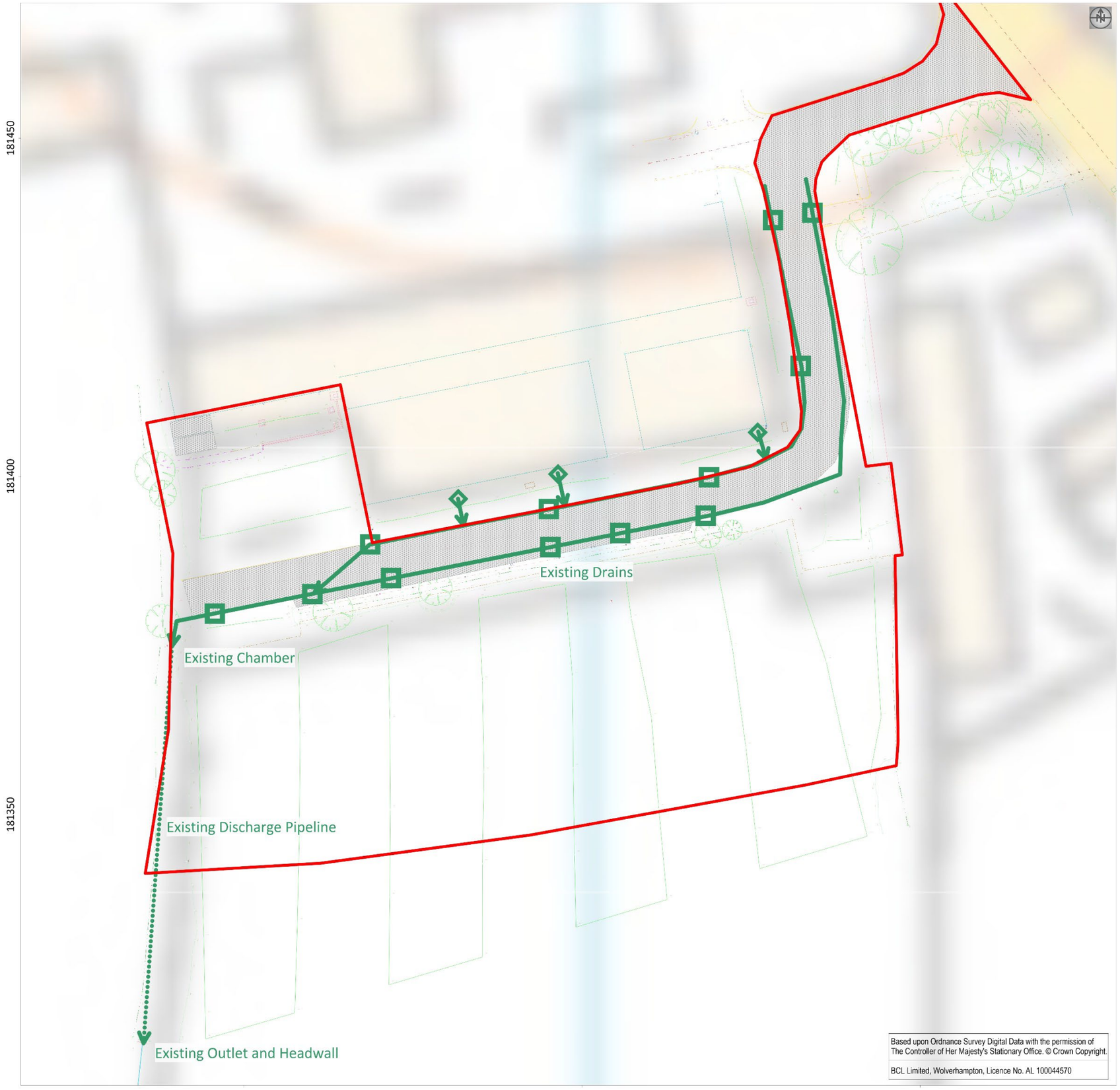
Figure 1 Site Location and Setting

Drawn By: PS	Scale: 1:6,000
Date: 30/08/2023	Format: A3L



Site Boundary

Existing Hard Standing

Existing Drain

Existing Gutter Down Pipe

Existing Discharge Pipeline

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Figure 2 Existing Site Layout

Drawn By: PS	Scale: 1:600
Date: 30/08/2023	Format: A3L

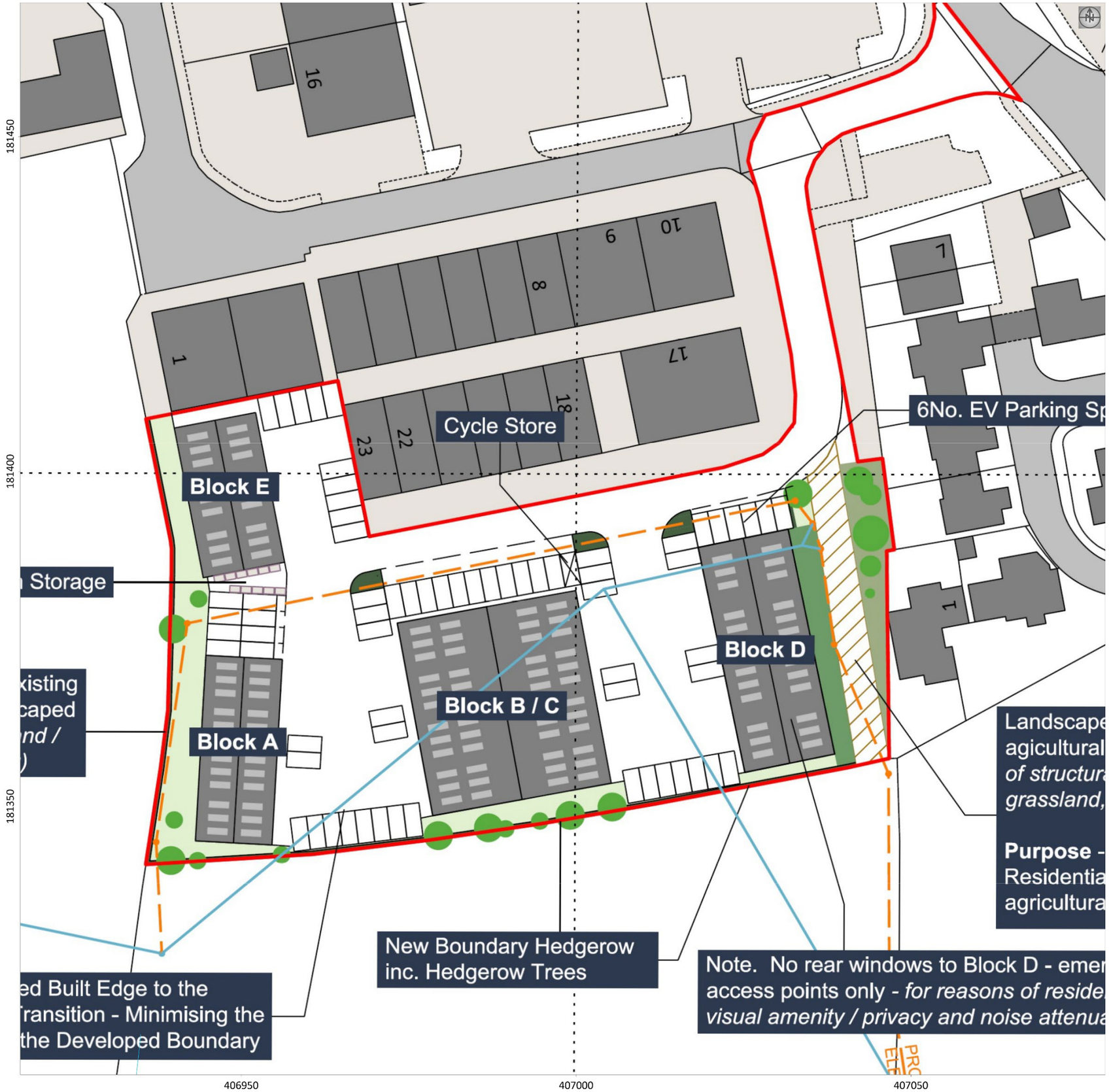

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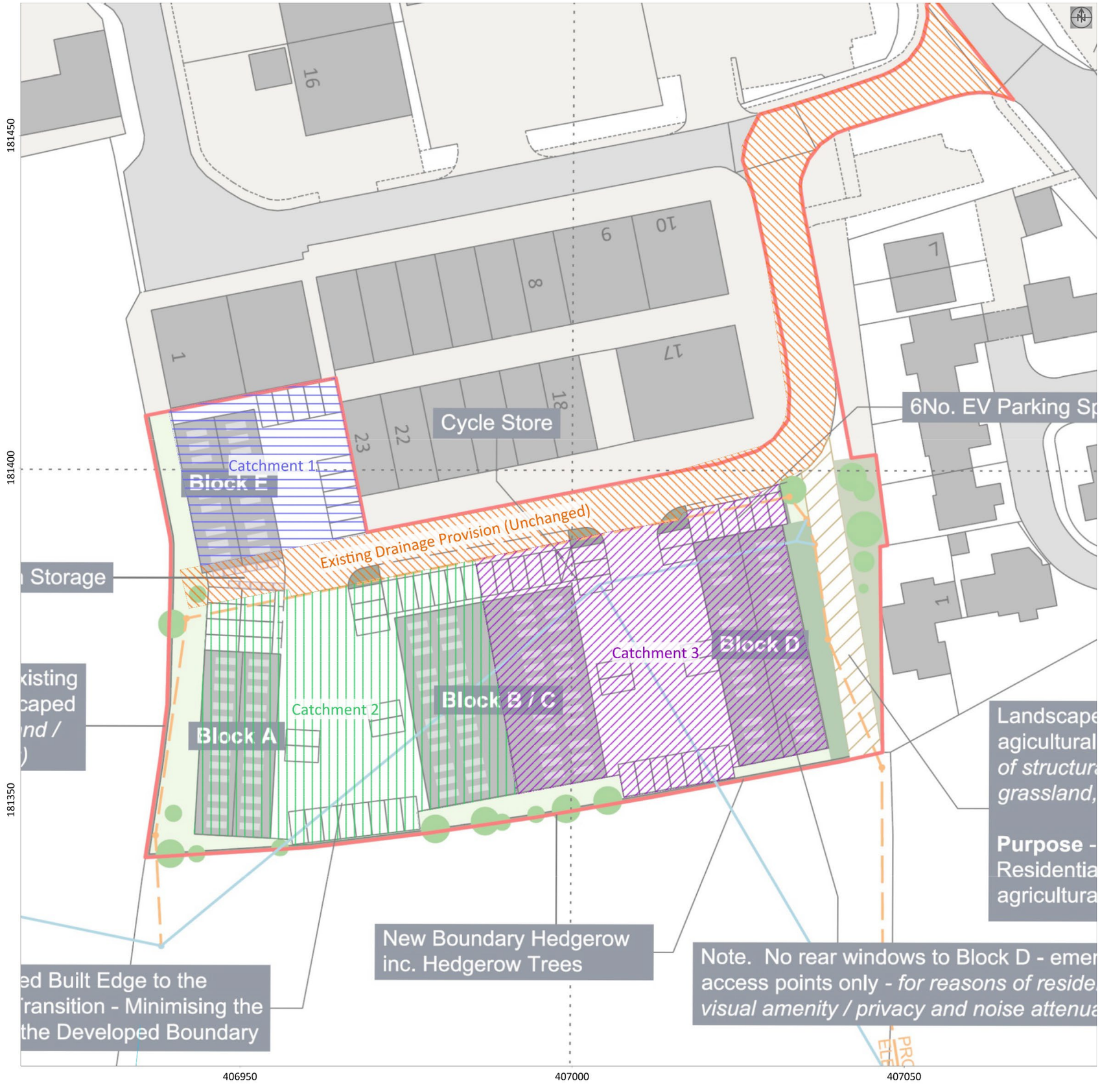
Figure 3 The Proposed Development

Drawn By: PS	Scale: 1:600
Date: 30/08/2023	Format: A3L



Site Boundary

Catchment Boundary

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Figure 4 Drainage Catchments

Drawn By: PS	Scale: 1:600
Date: 30/08/2023	Format: A3L

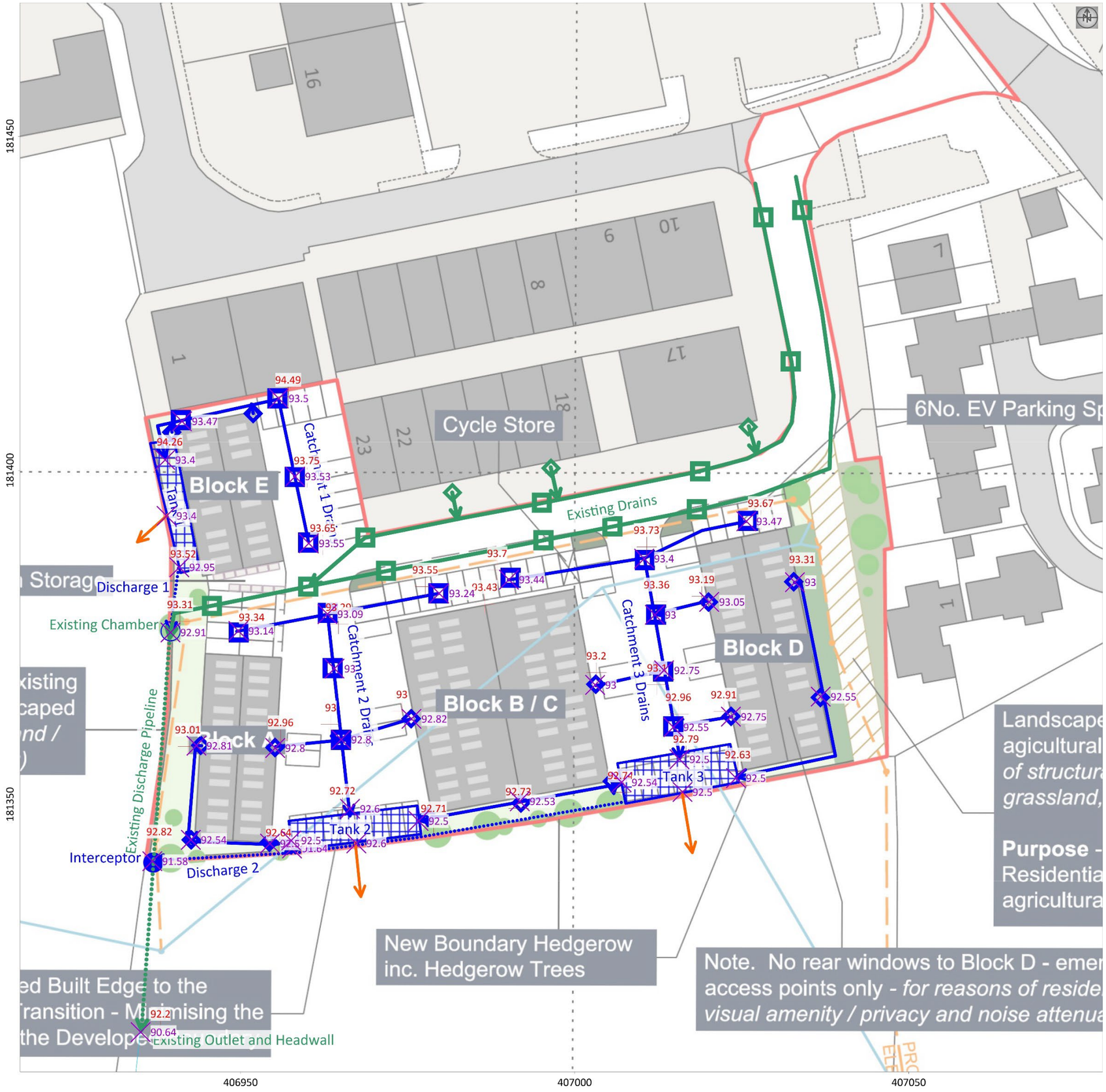

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Figure 5 The Drainage System

Drawn By: PS	Scale: 1:600
Date: 30/08/2023	Format: A3L

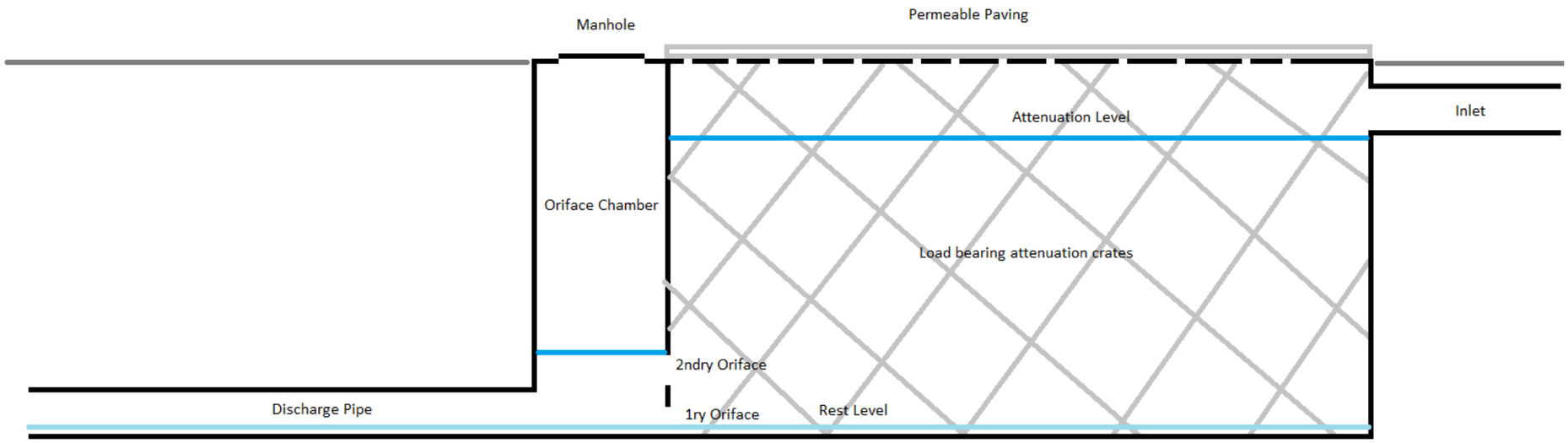

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Figure 6 Illustrative Tank Design

Drawn By: PS	Scale: N/A
Date: 30/08/2023	Format: A3L

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Appendix 1 Assessment of Drainage Elements

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email: info@bclhydro.co.uk, web: http://www.bclhydro.co.uk
Registered Office: 33, Wolverhampton Road, Cannock, West Midlands, WV11 1AP
Registered in England & Wales. Company Registration Number: 4043373

Templars Way

Full Pipes (Hazen Williams)

Q = Flow rate
V = Average velocity
k = Conversion factor
C = Roughness coefficient
S = Slope
R = Hydraulic radius
A = Cross sectional area
c = Pipe Circumference
r = Pipe radius

Catchment 1, 2 and 3 Drains

Q	l/s	12.65	Q = (AV) * 1000
Q	m3/s	0.01	Q = AV
V	m/s	0.69	V = kC(R^0.63)(S^0.5)
k	-	0.85	Literature (SI Units)
C	-	140.00	Literature (smooth pipe)
S	-	0.0033	Minimum Site drain gradient, Catchment 1, 0.15m fall, 45m run.
R	m	0.04	R = A / c
A	m	0.02	A = pi()r2
c	m	0.48	c = 2*pi*r
r	m	0.076	6" ID pipe

Discharge 1

Q	l/s	14.03	Q = (AV) * 1000
Q	m3/s	0.01	Q = AV
V	m/s	0.77	V = kC(R^0.63)(S^0.5)
k	-	0.85	Literature (SI Units)
C	-	140.00	Literature (smooth pipe)
S	-	0.0040	Drain gradient, 92.95maOD to 92.91maOD, 10m run
R	m	0.04	R = A / c
A	m	0.02	A = pi()r2
c	m	0.48	c = 2*pi*r
r	m	0.076	6" ID pipe

Discharge 2

Q	l/s	10.37	Q = (AV) * 1000
Q	m3/s	0.01	Q = AV
V	m/s	0.57	V = kC(R^0.63)(S^0.5)
k	-	0.85	Literature (SI Units)
C	-	140.00	Literature (smooth pipe)
S	-	0.0023	Drain gradient, 91.74maOD to 91.58maOD, 70m run
R	m	0.04	R = A / c
A	m	0.02	A = pi()r2
c	m	0.48	c = 2*pi*r
r	m	0.076	6" ID pipe

Discharge 3

Q	l/s	47.22	Q = (AV) * 1000
Q	m3/s	0.05	Q = AV
V	m/s	2.59	V = kC(R^0.63)(S^0.5)
k	-	0.85	Literature (SI Units)
C	-	140.00	Literature (smooth pipe)
S	-	0.0378	Drain gradient, 92.91maOD to 90.64maOD, 60m run
R	m	0.04	R = A / c
A	m	0.02	A = pi()r2
c	m	0.48	c = 2*pi*r
r	m	0.076	6" ID pipe

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Appendix 2 Attenuation Calculations

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Templars Way 1 in 1 Tank 1

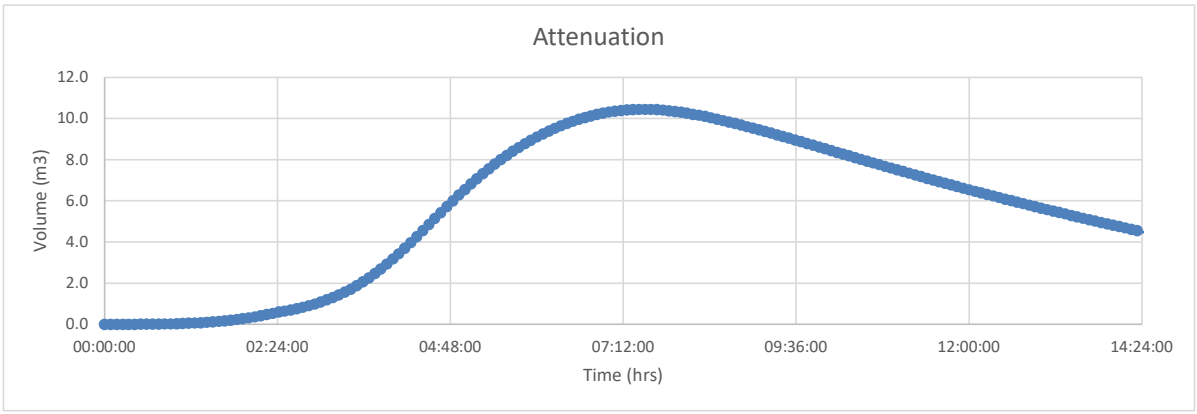
Inflows	
Return Period (yrs)	1
Time Step (mins)	5
Column ref Rainfall	2
Column ref Runoff	7
Column ref Baseflow	8
Account for baseflow?	0
Climate Change Rainfall Correction	45
Storage	
Lagoon area at rest (m2)	65
Lagoon outlet invert (maOD)	92.95
Lagoon Area at max freeboard (m2)	65
Lagoon max freeboard (maOD)	93.4
Outflows (Orifice)	
Discharge coeffcient (m)	0.6
Orifice diameter (m)	0.02
Orifice area (m2)	0.000314159
2nd orifice elevation (maOD)	93.12
2nd orifice diameter (m)	0.033
2nd orifice area (m2)	0.000855299
Mass Balance	0.00
Peak Flow (l/s)	0.33
6hr cum vol (m3)	2.51
Peak Attenuation (m3)	10.45
Peak Head (maOD)	93.11

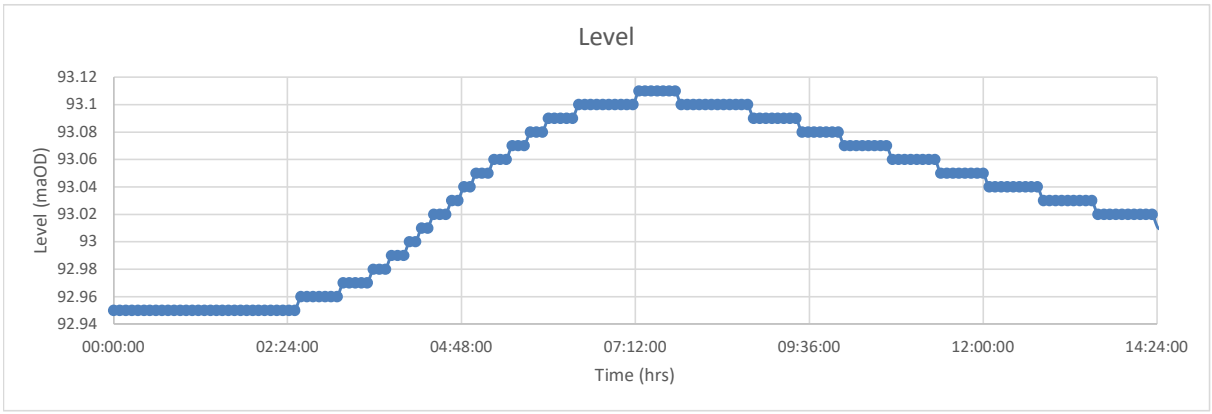
	Rate / vol	Exceedance over greenfield	% improvement
Greenfield Runoff (l/s)	0.51		
Greenfield Vol (m3)	7.03		
Brownfield Runoff (l/s)	0.84	0.34	
Brownfield Vol (m3)	10.81	3.78	
Model Rate (l/s)	0.33	-0.17	150.97
Model Vol (m3)	2.51	-4.52	219.67
	level / vol	Spare Capacity	
Attenuation (m3)	29.25	18.80	
Freeboard (m)	93.40	0.2900	

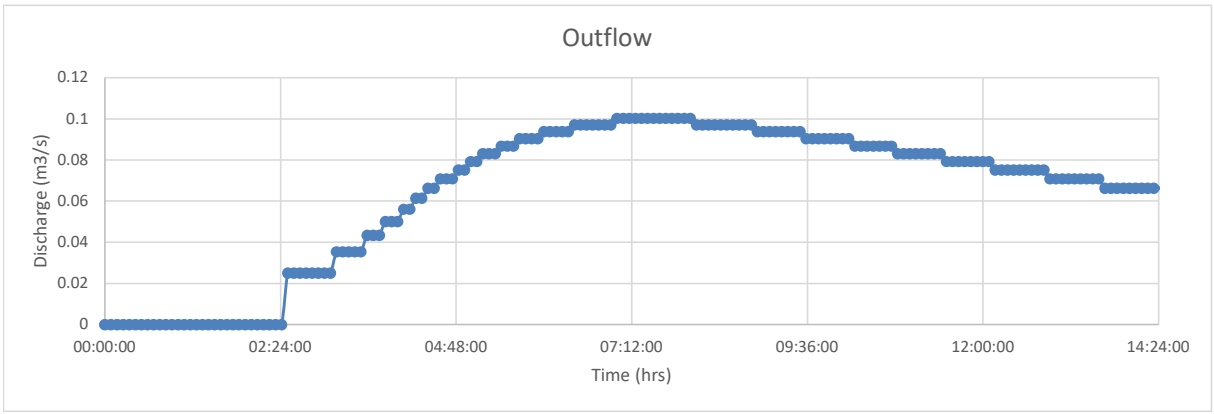
Time	Design Rainfall	Direct Runoff	Baseflow	Total Flow	Starting head	Potential Outfl	Potential Outflow 2	Actual Outflow	Attenuation	End Head
hh:mm:ss	mm	m3/s	m3/s	m3	maOD	m3	m3	m3	m3	maOD
00:00:00	0.087273	0.000000	0.000000	0.000000	92.9500	0	0	0	0.000000	92.95
00:05:00	0.092504	0.000000	0.000000	0.000041	92.9500	0	0	0	0.000041	92.95
00:10:00	0.097948	0.000001	0.000000	0.000167	92.9500	0	0	0	0.000208	92.95
00:15:00	0.103770	0.000001	0.000000	0.000383	92.9500	0	0	0	0.000592	92.95
00:20:00	0.110011	0.000002	0.000000	0.000694	92.9500	0	0	0	0.001286	92.95
00:25:00	0.116649	0.000004	0.000000	0.001107	92.9500	0	0	0	0.002393	92.95
00:30:00	0.123760	0.000005	0.000000	0.001626	92.9500	0	0	0	0.004019	92.95
00:35:00	0.131407	0.000008	0.000000	0.002259	92.9500	0	0	0	0.006278	92.95
00:40:00	0.139562	0.000010	0.000000	0.003028	92.9500	0	0	0	0.009305	92.95
00:45:00	0.148316	0.000013	0.000000	0.003953	92.9500	0	0	0	0.013258	92.95
00:50:00	0.157766	0.000017	0.000000	0.005044	92.9500	0	0	0	0.018302	92.95
00:55:00	0.167873	0.000021	0.000000	0.006312	92.9500	0	0	0	0.024613	92.95
01:00:00	0.178753	0.000026	0.000000	0.007768	92.9500	0	0	0	0.032381	92.95
01:05:00	0.190554	0.000031	0.000000	0.009425	92.9500	0	0	0	0.041806	92.95
01:10:00	0.203223	0.000038	0.000000	0.011295	92.9500	0	0	0	0.053100	92.95
01:15:00	0.216906	0.000045	0.000000	0.013392	92.9500	0	0	0	0.066493	92.95
01:20:00	0.231836	0.000052	0.000000	0.015733	92.9500	0	0	0	0.082226	92.95
01:25:00	0.247940	0.000061	0.000000	0.018333	92.9500	0	0	0	0.100559	92.95
01:30:00	0.265414	0.000071	0.000000	0.021163	92.9500	0	0	0	0.121722	92.95
01:35:00	0.284629	0.000081	0.000000	0.024158	92.9500	0	0	0	0.145880	92.95
01:40:00	0.305488	0.000091	0.000000	0.027330	92.9500	0	0	0	0.173211	92.95
01:45:00	0.328262	0.000102	0.000000	0.030695	92.9500	0	0	0	0.203905	92.95
01:50:00	0.353583	0.000114	0.000000	0.034267	92.9500	0	0	0	0.238172	92.95
01:55:00	0.381319	0.000127	0.000000	0.038067	92.9500	0	0	0	0.276239	92.95
02:00:00	0.411880	0.000140	0.000000	0.042113	92.9500	0	0	0	0.318352	92.95
02:05:00	0.446432	0.000155	0.000000	0.046413	92.9500	0	0	0	0.364765	92.95
02:10:00	0.484822	0.000170	0.000000	0.050965	92.9500	0	0	0	0.415730	92.95
02:15:00	0.527739	0.000186	0.000000	0.055796	92.9500	0	0	0	0.471526	92.95
02:20:00	0.577698	0.000203	0.000000	0.060938	92.9500	0	0	0	0.532463	92.95
02:25:00	0.634681	0.000221	0.000000	0.066426	92.9500	0	0	0	0.598890	92.95
02:30:00	0.700136	0.000241	0.000000	0.072305	92.9600	0.025047932	0	0.025047932	0.646146	92.95
02:35:00	0.781349	0.000262	0.000000	0.078625	92.9600	0.025047932	0	0.025047932	0.699723	92.96
02:40:00	0.880526	0.000285	0.000000	0.085450	92.9600	0.025047932	0	0.025047932	0.760126	92.96
02:45:00	1.002690	0.000310	0.000000	0.092863	92.9600	0.025047932	0	0.025047932	0.827940	92.96
02:50:00	1.198798	0.000337	0.000000	0.100966	92.9600	0.025047932	0	0.025047932	0.903859	92.96
02:55:00	1.518699	0.000366	0.000000	0.109926	92.9600	0.025047932	0	0.025047932	0.988737	92.96
03:00:00	2.039894	0.000400	0.000000	0.120036	92.9600	0.025047932	0	0.025047932	1.083725	92.96
03:05:00	1.518699	0.000439	0.000000	0.131759	92.9600	0.025047932	0	0.025047932	1.190436	92.96
03:10:00	1.198798	0.000484	0.000000	0.145064	92.9700	0.035423125	0	0.035423125	1.300077	92.97
03:15:00	1.002690	0.000531	0.000000	0.159424	92.9700	0.035423125	0	0.035423125	1.424077	92.97
03:20:00	0.880526	0.000582	0.000000	0.174493	92.9700	0.035423125	0	0.035423125	1.563147	92.97
03:25:00	0.781349	0.000633	0.000000	0.190041	92.9700	0.035423125	0	0.035423125	1.717765	92.97
03:30:00	0.700136	0.000686	0.000000	0.205889	92.9700	0.035423125	0	0.035423125	1.888230	92.97
03:35:00	0.634681	0.000740	0.000000	0.221881	92.9800	0.043384291	0	0.043384291	2.066727	92.98
03:40:00	0.577698	0.000793	0.000000	0.237867	92.9800	0.043384291	0	0.043384291	2.261210	92.98
03:45:00	0.527739	0.000846	0.000000	0.253707	92.9800	0.043384291	0	0.043384291	2.471532	92.98
03:50:00	0.484822	0.000898	0.000000	0.269255	92.9900	0.050095864	0	0.050095864	2.690691	92.99
03:55:00	0.446432	0.000948	0.000000	0.284364	92.9900	0.050095864	0	0.050095864	2.924959	92.99
04:00:00	0.411880	0.000996	0.000000	0.298879	92.9900	0.050095864	0	0.050095864	3.173743	92.99
04:05:00	0.381319	0.001042	0.000000	0.312629	93.0000	0.056008879	0	0.056008879	3.430363	93
04:10:00	0.353583	0.001085	0.000000	0.325418	93.0000	0.056008879	0	0.056008879	3.699772	93
04:15:00	0.328262	0.001123	0.000000	0.337016	93.0100	0.061354653	0	0.061354653	3.975433	93.01
04:20:00	0.305488	0.001157	0.000000	0.347121	93.0100	0.061354653	0	0.061354653	4.261200	93.01
04:25:00	0.284629	0.001184	0.000000	0.355261	93.0200	0.066270599	0	0.066270599	4.550190	93.02
04:30:00	0.265414	0.001202	0.000000	0.360686	93.0200	0.066270599	0	0.066270599	4.844606	93.02
04:35:00	0.247940	0.001210	0.000000	0.363117	93.0300	0.070846251	0	0.070846251	5.136877	93.02
04:40:00	0.231836	0.001211	0.000000	0.363348	93.0300	0.070846251	0	0.070846251	5.429378	93.03
04:45:00	0.216906	0.001206	0.000000	0.361880	93.0300	0.070846251	0	0.070846251	5.720412	93.03
04:50:00	0.203223	0.001197	0.000000	0.359022	93.0400	0.075143797	0	0.075143797	6.004290	93.04
04:55:00	0.190554	0.001183	0.000000	0.354978	93.0400	0.075143797	0	0.075143797	6.284124	93.04
05:00:00	0.178753	0.001166	0.000000	0.349918	93.0500	0.079208516	0	0.079208516	6.554834	93.05
05:05:00	0.167873	0.001147	0.000000	0.343982	93.0500	0.079208516	0	0.079208516	6.819608	93.05
05:10:00	0.157766	0.001124	0.000000	0.337288	93.0600	0.083074593	0	0.083074593	7.073822	93.05
05:15:00	0.148316	0.001100	0.000000	0.329959	93.0600	0.083074593	0	0.083074593	7.320706	93.06
05:20:00	0.139562	0.001074	0.000000	0.322095	93.0600	0.083074593	0	0.083074593	7.559727	93.06
05:25:00	0.131407	0.001046	0.000000	0.313788	93.0700	0.086768582	0	0.086768582	7.786745	93.06
05:30:00	0.123760	0.001017	0.000000	0.305123	93.0700	0.086768582	0	0.086768582	8.005100	93.07
05:35:00	0.116649	0.000987	0.000000	0.296188	93.0700	0.086768582	0	0.086768582	8.214519	93.07
05:40:00	0.110011	0.000957	0.000000	0.287070	93.0800	0.090311604	0	0.090311604	8.411277	93.07
05:45:00	0.103770	0.000926	0.000000	0.277868	93.0800	0.090311604	0	0.090311604	8.598833	93.08
05:50:00	0.097948	0.000896	0.000000	0.268711	93.0800	0.090311604	0	0.090311604	8.777233	93.08
05:55:00	0.092504	0.000866	0.000000	0.259779	93.0800	0.090311604	0	0.090311604	8.946701	93.08
06:00:00	0.087273	0.000837	0.000000	0.251202	93.0900	0.093720781	0	0.093720781	9.104182	93.09
06:05:00	0.000000	0.000809	0.000000	0.242848	93.0900	0.093720781	0	0.093720781	9.253310	93.09
06:10:00	0.000000	0.000782	0.000000	0.234586	93.0900	0.093720781	0	0.093720781	9.394175	93.09
06:15:00	0.000000	0.000754	0.000000	0.226325	93.0900	0.093720781	0	0.093720781	9.526780	93.09
06:20:00	0.000000	0.000727	0.000000	0.218052	93.0900	0.093720781	0	0.093720781	9.651111	93.09
06:25:00	0.000000	0.000699	0.000000	0.209759	93.1000	0.097010224	0	0.097010224	9.763860	93.1
06:30:00	0.000000	0.000671	0.000000	0.201443	93.1000	0.097010224	0	0.097010224	9.868292	93.1
06:35:00	0.000000	0.000644	0.000000	0.193106	93.1000	0.097010224	0	0.097010224	9.964388	93.1
06:40:00	0.000000	0.000616	0.000000	0.184751	93.1000	0.097010224	0	0.097010224	10.052128	93.1
06:45:00	0.000000	0.000588	0.000000	0.176383	93.1000	0.097010224	0	0.097010224	10.131501	93.1
06:50:00	0.000000	0.000560	0.000000	0.168011	93.1000	0.097010224	0	0.097010224	10.202502	93.1
06:55:00	0.000000	0.000532	0.000000	0.159641	93.1000	0.097010224	0	0.097010224	10.265132	93.1
07:00:00	0.000000	0.000504	0.000000	0.151282	93.1100	0.100191729	0	0.100191729	10.316223	93.1
07:05:00	0.000000	0.000476	0.000000	0.142945	93.1100	0.100191729	0	0.100191729	10.358976	93.1
07:10:00	0.000000	0.000449	0.000000	0.134640	93.1100	0.100191729	0	0.100191729	10.393424	93.1
07:15:00	0.000000	0.000421	0.000000	0.126379	93.1100	0.100191729	0	0.100191729	10.419611	93.11
07:20:00	0.000000	0.000394	0.000000	0.118176	93.1100	0.100191729	0	0.100191729	10.437595	93.11
07:25:00	0.000000	0.000367	0.000000	0.110044	93.1100	0.100191729	0	0.100191729	10.447448	93.11
07:30:00	0.000000	0.000340	0.000000	0.102000	93.1100	0.100191729	0	0.100191729	10.449256	93.11
07:35:00	0.000000	0.000314	0.000000	0.094118	93.1100	0.100191729	0	0.100191729	10.443182	93.11
07:40:00	0.000000	0.000288	0.000000	0.086512	93.1100	0.100191729	0	0.100191729	10.429503	93.11
07:45:00	0.000000	0.000264	0.000000	0.079198	93.1100	0.100191729	0	0.100191729	10.408509	93.11
07:50:00	0.000000	0.000241	0.000000	0.072195	93.1100	0.100191729	0	0.100191729	10.380512	93.1
07:55:00	0.000000	0.000218	0.000000	0.065526	93.1100	0.100191729	0	0.100191729	10.345847	93.1
08:00:00	0.000000	0.000197	0.000000	0.059226	93.1100	0.100191729	0	0.100191729	10.304881	93.1
08:05:00	0.000000	0.000178	0.000000	0.053347	93.1000	0.097010224	0	0.097010224	10.261218	93.1

08:10:00	0.000000	0.000160	0.000000	0.047978	93.1000	0.097010224	0	0.097010224	10.212186	93.1
08:15:00	0.000000	0.000144	0.000000	0.043245	93.1000	0.097010224	0	0.097010224	10.158420	93.1
08:20:00	0.000000	0.000130	0.000000	0.039056	93.1000	0.097010224	0	0.097010224	10.100466	93.1
08:25:00	0.000000	0.000118	0.000000	0.035302	93.1000	0.097010224	0	0.097010224	10.038758	93.1
08:30:00	0.000000	0.000106	0.000000	0.031912	93.1000	0.097010224	0	0.097010224	9.973660	93.1
08:35:00	0.000000	0.000096	0.000000	0.028844	93.1000	0.097010224	0	0.097010224	9.905493	93.1
08:40:00	0.000000	0.000087	0.000000	0.026062	93.1000	0.097010224	0	0.097010224	9.834544	93.1
08:45:00	0.000000	0.000078	0.000000	0.023538	93.1000	0.097010224	0	0.097010224	9.761072	93.1
08:50:00	0.000000	0.000071	0.000000	0.021251	93.1000	0.097010224	0	0.097010224	9.685313	93.09
08:55:00	0.000000	0.000064	0.000000	0.019179	93.0900	0.093720781	0	0.093720781	9.610771	93.09
09:00:00	0.000000	0.000058	0.000000	0.017298	93.0900	0.093720781	0	0.093720781	9.534348	93.09
09:05:00	0.000000	0.000052	0.000000	0.015569	93.0900	0.093720781	0	0.093720781	9.456196	93.09
09:10:00	0.000000	0.000047	0.000000	0.013979	93.0900	0.093720781	0	0.093720781	9.376455	93.09
09:15:00	0.000000	0.000042	0.000000	0.012519	93.0900	0.093720781	0	0.093720781	9.295253	93.09
09:20:00	0.000000	0.000037	0.000000	0.011177	93.0900	0.093720781	0	0.093720781	9.212709	93.09
09:25:00	0.000000	0.000033	0.000000	0.009945	93.0900	0.093720781	0	0.093720781	9.128933	93.09
09:30:00	0.000000	0.000029	0.000000	0.008816	93.0900	0.093720781	0	0.093720781	9.044029	93.08
09:35:00	0.000000	0.000026	0.000000	0.007782	93.0800	0.090311604	0	0.090311604	8.961499	93.08
09:40:00	0.000000	0.000023	0.000000	0.006838	93.0800	0.090311604	0	0.090311604	8.878025	93.08
09:45:00	0.000000	0.000020	0.000000	0.005976	93.0800	0.090311604	0	0.090311604	8.793689	93.08
09:50:00	0.000000	0.000017	0.000000	0.005191	93.0800	0.090311604	0	0.090311604	8.708569	93.08
09:55:00	0.000000	0.000015	0.000000	0.004479	93.0800	0.090311604	0	0.090311604	8.622736	93.08
10:00:00	0.000000	0.000013	0.000000	0.003835	93.0800	0.090311604	0	0.090311604	8.536259	93.08
10:05:00	0.000000	0.000011	0.000000	0.003254	93.0800	0.090311604	0	0.090311604	8.449201	93.07
10:10:00	0.000000	0.000009	0.000000	0.002732	93.0800	0.090311604	0	0.090311604	8.361622	93.07
10:15:00	0.000000	0.000008	0.000000	0.002266	93.0700	0.086768582	0	0.086768582	8.277119	93.07
10:20:00	0.000000	0.000006	0.000000	0.001853	93.0700	0.086768582	0	0.086768582	8.192204	93.07
10:25:00	0.000000	0.000005	0.000000	0.001489	93.0700	0.086768582	0	0.086768582	8.106925	93.07
10:30:00	0.000000	0.000004	0.000000	0.001172	93.0700	0.086768582	0	0.086768582	8.021328	93.07
10:35:00	0.000000	0.000003	0.000000	0.000898	93.0700	0.086768582	0	0.086768582	7.935457	93.07
10:40:00	0.000000	0.000002	0.000000	0.000665	93.0700	0.086768582	0	0.086768582	7.849353	93.07
10:45:00	0.000000	0.000002	0.000000	0.000470	93.0700	0.086768582	0	0.086768582	7.763055	93.06
10:50:00	0.000000	0.000001	0.000000	0.000312	93.0600	0.083074593	0	0.083074593	7.680292	93.06
10:55:00	0.000000	0.000001	0.000000	0.000189	93.0600	0.083074593	0	0.083074593	7.597407	93.06
11:00:00	0.000000	0.000000	0.000000	0.000098	93.0600	0.083074593	0	0.083074593	7.514430	93.06
11:05:00	0.000000	0.000000	0.000000	0.000037	93.0600	0.083074593	0	0.083074593	7.431393	93.06
11:10:00	0.000000	0.000000	0.000000	0.000006	93.0600	0.083074593	0	0.083074593	7.348324	93.06
11:15:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.265249	93.06
11:20:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.182175	93.06
11:25:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.099100	93.05
11:30:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	7.019892	93.05
11:35:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.940683	93.05
11:40:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.861475	93.05
11:45:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.782266	93.05
11:50:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.703058	93.05
11:55:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.623849	93.05
12:00:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.544641	93.05
12:05:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.465432	93.04
12:10:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.390288	93.04
12:15:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.315145	93.04
12:20:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.240001	93.04
12:25:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.164857	93.04
12:30:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.089713	93.04
12:35:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.014569	93.04
12:40:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	5.939426	93.04
12:45:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	5.864282	93.04
12:50:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	5.789138	93.03
12:55:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.718292	93.03
13:00:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.647445	93.03
13:05:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.576599	93.03
13:10:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.505753	93.03
13:15:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.434907	93.03
13:20:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.364060	93.03
13:25:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.293214	93.03
13:30:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.222368	93.03
13:35:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.151522	93.02
13:40:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	5.085251	93.02
13:45:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	5.018981	93.02
13:50:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.952710	93.02
13:55:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.886439	93.02
14:00:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.820169	93.02
14:05:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.753898	93.02
14:10:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.687628	93.02
14:15:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.621357	93.02
14:20:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.555086	93.02
14:25:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.488816	93.01
14:30:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.427461	93.01
14:35:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.366106	93.01
14:40:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.304752	93.01
14:45:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.243397	93.01
14:50:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.182042	93.01
14:55:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.120688	93.01
15:00:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.059333	93.01
15:05:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	3.997978	93.01
15:10:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	3.936624	93.01
15:15:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	3.875269	93
15:20:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.819260	93
15:25:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.763251	93
15:30:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.707243	93
15:35:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.651234	93
15:40:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.595225	93
15:45:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.539216	93
15:50:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.483207	93
15:55:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.427198	93
16:00:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.371189	93
16:05:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.315180	93
16:10:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.259172	93
16:15:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.203163	92.99
16:20:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.153067	92.99
16:25:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.102971	92.99
16:30:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.052875	92.99
16:35:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.002779	92.99
16:40:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.952683	92.99
16:45:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.902587	92.99
16:50:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.852492	92.99
16:55:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.802396	92.99
17:00:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.752300	92.99
17:05:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.702204	92.99
17:10:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.652108	92.99
17:15:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.602012	92.99
17:20:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.551916	92.98
17:25:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.508532	92.98
17:30:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.465148	92.98
17:35:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.421764	92.98
17:40:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.378379	92.98
17:45:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.334995	92.98
17:50:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.291611	92.98
17:55:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.248226	92.98
18:00:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.204842	92.98
18:05:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.161458	92.98
18:10:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.118073	92.98
18:15:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.074689	92.98
18:20:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.031305	92.98
18:25:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	1.987921	92.98
18:30:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	1.944536	92.97
18:35:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.909113	92.97
18:40:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.873690	92.97
18:45:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.838267	92.97
18:50:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.802844	92.97

18:55:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.767421	92.97
19:00:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.731998	92.97
19:05:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.696574	92.97
19:10:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.661151	92.97
19:15:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.625728	92.97
19:20:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.590305	92.97
19:25:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.554882	92.97
19:30:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.519459	92.97
19:35:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.484036	92.97
19:40:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.448613	92.97
19:45:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.413189	92.97
19:50:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.377766	92.97
19:55:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.342343	92.97
20:00:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.306920	92.97
20:05:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.271497	92.96
20:10:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.246449	92.96
20:15:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.221401	92.96
20:20:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.196353	92.96
20:25:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.171305	92.96
20:30:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.146257	92.96
20:35:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.121209	92.96
20:40:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.096161	92.96
20:45:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.071113	92.96
20:50:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.046066	92.96
20:55:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	1.021018	92.96
21:00:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.995970	92.96
21:05:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.970922	92.96
21:10:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.945874	92.96
21:15:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.920826	92.96
21:20:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.895778	92.96
21:25:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.870730	92.96
21:30:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.845682	92.96
21:35:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.820634	92.96
21:40:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.795586	92.96
21:45:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.770538	92.96
21:50:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.745490	92.96
21:55:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.720442	92.96
22:00:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.695394	92.96
22:05:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.670347	92.96
22:10:00	0.000000	0.000000	0.000000	0.000000	92.9600	0.025047932	0	0.025047932	0.645299	92.95
22:15:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:20:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:25:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:30:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:35:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:40:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:45:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:50:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
22:55:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:00:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:05:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:10:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:15:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:20:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:25:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:30:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:35:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:40:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:45:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:50:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95
23:55:00	0.000000	0.000000	0.000000	0.000000	92.9500	0	0	0	0.645299	92.95


Attenuation
Volume (m3)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Level
Level (maOD)
93.12
93.1
93.08
93.06
93.04
93.02
93
92.98
92.96
92.94
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Outflow
Discharge (m3/s)
0.12
0.1
0.08
0.06
0.04
0.02
0
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)

Templars Way 1 in 100 Tank 1

			Rate / vol	Exceedance over greenfield	% improvement
Inflows		Greenfield Runoff (l/s)	1.78		
Return Period (yrs)	100	Greenfield Vol (m3)	25.89		
Time Step (mins)	5	Brownfield Runoff (l/s)	2.73	0.95	
Column ref Rainfall	58	Brownfield Vol (m3)	35.19	9.30	
Column ref Runoff	63	Model Rate (l/s)	1.73	-0.05	104.78
Column ref Baseflow	64	Model Vol (m3)	10.80	-15.09	262.26
Account for baseflow?	0				
Climate Change Rainfall Correction	45		level / vol	Spare Capacity	
Storage		Attenuation (m3)	29.25	0.82	
Lagoon area at rest (m2)	65	Freeboard (m)	93.40	0.0100	
Lagoon outlet invert (maOD)	92.95				
Lagoon Area at max freeboard (m2)	65				
Lagoon max freeboard (maOD)	93.4				
Outflows (Orifice)					
Discharge coeffcient (m)	0.6				
Orifice diameter (m)	0.02				
Orifice area (m2)	0.000314159				
2nd orifice elevation (maOD)	93.12				
2nd orifice diameter (m)	0.033				
2nd orifice area (m2)	0.000855299				
Mass Balance	0.00				
Peak Flow (l/s)	1.73				
6hr cum vol (m3)	10.80				
Peak Attenuation (m3)	28.43				
Peak Head (maOD)	93.39				

Time	Design Rainfall	Direct Runoff	Baseflow	Total Flow	Starting head	Potential Outfl	Potential Outflow 2	Actual Outflow	Attenuation	End Head
hh:mm:ss	mm	m3/s	m3/s	m3	maOD	m3	m3	m3	m3	maOD
00:00:00	0.273853	0.000000	0.000000	0.000000	92.9500	0	0	0	0.000000	92.95
00:05:00	0.290268	0.000000	0.000000	0.000129	92.9500	0	0	0	0.000129	92.95
00:10:00	0.307352	0.000002	0.000000	0.000525	92.9500	0	0	0	0.000654	92.95
00:15:00	0.325621	0.000004	0.000000	0.001218	92.9500	0	0	0	0.001872	92.95
00:20:00	0.345204	0.000008	0.000000	0.002260	92.9500	0	0	0	0.004132	92.95
00:25:00	0.366034	0.000012	0.000000	0.003689	92.9500	0	0	0	0.007821	92.95
00:30:00	0.388347	0.000018	0.000000	0.005530	92.9500	0	0	0	0.013351	92.95
00:35:00	0.412343	0.000026	0.000000	0.007806	92.9500	0	0	0	0.021158	92.95
00:40:00	0.437931	0.000035	0.000000	0.010546	92.9500	0	0	0	0.031704	92.95
00:45:00	0.465400	0.000046	0.000000	0.013778	92.9500	0	0	0	0.045482	92.95
00:50:00	0.495053	0.000058	0.000000	0.017533	92.9500	0	0	0	0.063015	92.95
00:55:00	0.526771	0.000073	0.000000	0.021844	92.9500	0	0	0	0.084860	92.95
01:00:00	0.560910	0.000089	0.000000	0.026748	92.9500	0	0	0	0.111608	92.95
01:05:00	0.597939	0.000108	0.000000	0.032282	92.9500	0	0	0	0.143890	92.95
01:10:00	0.637693	0.000128	0.000000	0.038489	92.9500	0	0	0	0.182379	92.95
01:15:00	0.680630	0.000151	0.000000	0.045413	92.9500	0	0	0	0.227792	92.95
01:20:00	0.727477	0.000177	0.000000	0.053104	92.9500	0	0	0	0.280896	92.95
01:25:00	0.778012	0.000205	0.000000	0.061613	92.9500	0	0	0	0.342509	92.95
01:30:00	0.832843	0.000236	0.000000	0.070848	92.9500	0	0	0	0.413357	92.95
01:35:00	0.893138	0.000269	0.000000	0.080607	92.9500	0	0	0	0.493963	92.95
01:40:00	0.958591	0.000303	0.000000	0.090911	92.9500	0	0	0	0.584874	92.95
01:45:00	1.030055	0.000339	0.000000	0.101755	92.9600	0.025047932	0	0.025047932	0.661581	92.96
01:50:00	1.109508	0.000377	0.000000	0.113152	92.9600	0.025047932	0	0.025047932	0.749685	92.96
01:55:00	1.196543	0.000417	0.000000	0.125154	92.9600	0.025047932	0	0.025047932	0.849791	92.96
02:00:00	1.292438	0.000459	0.000000	0.137821	92.9600	0.025047932	0	0.025047932	0.962563	92.96
02:05:00	1.400860	0.000504	0.000000	0.151218	92.9600	0.025047932	0	0.025047932	1.088734	92.96
02:10:00	1.521322	0.000551	0.000000	0.165424	92.9600	0.025047932	0	0.025047932	1.229110	92.96
02:15:00	1.655994	0.000602	0.000000	0.180526	92.9700	0.035423125	0	0.035423125	1.374213	92.97
02:20:00	1.812760	0.000655	0.000000	0.196625	92.9700	0.035423125	0	0.035423125	1.535414	92.97
02:25:00	1.991567	0.000713	0.000000	0.213840	92.9700	0.035423125	0	0.035423125	1.713831	92.97
02:30:00	2.196959	0.000774	0.000000	0.232312	92.9700	0.035423125	0	0.035423125	1.910720	92.97
02:35:00	2.451795	0.000841	0.000000	0.252209	92.9800	0.043384291	0	0.043384291	2.119545	92.98
02:40:00	2.763005	0.000912	0.000000	0.273740	92.9800	0.043384291	0	0.043384291	2.349900	92.98
02:45:00	3.146342	0.000991	0.000000	0.297171	92.9900	0.050095864	0	0.050095864	2.596976	92.98
02:50:00	3.761710	0.001076	0.000000	0.322846	92.9900	0.050095864	0	0.050095864	2.869726	92.99
02:55:00	4.765527	0.001171	0.000000	0.351304	92.9900	0.050095864	0	0.050095864	3.170934	92.99
03:00:00	6.400986	0.001278	0.000000	0.383501	93.0000	0.056008879	0	0.056008879	3.498426	93
03:05:00	4.765527	0.001403	0.000000	0.420964	93.0100	0.061354653	0	0.061354653	3.858035	93
03:10:00	3.761710	0.001545	0.000000	0.463626	93.0100	0.061354653	0	0.061354653	4.260307	93.01
03:15:00	3.146342	0.001699	0.000000	0.509798	93.0200	0.066270599	0	0.066270599	4.703834	93.02
03:20:00	2.763005	0.001861	0.000000	0.558377	93.0300	0.070846251	0	0.070846251	5.191365	93.02
03:25:00	2.451795	0.002029	0.000000	0.608615	93.0300	0.070846251	0	0.070846251	5.729133	93.03
03:30:00	2.196959	0.002200	0.000000	0.659932	93.0400	0.075143797	0	0.075143797	6.313921	93.04
03:35:00	1.991567	0.002373	0.000000	0.711805	93.0500	0.079208516	0	0.079208516	6.946517	93.05
03:40:00	1.812760	0.002546	0.000000	0.763752	93.0600	0.083074593	0	0.083074593	7.627195	93.06
03:45:00	1.655994	0.002718	0.000000	0.815311	93.0700	0.086768582	0	0.086768582	8.355737	93.07
03:50:00	1.521322	0.002887	0.000000	0.866018	93.0900	0.093720781	0	0.093720781	9.128034	93.09
03:55:00	1.400860	0.003051	0.000000	0.915392	93.1000	0.097010224	0	0.097010224	9.946416	93.1
04:00:00	1.292438	0.003210	0.000000	0.962929	93.1100	0.100191729	0	0.100191729	10.809153	93.11
04:05:00	1.196543	0.003360	0.000000	1.008075	93.1300	0.106269376	0.068192995	0.174462372	11.642765	93.12
04:10:00	1.109508	0.003501	0.000000	1.050189	93.1400	0.109181405	0.096439459	0.205620864	12.487333	93.14
04:15:00	1.030055	0.003628	0.000000	1.088523	93.1500	0.112017758	0.118113733	0.230131491	13.345725	93.15
04:20:00	0.958591	0.003740	0.000000	1.122088	93.1700	0.117485216	0.152484173	0.269969389	14.197844	93.16
04:25:00	0.893138	0.003831	0.000000	1.149346	93.1800	0.120125663	0.167038043	0.287163706	15.060026	93.18
04:30:00	0.832843	0.003893	0.000000	1.167836	93.1900	0.122709306	0.180421707	0.303131013	15.924731	93.19
04:35:00	0.778012	0.003922	0.000000	1.176618	93.2100	0.127719895	0.204578986	0.332298882	16.769050	93.2
04:40:00	0.727477	0.003927	0.000000	1.178238	93.2200	0.130152874	0.215645186	0.34579806	17.601490	93.22
04:45:00	0.680630	0.003914	0.000000	1.174312	93.2300	0.132541199	0.226170579	0.358711778	18.417090	93.23
04:50:00	0.637693	0.003886	0.000000	1.165829	93.2500	0.137193175	0.245873342	0.383066517	19.199853	93.24
04:55:00	0.597939	0.003845	0.000000	1.153454	93.2600	0.139460984	0.255154825	0.39461581	19.958690	93.25
05:00:00	0.560910	0.003792	0.000000	1.137730	93.2700	0.141692502	0.264110336	0.405802838	20.690618	93.26
05:05:00	0.526771	0.003730	0.000000	1.119110	93.2800	0.143889416	0.272771982	0.416661398	21.393067	93.27
05:10:00	0.495053	0.003660	0.000000	1.097978	93.2900	0.146053288	0.281166923	0.427220211	22.063824	93.28
05:15:00	0.465400	0.003582	0.000000	1.074727	93.3000	0.148185565	0.289318377	0.437503942	22.701048	93.29
05:20:00	0.437931	0.003499	0.000000	1.049688	93.3100	0.150287593	0.297246376	0.447533969	23.303202	93.3
05:25:00	0.412343	0.003411	0.000000	1.023160	93.3200	0.152360624	0.304968347	0.45732897	23.869033	93.31
05:30:00	0.388347	0.003318	0.000000	0.995435	93.3300	0.154405824	0.312499564	0.466905388	24.397563	93.32
05:35:00	0.366034	0.003223	0.000000	0.966798	93.3400	0.156424287	0.319853501	0.476277787	24.888083	93.33
05:40:00	0.345204	0.003125	0.000000	0.937536	93.3400	0.156424287	0.319853501	0.476277787	25.349342	93.33
05:45:00	0.325621	0.003027	0.000000	0.907969	93.3500	0.158417033	0.327042117	0.48545915	25.771852	93.34
05:50:00	0.307352	0.002928	0.000000	0.878509	93.3600	0.160385022	0.334076086	0.494461108	26.155900	93.35
05:55:00	0.290268	0.002832	0.000000	0.849734	93.3600	0.160385022	0.334076086	0.494461108	26.511173	93.35
06:00:00	0.273853	0.002740	0.000000	0.822075	93.3700	0.162329154	0.340964977	0.503294131	26.829953	93.36
06:05:00	0.000000	0.002650	0.000000	0.795115	93.3700	0.162329154	0.340964977	0.503294131	27.121774	93.36
06:10:00	0.000000	0.002561	0.000000	0.768423	93.3700	0.162329154	0.340964977	0.503294131	27.386903	93.37
06:15:00	0.000000	0.002472	0.000000	0.741706	93.3800	0.164250276	0.347717415	0.51196769	27.616641	93.37
06:20:00	0.000000	0.002383	0.000000	0.714920	93.3800	0.164250276	0.347717415	0.51196769	27.819594	93.37
06:25:00	0.000000	0.002293	0.000000	0.688042	93.3800	0.164250276	0.347717415	0.51196769	27.995668	93.38
06:30:00	0.000000	0.002204	0.000000	0.661064	93.3900	0.166149186	0.354341199	0.520490384	28.136242	93.38
06:35:00	0.000000	0.002113	0.000000	0.633994	93.3900	0.166149186	0.354341199	0.520490384	28.249746	93.38
06:40:00	0.000000	0.002023	0.000000	0.606844	93.3900	0.166149186	0.354341199	0.520490384	28.336100	93.38
06:45:00	0.000000	0.001932	0.000000	0.579631	93.3900	0.166149186	0.354341199	0.520490384	28.395241	93.38
06:50:00	0.000000	0.001841	0.000000	0.552380	93.3900	0.166149186	0.354341199	0.520490384	28.427130	93.38
06:55:00	0.000000	0.001750	0.000000	0.525115	93.3900	0.166149186	0.354341199	0.520490384	28.431755	93.38
07:00:00	0.000000	0.001660	0.000000	0.497866	93.3900	0.166149186	0.354341199	0.520490384	28.409131	93.38
07:05:00	0.000000	0.001569	0.000000	0.470668	93.3900	0.166149186	0.354341199	0.520490384	28.359308	93.38
07:10:00	0.000000	0.001479	0.000000	0.443554	93.3900	0.166149186	0.354341199	0.520490384	28.282372	93.38
07:15:00	0.000000	0.001389	0.000000	0.416564	93.3900	0.166149186	0.354341199	0.520490384	28.178445	93.38
07:20:00	0.000000	0.001299	0.000000	0.389742	93.3800	0.164250276	0.347717415	0.51196769	28.056219	93.38
07:25:00	0.000000	0.001210	0.000000	0.363133	93.3800	0.164250276	0.347717415	0.51196769	27.907384	93.37
07:30:00	0.000000	0.001123	0.000000	0.336789	93.3800	0.164250276	0.347717415	0.51196769	27.732206	93.37
07:35:00	0.000000	0.001037	0.000000	0.310958	93.3800	0.164250276	0.347717415	0.51196769	27.531196	93.37
07:40:00	0.000000	0.000953	0.000000	0.286021	93.3700	0.162329154	0.340964977	0.503294131	27.313923	93.37
07:45:00	0.000000	0.000873	0.000000	0.262027	93.3700	0.162329154	0.340964977	0.503294131	27.072656	93.36
07:50:00	0.000000	0.000797	0.000000	0.239038	93.3700	0.162329154	0.340964977	0.503294131	26.808400	93.36
07:55:00	0.000000	0.000724	0.000000	0.217133	93.3600	0.160385022	0.334076086	0.494461108	26.531072	93.35
08:00:00	0.000000	0.000655	0.000000	0.196420	93.3600	0.160385022	0.334076086	0.494461108	26.233030	93.35
08:05:00	0.000000	0.000590	0.000000	0.177070	93.3500	0.158417033	0.327042117	0.48545915	25.924641	93.34

08:10:00	0.000000	0.000531	0.000000	0.159377	93.3500	0.158417033	0.327042117	0.48545915	25.598559	93.34
08:15:00	0.000000	0.000479	0.000000	0.143747	93.3400	0.156424287	0.319853501	0.476277787	25.266028	93.33
08:20:00	0.000000	0.000433	0.000000	0.129896	93.3400	0.156424287	0.319853501	0.476277787	24.919647	93.33
08:25:00	0.000000	0.000392	0.000000	0.117467	93.3300	0.154405824	0.312499564	0.466905388	24.570208	93.32
08:30:00	0.000000	0.000354	0.000000	0.106234	93.3200	0.152360624	0.304968347	0.45732897	24.219113	93.32
08:35:00	0.000000	0.000320	0.000000	0.096056	93.3200	0.152360624	0.304968347	0.45732897	23.857841	93.31
08:40:00	0.000000	0.000289	0.000000	0.086823	93.3100	0.150287593	0.297246376	0.447533969	23.497130	93.31
08:45:00	0.000000	0.000261	0.000000	0.078443	93.3100	0.150287593	0.297246376	0.447533969	23.128039	93.3
08:50:00	0.000000	0.000236	0.000000	0.070842	93.3000	0.148185565	0.289318377	0.437503942	22.761378	93.3
08:55:00	0.000000	0.000213	0.000000	0.063955	93.3000	0.148185565	0.289318377	0.437503942	22.387829	93.29
09:00:00	0.000000	0.000192	0.000000	0.057697	93.2900	0.146053288	0.281166923	0.427220211	22.018305	93.28
09:05:00	0.000000	0.000173	0.000000	0.051944	93.2800	0.143889416	0.272771982	0.416661398	21.653587	93.28
09:10:00	0.000000	0.000156	0.000000	0.046652	93.2800	0.143889416	0.272771982	0.416661398	21.283578	93.27
09:15:00	0.000000	0.000139	0.000000	0.041786	93.2700	0.141692502	0.264110336	0.405802838	20.919561	93.27
09:20:00	0.000000	0.000124	0.000000	0.037315	93.2700	0.141692502	0.264110336	0.405802838	20.551072	93.26
09:25:00	0.000000	0.000111	0.000000	0.033210	93.2600	0.139460984	0.255154825	0.39461581	20.189666	93.26
09:30:00	0.000000	0.000098	0.000000	0.029445	93.2600	0.139460984	0.255154825	0.39461581	19.824495	93.25
09:35:00	0.000000	0.000087	0.000000	0.025997	93.2500	0.137193175	0.245873342	0.383066517	19.467426	93.24
09:40:00	0.000000	0.000076	0.000000	0.022844	93.2400	0.134887243	0.236227466	0.371114709	19.119155	93.24
09:45:00	0.000000	0.000067	0.000000	0.019968	93.2400	0.134887243	0.236227466	0.371114709	18.768008	93.23
09:50:00	0.000000	0.000058	0.000000	0.017348	93.2300	0.132541199	0.226170579	0.358711778	18.426645	93.23
09:55:00	0.000000	0.000050	0.000000	0.014970	93.2300	0.132541199	0.226170579	0.358711778	18.082904	93.22
10:00:00	0.000000	0.000043	0.000000	0.012818	93.2200	0.130152874	0.215645186	0.34579806	17.749924	93.22
10:05:00	0.000000	0.000036	0.000000	0.010877	93.2200	0.130152874	0.215645186	0.34579806	17.415003	93.21
10:10:00	0.000000	0.000030	0.000000	0.009135	93.2100	0.127719895	0.204578986	0.332298882	17.091839	93.21
10:15:00	0.000000	0.000025	0.000000	0.007579	93.2100	0.127719895	0.204578986	0.332298882	16.767119	93.2
10:20:00	0.000000	0.000021	0.000000	0.006198	93.2000	0.125239661	0.192878918	0.318118579	16.455198	93.2
10:25:00	0.000000	0.000017	0.000000	0.004981	93.2000	0.125239661	0.192878918	0.318118579	16.142060	93.19
10:30:00	0.000000	0.000013	0.000000	0.003919	93.1900	0.122709306	0.180421707	0.303131013	15.842848	93.19
10:35:00	0.000000	0.000010	0.000000	0.003003	93.1900	0.122709306	0.180421707	0.303131013	15.542720	93.18
10:40:00	0.000000	0.000007	0.000000	0.002224	93.1800	0.120125663	0.167038043	0.287163706	15.257779	93.18
10:45:00	0.000000	0.000005	0.000000	0.001574	93.1800	0.120125663	0.167038043	0.287163706	14.972189	93.18
10:50:00	0.000000	0.000003	0.000000	0.001045	93.1800	0.120125663	0.167038043	0.287163706	14.686071	93.17
10:55:00	0.000000	0.000002	0.000000	0.000632	93.1700	0.117485216	0.152484173	0.269969389	14.416734	93.17
11:00:00	0.000000	0.000001	0.000000	0.000328	93.1700	0.117485216	0.152484173	0.269969389	14.147092	93.16
11:05:00	0.000000	0.000000	0.000000	0.000125	93.1600	0.114784045	0.136385991	0.251170036	13.896047	93.16
11:10:00	0.000000	0.000000	0.000000	0.000019	93.1600	0.114784045	0.136385991	0.251170036	13.644897	93.15
11:15:00	0.000000	0.000000	0.000000	0.000000	93.1500	0.112017758	0.118113733	0.230131491	13.414765	93.15
11:20:00	0.000000	0.000000	0.000000	0.000000	93.1500	0.112017758	0.118113733	0.230131491	13.184634	93.15
11:25:00	0.000000	0.000000	0.000000	0.000000	93.1500	0.112017758	0.118113733	0.230131491	12.954502	93.14
11:30:00	0.000000	0.000000	0.000000	0.000000	93.1400	0.109181405	0.096439459	0.205620864	12.748881	93.14
11:35:00	0.000000	0.000000	0.000000	0.000000	93.1400	0.109181405	0.096439459	0.205620864	12.543260	93.14
11:40:00	0.000000	0.000000	0.000000	0.000000	93.1400	0.109181405	0.096439459	0.205620864	12.337640	93.13
11:45:00	0.000000	0.000000	0.000000	0.000000	93.1300	0.106269376	0.068192995	0.174462372	12.163177	93.13
11:50:00	0.000000	0.000000	0.000000	0.000000	93.1300	0.106269376	0.068192995	0.174462372	11.988715	93.13
11:55:00	0.000000	0.000000	0.000000	0.000000	93.1300	0.106269376	0.068192995	0.174462372	11.814252	93.13
12:00:00	0.000000	0.000000	0.000000	0.000000	93.1300	0.106269376	0.068192995	0.174462372	11.639790	93.12
12:05:00	0.000000	0.000000	0.000000	0.000000	93.1200	0.10327527	1.99125E-07	0.103275469	11.536515	93.12
12:10:00	0.000000	0.000000	0.000000	0.000000	93.1200	0.10327527	1.99125E-07	0.103275469	11.433239	93.12
12:15:00	0.000000	0.000000	0.000000	0.000000	93.1200	0.10327527	1.99125E-07	0.103275469	11.329964	93.12
12:20:00	0.000000	0.000000	0.000000	0.000000	93.1200	0.10327527	1.99125E-07	0.103275469	11.226688	93.12
12:25:00	0.000000	0.000000	0.000000	0.000000	93.1200	0.10327527	1.99125E-07	0.103275469	11.123413	93.12
12:30:00	0.000000	0.000000	0.000000	0.000000	93.1200	0.10327527	1.99125E-07	0.103275469	11.020137	93.11
12:35:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.919946	93.11
12:40:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.819754	93.11
12:45:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.719562	93.11
12:50:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.619370	93.11
12:55:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.519179	93.11
13:00:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.418987	93.11
13:05:00	0.000000	0.000000	0.000000	0.000000	93.1100	0.100191729	0	0.100191729	10.318795	93.1
13:10:00	0.000000	0.000000	0.000000	0.000000	93.1000	0.097010224	0	0.097010224	10.221785	93.1
13:15:00	0.000000	0.000000	0.000000	0.000000	93.1000	0.097010224	0	0.097010224	10.124775	93.1
13:20:00	0.000000	0.000000	0.000000	0.000000	93.1000	0.097010224	0	0.097010224	10.027765	93.1
13:25:00	0.000000	0.000000	0.000000	0.000000	93.1000	0.097010224	0	0.097010224	9.930754	93.1
13:30:00	0.000000	0.000000	0.000000	0.000000	93.1000	0.097010224	0	0.097010224	9.833744	93.1
13:35:00	0.000000	0.000000	0.000000	0.000000	93.1000	0.097010224	0	0.097010224	9.736734	93.09
13:40:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.643013	93.09
13:45:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.549292	93.09
13:50:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.455571	93.09
13:55:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.361851	93.09
14:00:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.268130	93.09
14:05:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.174409	93.09
14:10:00	0.000000	0.000000	0.000000	0.000000	93.0900	0.093720781	0	0.093720781	9.080688	93.08
14:15:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.990377	93.08
14:20:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.900065	93.08
14:25:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.809754	93.08
14:30:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.719442	93.08
14:35:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.629130	93.08
14:40:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.538819	93.08
14:45:00	0.000000	0.000000	0.000000	0.000000	93.0800	0.090311604	0	0.090311604	8.448507	93.07
14:50:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	8.361739	93.07
14:55:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	8.274970	93.07
15:00:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	8.188201	93.07
15:05:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	8.101433	93.07
15:10:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	8.014664	93.07
15:15:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	7.927896	93.07
15:20:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	7.841127	93.07
15:25:00	0.000000	0.000000	0.000000	0.000000	93.0700	0.086768582	0	0.086768582	7.754358	93.06
15:30:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.671284	93.06
15:35:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.588209	93.06
15:40:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.505135	93.06
15:45:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.422060	93.06
15:50:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.338986	93.06
15:55:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.255911	93.06
16:00:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.172836	93.06
16:05:00	0.000000	0.000000	0.000000	0.000000	93.0600	0.083074593	0	0.083074593	7.089762	93.05
16:10:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	7.010553	93.05
16:15:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.931345	93.05
16:20:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.852136	93.05
16:25:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.772928	93.05
16:30:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.693719	93.05
16:35:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.614511	93.05
16:40:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.535302	93.05
16:45:00	0.000000	0.000000	0.000000	0.000000	93.0500	0.079208516	0	0.079208516	6.456094	93.04
16:50:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.380950	93.04
16:55:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.305806	93.04
17:00:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.230662	93.04
17:05:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.155518	93.04
17:10:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.080375	93.04
17:15:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	6.005231	93.04
17:20:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	5.930087	93.04
17:25:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	5.854943	93.04
17:30:00	0.000000	0.000000	0.000000	0.000000	93.0400	0.075143797	0	0.075143797	5.779799	93.03
17:35:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.708953	93.03
17:40:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.638107	93.03
17:45:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.567261	93.03
17:50:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.496414	93.03
17:55:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.425568	93.03
18:00:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.354722	93.03
18:05:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.283876	93.03
18:10:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.213029	93.03
18:15:00	0.000000	0.000000	0.000000	0.000000	93.0300	0.070846251	0	0.070846251	5.142183	93.02
18:20:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	5.075913	93.02
18:25:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	5.009642	93.02
18:30:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.943371	93.02
18:35:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.877101	93.02
18:40:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.810830	93.02
18:45:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.744560	93.02
18:50:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.678289	93.02

18:55:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.612018	93.02
19:00:00	0.000000	0.000000	0.000000	0.000000	93.0200	0.066270599	0	0.066270599	4.545748	93.01
19:05:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.484393	93.01
19:10:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.423038	93.01
19:15:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.361684	93.01
19:20:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.300329	93.01
19:25:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.238975	93.01
19:30:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.177620	93.01
19:35:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.116265	93.01
19:40:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	4.054911	93.01
19:45:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	3.993556	93.01
19:50:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	3.932201	93.01
19:55:00	0.000000	0.000000	0.000000	0.000000	93.0100	0.061354653	0	0.061354653	3.870847	93
20:00:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.814838	93
20:05:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.758829	93
20:10:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.702820	93
20:15:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.646811	93
20:20:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.590802	93
20:25:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.534793	93
20:30:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.478784	93
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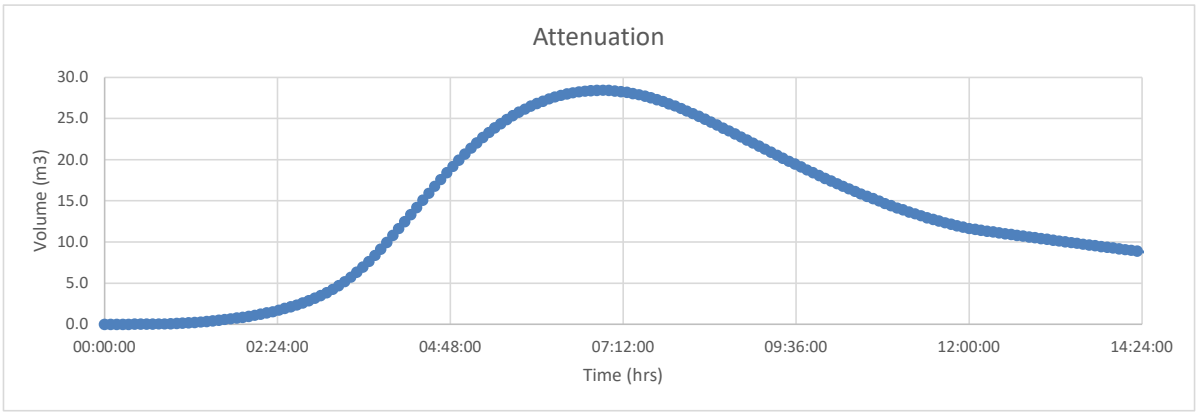
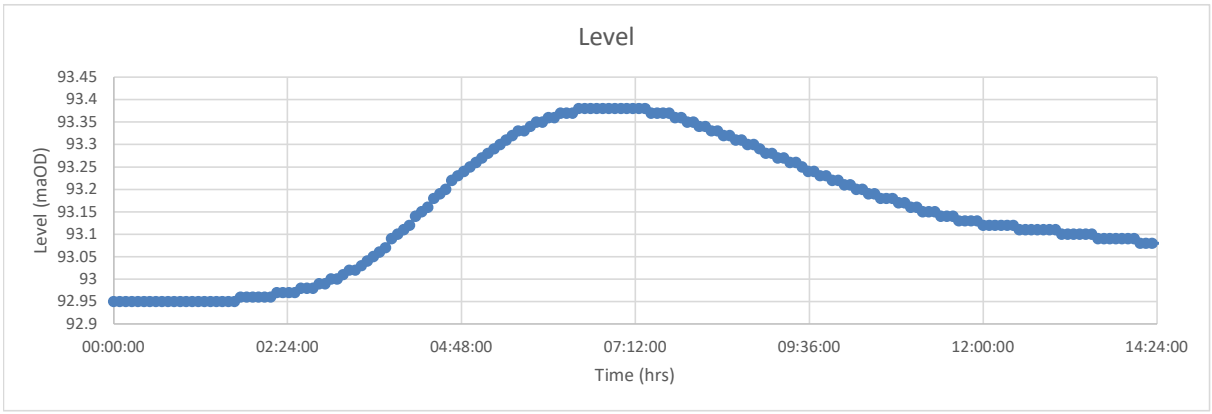
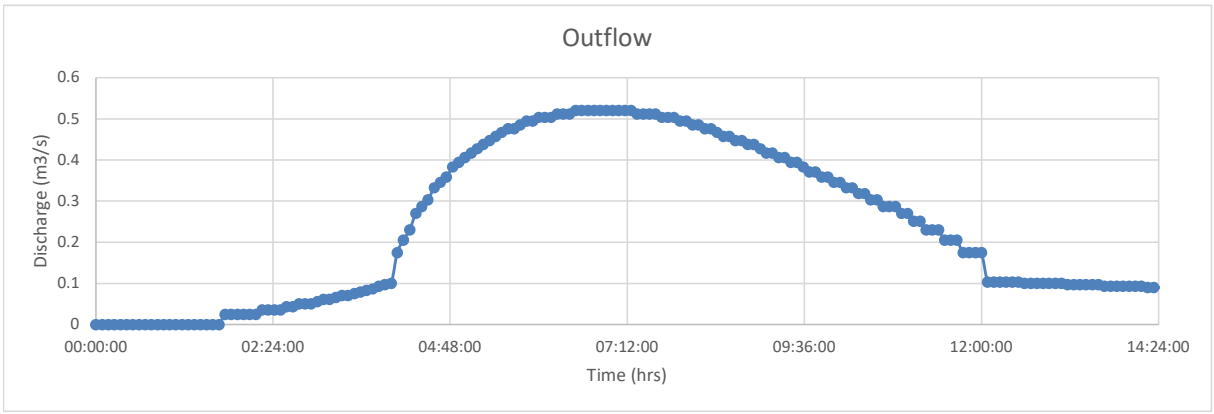
20:50:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.254749	93
20:55:00	0.000000	0.000000	0.000000	0.000000	93.0000	0.056008879	0	0.056008879	3.198740	92.99
21:00:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.148644	92.99
21:05:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.098548	92.99
21:10:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	3.048452	92.99
21:15:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.998357	92.99
21:20:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.948261	92.99
21:25:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.898165	92.99
21:30:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.848069	92.99
21:35:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.797973	92.99
21:40:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.747877	92.99
21:45:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.697781	92.99
21:50:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.647686	92.99
21:55:00	0.000000	0.000000	0.000000	0.000000	92.9900	0.050095864	0	0.050095864	2.597590	92.98
22:00:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.554205	92.98
22:05:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.510821	92.98
22:10:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.467437	92.98
22:15:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.424053	92.98
22:20:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.380668	92.98
22:25:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.337284	92.98
22:30:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.293900	92.98
22:35:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.250515	92.98
22:40:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.207131	92.98
22:45:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.163747	92.98
22:50:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.120362	92.98
22:55:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.076978	92.98
23:00:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	2.033594	92.98
23:05:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	1.990210	92.98
23:10:00	0.000000	0.000000	0.000000	0.000000	92.9800	0.043384291	0	0.043384291	1.946825	92.97
23:15:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.911402	92.97
23:20:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.875979	92.97
23:25:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.840556	92.97
23:30:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.805133	92.97
23:35:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.769710	92.97
23:40:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.734287	92.97
23:45:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.698863	92.97
23:50:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.663440	92.97
23:55:00	0.000000	0.000000	0.000000	0.000000	92.9700	0.035423125	0	0.035423125	1.628017	92.97


Attenuation
Volume (m3)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Level
Level (maOD)
93.45
93.4
93.35
93.3
93.25
93.2
93.15
93.1
93.05
93
92.95
92.9
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Outflow
Discharge (m3/s)
0.6
0.5
0.4
0.3
0.2
0.1
0
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)

Templars Way 1 in 1 year, Tank 2

Inflows

Return Period (yrs)	1
Time Step (mins)	5
Column ref Rainfall	2
Column ref Runoff	7
Column ref Baseflow	8
Account for baseflow?	0
Climate Change Rainfall Correction	45

Storage

Lagoon area at rest (m2)	86
Lagoon outlet invert (maOD)	91.64
Lagoon Area at max freeboard (m2)	86
Lagoon max freeboard (maOD)	92.5

Outflows (Orifice)

Discharge coeffcient (m)	0.6
Orifice diameter (m)	0.035
Orifice area (m2)	0.000962113
2nd orifice elevation (maOD)	91.9
2nd orifice diameter (m)	0.038
2nd orifice area (m2)	0.001134115

Mass Balance	0.00
Peak Flow (l/s)	1.30
6hr cum vol (m3)	10.66
Peak Attenuation (m3)	22.28
Peak Head (maOD)	91.90

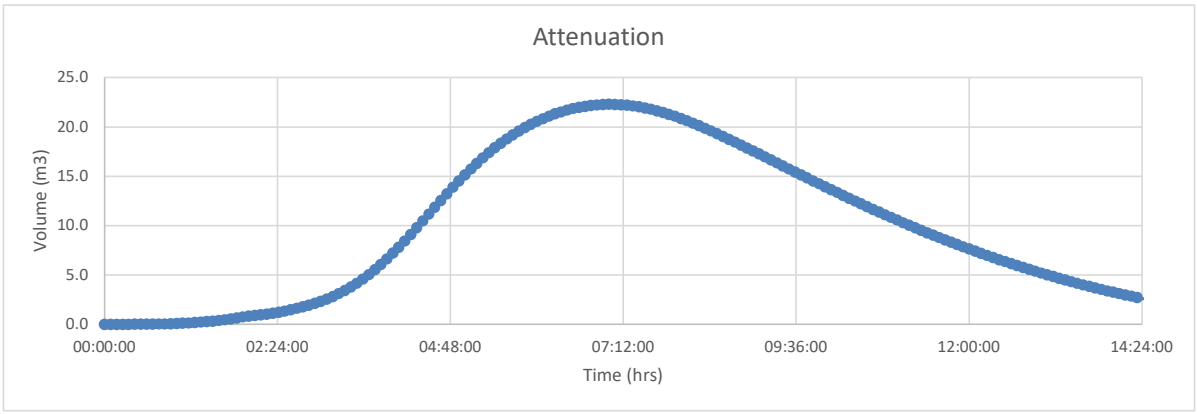
	Rate / vol	Exceedance over greenfield	% improvement
Greenfield Runoff (l/s)	1.35		
Greenfield Vol (m3)	18.90		
Brownfield Runoff (l/s)	3.28	1.93	
Brownfield Vol (m3)	42.13	23.23	
Model Rate (l/s)	1.30	-0.05	102.53
Model Vol (m3)	10.66	-8.24	135.48

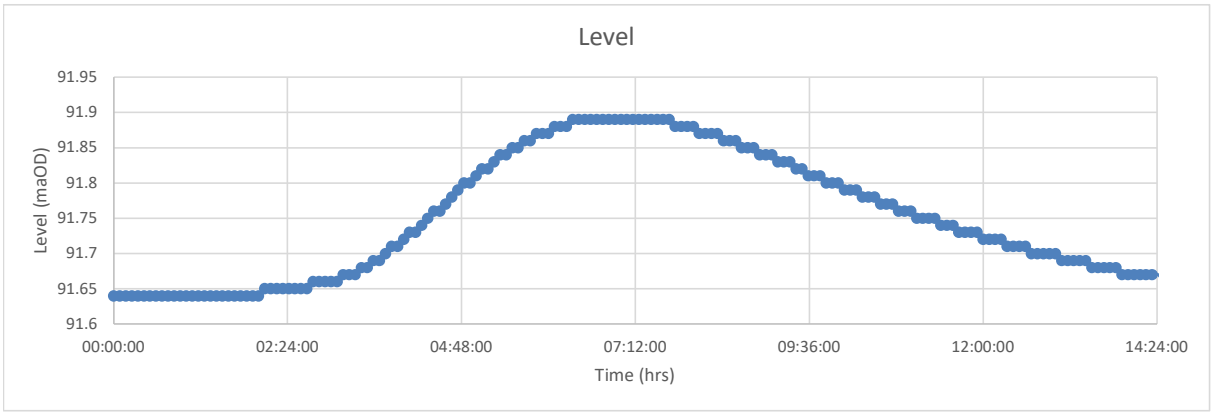
	level / vol	Spare Capacity
Attenuation (m3)	73.96	51.68
Freeboard (m)	92.50	0.6000

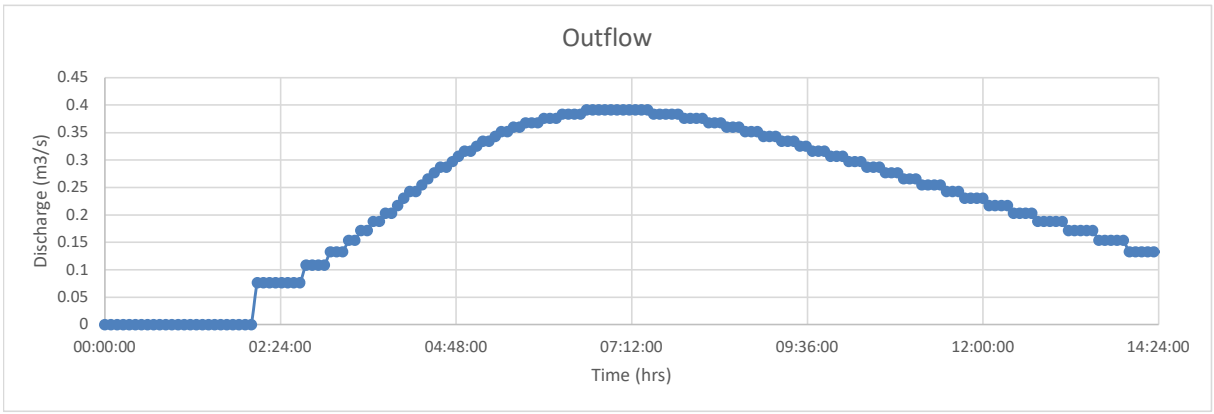
Time	Design Rainfall	Direct Runoff	Baseflow	Total Flow	Starting head	Potential Outfl	Potential Outflow 2	Actual Outflow	Attenuation	End Head
hh:mm:ss	mm	m3/s	m3/s	m3	maOD	m3	m3	m3	m3	maOD
00:00:00	0.087217	0.000000	0.000000	0.000000	91.6400	0	0	0	0.000000	91.64
00:05:00	0.092445	0.000000	0.000000	0.000111	91.6400	0	0	0	0.000111	91.64
00:10:00	0.097886	0.000001	0.000000	0.000449	91.6400	0	0	0	0.000560	91.64
00:15:00	0.103704	0.000003	0.000000	0.001030	91.6400	0	0	0	0.001590	91.64
00:20:00	0.109941	0.000006	0.000000	0.001866	91.6400	0	0	0	0.003456	91.64
00:25:00	0.116575	0.000010	0.000000	0.002973	91.6400	0	0	0	0.006429	91.64
00:30:00	0.123682	0.000015	0.000000	0.004368	91.6400	0	0	0	0.010797	91.64
00:35:00	0.131324	0.000020	0.000000	0.006070	91.6400	0	0	0	0.016867	91.64
00:40:00	0.139473	0.000027	0.000000	0.008134	91.6400	0	0	0	0.025001	91.64
00:45:00	0.148221	0.000035	0.000000	0.010619	91.6400	0	0	0	0.035620	91.64
00:50:00	0.157665	0.000045	0.000000	0.013551	91.6400	0	0	0	0.049171	91.64
00:55:00	0.167767	0.000057	0.000000	0.016957	91.6400	0	0	0	0.066128	91.64
01:00:00	0.178640	0.000070	0.000000	0.020870	91.6400	0	0	0	0.086998	91.64
01:05:00	0.190433	0.000084	0.000000	0.025320	91.6400	0	0	0	0.112318	91.64
01:10:00	0.203094	0.000101	0.000000	0.030344	91.6400	0	0	0	0.142663	91.64
01:15:00	0.216768	0.000120	0.000000	0.035980	91.6400	0	0	0	0.178643	91.64
01:20:00	0.231688	0.000141	0.000000	0.042269	91.6400	0	0	0	0.220912	91.64
01:25:00	0.247783	0.000164	0.000000	0.049255	91.6400	0	0	0	0.270167	91.64
01:30:00	0.265246	0.000190	0.000000	0.056859	91.6400	0	0	0	0.327026	91.64
01:35:00	0.284448	0.000216	0.000000	0.064906	91.6400	0	0	0	0.391931	91.64
01:40:00	0.305294	0.000245	0.000000	0.073428	91.6400	0	0	0	0.465360	91.64
01:45:00	0.328054	0.000275	0.000000	0.082467	91.6400	0	0	0	0.547827	91.64
01:50:00	0.353358	0.000307	0.000000	0.092066	91.6400	0	0	0	0.639892	91.64
01:55:00	0.381077	0.000341	0.000000	0.102274	91.6400	0	0	0	0.742166	91.64
02:00:00	0.411618	0.000377	0.000000	0.113146	91.6400	0	0	0	0.855312	91.64
02:05:00	0.446149	0.000416	0.000000	0.124698	91.6500	0.076709292	0	0.076709292	0.903301	91.65
02:10:00	0.484514	0.000456	0.000000	0.136929	91.6500	0.076709292	0	0.076709292	0.963520	91.65
02:15:00	0.527404	0.000500	0.000000	0.149910	91.6500	0.076709292	0	0.076709292	1.036720	91.65
02:20:00	0.577331	0.000546	0.000000	0.163724	91.6500	0.076709292	0	0.076709292	1.123735	91.65
02:25:00	0.634278	0.000595	0.000000	0.178471	91.6500	0.076709292	0	0.076709292	1.225497	91.65
02:30:00	0.699692	0.000648	0.000000	0.194266	91.6500	0.076709292	0	0.076709292	1.343054	91.65
02:35:00	0.780853	0.000704	0.000000	0.211247	91.6500	0.076709292	0	0.076709292	1.477592	91.65
02:40:00	0.879967	0.000765	0.000000	0.229586	91.6500	0.076709292	0	0.076709292	1.630468	91.65
02:45:00	1.002053	0.000832	0.000000	0.249501	91.6600	0.108483322	0	0.108483322	1.771486	91.66
02:50:00	1.198037	0.000904	0.000000	0.271274	91.6600	0.108483322	0	0.108483322	1.934277	91.66
02:55:00	1.517734	0.000984	0.000000	0.295349	91.6600	0.108483322	0	0.108483322	2.121142	91.66
03:00:00	2.038598	0.001075	0.000000	0.322510	91.6600	0.108483322	0	0.108483322	2.335169	91.66
03:05:00	1.517734	0.001180	0.000000	0.354008	91.6700	0.132864392	0	0.132864392	2.556312	91.66
03:10:00	1.198037	0.001299	0.000000	0.389757	91.6700	0.132864392	0	0.132864392	2.813205	91.67
03:15:00	1.002053	0.001428	0.000000	0.428338	91.6700	0.132864392	0	0.132864392	3.108679	91.67
03:20:00	0.879967	0.001563	0.000000	0.468827	91.6800	0.153418585	0	0.153418585	3.424087	91.67
03:25:00	0.780853	0.001702	0.000000	0.510601	91.6800	0.153418585	0	0.153418585	3.781270	91.68
03:30:00	0.699692	0.001844	0.000000	0.553181	91.6900	0.171527192	0	0.171527192	4.162923	91.68
03:35:00	0.634278	0.001987	0.000000	0.596148	91.6900	0.171527192	0	0.171527192	4.587544	91.69
03:40:00	0.577331	0.002130	0.000000	0.639101	91.7000	0.187898625	0	0.187898625	5.038746	91.69
03:45:00	0.527404	0.002272	0.000000	0.681658	91.7000	0.187898625	0	0.187898625	5.532505	91.7
03:50:00	0.484514	0.002411	0.000000	0.723432	91.7100	0.202953711	0	0.202953711	6.052984	91.71
03:55:00	0.446149	0.002547	0.000000	0.764027	91.7100	0.202953711	0	0.202953711	6.614057	91.71
04:00:00	0.411618	0.002677	0.000000	0.803026	91.7200	0.216966643	0	0.216966643	7.200117	91.72
04:05:00	0.381077	0.002800	0.000000	0.839970	91.7300	0.230127877	0	0.230127877	7.809958	91.73
04:10:00	0.353358	0.002914	0.000000	0.874330	91.7400	0.242576082	0	0.242576082	8.441712	91.73
04:15:00	0.328054	0.003018	0.000000	0.905493	91.7400	0.242576082	0	0.242576082	9.104629	91.74
04:20:00	0.305294	0.003109	0.000000	0.932642	91.7500	0.254415941	0	0.254415941	9.782855	91.75
04:25:00	0.284448	0.003182	0.000000	0.954513	91.7600	0.265728784	0	0.265728784	10.471640	91.76
04:30:00	0.265246	0.003230	0.000000	0.969088	91.7700	0.276579287	0	0.276579287	11.164149	91.76
04:35:00	0.247783	0.003252	0.000000	0.975619	91.7800	0.287019891	0	0.287019891	11.852748	91.77
04:40:00	0.231688	0.003254	0.000000	0.976239	91.7800	0.287019891	0	0.287019891	12.541968	91.78
04:45:00	0.216768	0.003241	0.000000	0.972296	91.7900	0.297093812	0	0.297093812	13.217170	91.79
04:50:00	0.203094	0.003215	0.000000	0.964615	91.8000	0.30683717	0	0.30683717	13.874948	91.8
04:55:00	0.190433	0.003179	0.000000	0.953751	91.8100	0.316280515	0	0.316280515	14.512419	91.8
05:00:00	0.178640	0.003134	0.000000	0.940157	91.8100	0.316280515	0	0.316280515	15.136295	91.81
05:05:00	0.167767	0.003081	0.000000	0.924208	91.8200	0.325449965	0	0.325449965	15.735053	91.82
05:10:00	0.157665	0.003021	0.000000	0.906223	91.8300	0.334368054	0	0.334368054	16.306908	91.82
05:15:00	0.148221	0.002955	0.000000	0.886529	91.8300	0.334368054	0	0.334368054	16.859069	91.83
05:20:00	0.139473	0.002885	0.000000	0.865401	91.8400	0.343054385	0	0.343054385	17.381416	91.84
05:25:00	0.131324	0.002810	0.000000	0.843080	91.8500	0.351526139	0	0.351526139	17.872970	91.84
05:30:00	0.123682	0.002733	0.000000	0.819800	91.8500	0.351526139	0	0.351526139	18.341244	91.85
05:35:00	0.116575	0.002653	0.000000	0.795793	91.8600	0.359798474	0	0.359798474	18.777239	91.85
05:40:00	0.109941	0.002571	0.000000	0.771296	91.8600	0.359798474	0	0.359798474	19.188736	91.86
05:45:00	0.103704	0.002489	0.000000	0.746571	91.8700	0.367884843	0	0.367884843	19.567422	91.86
05:50:00	0.097886	0.002407	0.000000	0.721970	91.8700	0.367884843	0	0.367884843	19.921507	91.87
05:55:00	0.092445	0.002327	0.000000	0.697972	91.8700	0.367884843	0	0.367884843	20.251594	91.87
06:00:00	0.087217	0.002250	0.000000	0.674926	91.8800	0.37579725	0	0.37579725	20.550722	91.87
06:05:00	0.000000	0.002175	0.000000	0.652482	91.8800	0.37579725	0	0.37579725	20.827407	91.88
06:10:00	0.000000	0.002101	0.000000	0.630282	91.8800	0.37579725	0	0.37579725	21.081892	91.88
06:15:00	0.000000	0.002027	0.000000	0.608088	91.8900	0.383546462	0	0.383546462	21.306433	91.88
06:20:00	0.000000	0.001953	0.000000	0.585859	91.8900	0.383546462	0	0.383546462	21.508746	91.89
06:25:00	0.000000	0.001879	0.000000	0.563577	91.8900	0.383546462	0	0.383546462	21.688776	91.89
06:30:00	0.000000	0.001804	0.000000	0.541233	91.8900	0.383546462	0	0.383546462	21.846463	91.89
06:35:00	0.000000	0.001729	0.000000	0.518833	91.9000	0.391142179	3.23378E-07	0.391142502	21.974153	91.89
06:40:00	0.000000	0.001655	0.000000	0.496385	91.9000	0.391142179	3.23378E-07	0.391142502	22.079395	91.89
06:45:00	0.000000	0.001580	0.000000	0.473904	91.9000	0.391142179	3.23378E-07	0.391142502	22.162156	91.89
06:50:00	0.000000	0.001505	0.000000	0.451408	91.9000	0.391142179	3.23378E-07	0.391142502	22.222422	91.89
06:55:00	0.000000	0.001430	0.000000	0.428920	91.9000	0.391142179	3.23378E-07	0.391142502	22.260199	91.89
07:00:00	0.000000	0.001355	0.000000	0.406462	91.9000	0.391142179	3.23378E-07	0.391142502	22.275519	91.89
07:05:00	0.000000	0.001280	0.000000	0.384061	91.9000	0.391142179	3.23378E-07	0.391142502	22.268437	91.89
07:10:00	0.000000	0.001206	0.000000	0.361747	91.9000	0.391142179	3.23378E-07	0.391142502	22.239042	91.89
07:15:00	0.000000	0.001132	0.000000	0.339553	91.9000	0.391142179	3.23378E-07	0.391142502	22.187452	91.89
07:20:00	0.000000	0.001058	0.000000	0.317512	91.9000	0.391142179	3.23378E-07	0.391142502	22.113822	91.89
07:25:00	0.000000	0.000986	0.000000	0.295665	91.9000	0.391142179	3.23378E-07	0.391142502	22.018344	91.89
07:30:00	0.000000	0.000914	0.000000	0.274052	91.8900	0.383546462	0	0.383546462	21.908849	91.89
07:35:00	0.000000	0.000843	0.000000	0.252875	91.8900	0.383546462	0	0.383546462	21.778178	91.89
07:40:00	0.000000	0.000775	0.000000	0.232439	91.8900	0.383546462	0	0.383546462	21.627070	91.89
07:45:00	0.000000	0.000709	0.000000	0.212788	91.8900	0.383546462	0	0.383546462	21.456311	91.88
07:50:00	0.000000	0.000647	0.000000	0.193971	91.8900	0.383546462	0	0.383546462	21.266736	91.88
07:55:00	0.000000	0.000587	0.000000	0.176054	91.8800	0.37579725	0	0.37579725	21.066993	91.88
08:00:00	0.000000	0.000530	0.000000	0.159127	91.8800	0.37579725	0	0.37579725	20.850323	91.88
08:05:00	0.000000	0.000478	0.000000	0.143331	91.8800	0.37579725	0	0.37579725	20.617857	91.87

08:10:00	0.000000	0.000430	0.000000	0.128907	91.8800	0.37579725	0	0.37579725	20.370967	91.87
08:15:00	0.000000	0.000387	0.000000	0.116188	91.8700	0.367884843	0	0.367884843	20.119270	91.87
08:20:00	0.000000	0.000350	0.000000	0.104935	91.8700	0.367884843	0	0.367884843	19.856320	91.87
08:25:00	0.000000	0.000316	0.000000	0.094848	91.8700	0.367884843	0	0.367884843	19.583283	91.86
08:30:00	0.000000	0.000286	0.000000	0.085741	91.8600	0.359798474	0	0.359798474	19.309225	91.86
08:35:00	0.000000	0.000258	0.000000	0.077496	91.8600	0.359798474	0	0.359798474	19.026923	91.86
08:40:00	0.000000	0.000233	0.000000	0.070021	91.8600	0.359798474	0	0.359798474	18.737146	91.85
08:45:00	0.000000	0.000211	0.000000	0.063242	91.8500	0.351526139	0	0.351526139	18.448862	91.85
08:50:00	0.000000	0.000190	0.000000	0.057096	91.8500	0.351526139	0	0.351526139	18.154432	91.85
08:55:00	0.000000	0.000172	0.000000	0.051530	91.8500	0.351526139	0	0.351526139	17.854436	91.84
09:00:00	0.000000	0.000155	0.000000	0.046475	91.8400	0.343054385	0	0.343054385	17.557856	91.84
09:05:00	0.000000	0.000139	0.000000	0.041830	91.8400	0.343054385	0	0.343054385	17.256632	91.84
09:10:00	0.000000	0.000125	0.000000	0.037560	91.8400	0.343054385	0	0.343054385	16.951137	91.83
09:15:00	0.000000	0.000112	0.000000	0.033635	91.8300	0.334368054	0	0.334368054	16.650403	91.83
09:20:00	0.000000	0.000100	0.000000	0.030029	91.8300	0.334368054	0	0.334368054	16.346064	91.83
09:25:00	0.000000	0.000089	0.000000	0.026720	91.8300	0.334368054	0	0.334368054	16.038417	91.82
09:30:00	0.000000	0.000079	0.000000	0.023687	91.8200	0.325449965	0	0.325449965	15.736654	91.82
09:35:00	0.000000	0.000070	0.000000	0.020910	91.8200	0.325449965	0	0.325449965	15.432114	91.81
09:40:00	0.000000	0.000061	0.000000	0.018371	91.8100	0.316280515	0	0.316280515	15.134204	91.81
09:45:00	0.000000	0.000054	0.000000	0.016055	91.8100	0.316280515	0	0.316280515	14.833979	91.81
09:50:00	0.000000	0.000046	0.000000	0.013947	91.8100	0.316280515	0	0.316280515	14.531646	91.8
09:55:00	0.000000	0.000040	0.000000	0.012034	91.8000	0.30683717	0	0.30683717	14.236843	91.8
10:00:00	0.000000	0.000034	0.000000	0.010302	91.8000	0.30683717	0	0.30683717	13.940308	91.8
10:05:00	0.000000	0.000029	0.000000	0.008741	91.8000	0.30683717	0	0.30683717	13.642212	91.79
10:10:00	0.000000	0.000024	0.000000	0.007340	91.7900	0.297093812	0	0.297093812	13.352459	91.79
10:15:00	0.000000	0.000020	0.000000	0.006089	91.7900	0.297093812	0	0.297093812	13.061454	91.79
10:20:00	0.000000	0.000017	0.000000	0.004979	91.7900	0.297093812	0	0.297093812	12.769339	91.78
10:25:00	0.000000	0.000013	0.000000	0.004001	91.7800	0.287019891	0	0.287019891	12.486321	91.78
10:30:00	0.000000	0.000010	0.000000	0.003148	91.7800	0.287019891	0	0.287019891	12.202449	91.78
10:35:00	0.000000	0.000008	0.000000	0.002412	91.7800	0.287019891	0	0.287019891	11.917841	91.77
10:40:00	0.000000	0.000006	0.000000	0.001786	91.7700	0.276579287	0	0.276579287	11.643047	91.77
10:45:00	0.000000	0.000004	0.000000	0.001264	91.7700	0.276579287	0	0.276579287	11.367731	91.77
10:50:00	0.000000	0.000003	0.000000	0.000839	91.7700	0.276579287	0	0.276579287	11.091992	91.76
10:55:00	0.000000	0.000002	0.000000	0.000508	91.7600	0.265728784	0	0.265728784	10.826770	91.76
11:00:00	0.000000	0.000001	0.000000	0.000263	91.7600	0.265728784	0	0.265728784	10.561305	91.76
11:05:00	0.000000	0.000000	0.000000	0.000100	91.7600	0.265728784	0	0.265728784	10.295676	91.75
11:10:00	0.000000	0.000000	0.000000	0.000016	91.7500	0.254415941	0	0.254415941	10.041276	91.75
11:15:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.254415941	0	0.254415941	9.786860	91.75
11:20:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.254415941	0	0.254415941	9.532444	91.75
11:25:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.254415941	0	0.254415941	9.278028	91.74
11:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	9.035452	91.74
11:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	8.792876	91.74
11:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	8.550300	91.73
11:45:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	8.320172	91.73
11:50:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	8.090044	91.73
11:55:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	7.859916	91.73
12:00:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	7.629788	91.72
12:05:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	7.412822	91.72
12:10:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	7.195855	91.72
12:15:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	6.978888	91.72
12:20:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	6.761922	91.71
12:25:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.558968	91.71
12:30:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.356014	91.71
12:35:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.153061	91.71
12:40:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	5.950107	91.7
12:45:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.762208	91.7
12:50:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.574310	91.7
12:55:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.386411	91.7
13:00:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.198512	91.7
13:05:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.010614	91.69
13:10:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.839087	91.69
13:15:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.667559	91.69
13:20:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.496032	91.69
13:25:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.324505	91.69
13:30:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.152978	91.68
13:35:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.999559	91.68
13:40:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.846141	91.68
13:45:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.692722	91.68
13:50:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.539304	91.68
13:55:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.385885	91.67
14:00:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	3.253021	91.67
14:05:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	3.120156	91.67
14:10:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.987292	91.67
14:15:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.854427	91.67
14:20:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.721563	91.67
14:25:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.588699	91.67
14:30:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.455834	91.66
14:35:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.347351	91.66
14:40:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.238868	91.66
14:45:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.130384	91.66
14:50:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.021901	91.66
14:55:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.913418	91.66
15:00:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.804934	91.66
15:05:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.696451	91.65
15:10:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.619742	91.65
15:15:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.543032	91.65
15:20:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.466323	91.65
15:25:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.389614	91.65
15:30:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.312904	91.65
15:35:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.236195	91.65
15:40:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.159486	91.65
15:45:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.082777	91.65
15:50:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.006067	91.65
15:55:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	0.929358	91.65
16:00:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	0.852649	91.64
16:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
16:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
17:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
18:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64

18:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
19:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
20:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
21:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
22:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64
23:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.852649	91.64


Attenuation
25.0
20.0
15.0
10.0
5.0
0.0
Volume (m3)
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Level
91.95
91.9
91.85
91.8
91.75
91.7
91.65
91.6
Level (maOD)
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Outflow
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Discharge (m3/s)
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)

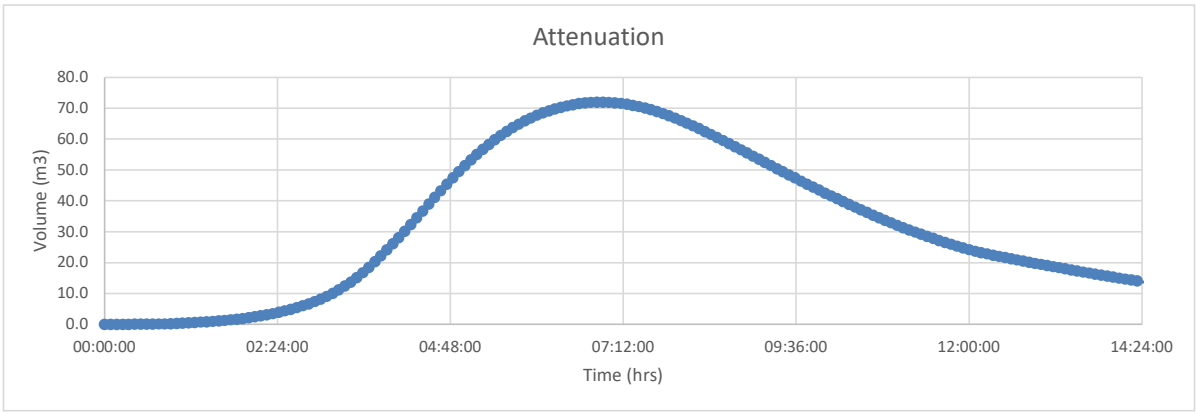
Templars Way 1 in 100 year, Tank 2

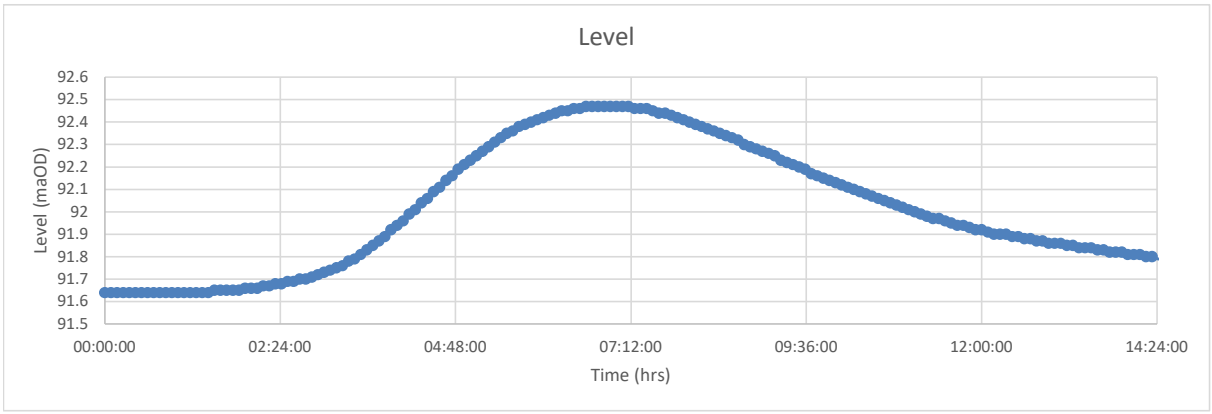
			Rate / vol	Exceedance over greenfield	% improvement	
Inflows		Greenfield Runoff (l/s)	4.77			
Return Period (yrs)	100	Greenfield Vol (m3)	69.56			
Time Step (mins)	5	Brownfield Runoff (l/s)	10.62	5.86		
Column ref Rainfall	58	Brownfield Vol (m3)	137.09	67.53		
Column ref Runoff	63	Model Rate (l/s)	4.67	-0.09		101.58
Column ref Baseflow	64	Model Vol (m3)	33.40	-36.16		153.54
Account for baseflow?	0					
Climate Change Rainfall Correction	45					
Storage			level / vol	Spare Capacity		
Lagoon area at rest (m2)	86	Attenuation (m3)	73.96	1.98		
Lagoon outlet invert (maOD)	91.64	Freeboard (m)	92.50	0.0100		
Lagoon Area at max freeboard (m2)	86					
Lagoon max freeboard (maOD)	92.5					
Outflows (Orifice)						
Discharge coeffcient (m)	0.6					
Orifice diameter (m)	0.035					
Orifice area (m2)	0.000962113					
2nd orifice elevation (maOD)	91.9					
2nd orifice diameter (m)	0.038					
2nd orifice area (m2)	0.001134115					
Mass Balance	0.00					
Peak Flow (l/s)	4.67					
6hr cum vol (m3)	33.40					
Peak Attenuation (m3)	71.98					
Peak Head (maOD)	92.49					

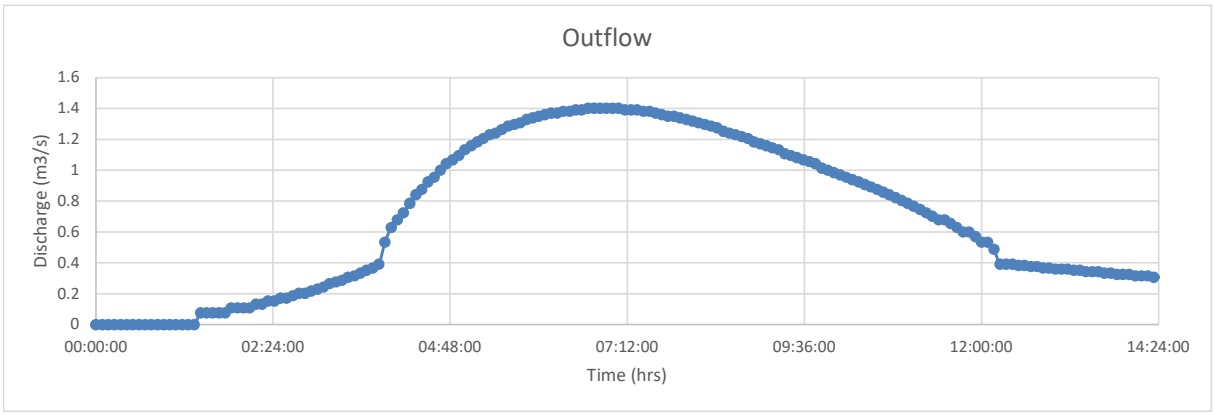
Time	Design Rainfall	Direct Runoff	Baseflow	Total Flow	Starting head	Potential Outfl	Potential Outflow 2	Actual Outflow	Attenuation	End Head
hh:mm:ss	mm	m3/s	m3/s	m3	maOD	m3	m3	m3	m3	maOD
00:00:00	0.273679	0.000000	0.000000	0.000000	91.6400	0	0	0	0.000000	91.64
00:05:00	0.290083	0.000001	0.000000	0.000347	91.6400	0	0	0	0.000347	91.64
00:10:00	0.307156	0.000005	0.000000	0.001410	91.6400	0	0	0	0.001758	91.64
00:15:00	0.325414	0.000011	0.000000	0.003273	91.6400	0	0	0	0.005030	91.64
00:20:00	0.344985	0.000020	0.000000	0.006072	91.6400	0	0	0	0.011102	91.64
00:25:00	0.365801	0.000033	0.000000	0.009912	91.6400	0	0	0	0.021014	91.64
00:30:00	0.388101	0.000050	0.000000	0.014857	91.6400	0	0	0	0.035870	91.64
00:35:00	0.412081	0.000070	0.000000	0.020973	91.6400	0	0	0	0.056843	91.64
00:40:00	0.437653	0.000094	0.000000	0.028334	91.6400	0	0	0	0.085178	91.64
00:45:00	0.465104	0.000123	0.000000	0.037018	91.6400	0	0	0	0.122196	91.64
00:50:00	0.494738	0.000157	0.000000	0.047106	91.6400	0	0	0	0.169302	91.64
00:55:00	0.526436	0.000196	0.000000	0.058690	91.6400	0	0	0	0.227992	91.64
01:00:00	0.560554	0.000240	0.000000	0.071864	91.6400	0	0	0	0.299856	91.64
01:05:00	0.597559	0.000289	0.000000	0.086734	91.6400	0	0	0	0.386590	91.64
01:10:00	0.637288	0.000345	0.000000	0.103410	91.6400	0	0	0	0.490000	91.64
01:15:00	0.680198	0.000407	0.000000	0.122014	91.6400	0	0	0	0.612014	91.64
01:20:00	0.727015	0.000476	0.000000	0.142676	91.6400	0	0	0	0.754690	91.64
01:25:00	0.777518	0.000552	0.000000	0.165538	91.6500	0.076709292	0	0.076709292	0.843518	91.64
01:30:00	0.832315	0.000635	0.000000	0.190351	91.6500	0.076709292	0	0.076709292	0.957160	91.65
01:35:00	0.892571	0.000722	0.000000	0.216571	91.6500	0.076709292	0	0.076709292	1.097022	91.65
01:40:00	0.957983	0.000814	0.000000	0.244255	91.6500	0.076709292	0	0.076709292	1.264568	91.65
01:45:00	1.029401	0.000911	0.000000	0.273391	91.6500	0.076709292	0	0.076709292	1.461251	91.65
01:50:00	1.108804	0.001013	0.000000	0.304013	91.6600	0.108483322	0	0.108483322	1.656781	91.65
01:55:00	1.195783	0.001121	0.000000	0.336261	91.6600	0.108483322	0	0.108483322	1.884558	91.66
02:00:00	1.291618	0.001234	0.000000	0.370294	91.6600	0.108483322	0	0.108483322	2.146368	91.66
02:05:00	1.399970	0.001354	0.000000	0.406291	91.6600	0.108483322	0	0.108483322	2.444176	91.66
02:10:00	1.520356	0.001482	0.000000	0.444459	91.6700	0.132864392	0	0.132864392	2.755771	91.67
02:15:00	1.654943	0.001617	0.000000	0.485035	91.6700	0.132864392	0	0.132864392	3.107941	91.67
02:20:00	1.811609	0.001761	0.000000	0.528289	91.6800	0.153418585	0	0.153418585	3.482812	91.68
02:25:00	1.990302	0.001915	0.000000	0.574542	91.6800	0.153418585	0	0.153418585	3.903936	91.68
02:30:00	2.195564	0.002081	0.000000	0.624174	91.6900	0.171527192	0	0.171527192	4.356582	91.69
02:35:00	2.450239	0.002259	0.000000	0.677633	91.6900	0.171527192	0	0.171527192	4.862688	91.69
02:40:00	2.761251	0.002452	0.000000	0.735481	91.7000	0.187898625	0	0.187898625	5.410271	91.7
02:45:00	3.144344	0.002661	0.000000	0.798437	91.7100	0.202953711	0	0.202953711	6.005755	91.7
02:50:00	3.759321	0.002891	0.000000	0.867418	91.7100	0.202953711	0	0.202953711	6.670219	91.71
02:55:00	4.762501	0.003146	0.000000	0.943879	91.7200	0.216966643	0	0.216966643	7.397132	91.72
03:00:00	6.396922	0.003435	0.000000	1.030385	91.7300	0.230127877	0	0.230127877	8.197389	91.73
03:05:00	4.762501	0.003770	0.000000	1.131040	91.7400	0.242576082	0	0.242576082	9.085853	91.74
03:10:00	3.759321	0.004152	0.000000	1.245662	91.7600	0.265728784	0	0.265728784	10.065787	91.75
03:15:00	3.144344	0.004566	0.000000	1.369715	91.7700	0.276579287	0	0.276579287	11.158923	91.76
03:20:00	2.761251	0.005001	0.000000	1.500234	91.7800	0.287019891	0	0.287019891	12.372137	91.78
03:25:00	2.450239	0.005451	0.000000	1.635210	91.8000	0.30683717	0	0.30683717	13.700509	91.79
03:30:00	2.195564	0.005910	0.000000	1.773085	91.8100	0.316280515	0	0.316280515	15.157314	91.81
03:35:00	1.990302	0.006375	0.000000	1.912455	91.8300	0.334368054	0	0.334368054	16.735400	91.83
03:40:00	1.811609	0.006840	0.000000	2.052022	91.8500	0.351526139	0	0.351526139	18.435896	91.85
03:45:00	1.654943	0.007302	0.000000	2.190548	91.8700	0.367884843	0	0.367884843	20.258560	91.87
03:50:00	1.520356	0.007756	0.000000	2.326783	91.9000	0.391142179	3.23378E-07	0.391142502	22.194201	91.89
03:55:00	1.399970	0.008198	0.000000	2.459437	91.9200	0.405907422	0.127877483	0.533784905	24.119853	91.92
04:00:00	1.291618	0.008624	0.000000	2.587157	91.9500	0.427099265	0.202192054	0.629291318	26.077719	91.94
04:05:00	1.195783	0.009028	0.000000	2.708450	91.9700	0.440661336	0.239236864	0.6798982	28.106270	91.96
04:10:00	1.108804	0.009405	0.000000	2.821598	91.9900	0.453818294	0.271269106	0.7250874	30.202781	91.99
04:15:00	1.029401	0.009749	0.000000	2.924591	92.0200	0.472867836	0.313234583	0.786102419	32.341269	92.01
04:20:00	0.957983	0.010049	0.000000	3.014770	92.0500	0.491179129	0.35020691	0.841386039	34.514654	92.04
04:25:00	0.892571	0.010293	0.000000	3.088003	92.0700	0.503016469	0.372823726	0.875840195	36.726817	92.06
04:30:00	0.832315	0.010459	0.000000	3.137678	92.1000	0.520267734	0.404384107	0.924651841	38.939842	92.09
04:35:00	0.777518	0.010538	0.000000	3.161270	92.1200	0.531457567	0.42412163	0.955579197	41.145534	92.11
04:40:00	0.727015	0.010552	0.000000	3.165622	92.1500	0.547813922	0.452115176	0.999929098	43.311227	92.14
04:45:00	0.680198	0.010517	0.000000	3.155072	92.1800	0.563695875	0.478473728	1.042169603	45.424129	92.16
04:50:00	0.637288	0.010441	0.000000	3.132279	92.2000	0.574039781	0.495267361	1.069307143	47.487101	92.19
04:55:00	0.597559	0.010330	0.000000	3.099028	92.2200	0.584200566	0.511509931	1.095710498	49.490419	92.21
05:00:00	0.560554	0.010189	0.000000	3.056782	92.2500	0.599118726	0.534949891	1.134068617	51.413132	92.23
05:05:00	0.526436	0.010023	0.000000	3.006753	92.2700	0.608861133	0.550021851	1.158882984	53.261002	92.25
05:10:00	0.494738	0.009833	0.000000	2.949976	92.2900	0.618450087	0.564691674	1.183141762	55.027836	92.27
05:15:00	0.465104	0.009625	0.000000	2.887505	92.3100	0.627892619	0.578989929	1.206882548	56.708459	92.29
05:20:00	0.437653	0.009401	0.000000	2.820231	92.3300	0.637195239	0.592943495	1.230138734	58.298551	92.31
05:25:00	0.412081	0.009163	0.000000	2.748957	92.3400	0.641795986	0.599798561	1.241594547	59.805913	92.33
05:30:00	0.388101	0.008915	0.000000	2.674466	92.3600	0.65089993	0.613278863	1.264178794	61.216200	92.35
05:35:00	0.365801	0.008658	0.000000	2.597524	92.3800	0.659878284	0.626469165	1.28634745	62.527376	92.36
05:40:00	0.344985	0.008396	0.000000	2.518904	92.3900	0.664321959	0.632961247	1.297283206	63.748997	92.38
05:45:00	0.325414	0.008132	0.000000	2.439465	92.4000	0.668736107	0.639387414	1.308123522	64.880339	92.39
05:50:00	0.307156	0.007868	0.000000	2.360312	92.4200	0.677478127	0.65204978	1.329527907	65.911123	92.4
05:55:00	0.290083	0.007610	0.000000	2.283000	92.4300	0.681807105	0.658289633	1.340096738	66.854027	92.41
06:00:00	0.273679	0.007362	0.000000	2.208687	92.4400	0.686108769	0.664470892	1.350579662	67.712134	92.42
06:05:00	0.000000	0.007121	0.000000	2.136254	92.4500	0.690383632	0.670595178	1.360978809	68.487409	92.43
06:10:00	0.000000	0.006882	0.000000	2.064538	92.4600	0.694632186	0.676664036	1.371296222	69.180650	92.44
06:15:00	0.000000	0.006643	0.000000	1.992757	92.4600	0.694632186	0.676664036	1.371296222	69.802112	92.45
06:20:00	0.000000	0.006403	0.000000	1.920790	92.4700	0.698854913	0.682678946	1.381533859	70.341368	92.45
06:25:00	0.000000	0.006162	0.000000	1.848575	92.4700	0.698854913	0.682678946	1.381533859	70.808409	92.46
06:30:00	0.000000	0.005920	0.000000	1.776093	92.4800	0.703052278	0.68864132	1.391693598	71.192808	92.46
06:35:00	0.000000	0.005678	0.000000	1.703363	92.4800	0.703052278	0.68864132	1.391693598	71.504478	92.47
06:40:00	0.000000	0.005435	0.000000	1.630417	92.4900	0.707224732	0.694552513	1.401777245	71.733118	92.47
06:45:00	0.000000	0.005191	0.000000	1.557304	92.4900	0.707224732	0.694552513	1.401777245	71.888645	92.47
06:50:00	0.000000	0.004947	0.000000	1.484086	92.4900	0.707224732	0.694552513	1.401777245	71.970953	92.47
06:55:00	0.000000	0.004703	0.000000	1.410832	92.4900	0.707224732	0.694552513	1.401777245	71.980009	92.47
07:00:00	0.000000	0.004459	0.000000	1.337623	92.4900	0.707224732	0.694552513	1.401777245	71.915855	92.47
07:05:00	0.000000	0.004215	0.000000	1.264547	92.4900	0.707224732	0.694552513	1.401777245	71.778625	92.47
07:10:00	0.000000	0.003972	0.000000	1.191700	92.4800	0.703052278	0.68864132	1.391693598	71.578631	92.47
07:15:00	0.000000	0.003731	0.000000	1.119187	92.4800	0.703052278	0.68864132	1.391693598	71.306124	92.46
07:20:00	0.000000	0.003490	0.000000	1.047122	92.4800	0.703052278	0.68864132	1.391693598	70.961552	92.46
07:25:00	0.000000	0.003252	0.000000	0.975631	92.4700	0.698854913	0.682678946	1.381533859	70.555649	92.46
07:30:00	0.000000	0.003016	0.000000	0.904852	92.4700	0.698854913	0.682678946	1.381533859	70.078968	92.45
07:35:00	0.000000	0.002785	0.000000	0.835453	92.4600	0.694632186	0.676664036	1.371296222	69.543124	92.44
07:40:00	0.000000	0.002562	0.000000	0.768453	92.4500	0.690383632	0.670595178	1.360978809	68.950598	92.44
07:45:00	0.000000	0.002347	0.000000	0.703988	92.4400	0.686108769	0.664470892	1.350579662	68.304007	92.43
07:50:00	0.000000	0.002141	0.000000	0.642223	92.4400	0.686108769	0.664470892	1.350579662	67.595650	92.42
07:55:00	0.000000	0.001945	0.000000	0.583372	92.4300	0.681807105	0.658289633	1.340096738	66.838925	92.41
08:00:00	0.000000	0.001759	0.000000	0.527720	92.4200	0.677478127	0.65204978	1.329527907	66.037117	92.4
08:05:00	0.000000	0.001586	0.000000	0.475733	92.4100	0.673121309	0.645749635	1.318870944	65.193980	92.39

08:10:00	0.000000	0.001427	0.000000	0.428197	92.4000	0.668736107	0.639387414	1.308123522	64.314053	92.38
08:15:00	0.000000	0.001287	0.000000	0.386204	92.3900	0.664321959	0.632961247	1.297283206	63.402974	92.37
08:20:00	0.000000	0.001163	0.000000	0.348991	92.3800	0.659878284	0.626469165	1.28634745	62.465617	92.36
08:25:00	0.000000	0.001052	0.000000	0.315596	92.3700	0.655404482	0.619909098	1.27531358	61.505900	92.35
08:30:00	0.000000	0.000951	0.000000	0.285419	92.3500	0.646363987	0.606576161	1.252940148	60.538378	92.34
08:35:00	0.000000	0.000860	0.000000	0.258074	92.3400	0.641795986	0.599798561	1.241594547	59.554857	92.33
08:40:00	0.000000	0.000778	0.000000	0.233267	92.3300	0.637195239	0.592943495	1.230138734	58.557985	92.32
08:45:00	0.000000	0.000703	0.000000	0.210753	92.3200	0.63256103	0.586008245	1.218569275	57.550169	92.3
08:50:00	0.000000	0.000634	0.000000	0.190331	92.3100	0.627892619	0.578989929	1.206882548	56.533617	92.29
08:55:00	0.000000	0.000573	0.000000	0.171826	92.2900	0.618450087	0.564691674	1.183141762	55.522301	92.28
09:00:00	0.000000	0.000517	0.000000	0.155013	92.2800	0.613674339	0.557405025	1.171079364	54.506235	92.27
09:05:00	0.000000	0.000465	0.000000	0.139556	92.2700	0.608861133	0.550021851	1.158882984	53.486908	92.26
09:10:00	0.000000	0.000418	0.000000	0.125338	92.2600	0.604009572	0.542538212	1.146547784	52.465699	92.25
09:15:00	0.000000	0.000374	0.000000	0.112265	92.2500	0.599118726	0.534949891	1.134068617	51.443895	92.23
09:20:00	0.000000	0.000334	0.000000	0.100253	92.2300	0.589215255	0.519440791	1.108656046	50.435492	92.22
09:25:00	0.000000	0.000297	0.000000	0.089223	92.2200	0.584200566	0.511509931	1.095710498	49.429005	92.21
09:30:00	0.000000	0.000264	0.000000	0.079109	92.2100	0.579142457	0.503454154	1.082596611	48.425517	92.2
09:35:00	0.000000	0.000233	0.000000	0.069845	92.2000	0.574039781	0.495267361	1.069307143	47.426055	92.19
09:40:00	0.000000	0.000205	0.000000	0.061376	92.1900	0.568891338	0.486942947	1.055834286	46.431596	92.17
09:45:00	0.000000	0.000179	0.000000	0.053647	92.1800	0.563695875	0.478473728	1.042169603	45.443073	92.16
09:50:00	0.000000	0.000155	0.000000	0.046610	92.1600	0.553158574	0.461068821	1.014227396	44.475456	92.15
09:55:00	0.000000	0.000134	0.000000	0.040221	92.1500	0.547813922	0.452115176	0.999929098	43.515748	92.14
10:00:00	0.000000	0.000115	0.000000	0.034438	92.1400	0.542416608	0.442980595	0.985397203	42.564788	92.13
10:05:00	0.000000	0.000097	0.000000	0.029224	92.1300	0.536965047	0.433653643	0.97061869	41.623393	92.12
10:10:00	0.000000	0.000082	0.000000	0.024543	92.1200	0.531457567	0.42412163	0.955579197	40.692357	92.11
10:15:00	0.000000	0.000068	0.000000	0.020362	92.1100	0.525892413	0.414370404	0.940262817	39.772456	92.1
10:20:00	0.000000	0.000056	0.000000	0.016651	92.1000	0.520267734	0.404384107	0.924651841	38.864455	92.09
10:25:00	0.000000	0.000045	0.000000	0.013382	92.0900	0.514581577	0.394144873	0.90872645	37.969110	92.08
10:30:00	0.000000	0.000035	0.000000	0.010529	92.0800	0.508831882	0.383632449	0.89246433	37.087175	92.07
10:35:00	0.000000	0.000027	0.000000	0.008067	92.0700	0.503016469	0.372823726	0.875840195	36.219402	92.06
10:40:00	0.000000	0.000020	0.000000	0.005974	92.0600	0.497133033	0.361692141	0.858825174	35.366551	92.05
10:45:00	0.000000	0.000014	0.000000	0.004228	92.0500	0.491179129	0.35020691	0.841386039	34.529393	92.04
10:50:00	0.000000	0.000009	0.000000	0.002809	92.0400	0.485152163	0.338332018	0.823484181	33.708717	92.03
10:55:00	0.000000	0.000006	0.000000	0.001699	92.0300	0.479049378	0.32602489	0.805074268	32.905342	92.02
11:00:00	0.000000	0.000003	0.000000	0.000880	92.0200	0.472867836	0.313234583	0.786102419	32.120119	92.01
11:05:00	0.000000	0.000001	0.000000	0.000336	92.0100	0.46660441	0.29989928	0.76650369	31.353952	92
11:10:00	0.000000	0.000000	0.000000	0.000052	92.0000	0.460255754	0.285942744	0.746198499	30.607806	91.99
11:15:00	0.000000	0.000000	0.000000	0.000000	91.9900	0.453818294	0.271269106	0.7250874	29.882718	91.98
11:20:00	0.000000	0.000000	0.000000	0.000000	91.9800	0.447288194	0.255754966	0.70304316	29.179675	91.97
11:25:00	0.000000	0.000000	0.000000	0.000000	91.9700	0.440661336	0.239236864	0.6798982	28.499777	91.97
11:30:00	0.000000	0.000000	0.000000	0.000000	91.9700	0.440661336	0.239236864	0.6798982	27.819879	91.96
11:35:00	0.000000	0.000000	0.000000	0.000000	91.9600	0.433933287	0.221490297	0.655423584	27.164455	91.95
11:40:00	0.000000	0.000000	0.000000	0.000000	91.9500	0.427099265	0.202192054	0.629291318	26.535164	91.94
11:45:00	0.000000	0.000000	0.000000	0.000000	91.9400	0.420154098	0.180846071	0.601000169	25.934163	91.94
11:50:00	0.000000	0.000000	0.000000	0.000000	91.9400	0.420154098	0.180846071	0.601000169	25.333163	91.93
11:55:00	0.000000	0.000000	0.000000	0.000000	91.9300	0.413092182	0.156617291	0.569709473	24.763454	91.92
12:00:00	0.000000	0.000000	0.000000	0.000000	91.9200	0.405907422	0.127877483	0.533784905	24.229669	91.92
12:05:00	0.000000	0.000000	0.000000	0.000000	91.9200	0.405907422	0.127877483	0.533784905	23.695884	91.91
12:10:00	0.000000	0.000000	0.000000	0.000000	91.9100	0.398593176	0.090423035	0.489016211	23.206868	91.9
12:15:00	0.000000	0.000000	0.000000	0.000000	91.9000	0.391142179	3.23378E-07	0.391142502	22.815725	91.9
12:20:00	0.000000	0.000000	0.000000	0.000000	91.9000	0.391142179	3.23378E-07	0.391142502	22.424583	91.9
12:25:00	0.000000	0.000000	0.000000	0.000000	91.9000	0.391142179	3.23378E-07	0.391142502	22.033440	91.89
12:30:00	0.000000	0.000000	0.000000	0.000000	91.8900	0.383546462	0	0.383546462	21.649894	91.89
12:35:00	0.000000	0.000000	0.000000	0.000000	91.8900	0.383546462	0	0.383546462	21.266347	91.88
12:40:00	0.000000	0.000000	0.000000	0.000000	91.8800	0.37579725	0	0.37579725	20.890550	91.88
12:45:00	0.000000	0.000000	0.000000	0.000000	91.8800	0.37579725	0	0.37579725	20.514753	91.87
12:50:00	0.000000	0.000000	0.000000	0.000000	91.8700	0.367884843	0	0.367884843	20.146868	91.87
12:55:00	0.000000	0.000000	0.000000	0.000000	91.8700	0.367884843	0	0.367884843	19.778983	91.86
13:00:00	0.000000	0.000000	0.000000	0.000000	91.8600	0.359798474	0	0.359798474	19.419185	91.86
13:05:00	0.000000	0.000000	0.000000	0.000000	91.8600	0.359798474	0	0.359798474	19.059386	91.86
13:10:00	0.000000	0.000000	0.000000	0.000000	91.8600	0.359798474	0	0.359798474	18.699588	91.85
13:15:00	0.000000	0.000000	0.000000	0.000000	91.8500	0.351526139	0	0.351526139	18.348062	91.85
13:20:00	0.000000	0.000000	0.000000	0.000000	91.8500	0.351526139	0	0.351526139	17.996535	91.84
13:25:00	0.000000	0.000000	0.000000	0.000000	91.8400	0.343054385	0	0.343054385	17.653481	91.84
13:30:00	0.000000	0.000000	0.000000	0.000000	91.8400	0.343054385	0	0.343054385	17.310427	91.84
13:35:00	0.000000	0.000000	0.000000	0.000000	91.8400	0.343054385	0	0.343054385	16.967372	91.83
13:40:00	0.000000	0.000000	0.000000	0.000000	91.8300	0.334368054	0	0.334368054	16.633004	91.83
13:45:00	0.000000	0.000000	0.000000	0.000000	91.8300	0.334368054	0	0.334368054	16.298636	91.82
13:50:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.325449965	0	0.325449965	15.973186	91.82
13:55:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.325449965	0	0.325449965	15.647736	91.82
14:00:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.325449965	0	0.325449965	15.322286	91.81
14:05:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.316280515	0	0.316280515	15.006006	91.81
14:10:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.316280515	0	0.316280515	14.689725	91.81
14:15:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.316280515	0	0.316280515	14.373445	91.8
14:20:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.30683717	0	0.30683717	14.066608	91.8
14:25:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.30683717	0	0.30683717	13.759770	91.79
14:30:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.297093812	0	0.297093812	13.462677	91.79
14:35:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.297093812	0	0.297093812	13.165583	91.79
14:40:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.297093812	0	0.297093812	12.868489	91.78
14:45:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.287019891	0	0.287019891	12.581469	91.78
14:50:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.287019891	0	0.287019891	12.294449	91.78
14:55:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.287019891	0	0.287019891	12.007429	91.77
15:00:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.276579287	0	0.276579287	11.730850	91.77
15:05:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.276579287	0	0.276579287	11.454271	91.77
15:10:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.276579287	0	0.276579287	11.177691	91.76
15:15:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.265728784	0	0.265728784	10.911963	91.76
15:20:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.265728784	0	0.265728784	10.646234	91.76
15:25:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.265728784	0	0.265728784	10.380505	91.76
15:30:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.265728784	0	0.265728784	10.114776	91.75
15:35:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.254415941	0	0.254415941	9.860360	91.75
15:40:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.254415941	0	0.254415941	9.605944	91.75
15:45:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.254415941	0	0.254415941	9.351529	91.74
15:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	9.108952	91.74
15:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	8.866376	91.74
16:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	8.623800	91.74
16:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0.242576082	0	0.242576082	8.381224	91.73
16:10:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	8.151096	91.73
16:15:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	7.920968	91.73
16:20:00	0.000000	0.000000	0.000000	0.000000	91.7300	0.230127877	0	0.230127877	7.690841	91.72
16:25:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	7.473874	91.72
16:30:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	7.256907	91.72
16:35:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	7.039941	91.72
16:40:00	0.000000	0.000000	0.000000	0.000000	91.7200	0.216966643	0	0.216966643	6.822974	91.71
16:45:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.620020	91.71
16:50:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.417067	91.71
16:55:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.214113	91.71
17:00:00	0.000000	0.000000	0.000000	0.000000	91.7100	0.202953711	0	0.202953711	6.011159	91.7
17:05:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.823261	91.7
17:10:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.635362	91.7
17:15:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.447463	91.7
17:20:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.259565	91.7
17:25:00	0.000000	0.000000	0.000000	0.000000	91.7000	0.187898625	0	0.187898625	5.071666	91.69
17:30:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.900139	91.69
17:35:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.728612	91.69
17:40:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.557084	91.69
17:45:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.385557	91.69
17:50:00	0.000000	0.000000	0.000000	0.000000	91.6900	0.171527192	0	0.171527192	4.214030	91.68
17:55:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	4.060611	91.68
18:00:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.907193	91.68
18:05:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.753774	91.68
18:10:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.600356	91.68
18:15:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.446937	91.68
18:20:00	0.000000	0.000000	0.000000	0.000000	91.6800	0.153418585	0	0.153418585	3.293519	91.67
18:25:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	3.160654	91.67
18:30:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	3.027790	91.67
18:35:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.894925	91.67
18:40:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.762061	91.67
18:45:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.629197	91.67
18:50:00	0.000000	0.000000	0.000000	0.000000	91.6700	0.132864392	0	0.132864392	2.496332	91.66

18:55:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.387849	91.66
19:00:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.279366	91.66
19:05:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.170882	91.66
19:10:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	2.062399	91.66
19:15:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.953916	91.66
19:20:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.845432	91.66
19:25:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.736949	91.66
19:30:00	0.000000	0.000000	0.000000	0.000000	91.6600	0.108483322	0	0.108483322	1.628466	91.65
19:35:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.551756	91.65
19:40:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.475047	91.65
19:45:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.398338	91.65
19:50:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.321628	91.65
19:55:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.244919	91.65
20:00:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.168210	91.65
20:05:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.091501	91.65
20:10:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	1.014791	91.65
20:15:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	0.938082	91.65
20:20:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	0.861373	91.65
20:25:00	0.000000	0.000000	0.000000	0.000000	91.6500	0.076709292	0	0.076709292	0.784663	91.64
20:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
20:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
20:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
20:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
20:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
20:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
21:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
22:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:00:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:05:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:10:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:15:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:20:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:25:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:30:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:35:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:40:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:45:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:50:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64
23:55:00	0.000000	0.000000	0.000000	0.000000	91.6400	0	0	0	0.784663	91.64


Attenuation
Volume (m3)
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Level
Level (maOD)
92.6
92.5
92.4
92.3
92.2
92.1
92
91.9
91.8
91.7
91.6
91.5
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Outflow
Discharge (m3/s)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)

Templars Way, 1 in 1 year, Tank 3

Inflows

Return Period (yrs)	1
Time Step (mins)	5
Column ref Rainfall	2
Column ref Runoff	7
Column ref Baseflow	8
Account for baseflow?	0
Climate Change Rainfall Correction	45

Storage

Lagoon area at rest (m2)	106
Lagoon outlet invert (maOD)	91.74
Lagoon Area at max freeboard (m2)	106
Lagoon max freeboard (maOD)	92.5

Outflows (Orifice)

Discharge coeffcient (m)	0.6
Orifice diameter (m)	0.038
Orifice area (m2)	0.001134115
2nd orifice elevation (maOD)	91.98
2nd orifice diameter (m)	0.041
2nd orifice area (m2)	0.001320254

Mass Balance	0.00
Peak Flow (l/s)	1.45
6hr cum vol (m3)	11.82
Peak Attenuation (m3)	24.27
Peak Head (maOD)	91.97

	Rate / vol	Exceedance over greenfield	% improvement
Greenfield Runoff (l/s)	1.48		
Greenfield Vol (m3)	20.74		
Brownfield Runoff (l/s)	3.60	2.12	
Brownfield Vol (m3)	46.24	25.50	
Model Rate (l/s)	1.45	-0.04	101.82
Model Vol (m3)	11.82	-8.92	134.99

	level / vol	Spare Capacity
Attenuation (m3)	80.56	56.29
Freeboard (m)	92.50	0.5300

Time	Design Rainfall	Direct Runoff	Baseflow	Total Flow	Starting head	Potential Outfl	Potential Outflow 2	Actual Outflow	Attenuation	End Head
hh:mm:ss	mm	m3/s	m3/s	m3	maOD	m3	m3	m3	m3	maOD
00:00:00	0.087211	0.000000	0.000000	0.000000	91.7400	0	0	0	0.000000	91.74
00:05:00	0.092438	0.000000	0.000000	0.000121	91.7400	0	0	0	0.000121	91.74
00:10:00	0.097879	0.000002	0.000000	0.000493	91.7400	0	0	0	0.000615	91.74
00:15:00	0.103697	0.000004	0.000000	0.001130	91.7400	0	0	0	0.001745	91.74
00:20:00	0.109933	0.000007	0.000000	0.002048	91.7400	0	0	0	0.003793	91.74
00:25:00	0.116567	0.000011	0.000000	0.003263	91.7400	0	0	0	0.007056	91.74
00:30:00	0.123673	0.000016	0.000000	0.004794	91.7400	0	0	0	0.011850	91.74
00:35:00	0.131314	0.000022	0.000000	0.006662	91.7400	0	0	0	0.018511	91.74
00:40:00	0.139463	0.000030	0.000000	0.008927	91.7400	0	0	0	0.027438	91.74
00:45:00	0.148211	0.000039	0.000000	0.011654	91.7400	0	0	0	0.039093	91.74
00:50:00	0.157654	0.000050	0.000000	0.014871	91.7400	0	0	0	0.053964	91.74
00:55:00	0.167755	0.000062	0.000000	0.018610	91.7400	0	0	0	0.072574	91.74
01:00:00	0.178627	0.000076	0.000000	0.022904	91.7400	0	0	0	0.095478	91.74
01:05:00	0.190419	0.000093	0.000000	0.027788	91.7400	0	0	0	0.123267	91.74
01:10:00	0.203079	0.000111	0.000000	0.033302	91.7400	0	0	0	0.156569	91.74
01:15:00	0.216753	0.000132	0.000000	0.039487	91.7400	0	0	0	0.196056	91.74
01:20:00	0.231672	0.000155	0.000000	0.046389	91.7400	0	0	0	0.242446	91.74
01:25:00	0.247765	0.000180	0.000000	0.054056	91.7400	0	0	0	0.296502	91.74
01:30:00	0.265227	0.000208	0.000000	0.062401	91.7400	0	0	0	0.358903	91.74
01:35:00	0.284428	0.000237	0.000000	0.071232	91.7400	0	0	0	0.430135	91.74
01:40:00	0.305272	0.000269	0.000000	0.080586	91.7400	0	0	0	0.510721	91.74
01:45:00	0.328030	0.000302	0.000000	0.090505	91.7400	0	0	0	0.601226	91.74
01:50:00	0.353333	0.000337	0.000000	0.101040	91.7400	0	0	0	0.702266	91.74
01:55:00	0.381050	0.000374	0.000000	0.112243	91.7400	0	0	0	0.814509	91.74
02:00:00	0.411589	0.000414	0.000000	0.124175	91.7400	0	0	0	0.938684	91.74
02:05:00	0.446116	0.000456	0.000000	0.136853	91.7500	0.090423035	0	0.090423035	0.985114	91.74
02:10:00	0.484479	0.000501	0.000000	0.150276	91.7500	0.090423035	0	0.090423035	1.044967	91.74
02:15:00	0.527366	0.000548	0.000000	0.164523	91.7500	0.090423035	0	0.090423035	1.119067	91.75
02:20:00	0.577290	0.000599	0.000000	0.179684	91.7500	0.090423035	0	0.090423035	1.208328	91.75
02:25:00	0.634232	0.000653	0.000000	0.195868	91.7500	0.090423035	0	0.090423035	1.313773	91.75
02:30:00	0.699641	0.000711	0.000000	0.213203	91.7500	0.090423035	0	0.090423035	1.436553	91.75
02:35:00	0.780796	0.000773	0.000000	0.231839	91.7500	0.090423035	0	0.090423035	1.577970	91.75
02:40:00	0.879904	0.000840	0.000000	0.251966	91.7500	0.090423035	0	0.090423035	1.739512	91.75
02:45:00	1.001981	0.000913	0.000000	0.273823	91.7500	0.090423035	0	0.090423035	1.922912	91.75
02:50:00	1.197951	0.000992	0.000000	0.297718	91.7600	0.127877483	0	0.127877483	2.092752	91.75
02:55:00	1.517625	0.001080	0.000000	0.324139	91.7600	0.127877483	0	0.127877483	2.289014	91.76
03:00:00	2.038452	0.001180	0.000000	0.353949	91.7600	0.127877483	0	0.127877483	2.515086	91.76
03:05:00	1.517625	0.001295	0.000000	0.388517	91.7600	0.127877483	0	0.127877483	2.775725	91.76
03:10:00	1.197951	0.001426	0.000000	0.427751	91.7700	0.156617291	0	0.156617291	3.046859	91.76
03:15:00	1.001981	0.001567	0.000000	0.470093	91.7700	0.156617291	0	0.156617291	3.360335	91.77
03:20:00	0.879904	0.001715	0.000000	0.514529	91.7700	0.156617291	0	0.156617291	3.718246	91.77
03:25:00	0.780796	0.001868	0.000000	0.560375	91.7800	0.180846071	0	0.180846071	4.097774	91.77
03:30:00	0.699641	0.002024	0.000000	0.607105	91.7800	0.180846071	0	0.180846071	4.524034	91.78
03:35:00	0.634232	0.002181	0.000000	0.654261	91.7800	0.180846071	0	0.180846071	4.997448	91.78
03:40:00	0.577290	0.002338	0.000000	0.701401	91.7900	0.202192054	0	0.202192054	5.496658	91.79
03:45:00	0.527366	0.002494	0.000000	0.748106	91.7900	0.202192054	0	0.202192054	6.042572	91.79
03:50:00	0.484479	0.002647	0.000000	0.793953	91.8000	0.221490297	0	0.221490297	6.615035	91.8
03:55:00	0.446116	0.002795	0.000000	0.838505	91.8100	0.239236864	0	0.239236864	7.214303	91.8
04:00:00	0.411589	0.002938	0.000000	0.881306	91.8100	0.239236864	0	0.239236864	7.856372	91.81
04:05:00	0.381050	0.003073	0.000000	0.921851	91.8200	0.255754966	0	0.255754966	8.522468	91.82
04:10:00	0.353333	0.003199	0.000000	0.959561	91.8200	0.255754966	0	0.255754966	9.226274	91.82
04:15:00	0.328030	0.003313	0.000000	0.993761	91.8300	0.271269106	0	0.271269106	9.948765	91.83
04:20:00	0.305272	0.003412	0.000000	1.023557	91.8400	0.285942744	0	0.285942744	10.686379	91.84
04:25:00	0.284428	0.003492	0.000000	1.047560	91.8500	0.29989928	0	0.29989928	11.434040	91.84
04:30:00	0.265227	0.003545	0.000000	1.063556	91.8500	0.29989928	0	0.29989928	12.197697	91.85
04:35:00	0.247765	0.003569	0.000000	1.070724	91.8600	0.313234583	0	0.313234583	12.955186	91.86
04:40:00	0.231672	0.003571	0.000000	1.071404	91.8700	0.32602489	0	0.32602489	13.700565	91.86
04:45:00	0.216753	0.003557	0.000000	1.067076	91.8700	0.32602489	0	0.32602489	14.441616	91.87
04:50:00	0.203079	0.003529	0.000000	1.058647	91.8800	0.338332018	0	0.338332018	15.161931	91.88
04:55:00	0.190419	0.003489	0.000000	1.046724	91.8900	0.35020691	0	0.35020691	15.858448	91.88
05:00:00	0.178627	0.003439	0.000000	1.031804	91.8900	0.35020691	0	0.35020691	16.540045	91.89
05:05:00	0.167755	0.003381	0.000000	1.014300	91.9000	0.361692141	0	0.361692141	17.192653	91.9
05:10:00	0.157654	0.003315	0.000000	0.994562	91.9100	0.372823726	0	0.372823726	17.814391	91.9
05:15:00	0.148211	0.003243	0.000000	0.972949	91.9100	0.372823726	0	0.372823726	18.414516	91.91
05:20:00	0.139463	0.003166	0.000000	0.949761	91.9200	0.383632449	0	0.383632449	18.980645	91.91
05:25:00	0.131314	0.003084	0.000000	0.925264	91.9200	0.383632449	0	0.383632449	19.522276	91.92
05:30:00	0.123673	0.002999	0.000000	0.899715	91.9300	0.394144873	0	0.394144873	20.027846	91.92
05:35:00	0.116567	0.002911	0.000000	0.873368	91.9300	0.394144873	0	0.394144873	20.507069	91.93
05:40:00	0.109933	0.002822	0.000000	0.846482	91.9400	0.404384107	0	0.404384107	20.949167	91.93
05:45:00	0.103697	0.002731	0.000000	0.819347	91.9400	0.404384107	0	0.404384107	21.364130	91.94
05:50:00	0.097879	0.002641	0.000000	0.792348	91.9400	0.404384107	0	0.404384107	21.752094	91.94
05:55:00	0.092438	0.002553	0.000000	0.766010	91.9500	0.414370404	0	0.414370404	22.103734	91.94
06:00:00	0.087211	0.002469	0.000000	0.740718	91.9500	0.414370404	0	0.414370404	22.430082	91.95
06:05:00	0.000000	0.002387	0.000000	0.716086	91.9500	0.414370404	0	0.414370404	22.731797	91.95
06:10:00	0.000000	0.002306	0.000000	0.691722	91.9600	0.42412163	0	0.42412163	22.999397	91.95
06:15:00	0.000000	0.002225	0.000000	0.667364	91.9600	0.42412163	0	0.42412163	23.242640	91.95
06:20:00	0.000000	0.002143	0.000000	0.642969	91.9600	0.42412163	0	0.42412163	23.461488	91.96
06:25:00	0.000000	0.002062	0.000000	0.618514	91.9600	0.42412163	0	0.42412163	23.655881	91.96
06:30:00	0.000000	0.001980	0.000000	0.593993	91.9600	0.42412163	0	0.42412163	23.825752	91.96
06:35:00	0.000000	0.001898	0.000000	0.569409	91.9700	0.433653643	0	0.433653643	23.961507	91.96
06:40:00	0.000000	0.001816	0.000000	0.544773	91.9700	0.433653643	0	0.433653643	24.072626	91.96
06:45:00	0.000000	0.001734	0.000000	0.520100	91.9700	0.433653643	0	0.433653643	24.159072	91.96
06:50:00	0.000000	0.001651	0.000000	0.495412	91.9700	0.433653643	0	0.433653643	24.220831	91.96
06:55:00	0.000000	0.001569	0.000000	0.470731	91.9700	0.433653643	0	0.433653643	24.257908	91.96
07:00:00	0.000000	0.001487	0.000000	0.446084	91.9700	0.433653643	0	0.433653643	24.270338	91.96
07:05:00	0.000000	0.001405	0.000000	0.421499	91.9700	0.433653643	0	0.433653643	24.258183	91.96
07:10:00	0.000000	0.001323	0.000000	0.397011	91.9700	0.433653643	0	0.433653643	24.221541	91.96
07:15:00	0.000000	0.001242	0.000000	0.372652	91.9700	0.433653643	0	0.433653643	24.160539	91.96
07:20:00	0.000000	0.001162	0.000000	0.348464	91.9700	0.433653643	0	0.433653643	24.075349	91.96
07:25:00	0.000000	0.001082	0.000000	0.324486	91.9700	0.433653643	0	0.433653643	23.966182	91.96
07:30:00	0.000000	0.001003	0.000000	0.300766	91.9600	0.42412163	0	0.42412163	23.842826	91.96
07:35:00	0.000000	0.000925	0.000000	0.277525	91.9600	0.42412163	0	0.42412163	23.696230	91.96
07:40:00	0.000000	0.000850	0.000000	0.255097	91.9600	0.42412163	0	0.42412163	23.527205	91.96
07:45:00	0.000000	0.000778	0.000000	0.233530	91.9600	0.42412163	0	0.42412163	23.336614	91.96
07:50:00	0.000000	0.000710	0.000000	0.212879	91.9600	0.42412163	0	0.42412163	23.125371	91.95
07:55:00	0.000000	0.000644	0.000000	0.193216	91.9500	0.414370404	0	0.414370404	22.904217	91.95
08:00:00	0.000000	0.000582	0.000000	0.174639	91.9500	0.414370404	0	0.414370404	22.664485	91.95
08:05:00	0.000000	0.000524	0.000000	0.157303	91.9500	0.414370404	0	0.414370404	22.407418	91.95

08:10:00	0.000000	0.000472	0.000000	0.141473	91.9500	0.414370404	0	0.414370404	22.134521	91.94
08:15:00	0.000000	0.000425	0.000000	0.127514	91.9500	0.414370404	0	0.414370404	21.847665	91.94
08:20:00	0.000000	0.000384	0.000000	0.115164	91.9400	0.404384107	0	0.404384107	21.558445	91.94
08:25:00	0.000000	0.000347	0.000000	0.104093	91.9400	0.404384107	0	0.404384107	21.258154	91.94
08:30:00	0.000000	0.000314	0.000000	0.094099	91.9400	0.404384107	0	0.404384107	20.947869	91.93
08:35:00	0.000000	0.000284	0.000000	0.085050	91.9300	0.394144873	0	0.394144873	20.638774	91.93
08:40:00	0.000000	0.000256	0.000000	0.076847	91.9300	0.394144873	0	0.394144873	20.321476	91.93
08:45:00	0.000000	0.000231	0.000000	0.069407	91.9300	0.394144873	0	0.394144873	19.996739	91.92
08:50:00	0.000000	0.000209	0.000000	0.062662	91.9200	0.383632449	0	0.383632449	19.675768	91.92
08:55:00	0.000000	0.000189	0.000000	0.056553	91.9200	0.383632449	0	0.383632449	19.348689	91.92
09:00:00	0.000000	0.000170	0.000000	0.051005	91.9200	0.383632449	0	0.383632449	19.016061	91.91
09:05:00	0.000000	0.000153	0.000000	0.045908	91.9100	0.372823726	0	0.372823726	18.689145	91.91
09:10:00	0.000000	0.000137	0.000000	0.041221	91.9100	0.372823726	0	0.372823726	18.357542	91.91
09:15:00	0.000000	0.000123	0.000000	0.036913	91.9100	0.372823726	0	0.372823726	18.021632	91.91
09:20:00	0.000000	0.000110	0.000000	0.032956	91.9100	0.372823726	0	0.372823726	17.681765	91.9
09:25:00	0.000000	0.000098	0.000000	0.029325	91.9000	0.361692141	0	0.361692141	17.349398	91.9
09:30:00	0.000000	0.000087	0.000000	0.025996	91.9000	0.361692141	0	0.361692141	17.013701	91.9
09:35:00	0.000000	0.000076	0.000000	0.022948	91.9000	0.361692141	0	0.361692141	16.674957	91.89
09:40:00	0.000000	0.000067	0.000000	0.020162	91.8900	0.35020691	0	0.35020691	16.344912	91.89
09:45:00	0.000000	0.000059	0.000000	0.017620	91.8900	0.35020691	0	0.35020691	16.012326	91.89
09:50:00	0.000000	0.000051	0.000000	0.015307	91.8900	0.35020691	0	0.35020691	15.677426	91.88
09:55:00	0.000000	0.000044	0.000000	0.013207	91.8800	0.338332018	0	0.338332018	15.352301	91.88
10:00:00	0.000000	0.000038	0.000000	0.011307	91.8800	0.338332018	0	0.338332018	15.025275	91.88
10:05:00	0.000000	0.000032	0.000000	0.009594	91.8800	0.338332018	0	0.338332018	14.696537	91.87
10:10:00	0.000000	0.000027	0.000000	0.008056	91.8700	0.32602489	0	0.32602489	14.378568	91.87
10:15:00	0.000000	0.000022	0.000000	0.006683	91.8700	0.32602489	0	0.32602489	14.059226	91.87
10:20:00	0.000000	0.000018	0.000000	0.005464	91.8700	0.32602489	0	0.32602489	13.738665	91.86
10:25:00	0.000000	0.000015	0.000000	0.004391	91.8600	0.313234583	0	0.313234583	13.429822	91.86
10:30:00	0.000000	0.000012	0.000000	0.003455	91.8600	0.313234583	0	0.313234583	13.120042	91.86
10:35:00	0.000000	0.000009	0.000000	0.002647	91.8600	0.313234583	0	0.313234583	12.809454	91.86
10:40:00	0.000000	0.000007	0.000000	0.001960	91.8600	0.313234583	0	0.313234583	12.498180	91.85
10:45:00	0.000000	0.000005	0.000000	0.001387	91.8500	0.29989928	0	0.29989928	12.199667	91.85
10:50:00	0.000000	0.000003	0.000000	0.000921	91.8500	0.29989928	0	0.29989928	11.900689	91.85
10:55:00	0.000000	0.000002	0.000000	0.000557	91.8500	0.29989928	0	0.29989928	11.601347	91.84
11:00:00	0.000000	0.000001	0.000000	0.000289	91.8400	0.285942744	0	0.285942744	11.315693	91.84
11:05:00	0.000000	0.000000	0.000000	0.000110	91.8400	0.285942744	0	0.285942744	11.029860	91.84
11:10:00	0.000000	0.000000	0.000000	0.000017	91.8400	0.285942744	0	0.285942744	10.743935	91.84
11:15:00	0.000000	0.000000	0.000000	0.000000	91.8400	0.285942744	0	0.285942744	10.457992	91.83
11:20:00	0.000000	0.000000	0.000000	0.000000	91.8300	0.271269106	0	0.271269106	10.186723	91.83
11:25:00	0.000000	0.000000	0.000000	0.000000	91.8300	0.271269106	0	0.271269106	9.915454	91.83
11:30:00	0.000000	0.000000	0.000000	0.000000	91.8300	0.271269106	0	0.271269106	9.644185	91.83
11:35:00	0.000000	0.000000	0.000000	0.000000	91.8300	0.271269106	0	0.271269106	9.372916	91.82
11:40:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.255754966	0	0.255754966	9.117161	91.82
11:45:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.255754966	0	0.255754966	8.861406	91.82
11:50:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.255754966	0	0.255754966	8.605651	91.82
11:55:00	0.000000	0.000000	0.000000	0.000000	91.8200	0.255754966	0	0.255754966	8.349896	91.81
12:00:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.239236864	0	0.239236864	8.110659	91.81
12:05:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.239236864	0	0.239236864	7.871422	91.81
12:10:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.239236864	0	0.239236864	7.632185	91.81
12:15:00	0.000000	0.000000	0.000000	0.000000	91.8100	0.239236864	0	0.239236864	7.392948	91.8
12:20:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.221490297	0	0.221490297	7.171458	91.8
12:25:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.221490297	0	0.221490297	6.949968	91.8
12:30:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.221490297	0	0.221490297	6.728477	91.8
12:35:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.221490297	0	0.221490297	6.506987	91.8
12:40:00	0.000000	0.000000	0.000000	0.000000	91.8000	0.221490297	0	0.221490297	6.285497	91.79
12:45:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.202192054	0	0.202192054	6.083305	91.79
12:50:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.202192054	0	0.202192054	5.881113	91.79
12:55:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.202192054	0	0.202192054	5.678921	91.79
13:00:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.202192054	0	0.202192054	5.476729	91.79
13:05:00	0.000000	0.000000	0.000000	0.000000	91.7900	0.202192054	0	0.202192054	5.274537	91.78
13:10:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.180846071	0	0.180846071	5.093691	91.78
13:15:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.180846071	0	0.180846071	4.912844	91.78
13:20:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.180846071	0	0.180846071	4.731998	91.78
13:25:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.180846071	0	0.180846071	4.551152	91.78
13:30:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.180846071	0	0.180846071	4.370306	91.78
13:35:00	0.000000	0.000000	0.000000	0.000000	91.7800	0.180846071	0	0.180846071	4.189460	91.77
13:40:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	4.032843	91.77
13:45:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	3.876226	91.77
13:50:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	3.719608	91.77
13:55:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	3.562991	91.77
14:00:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	3.406374	91.77
14:05:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	3.249756	91.77
14:10:00	0.000000	0.000000	0.000000	0.000000	91.7700	0.156617291	0	0.156617291	3.093139	91.76
14:15:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.965262	91.76
14:20:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.837384	91.76
14:25:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.709507	91.76
14:30:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.581629	91.76
14:35:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.453752	91.76
14:40:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.325874	91.76
14:45:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.197997	91.76
14:50:00	0.000000	0.000000	0.000000	0.000000	91.7600	0.127877483	0	0.127877483	2.070119	91.75
14:55:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.979696	91.75
15:00:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.889273	91.75
15:05:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.798850	91.75
15:10:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.708427	91.75
15:15:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.618004	91.75
15:20:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.527581	91.75
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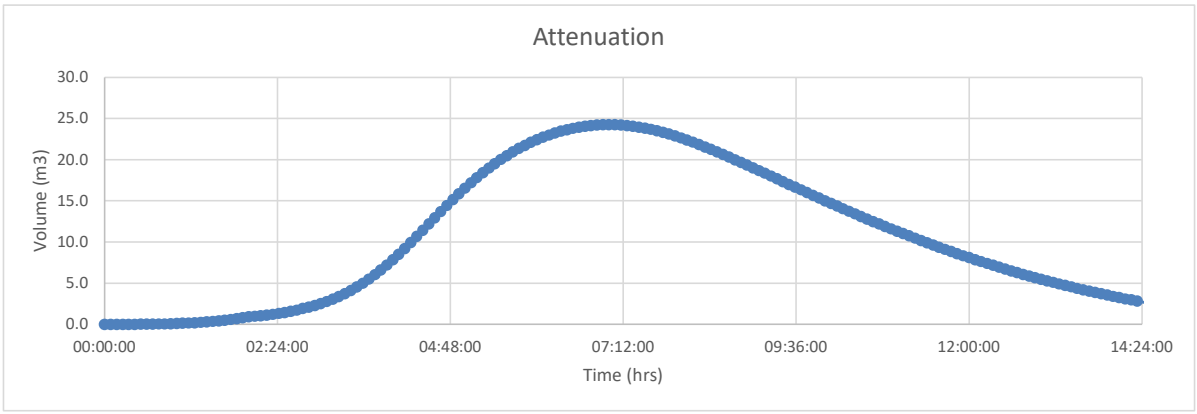
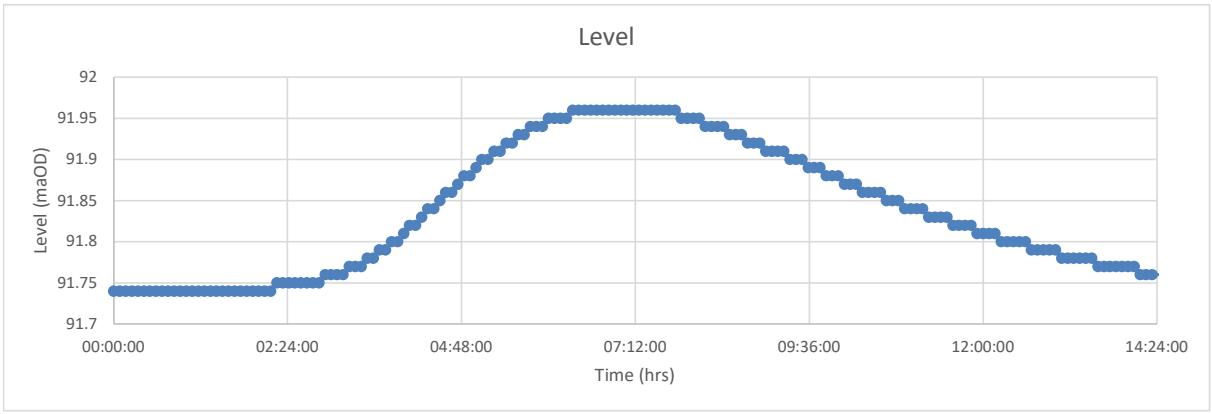
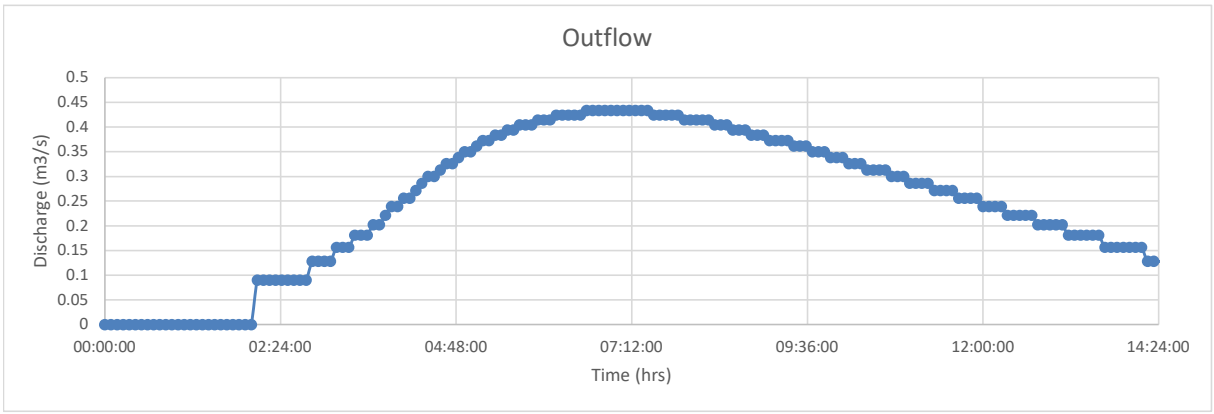
15:40:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.165889	91.75
15:45:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	1.075466	91.75
15:50:00	0.000000	0.000000	0.000000	0.000000	91.7500	0.090423035	0	0.090423035	0.985043	91.74
15:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
16:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
17:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
18:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74

18:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
19:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
20:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
21:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
22:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:00:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:05:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:10:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:15:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:20:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:25:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:30:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:35:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:40:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:45:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:50:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74
23:55:00	0.000000	0.000000	0.000000	0.000000	91.7400	0	0	0	0.985043	91.74


Attenuation
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Volume (m3)
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Level
92
91.95
91.9
91.85
91.8
91.75
91.7
Level (maOD)
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)


Outflow
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Discharge (m3/s)
00:00:00
02:24:00
04:48:00
07:12:00
09:36:00
12:00:00
14:24:00
Time (hrs)

Templars Way, 1 in 100 year, Tank 3

Inflows

Return Period (yrs)	100
Time Step (mins)	5
Column ref Rainfall	58
Column ref Runoff	63
Column ref Baseflow	64
Account for baseflow?	0
Climate Change Rainfall Correction	45

Storage

Lagoon area at rest (m2)	106
Lagoon outlet invert (maOD)	91.74
Lagoon Area at max freeboard (m2)	106
Lagoon max freeboard (maOD)	92.5

Outflows (Orifice)

Discharge coeffcient (m)	0.6
Orifice diameter (m)	0.038
Orifice area (m2)	0.001134115
2nd orifice elevation (maOD)	91.98
2nd orifice diameter (m)	0.041
2nd orifice area (m2)	0.001320254

Mass Balance	0.00
Peak Flow (l/s)	5.12
6hr cum vol (m3)	36.63
Peak Attenuation (m3)	79.00
Peak Head (maOD)	92.49

	Rate / vol	Exceedance over greenfield	% improvement
Greenfield Runoff (l/s)	5.23		
Greenfield Vol (m3)	76.34		
Brownfield Runoff (l/s)	11.66	6.43	
Brownfield Vol (m3)	150.46	74.12	
Model Rate (l/s)	5.12	-0.11	101.74
Model Vol (m3)	36.63	-39.71	153.58

	level / vol	Spare Capacity
Attenuation (m3)	80.56	1.56
Freeboard (m)	92.50	0.0100

Time	Design Rainfall	Direct Runoff	Baseflow	Total Flow	Starting head	Potential Outfl	Potential Outflow 2	Actual Outflow	Attenuation	End Head
hh:mm:ss	mm	m3/s	m3/s	m3	maOD	m3	m3	m3	m3	maOD
00:00:00	0.273660	0.000000	0.000000	0.000000	91.7400	0	0	0	0.000000	91.74
00:05:00	0.290063	0.000001	0.000000	0.000381	91.7400	0	0	0	0.000381	91.74
00:10:00	0.307134	0.000005	0.000000	0.001548	91.7400	0	0	0	0.001929	91.74
00:15:00	0.325391	0.000012	0.000000	0.003592	91.7400	0	0	0	0.005521	91.74
00:20:00	0.344960	0.000022	0.000000	0.006663	91.7400	0	0	0	0.012184	91.74
00:25:00	0.365775	0.000036	0.000000	0.010878	91.7400	0	0	0	0.023062	91.74
00:30:00	0.388073	0.000054	0.000000	0.016305	91.7400	0	0	0	0.039367	91.74
00:35:00	0.412051	0.000077	0.000000	0.023018	91.7400	0	0	0	0.062384	91.74
00:40:00	0.437621	0.000104	0.000000	0.031096	91.7400	0	0	0	0.093481	91.74
00:45:00	0.465071	0.000135	0.000000	0.040626	91.7400	0	0	0	0.134107	91.74
00:50:00	0.494703	0.000172	0.000000	0.051698	91.7400	0	0	0	0.185805	91.74
00:55:00	0.526398	0.000215	0.000000	0.064411	91.7400	0	0	0	0.250215	91.74
01:00:00	0.560514	0.000263	0.000000	0.078870	91.7400	0	0	0	0.329085	91.74
01:05:00	0.597516	0.000317	0.000000	0.095188	91.7400	0	0	0	0.424273	91.74
01:10:00	0.637242	0.000378	0.000000	0.113490	91.7400	0	0	0	0.537764	91.74
01:15:00	0.680149	0.000446	0.000000	0.133908	91.7400	0	0	0	0.671671	91.74
01:20:00	0.726963	0.000522	0.000000	0.156584	91.7400	0	0	0	0.828255	91.74
01:25:00	0.777462	0.000606	0.000000	0.181674	91.7400	0	0	0	1.009930	91.74
01:30:00	0.832255	0.000696	0.000000	0.208906	91.7500	0.090423035	0	0.090423035	1.128413	91.75
01:35:00	0.892506	0.000792	0.000000	0.237683	91.7500	0.090423035	0	0.090423035	1.275673	91.75
01:40:00	0.957914	0.000894	0.000000	0.268065	91.7500	0.090423035	0	0.090423035	1.453315	91.75
01:45:00	1.029327	0.001000	0.000000	0.300042	91.7500	0.090423035	0	0.090423035	1.662933	91.75
01:50:00	1.108724	0.001112	0.000000	0.333648	91.7500	0.090423035	0	0.090423035	1.906159	91.75
01:55:00	1.195697	0.001230	0.000000	0.369039	91.7600	0.127877483	0	0.127877483	2.147321	91.76
02:00:00	1.291525	0.001355	0.000000	0.406390	91.7600	0.127877483	0	0.127877483	2.425833	91.76
02:05:00	1.399870	0.001486	0.000000	0.445897	91.7600	0.127877483	0	0.127877483	2.743852	91.76
02:10:00	1.520247	0.001626	0.000000	0.487785	91.7700	0.156617291	0	0.156617291	3.075020	91.76
02:15:00	1.654824	0.001774	0.000000	0.532317	91.7700	0.156617291	0	0.156617291	3.450720	91.77
02:20:00	1.811479	0.001933	0.000000	0.579788	91.7700	0.156617291	0	0.156617291	3.873890	91.77
02:25:00	1.990159	0.002102	0.000000	0.630549	91.7800	0.180846071	0	0.180846071	4.323593	91.78
02:30:00	2.195406	0.002283	0.000000	0.685019	91.7800	0.180846071	0	0.180846071	4.827765	91.78
02:35:00	2.450062	0.002479	0.000000	0.743690	91.7900	0.202192054	0	0.202192054	5.369263	91.79
02:40:00	2.761052	0.002691	0.000000	0.807177	91.7900	0.202192054	0	0.202192054	5.974247	91.79
02:45:00	3.144118	0.002921	0.000000	0.876270	91.8000	0.221490297	0	0.221490297	6.629027	91.8
02:50:00	3.759051	0.003173	0.000000	0.951975	91.8100	0.239236864	0	0.239236864	7.341765	91.8
02:55:00	4.762159	0.003453	0.000000	1.035890	91.8100	0.239236864	0	0.239236864	8.138417	91.81
03:00:00	6.396462	0.003769	0.000000	1.130828	91.8200	0.255754966	0	0.255754966	9.013490	91.82
03:05:00	4.762159	0.004138	0.000000	1.241294	91.8300	0.271269106	0	0.271269106	9.983515	91.83
03:10:00	3.759051	0.004557	0.000000	1.367090	91.8400	0.285942744	0	0.285942744	11.064662	91.84
03:15:00	3.144118	0.005011	0.000000	1.503236	91.8500	0.29989928	0	0.29989928	12.267999	91.85
03:20:00	2.761052	0.005488	0.000000	1.646477	91.8700	0.32602489	0	0.32602489	13.588451	91.86
03:25:00	2.450062	0.005982	0.000000	1.794610	91.8800	0.338332018	0	0.338332018	15.044729	91.88
03:30:00	2.195406	0.006486	0.000000	1.945925	91.9000	0.361692141	0	0.361692141	16.628962	91.89
03:35:00	1.990159	0.006996	0.000000	2.098880	91.9100	0.372823726	0	0.372823726	18.355018	91.91
03:40:00	1.811479	0.007507	0.000000	2.252053	91.9300	0.394144873	0	0.394144873	20.212926	91.93
03:45:00	1.654824	0.008014	0.000000	2.404082	91.9500	0.414370404	0	0.414370404	22.202638	91.94
03:50:00	1.520247	0.008512	0.000000	2.553597	91.9700	0.433653643	0	0.433653643	24.322581	91.96
03:55:00	1.399870	0.008997	0.000000	2.699182	91.9900	0.452115176	0.105263935	0.557379112	26.464384	91.98
04:00:00	1.291525	0.009465	0.000000	2.839351	92.0100	0.469851874	0.182322484	0.652174358	28.651560	92.01
04:05:00	1.195697	0.009908	0.000000	2.972467	92.0300	0.486942947	0.235377315	0.722320262	30.901707	92.03
04:10:00	1.108724	0.010322	0.000000	3.096644	92.0600	0.511509931	0.297731369	0.809241301	33.189110	92.05
04:15:00	1.029327	0.010699	0.000000	3.209677	92.0800	0.527252369	0.33287379	0.860126159	35.538661	92.07
04:20:00	0.957914	0.011029	0.000000	3.308647	92.1000	0.542538212	0.364644968	0.907183179	37.940125	92.09
04:25:00	0.892506	0.011297	0.000000	3.389018	92.1200	0.557405025	0.39386158	0.951266605	40.377876	92.12
04:30:00	0.832255	0.011478	0.000000	3.443535	92.1500	0.578989929	0.434014323	1.013004252	42.808406	92.14
04:35:00	0.777462	0.011565	0.000000	3.469427	92.1700	0.592943495	0.458834856	1.051778351	45.226055	92.16
04:40:00	0.726963	0.011581	0.000000	3.474202	92.1900	0.606576161	0.482379951	1.088956112	47.611301	92.18
04:45:00	0.680149	0.011542	0.000000	3.462623	92.2200	0.626469165	0.515685859	1.142155024	49.931769	92.21
04:50:00	0.637242	0.011459	0.000000	3.437609	92.2400	0.639387414	0.536742859	1.176130274	52.193248	92.23
04:55:00	0.597516	0.011337	0.000000	3.401116	92.2600	0.65204978	0.557004389	1.209054169	54.385310	92.25
05:00:00	0.560514	0.011183	0.000000	3.354752	92.2800	0.664470892	0.576554318	1.24102521	56.499037	92.27
05:05:00	0.526398	0.010999	0.000000	3.299846	92.3000	0.676664036	0.595462739	1.272126775	58.526756	92.29
05:10:00	0.494703	0.010792	0.000000	3.237534	92.3200	0.68864132	0.613788942	1.302430262	60.461860	92.31
05:15:00	0.465071	0.010563	0.000000	3.168974	92.3400	0.70041382	0.631583611	1.33199743	62.298836	92.32
05:20:00	0.437621	0.010317	0.000000	3.095141	92.3500	0.706226482	0.64029552	1.346522003	64.047455	92.34
05:25:00	0.412051	0.010056	0.000000	3.016919	92.3700	0.717710593	0.657373064	1.375083657	65.689291	92.35
05:30:00	0.388073	0.009784	0.000000	2.935167	92.3800	0.723384282	0.665747581	1.389131863	67.235326	92.37
05:35:00	0.365775	0.009502	0.000000	2.850725	92.4000	0.734600211	0.682188268	1.41678848	68.669263	92.38
05:40:00	0.344960	0.009215	0.000000	2.764441	92.4100	0.740144443	0.690261783	1.430406226	70.003298	92.4
05:45:00	0.325391	0.008924	0.000000	2.677258	92.4200	0.745647451	0.698241954	1.443889405	71.236667	92.41
05:50:00	0.307134	0.008635	0.000000	2.590390	92.4300	0.751110143	0.706131944	1.457242086	72.369815	92.42
05:55:00	0.290063	0.008352	0.000000	2.505542	92.4400	0.756533391	0.713934743	1.470468135	73.404889	92.43
06:00:00	0.273660	0.008080	0.000000	2.423984	92.4500	0.761918038	0.721653181	1.48357122	74.345302	92.44
06:05:00	0.000000	0.007815	0.000000	2.344491	92.4600	0.767264897	0.729289935	1.496554833	75.193238	92.44
06:10:00	0.000000	0.007553	0.000000	2.265784	92.4700	0.772574752	0.736847546	1.509422298	75.949599	92.45
06:15:00	0.000000	0.007290	0.000000	2.187006	92.4700	0.772574752	0.736847546	1.509422298	76.627183	92.46
06:20:00	0.000000	0.007027	0.000000	2.108024	92.4800	0.777848361	0.744328423	1.522176785	77.213030	92.46
06:25:00	0.000000	0.006763	0.000000	2.028769	92.4800	0.777848361	0.744328423	1.522176785	77.719622	92.47
06:30:00	0.000000	0.006497	0.000000	1.949222	92.4900	0.783086457	0.751734859	1.534821315	78.134023	92.47
06:35:00	0.000000	0.006231	0.000000	1.869402	92.4900	0.783086457	0.751734859	1.534821315	78.468604	92.48
06:40:00	0.000000	0.005964	0.000000	1.789346	92.4900	0.783086457	0.751734859	1.534821315	78.723129	92.48
06:45:00	0.000000	0.005697	0.000000	1.709106	92.4900	0.783086457	0.751734859	1.534821315	78.897413	92.48
06:50:00	0.000000	0.005429	0.000000	1.628750	92.4900	0.783086457	0.751734859	1.534821315	78.991342	92.48
06:55:00	0.000000	0.005161	0.000000	1.548356	92.4900	0.783086457	0.751734859	1.534821315	79.004877	92.48
07:00:00	0.000000	0.004893	0.000000	1.468011	92.4900	0.783086457	0.751734859	1.534821315	78.938067	92.48
07:05:00	0.000000	0.004626	0.000000	1.387812	92.4900	0.783086457	0.751734859	1.534821315	78.791057	92.48
07:10:00	0.000000	0.004360	0.000000	1.307864	92.4900	0.783086457	0.751734859	1.534821315	78.564099	92.48
07:15:00	0.000000	0.004094	0.000000	1.228281	92.4900	0.783086457	0.751734859	1.534821315	78.257559	92.47
07:20:00	0.000000	0.003831	0.000000	1.149192	92.4800	0.777848361	0.744328423	1.522176785	77.884574	92.47
07:25:00	0.000000	0.003569	0.000000	1.070732	92.4800	0.777848361	0.744328423	1.522176785	77.433129	92.47
07:30:00	0.000000	0.003310	0.000000	0.993054	92.4700	0.772574752	0.736847546	1.509422298	76.916761	92.46
07:35:00	0.000000	0.003056	0.000000	0.916890	92.4700	0.772574752	0.736847546	1.509422298	76.324229	92.46
07:40:00	0.000000	0.002811	0.000000	0.843359	92.4600	0.767264897	0.729289935	1.496554833	75.671033	92.45
07:45:00	0.000000	0.002575	0.000000	0.772611	92.4600	0.767264897	0.729289935	1.496554833	74.947089	92.44
07:50:00	0.000000	0.002349	0.000000	0.704825	92.4500	0.761918038	0.721653181	1.48357122	74.168343	92.43
07:55:00	0.000000	0.002134	0.000000	0.640237	92.4400	0.756533391	0.713934743	1.470468135	73.338111	92.43
08:00:00	0.000000	0.001931	0.000000	0.579160	92.4300	0.751110143	0.706131944	1.457242086	72.460029	92.42
08:05:00	0.000000	0.001740	0.000000	0.522106	92.4200	0.745647451	0.698241954	1.443889405	71.538246	92.41

08:10:00	0.000000	0.001566	0.000000	0.469936	92.4100	0.740144443	0.690261783	1.430406226	70.577775	92.4
08:15:00	0.000000	0.001413	0.000000	0.423850	92.4000	0.734600211	0.682188268	1.41678848	69.584836	92.39
08:20:00	0.000000	0.001277	0.000000	0.383009	92.4000	0.734600211	0.682188268	1.41678848	68.551057	92.38
08:25:00	0.000000	0.001155	0.000000	0.346359	92.3800	0.723384282	0.665747581	1.389131863	67.508284	92.37
08:30:00	0.000000	0.001044	0.000000	0.313240	92.3700	0.717710593	0.657373064	1.375083657	66.446441	92.36
08:35:00	0.000000	0.000944	0.000000	0.283230	92.3600	0.711991692	0.648890476	1.360882168	65.368788	92.35
08:40:00	0.000000	0.000853	0.000000	0.256004	92.3500	0.706226482	0.64029552	1.346522003	64.278271	92.34
08:45:00	0.000000	0.000771	0.000000	0.231296	92.3400	0.70041382	0.631583611	1.33199743	63.177569	92.33
08:50:00	0.000000	0.000696	0.000000	0.208883	92.3300	0.694552513	0.622749839	1.317302352	62.069150	92.32
08:55:00	0.000000	0.000629	0.000000	0.188575	92.3200	0.68864132	0.613788942	1.302430262	60.955295	92.31
09:00:00	0.000000	0.000567	0.000000	0.170123	92.3100	0.682678946	0.60469527	1.287374215	59.838044	92.3
09:05:00	0.000000	0.000511	0.000000	0.153159	92.3000	0.676664036	0.595462739	1.272126775	58.719076	92.29
09:10:00	0.000000	0.000459	0.000000	0.137556	92.2900	0.670595178	0.586084787	1.256679964	57.599952	92.28
09:15:00	0.000000	0.000411	0.000000	0.123209	92.2800	0.664470892	0.576554318	1.24102521	56.482136	92.27
09:20:00	0.000000	0.000367	0.000000	0.110025	92.2700	0.658289633	0.566863639	1.225153272	55.367007	92.26
09:25:00	0.000000	0.000326	0.000000	0.097921	92.2600	0.65204978	0.557004389	1.209054169	54.255874	92.25
09:30:00	0.000000	0.000289	0.000000	0.086820	92.2500	0.645749635	0.546967452	1.192717086	53.149976	92.24
09:35:00	0.000000	0.000256	0.000000	0.076654	92.2400	0.639387414	0.536742859	1.176130274	52.050500	92.23
09:40:00	0.000000	0.000225	0.000000	0.067358	92.2300	0.632961247	0.526319676	1.159280923	50.958577	92.22
09:45:00	0.000000	0.000196	0.000000	0.058876	92.2200	0.626469165	0.515685859	1.142155024	49.875298	92.21
09:50:00	0.000000	0.000171	0.000000	0.051153	92.2100	0.619909098	0.504828098	1.124737196	48.801714	92.2
09:55:00	0.000000	0.000147	0.000000	0.044141	92.2000	0.613278863	0.49373162	1.107010484	47.738845	92.19
10:00:00	0.000000	0.000126	0.000000	0.037795	92.1900	0.606576161	0.482379951	1.088956112	46.687683	92.18
10:05:00	0.000000	0.000107	0.000000	0.032072	92.1800	0.599798561	0.470754629	1.07055319	45.649203	92.17
10:10:00	0.000000	0.000090	0.000000	0.026935	92.1700	0.592943495	0.458834856	1.051778351	44.624359	92.16
10:15:00	0.000000	0.000074	0.000000	0.022346	92.1600	0.586008245	0.446597054	1.032605299	43.614100	92.15
10:20:00	0.000000	0.000061	0.000000	0.018274	92.1500	0.578989929	0.434014323	1.013004252	42.619370	92.14
10:25:00	0.000000	0.000049	0.000000	0.014687	92.1400	0.571885489	0.421055741	0.99294123	41.641115	92.13
10:30:00	0.000000	0.000039	0.000000	0.011555	92.1300	0.564691674	0.407685468	0.972377142	40.680294	92.12
10:35:00	0.000000	0.000030	0.000000	0.008854	92.1200	0.557405025	0.39386158	0.951266605	39.737880	92.11
10:40:00	0.000000	0.000022	0.000000	0.006556	92.1100	0.550021851	0.379534516	0.929556367	38.814880	92.1
10:45:00	0.000000	0.000015	0.000000	0.004640	92.1000	0.542538212	0.364644968	0.907183179	37.912337	92.09
10:50:00	0.000000	0.000010	0.000000	0.003083	92.0900	0.534949891	0.349120977	0.884070868	37.031349	92.08
10:55:00	0.000000	0.000006	0.000000	0.001864	92.0800	0.527252369	0.33287379	0.860126159	36.173087	92.08
11:00:00	0.000000	0.000003	0.000000	0.000966	92.0800	0.527252369	0.33287379	0.860126159	35.313926	92.07
11:05:00	0.000000	0.000001	0.000000	0.000369	92.0700	0.519440791	0.315791805	0.835232596	34.479063	92.06
11:10:00	0.000000	0.000000	0.000000	0.000057	92.0600	0.511509931	0.297731369	0.809241301	33.669879	92.05
11:15:00	0.000000	0.000000	0.000000	0.000000	92.0500	0.503454154	0.278502194	0.781956348	32.887922	92.05
11:20:00	0.000000	0.000000	0.000000	0.000000	92.0500	0.503454154	0.278502194	0.781956348	32.105966	92.04
11:25:00	0.000000	0.000000	0.000000	0.000000	92.0400	0.495267361	0.257842929	0.753110291	31.352856	92.03
11:30:00	0.000000	0.000000	0.000000	0.000000	92.0300	0.486942947	0.235377315	0.722320262	30.630536	92.02
11:35:00	0.000000	0.000000	0.000000	0.000000	92.0200	0.478473728	0.21052787	0.689001599	29.941534	92.02
11:40:00	0.000000	0.000000	0.000000	0.000000	92.0200	0.478473728	0.21052787	0.689001599	29.252532	92.01
11:45:00	0.000000	0.000000	0.000000	0.000000	92.0100	0.469851874	0.182322484	0.652174358	28.600358	92
11:50:00	0.000000	0.000000	0.000000	0.000000	92.0000	0.461068821	0.148865685	0.609934506	27.990424	92
11:55:00	0.000000	0.000000	0.000000	0.000000	92.0000	0.461068821	0.148865685	0.609934506	27.380489	91.99
12:00:00	0.000000	0.000000	0.000000	0.000000	91.9900	0.452115176	0.105263935	0.557379112	26.823110	91.99
12:05:00	0.000000	0.000000	0.000000	0.000000	91.9900	0.452115176	0.105263935	0.557379112	26.265731	91.98
12:10:00	0.000000	0.000000	0.000000	0.000000	91.9800	0.442980595	3.54923E-07	0.44298095	25.822750	91.98
12:15:00	0.000000	0.000000	0.000000	0.000000	91.9800	0.442980595	3.54923E-07	0.44298095	25.379769	91.97
12:20:00	0.000000	0.000000	0.000000	0.000000	91.9700	0.433653643	0	0.433653643	24.946115	91.97
12:25:00	0.000000	0.000000	0.000000	0.000000	91.9700	0.433653643	0	0.433653643	24.512462	91.97
12:30:00	0.000000	0.000000	0.000000	0.000000	91.9700	0.433653643	0	0.433653643	24.078808	91.96
12:35:00	0.000000	0.000000	0.000000	0.000000	91.9600	0.42412163	0	0.42412163	23.654686	91.96
12:40:00	0.000000	0.000000	0.000000	0.000000	91.9600	0.42412163	0	0.42412163	23.230565	91.95
12:45:00	0.000000	0.000000	0.000000	0.000000	91.9500	0.414370404	0	0.414370404	22.816194	91.95
12:50:00	0.000000	0.000000	0.000000	0.000000	91.9500	0.414370404	0	0.414370404	22.401824	91.95
12:55:00	0.000000	0.000000	0.000000	0.000000	91.9500	0.414370404	0	0.414370404	21.987453	91.94
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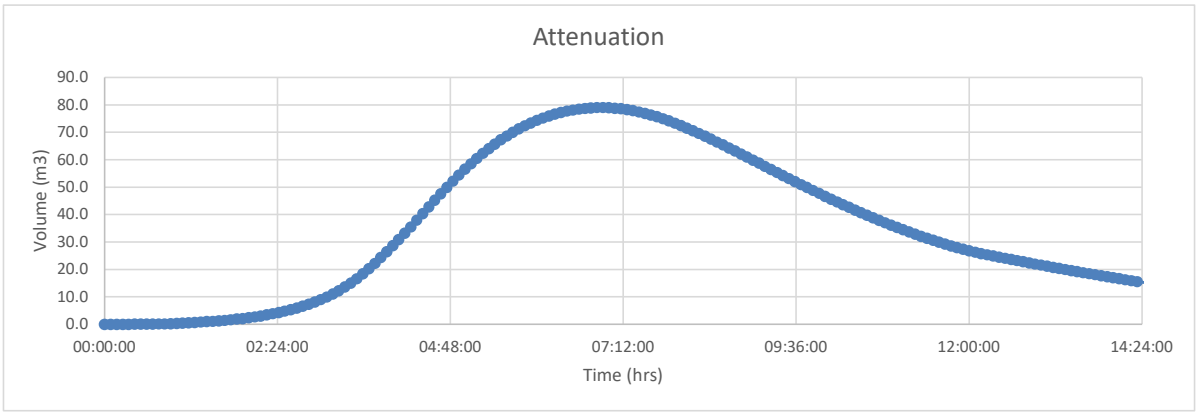
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10.0
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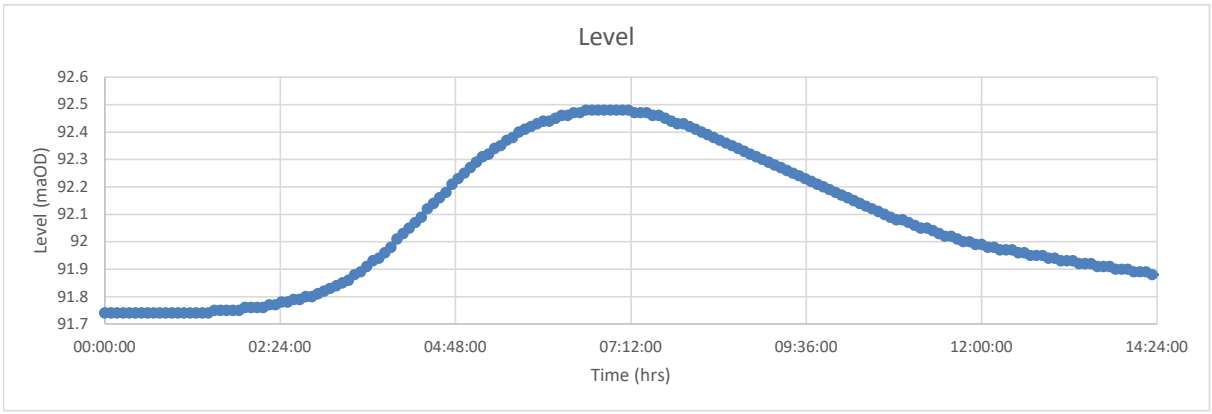
Time (hrs)


Level
Level (maOD)
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92.4
92.3
92.2
92.1
92
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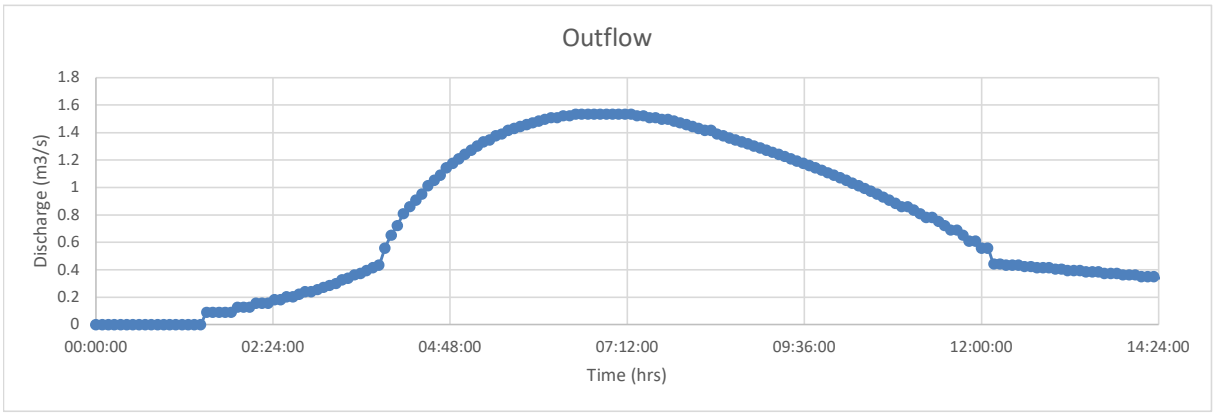
Time (hrs)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1.2
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0.4
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Time (hrs)