



## Thames Water Utilities Limited Indicative Capital Delivery Major Projects Pipeline - Jun 25

Thames Water Utilities Limited's (TWUL) Indicative Capital Delivery Major Projects Pipeline is a forward look at potential procurement activity. The information presented is for information only and reflects TWUL's anticipated procurement pipeline. TWUL will periodically review its potential procurement activity and share with industry through future updates to the pipeline.

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Project Title	Short description	Estimated tender release date	Estimated contract award date	Estimated construction start date	Estimated contract duration (award to takeover)	Estimated contract value (ex. VAT)	Likely procurement procedure
K298: Maple Lodge STW	Increase the capacity of the sewage treatment works and storm tanks as well as provide quality improvements to the final effluent (Ammonia and Phosphorous).	31-Mar-2025	1-Feb-2026	1-Feb-2027	60 months	£140m-£280m	UCR ITN to award, followed by optimising design and programme to fix Target Cost (2 Stage procurement process)
K935: Riverside STW	Provision of additional assets to meet a new design horizon and discharge compliance, with the upgrading and/or replacement of existing life expired assets.	1-Jun-2025	1-Feb-2026	1-Feb-2027	60 months	£120m	UCR ITN to award, followed by optimising design and programme to fix Target Cost (2 Stage procurement process)
L750: Beckton STW AMP8 WAAP	Replacement and refurbishment of assets to improve resilience on process quality compliance and major capital maintenance.	1-Mar-2026	1-Dec-2026	1-Jun-2027	48 months	£40m	TBD Most likely 2 stage procurement process
S39830: Beckton STW THP Upgrade	Provision of an additional thermal hydrolysis plant and associated assets on the sludge treatment stream.	1-Mar-2026	1-Dec-2026	1-Jun-2027	60 months	£130m	TBD Most likely 2 stage procurement process
L752: Mogden STW AMP8 WAAP	Replacement and refurbishment of assets to improve resilience on process quality compliance and major capital maintenance.	1-Mar-2026	1-Dec-2026	1-Jun-2027	54 months	£80m	TBD Most likely 2 stage procurement process
S40439: Didcot STW - Growth, Phosphorus, CHP	Provision of additional assets to meet growth, new phosphorus quality compliance and new CHP/Gas to Grid.	1-Apr-2026	1-Jan-2027	1-Jan-2028	60 months	£110m	TBD Most likely 2 stage procurement process
L479: Hampton Advanced Water Treatment Works (AWTW) UV Treatment	Provision of new UV treatment process to deactivate Cryptosporidium Oocysts	1-Jul-2026	1-Apr-2027	1-Oct-2027	30 months	£50m	TBD Most likely 2 stage procurement process
L844: Ashford UV AWTW UV Treatment	Provision of new UV treatment process to deactivate Cryptosporidium Oocysts	1-Jul-2026	1-Apr-2027	1-Oct-2027	30 months	£70m	TBD Most likely 2 stage procurement process
S38271: Wantage STW - Growth, Phosphorus	Provision of additional assets to meet growth and new phosphorus quality compliance.	1-Jul-2026	1-Jan-2027	1-Oct-2027	42 months	£40m	TBD Most likely 2 stage procurement process
S38971: Reading STW Phosphorus, CHP, WAAP	Replacement and refurbishment of assets to improve resilience or process compliance, provision of new assets to meet phosphorus quality improvement and CHP/Gas to Grid	1-Oct-2026	1-Jul-2027	1-Apr-2028	48 months	£60m	TBD Most likely 2 stage procurement process
S40373: Swindon STW - Sludge Growth, Phosphorus, pollution	New infrastructure to meet sludge growth, phosphorus quality permit and pollution reduction	1-Oct-2026	1-Jul-2027	1-Apr-2028	54 months	£70m	TBD Most likely 2 stage procurement process
L751: Crossness STW AMP8 WAAP	Replacement and refurbishment of assets to improve resilience on process quality compliance and major capital maintenance.	1-Jan-2027	1-Jul-2027	1-Feb-2028	54 months	£80m	TBD Most likely 2 stage procurement process
S38634: Hogsmill STW - Phosphorus, CHP & WNI River restoration	New assets to meet phosphorus quality improvement, river quality improvement and CHP/Gas to Grid	1-Apr-2027	1-Jan-2028	1-Oct-2028	42 months	£60m	TBD Most likely 2 stage procurement process

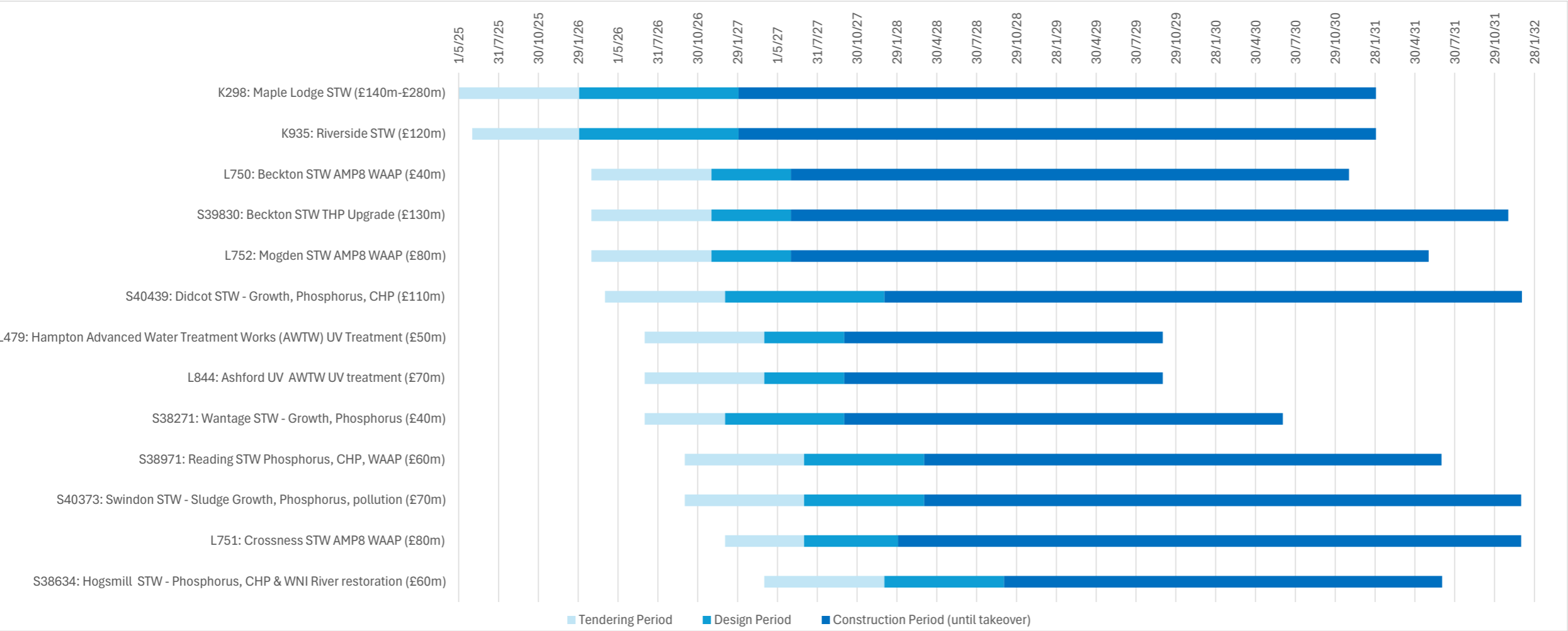


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Indicative Capital Delivery Major Projects Pipeline

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## K298: Maple Lodge STW - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: 52%	M&E: 41%	ICA: 7%
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Process Stream	High Level Brief Description (limited design information due to early stage of project)
Storm Water Treatment Storm Tanks	Reinforced concrete tanks to store 45,630 m <sup>3</sup> , approximate size 102m x 85m, consisting of 5 No tanks 6 m deep with 0.6m walls around and between, plus associated storm pumping etc. Storm return rising main: 500m of DN1000 below ground pipework Outfall Pipework: 350m DN2500, above ground fusion bonded epoxy coated steel with couplings and tie bar arrangement. Installed on cradles on Reinforced concrete base 2.5m wide by x 0.6m deep. Additional 1300M of below/above ground pipework (200/450mm) Sheet piles 10m long (deep), 400 linear metre, both sides of trench. 600 diameter CFA piles 22m deep approx. 750 number, Secant piles approx. 18m deep, 600 diameter. 380m around perimeter, 150 overlap. Approx 845 piles
Preliminary Treatment Inlet Screens	Extension to inlet screens and screening handling plant - Reinforced concrete screen channel 7m long and 2.44m wide, 2.44 deep, 1no. Additional Skip Compactor unit Extension to grit removal plant - 1no. Grit scraper assembly, 1no. Grit classifier Reinforced Concrete Detritor built at high level, elevation approx. 6m to coping. Detritor 38ft, 11.6m diameter. Reinforced concrete grit bay approx. 6m square with 2.5 m high walls on 3 sides. Base 300 thick, walls 250 thick Demolish redundant steel framed building with cladding walls. Building approx. 100m <sup>2</sup> area Extend site works return pipes 200m of 200mm Demolish existing redundant grit channel structure to make space for new SBTs
Primary Treatment	Existing Primary Settlement Tanks (7no.): replacement scrapers and sludge pumps Rectangular Primary Settlement Tanks (80m x 16m x 3m deep) Tanks 1 - 6: Replace 3no. Double bridges with 6no. single bridges, Tank 7: Replace 1no. Single bridge with new. Replace 7no. PC type desludge pumps and associated valves ( 1no. per tank) Existing Storm Tanks (3no.): Convert to PSTs. New scrapers and sludge pumps, Tanks (80m x 16m x 3m deep), Tanks 8 - 10: (Converted storm tanks) Install 3no. single bridges. 1 No PST MCC kiosk complete with associated building services approx. size 18m (L) x 4m (D) x 3m (H) with double access doors temporary pipe bridge over site road. 6m high 6m span, Replace existing biogas pipeline 300m on new alignment. Stainless Steel 200 ID, 2.1m above ground.
Secondary Treatment	30 No. DN 250 actuators for RAS Bellmouths Reinforced concrete pumping station with 2 wet wells, each 6m x 4m x 4m deep. dividing wall 6m x 4m x 500mm thick, Rising main: 150m above ground, DN1200, fusion bonded epoxy steel 600m below ground pipework. DN1200 FBE with mechanical couplings. ASP Bank A and B HV Blower replacement, Duty 18,000 m <sup>3</sup> /hr, Rating 285 kW Total 6no. aeration lanes (concrete) arranged in 2no. blocks. Each block with 3 no. 3 pass aeration lanes. Footprint per block: 80m x 38m. Each lane 3 passes, 8m wide, each pass 30m long. Water depth 7.5 8 No. New FSTs Process diameter 28m dia. Total Diameter 31.5m. Depth of each tank 5m, below ground 2m, piling required. Demolish existing TI plant sand filters to make space for FSTs 36 - 3 -Total length 42m, total width 69m. Generally 2.5m deep. ASP Bank C - Reinforced concrete pumping station. 10m by 6m and 5m deep
Tertiary Treatment	Tertiary Treatment Feed Pumping Station (ASP Bank A and B ) - Reinforced concrete wet well pumping station. 15m by 8m x 5m deep, 6 no Rating = 110 kW pumps. Tertiary Treatment Plant - Cloth Filter - Total 27 no. filters - Design FFT = 3,733U/s (322,531 m <sup>3</sup> /day), Reinforced concrete tank with a cell for each filter - lock A&B streams: Approx footprint 46m x 19m, Block C: Approx footprint 24m x 19m Dirty Backwash return PS - Buffer Tank 90m <sup>3</sup> and 40m <sup>3</sup> 600m of below ground pipework DN350. Total 90 Piles 12m Long, Total length 1,080m 450mm diameter.
Outfall	3no. Vertical multistage Booster Pumps (skid mounted) (D/A/S) - 11kw, monitors and Kiosk
Sludge	1 No new PFT installed in place of existing VFA tank. 12m diameter GFS tank, 5m high with picket fence components. Connected to existing SAS feed tanks 2no. GCS tanks, 15.1m dia x 5.1 m side wall with associated pumps, controls etc. Allow for approximately 80m of DN150 pipework between the SBTs and existing 1no. GCS tanks, 16m dia x 12.4 m side wall, above ground c/w metal working/stairs etc New digested sludge dewatering process based on Bucher press. Install 4no. digested sludge dewatering Bucher Press Units complete with associated access metalwork and local sludge buffer tanks, Design average digested sludge load: 54.129 tDS/d (Total for site) Package odour control plant Biofilter 1 No. @ 2.5m Dia and 5.5m height
Chemicals Dosing	Primary - Existing Chemical Dosing plant to be extended. 2 No existing tanks to be retained, 1 No additional 75m <sup>3</sup> tank to be provided. 3 No total. Secondary - Provision of 1no. Package chemical dosing plant 2no. Bulk chemical storage tanks 65m <sup>3</sup> per tank.
General Site Wide	UKPN Power Upgrade - Existing Power as % of new is 3162/11MVA = 29% Demolish redundant single storey brick building with flat roof. 169m <sup>2</sup> , 4.2m high, single storey 100m <sup>2</sup> building and 720m <sup>2</sup> Building 2 storey, framed building. Various Roads 4250m <sup>2</sup> , fencing 500m. Site SCADA - All required modifications and additions to the existing SCADA mimics to include the new process plant and interfaces. Provide new mimics for additional process plant including alarms pages etc. Site Wide Energy & Services - 1No new 2.5MVA Standby Generator with associated fuel storage and fuel transfer facilities, 18 x 11kV RMU's, associated cabling, cable trays, ducting etc. New Transformers (Substations): 18 x 2000KVA Decommissioning of existing switchboard, sub-stations and associated cabling up to 15 units 44,000m <sup>2</sup> of bio-diversity - Landscaping etc.
Constraints	Overview
Site Constraints	Planning Permission expected to be required, Risk that land purchase maybe required. High probability of uncharted services need diversion Ground investigation on going, potential that more structures will need piling.. Further development/refinement of the project is required to fully understand the site constraints



### K935: Riverside STW - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: 58%   M&E: 36%   ICA: 6%   **Based on option 2 - two options are being considered and scope may change
Process Stream	High Level Brief Description (limited design information due to early stage of project)
Stream E - PST	3 No PST Scrapers - rectangular type - Needs odour control covers 3 x (42 x 13m), outlet depth - 3m, inlet depth - 5m - Submerge scraper to allow for odour covers
Stream E - FST	3 No FST, Internal dia 33.5m, Inlet depth 5m, Outlet Depth (side wall depth) 3.5m Pipes from FSTs to outfall - 3 pipes - 1000mm. FST 1 - 200m. FST 2 - 25m. FST3 - 25m. Sludge chamber - 5 x 5m. Assumed 5 chambers for pipes - 5 x 2.7m dia 3 No 33.5m dia full bridge scrapers with sludge evacuation system.
Stream E - ASP	2 ASP Lanes - total length of the lane - 205m, 3 passes, 6m deep, lane dimension, L = 69m, W = 15.5m Distribution Chamber - 1.7m width. Pipes from distribution chambers to FSTs - 3 pipes 1000mm FST1 - 81m. FST 2 - 35m. FST3 - 120m. Assumed 1 chambers for pipes = 1 x 2.7m dia Total ASP Volume 12,360M3. 2 streams @1,500M3 air / hour. E)D/A/S 25KW each bower. F) D/A/S 25KW each blower
New Storm Outlet Pipe to Tidal PS	Twin 1600mm from new storm tank to Tidal PS (no valves or penstock required but majority of pipework is beneath road), parallel to each other Total length to lay for two pipes - 854m, 2.2 - 2.8m depth
Stream E RAS Gravity Main	264 Length Pipework dia: 81 RAS from FSTs Assume 4 chamber for pipe = 4 x 2.1m dia
Power Distribution on Site (Energy and Services)	Power Distribution on Site (Energy and Services) - **Early design phase so detailed design not known at this stage of pricing.
Site SCADA	** Early design phase so detailed design not known at this stage of pricing.
New Storm Tank	2 tanks - 40 x 30m, 57 x 20m Approx Depth - 5M New storm tank lift pumps - D/A/S 40KW each
New Inlet Works - Screen Handling	Process Stream E Inlet Screens 1,000/s total 2 No screens each 1.5m deep Process Stream E grit removal 2no screens each 1.5 deep Reinforced Concrete Detritor built at high level
New Inlet PS Option 2 only	E) Inlet Pumps (submersible) = Duty/Assist/Standby, 85KW F) Inlet Pumps (submersible) = Duty/Assist/Standby, 85KW Shaft diameter = 9m (shared PS), depth 7.12m + 2m base Rising main sizes = 800mm x 2.270m
Trade works Demolition	Demolition of existing primary sedimentation tanks on the east of the site Demolition area - 2,200 sqm
Stream F - PST - Option 2 only	Stream F on west side of the works with new complete process train 48 x 13m outlet depth - 3m, Inlet depth - 5m
Stream F FST - only option 2	Stream F on west side of the works with new complete process train. FST1/2/3 - 515m x 1000mm Sludge Chamber - 5 x 5m Assumed 8 manhole chamber - 2.1m dia Assumed 1.5m deep
Stream F ASP - Option 2 only	104,808 PE stream F on west side of the works with new complete process train. assumed majority of pipework is beneath road Distribution chamber - 1.7m width Pipes from distribution chamber to FST1/2/3s - 220m at 1,000mm Assumed 5 manhole chamber = 2.1m dia
Stream F RAS Gravity Main - Option 2 only	255 M(LENGTH) Pipework, 800mm
Odour Control (PST)	2200M2(AREA)
Trade PS - Option 2 only	174KW - Trade Pumps (submersibles) = Duty / Assist / Assist / Standby, 58kW each. Shaft diameter = 5m Rising main size = 600mm
Earthworks	65000M3 - Screens, PS, PST, ASP, FST, Storm etc Excavation for new stream E & F Include excavation for new process stream excluding the FST rebuild. Approx. volume Onsite storage - for relocated flood bund and associated works (assumed new relocated flood defence will be either concrete or sheet pile defence ) Non contaminated earthwork used for associated works for relocated flood bund
General Site Wide	Piling 17500 M - Piles for new assets. 25m long approx. various streams New road - 5m wide, approx. length =1,000m Footpath - 720M2(AREA) - 1.5 wide, approx. length 500m Kiosk & Housing 1no. x 100GFAM2 - reinforced concrete base slab approx. 0.5m thick, 20.5 x 4.5 with 1.5m deep and 1.5m wide trench along length of slab internal to kiosk Kiosk & Housing 3no. x 60GFAM2 - reinforced concrete base slab approx. 0.3m thick, 13 x 4.5 with 1.5m deep and 1.5m wide trench along length of slab internal to kiosk Demolish workshops and amenities building for Stream E - 2000 GFAM2 , 30 no buildings to be demolished 5 mature trees. Removal of any redundant LCPs, cabling and associated cable management systems. Removal of any redundant LCPs, cabling and associated cable management systems Demolish disused inspectorate building office for new inlet works (Containing asbestos) 400 GFAM2 - Demolish - area to be demolished = 400sqm - remove redundant building infrastructure Landscaping - 22000 GFAM2 Buildings 1000GFAM2 1 storey building - approx. area = 2,000/2 demolished building = 1000sqm Fencing - 240 M(LENGTH) - relocate security fencing to accommodate stream E FSTs New Power Supply to site boundary - 1500KVA -existing maximum supply capacity to be increased by a minimum of 1 MVA. This may include new DNO infrastructure
Constraints	Overview
Site Constraints	Not building on the wetland, however there is potential water voles and GCN that may travel to other areas of the site New plant to be piled and it is unknown if dewatering will be required. Dewatering likely required due to constructed near to the river New process stream PST, ASP, FST and RAS may require extension of fibre ring on site. High probability of uncharted services need diversion Significant Tankering and/or temporary works Further development/refinement of the project is required to fully understand the site constraints



L750: Beckton STW AMP8 WAAP - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: <input type="text"/> M&E: <input type="text"/> ICA: <input type="text"/>
Process Stream	High Level Brief Description (limited design information due to early stage of project) <div>** INSUFFICIENT DETAILS AT THIS STAGE **</div> <div>DUE TO LACK OF DESIGN DEFINITION DETAILS</div>
Constraints	Overview
Site Constraints	



## S39830: Beckton STW THP Upgrade - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: 45%   M&E: 45%   ICA: 10%
Process Stream	High Level Brief Description (limited design information due to early stage of project)
Sludge Screening	8 additional screens to the 4 existing - 12 in total. Each screen will be 656 m3/d THP feed sludge screening - All THP Feed (SAS only) will be screened before dewatered and ready to feed the THP process. 4 existing screens and capacity will increase by additional 2 new screens.
Advanced sludge treatment	7 all SAS and primary is treated by the THP plant. Design average is 300 and peak is 390 - spread equally between the 4 THP Streams 1 THP Unit for 2 x streams each stream with 3 x MK1 reactors Existing unit will be upgraded to match new unit i.e. each stream will go from 3 MK1's to 5MK1's.
Feed/Transfer PS - Plinth Construction	7 x 25KW D/S Sludge Feed Pumps Sludge feed pumps you be provided for additional 7 primary digesters and 3 sequential primary digesters
Secondary Treatment - Primary Digestion	8 primary digesters already in operation. Additional 10 - 8 DISUSED primary digestors and 2 PFT's Sludge Digestion - This required 7 more primary digesters to be operated in parallel with operating (existing) 6 digesters. 3 more digesters will be operated sequentially downstream of the 13 primary digesters to achieve pathogen kill. This makes a total of 16 digesters to be required (existing 6 plus 10).
Treated Sludge Storage and Disposal	Dewatered digested sludge cake storage Current cake barn stands at 2000 m2 for an average design throughput of 100 tDS/d. additional barn area would be 3400m2
Containerised Gas Engine	There are 3 no existing CHPs. These are each 2MW (2,000 KW) units. We will require an additional 4 no additional CHPs taking the total number of 7no CHPs
Energy & Services	Decommissioning/make safe existing SPG
Liquor Treatment: Ammonia	Dedicated LTP for expanded THP plant. The Ammonia PE is approx. 0.73million.
General Site Wide	New THP stream will require a building for 50% of the total centrifuge capacity i.e. 6 no centrifuges. Pre-THP Sludge dewatering - extend existing pre-THP dewatering enclosure to accommodate new centrifuges.
Constraints	Overview
Site Constraints	** Early design phase so constraints not known at this stage of pricing.



L752: Mogden STW AMP8 WAAP - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: M&E: ICA:
Process Stream	High Level Brief Description (limited design information due to early stage of project) <div>** INSUFFICIENT DETAILS AT THIS STAGE ** DUE TO LACK OF DESIGN DEFINITION DETAILS WILL FOLLOW ONCE KNOWN</div>
Constraints Site Constraints	Overview



#### S40439: Didcot STW Growth, Phosphorus, CHP - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: 50%   M&E: 44%   ICA: 6%
Process Stream	High Level Brief Description (limited design information due to early stage of project)
RAS Pumping Station	New RAS Pumping Station - 45kW
1 Dosing Point	Dosing Point to replace dosing point removed.
SAS Thickening Plant	Upgrade SAS Thickening Plant 75000PE
Wash water Pumping Station	Replace existing wash water pumping station. 45 KW
TT Feed Pumping Station	Upgrade TT Plant pumping station 45 KW
TT Plant	New Tertiary Treatment Plant 39,485 FFT m3/d c/w 50kw in pumping station
Liquor Return Pumping Station	New liquor return pumping station 75000 PE
Inlet Pumping Station	New inlet pumping station 185 KW
Grit Removal Plant Inlet Screens	New grit removal plant - small drive for grit removal + drive for grit classifier 2.2KW 75000pe new screens
Storm	New Storm Tank including new inlet and outlet pipework arrangements. Storm Tank mixing system 3KW New Storm Volume = 1573 m3
Energy and Services	Upgrade energy services on site, incl new standby generator, MCC, and controls New MCC complete with starters and appropriate control as minimum
AMP7 Scope	Deferred AMP7 Scope :- Aeration lane upgrade, PST, FST's increasing, SAS pumping station, TT feed, inlet PS, new SCADA ring and upgrade of electrical works.
Primary Sedimentation	1 No PST 25.5m dia with half scraper 1.1KW and PST desludging pump 2.2KW
Pumping Station - Chamber Construction	110 KW - Upgrade existing RAS Pumps from total capacity of 240 U/s to 300 U/s. 3 No D/A/S pumps 150 U/s capacity each @10mWG - Civil structure to remain the same
Pumping Station - Chamber Construction	15KW new TT PS for additional flow 76U/s @15mWG
Tertiary Treatment Plant	New Tertiary Treatment plant for additional flow 76 U/s @15mWG
Return Liquor Pumping Station	Add a new pump in existing return liquor pumping station 7.5KW
Site SCADA	Upgrade site for new ICA infrastructure
Chemical Dosing	Dosing units and dosing pipework
Containerised Gas Engine	Decommissioning of containerised gas engine and new one to be fitted
Secondary Sedimentation	2 No new 21.5m dia FST similar to existing half bridge scraper 1.1KW drive for each tank
Secondary Treatment - Activated Sludge Plant	2400M3 ASP Lane 2 No 1.1KW anoxic Mixer
Pipework	DN400, 400 Length
Primary Digestion Containment	Construct Bund Wall - surrounding sludge treatment area as secondary containment 752m length, 460mm high, 300mm foundations Procure and install Perspex wall - southern boundary wall. 157m length, 3.5m height. Perspex panels with structural steel frame Excavate and remove - gravel and grass areas approx 2086M2, 300mm Excavate and remove - 2 raised grass areas, approx 1273M2, 1100mm deep
Liquor Pumping station	New return liquor pumping station - 15kw
General Site Wide	Landscaping - 7100 M2(AREA) Road access to new assets 500 M2(AREA) Site Clearance 1000 M2(AREA) Kiosk 32GFAM2 New Power Supply to Site Boundary - Upgrade existing 800KVA to 1085KVA
Constraints	Overview
Site Constraints	*** Early design phase so constraints not known at this stage of pricing.



## L479: Hampton Advanced Water Treatment Works (AWTW) UV Treatment - Indicative Project Scope - Jun 25

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<b>Asset Cost Split</b>	<b>Civils:</b> 65% <b>M&amp;E:</b> 30% <b>ICA:</b> 5%
<b>Process Stream</b>	<b>High Level Brief Description (limited design information due to early stage of project)</b>
UV Disinfection	2no. bank of 4 UV contactors Each UV contactor will have a capacity of 100 MU/d.
Valves & Fittings : Treatment Works Assets	Double isolation valves upstream and downstream of each UV contactor, so 4No. Valves per contactor. It is proposed to have 8No. UV contactors, each on a DN1000 pipe, hence 32No. DN1000 valves. Double isolation valves in between the tee-offs from the existing east/west mains to the contact tank. DN2100. 2No. valves east main and 2No. valves west main, so this gives 4No. valves in total.
Pipework : Below Ground	80m DN2100 stainless steel pipe. 70m DN2100 stainless steel pipe. 60m DN2100 stainless steel pipe. 70m DN2100 stainless steel pipe.
Pipework : Above Ground	8 x 26m DN1000 main for individual UV contactor in a bank, ductile iron
Energy and Services	Standby Power supply for UV contactors only say a 25% increase in standby capacity
General Site Wide	Process Building - to be built in the existing mess room
<b>Constraints</b>	<b>Overview</b>
Site Constraints	Site access to Connection to Low Lift PS needed. Works in restricted space Unknown at this stage how control and instrumentation will be arranged. Further development/refinement of the project is required to fully understand the site constraints



**L844: Ashford UV AWTW UV treatment - Indicative Project Scope - Jun 25**

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Asset Cost Split	Civils:	50%	M&E:	45%
	ICA:	5%		
Process Stream	High Level Brief Description (limited design information due to early stage of project)			
UV Disinfection	Single UV contactor on the outlet of each SSF (32 No.). Each UV contactor will have a capacity of 24 Ml/d.			
Chambers	Dry well to house UV contactor and isolation valves immediately upstream and downstream of the UV contactor. 32 No. Dry well, 10m x 4m x 3m = 120 m3 cw removable covers			
Pipework	32 x 10m DN450 ductile iron pipe below ground.			
Flowmeters	32 x 1000m3/hr			
Meters	UVT (UV transmittance) meter to measure UVT of the stream entering each UV contactor (32No.). 1000 m3/h			
Valves & Fittings : Treatment Works Assets	Double isolation valves upstream/downstream of each UV contactor, a valve on run-to-waste and a valve on drain-down to tanker, so 60No. Valves per contactor. There are 12 No. 18" outlets from the SSF's, convert to DN450, so (32) x 6 = 192 No DN450 valves.			
Energy and Services	Standby Power supply for UV contactors only say a 25% increase in standby capacity			
Mains DNO LV Power Supply	Power supply for UV contactors Power KW625 KW upgrade to DNO power supply. Additional LV cabling for UV contactors 1500m			
General Site Wide	Replace existing valve control and monitoring kiosks 32 x kiosks (Replace existing valve control and monitoring kiosks).			
Constraints	Overview			
Site Constraints	Site access to Connection to Low Lift PS needed. Works in restricted space Unknown at this stage how control and instrumentation will be arranged. Further development/refinement of the project is required to fully understand the site constraints			



## S38271: Wantage STW - Growth, Phosphorus - Indicative Project Scope - Jun 25

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<b>Asset Cost Split</b>	<b>Civils:</b> 53% <b> M&amp;E:</b> 37% <b> ICA:</b> 10%
<b>Process Stream</b>	<b>High Level Brief Description (limited design information due to early stage of project)</b>
Primary Sedimentation	PST - 1 No. 18.29 dia. PST, 1 No. 1/2 bridge scraper 1.5kw, 1 Mo. D/S Desludging Pump 3.3m3/h@2bar 5kw
Activated Sludge Plant	3No. Blowers D/A/S of capacity total 3400m3/h @900mBar 75kW 3No. Anoxic mixers 2.2kW each 3No. Lanes 6m D x 6m W x 41m L (working volume)
Secondary Sedimentation	FST - 4No. FSTs 22m dia. 4No. Scraper drive 1.5KW each, associated pipework, valves and fittings.
Pumping Station - Chamber Construction	2No. VSD RAS pumps D/S 1070m3/h @10mWG 55kW 2 No SAS Pumps D/S 14m3/h@10mWG 1.5KW
Feed/Transfer Pumping Station	SAS Thickener Feed Pumping Station - 2 No SAS thickener feed pumps 14m3/h@10mWG(2KW)
SAS Thickening Plant	1No. SAS buffer tank 21m3 1No. Poly dosing unit 1kW 2No. GBT 1m belt width (each with 2 x 2.2 kW drives) 2No. Thickened SAS pumps 1.5 kW 0.44m3/h @2bar c/w air mixing
Blending Tank	1 No GCS tank 8m dia 7m high, cover 50m3 and odour control 1 No mixer 3KW
Blending Tank Cover	50 M2 Cover for 1 no GCS tank 8m dia 7m high, cover 50m3 blending tank
Odour Control	2 No D/S fans 400m3/h 1.5KW
Return Liquor PS	2 No D/S Pumps 4/s @15mWG 1.5KW New rising main to inlet works
SCADA	Replace existing telemetry outstation and modifications to existing site SCADA. Fibre optic ring to the 3 PLCs, 700m of fibre optic cable needs to be installed to link the new SCADA server to the existing system. Modifications to existing site SCADA to include additional signals and mimics associated with the following: New PST New Inlet Grit Removal New ASP Pump Station New ASP New RAS/SAS Pup Station New SAS Thickening plant New Blending Tank New Odour Control New Liquor return pump station Replacement telemetry outstation including additional critical alarms for the new processes
MCC Kiosk	New incoming Main MCC Kiosk 7m Length x 3m deep x 3m high kiosk
Ferric Dosing	Dosing Pipework - 160m upstream pipework for new PST from ferric dosing
Grit Removal Plant	140000 PE 1 no Detritor 6.6m dia 1.1KW 1 no grit classifier 0.75KW
Energy and Services	1 New Mains Incoming Switchboard for existing and new site power distribution Switchboard to include as a minimum the following: Mains Incomer (800A ACB), Generator Incomer (800A ACB), Feed to existing Main MCC (400A), Inlet grit removal LCP Feeder (16A), PST LCP Feeder (32A), ASP Pump Station LCP Feeder (100A), ASP LCP Feeder (315A), RAS/SAS Pump Station LCP Feeder (32A), SAS Thickening LCP Feeder (16A), Blending Tank LCP Feeder (16A), Odour Control LCP Feeder (16A), Return Liquor LCP Feeder (16A). All associated cabling from the new power supply to the new MCC assume 50m Length
General Site Wide	Upgrade existing 231KVA power supply to 680KVA Landscaping - Combined new area of land having work - 2700m2 Road - 2m wide, 250m length
<b>Constraints</b>	<b>Overview</b>
Site Constraints	** Early design phase so constraints not known at this stage of pricing.



**S38971: Reading STW Phosphorus, CHP, WAAP - Indicative Project Scope - Jun 25**

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Asset Cost Split	Civils: <input type="text"/>	M&E: <input type="text"/>	ICA: <input type="text"/>
Process Stream	High Level Brief Description (limited design information due to early stage of project)		
	<div>** INSUFFICIENT DETAILS AT THIS STAGE **</div> <div>DUE TO LACK OF DESIGN DEFINITION DETAILS</div> <div>WILL FOLLOW ONCE KNOWN</div>		
Constraints	Overview		
Site Constraints			



## S40373: Swindon STW - Sludge Growth, Phosphorus, pollution - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils:	50%	M&E:	45%	ICA:	5%
<b>Process Stream</b>	<b>High Level Brief Description (limited design information due to early stage of project)</b>					
Concrete Bunded Storage Area	Construct - 350m of concrete bund surrounding digesters and other assets as secondary containment. Average height 840mm, includes 300mm foundations					
Bulk Earthworks	Excavate - Gravel and grass areas approx. 8030m <sup>2</sup> , 300mm deep excavation. 2408m <sup>3</sup> . Remove from site - Gravel and grass areas approx. 8030m <sup>2</sup> , 300mm deep excavation. 2408m <sup>3</sup> Excavate - Gravel and grass areas approx. 1500m <sup>2</sup> , avg. 1200mm deep excavation. 1800m <sup>3</sup> . Remove from site - Gravel and grass areas approx. 1500m <sup>2</sup> , 1200mm deep excavation. 1800m <sup>3</sup>					
Concrete Base	Construct concrete lining - Gravel and grass areas, approx. 8030m <sup>2</sup> , 300mm. 2408m <sup>3</sup> Reinforced Concrete Slab foundation for lagoon base - 300mm thick, 1500m <sup>2</sup>					
Concrete Structure	Construction of Lagoon, including 160m of reinforced concrete walls - 2200mm high, 300mm thickness vertical walls					
Drainage Treatment Works site	Installation of 750mm pipe, cover depth between 1.2m and 2.4m, 200m length including 5no. 1800mm diameter manhole/ sump chambers with grating covers (600x600)					
Pump (waste submersible)	Pump within lagoon tank to manage ongoing rainwater. 10 L/s pump at ~10m head. 5kW pump station.					
Tanks : In - Situ Concrete	Inspect and repair aging sludge tanks. 3no. 23m Diameter 4.1m high and 3no. 12mdiameter 14.80m high					
Activated Sludge Plant	Additional ASP volume to provide Bio-P solution New tank volume 43,977 m <sup>3</sup>					
Tertiary Treatment	New tertiary treatment plant, c/w common pumping stations pre/post					
Chemical Dosing	Single point chemical dosing system, dosing lines etc.					
Imported Sludge Screen Feed PS	3 No. pumps (1 per screen), d/d/s, each 15kw 48m <sup>3</sup> /hr, variable speed, plinth to accommodate 3 No. pumps. Estimate each, 3000 x 600 x 250 thk 3 No. pipes, 1No. pipe dedicated to each screen, each pipe 20m long x 150 dia, above ground, DI (100 dia preferred to achieve scour velocity. This would require a waiver). Controlled on pressure at screens. Requires VSD starters housed in new Central MCC located in a new kiosk. ICA Section in new MCC houses PLC and links to fibre-network. HMI (or SCADA client) proposed for the new Central MCC. Local instrumentation on pump skid.					
Imported Sludge Screens	RC base for screen platform approx. 10700 x 5860 in plan, 250 thk with 250 wide band wall to perimeter to provide level support for platform. Slab to include 2 no skip rails, thickening for platform columns. RC base for screened imported sludge collection tank. Tank 4269mm dia, assume 450 to edges of concrete, so RC base 5169 dia. Estimate base slab thickness 350mm. Imported sludge screens (liquid sludge pressurised screen type) 3 kW. 3 No. duty/duty/ standby, each 40m <sup>3</sup> /hr up to 6% DS + platform to accommodate all 3 No. imported sludge screens + control. Process tank, screened imported sludge collection tank, 80 m <sup>3</sup> min. GFS tank 4269 dia x 6918 height c/w stair access to instrumentation at roof level. Roof required. Pipe odour ductwork OCU. Approx. 5m. dia tbc 3 No. pipes (1 from each imported sludge screen) to the screened imported sludge collection tank, estimate DN200 stainless steel, approx. 30m total. 1 No. suction pipe from screened imported sludge collection tank to existing imported sludge transfer pumps located inside primary sludge thickening building. Assume all above ground. DN200, 30m ductile iron.					
Thickened Primary Sludge Transfer Pumps	2 No. pumps d/s, each 7.5kw 17m <sup>3</sup> /hr on existing plinths. Variable speed. Some modification may be required depending on the pump size 2 No. DN100 DI above ground pipes each approx. 80m. Route tbc SCADA mods on new PLC and the existing Drum Thickener LCP may be required.					
Sludge Blending Tank	RC base for sludge blending tank. Tank dia 11100mm. Estimate base plan area + 450 to edge of concrete to accommodate fixing detail = 12000. Slab thickness 350mm Process tank, sludge blending tank, 459 m <sup>3</sup> . GFS tank, including roof and access 1 No. assume pump mixing, details tbc. min 15kw/3. Sized at 7.5 kW, D/D Pipe Odour Ductwork, from sludge blending tank to adjacent existing OCU. Approx. 10m. dia tbc.					
Acid Phase Digester (APD) Feed Pumps	2 No. pumps, d/s 30kW VSD, 2 No. RC plinths each 3000 x 600 x 250 thk process pipe, assume 1 No. common pipe DN150 ductile iron, 10m long, from pumps to connect into existing pipe					
MAD's	2 No. MADs c/w roof, stair access tower, limpet chambers, mixers, pressure relief valves and inlet/outlet pipework.					
Primary Digested Transfer Pumps	2 No. pumps, 1 duty/ 1 standby 7.5kW (VSD) - Including pipework to connect into existing pipe, RC pump plinths, 1 No. per pump, each 2800 x 600 x 250 thk Above ground pipe from digested sludge transfer pumps to connect into existing pipeline Est. approx. 25m total x 150 dia SS. All exposed pipe to be insulated ICA Section in new MCC houses PLC and links to fibre-network. HMI (or SCADA client) proposed for the new Central MCC. Local instrumentation on pump skid.					
Primary Digesters	Remove and dispose of rag, grit and any remaining sludge residue from the all existing primary digesters once MADs are in operation 1712m <sup>3</sup> Demolition and removal from site primary digester No. 1 and No.3 and associated redundant plant and equipment (base slabs excepted) Demolition of cladding and steel supports to GL including roof and ring support. Off site disposal INERT WASTE ONLY. Local reinstatement and making good. Strip out all redundant plant and process equipment 1,673m <sup>3</sup> No 2 Primary Digester tank. If tank cannot be refurbished then new tank required.					
Secondary Digesters	Existing secondary digesters - empty and clean all 3 no Drain tanks, remove grit and existing mixer: 3 No. existing open topped Permastore GFS tanks. Tanks are 23880 dia x 5470 tall. Working volume 1686m <sup>3</sup> . Secondary Digested Sludge Transfer Pumps: 4 No. pumps 7.5kW VSD (2 duty/ 2 standby) c/w a dedicated pipe, RC plinths 2800 x 600 x 250 thk Above ground pipe from each pair of pumps to feed into secondary Digester No. 1. Estimate 100 m x 150 dia SS. Insulated					
Final Dewatering Pumps	3 No. pumps 4kw VSD (d/d/s) c/w plinths and pipework, to pump, 3 No. RC pump plinths, 1 No. per pump, each 2800 x 600 x 250 thk route crosses road, will require pipe bridge and associated high level pipe supports along full route. Est 30m total length 3 No. above ground pipes, 1 dedicated pipe between each final dewatering feed pump and associated final dewatering belt. Each pipe approx. 30m, 150 dia DI					
Final dewatering belt presses	1 No RC base to accommodate all 3 No. presses complete with access platforms. 3 No. Belt presses P520, exact footprint 25000 x 4701, base slab 27400 x 7100 in plan. 1 No. RC base to accommodate polymer system, estimate approx. 21000 x 6000 in plan 3 No. 2m wide belt presses (d/d/s), each 16m <sup>3</sup> /hr c/w platform access. PIPE-ODOUR DUCTWORK, from each of the 3 No. final dewatering belt presses to adjacent OCU. Approx. 25m duct in total. D 3 No. conveyors (d/d/s), 1 No. from each belt press. Due to height of installation, length of each conveyor approx. 25 m Poly dosing system to be designed to deliver a poly dose of up to 14 kg/DS (suitable for THP-digested sludge in future) Requires approx. 10 A feeder to package plant LCPs containing belt presses.					
ODC Sludge Final Dewatering	ODC for the final dewatering area, 450m <sup>3</sup> /hr per belt. 3 belts running that would be 1,350m <sup>3</sup> /hr for the belts plus 190m <sup>3</sup> /hr for the return liquors p/stn wet. Total of 1540m <sup>3</sup> /hr RC base to accommodate OCU, assume 5000 x 5000 plan area					
Sludge Storage	Plan area of existing concrete pad is 43130 x 41765 = 1800m <sup>2</sup> . Propose a Dutch barn type construction as per asset standard requirements: Dutch barn type construction with only a roof structure - with open sides and no ventilation but fly mesh around the perimeter walls Full enclosure with profiled shearing walls, internal concrete thrust walls, roller door vehicle access and odour control/ventilation. Open pad storage and silo storage are not generally acceptable in new build applications at sludge treatment centres East side push wall - assume 40m length, West side push wall - assume 40m length, Bay walls x 3 assumed 30m length, Quarantine Bay - confirm driver (360m <sup>2</sup> )					
Energy & Services	Upgraded power supply and power supply capacity from 1800KVA to 3260KVA plus integration of site power, cabling for all new assets etc					
Liquor Return Pipework	Gravity feed pipework below ground - 75M length					
Import Sludge Holding Tank	glass coated steel Permastore tank with segmental roof - assume replacement of top ring section (tank is 3 sections high, approx. 10m diameter)					
SCADA	Link all new assets to existing SCADA system					
General	Site clearance - To get the site level in the area of the MADs BEFORE any excavation for structures. To facilitate construction of final dewatering belts/poly system/return liquors ps, the existing GL will be made to existing road level. A retaining wall will be required to hold back the ground this will double as the east pus wall for the cake pad 2 No. MADs require piling 1 No. Digested sludge collection tank requires piling The configuration of the existing cake pad (which is used for extra storage) does not have a through road. New assets require handstanding/Paving with drainage where necessary. 1 No MCC Kiosk to accommodate new MCC's					
<b>Constraints</b>	<b>Overview</b>					
Site Constraints	New access road may not be possible, so temporary hire centrifuge hire whilst the existing final dewatering building is demolished and a new one constructed in the same location. Unknown at this stage how control and instrumentation will be arranged. Further development/refinement of the project is required to fully understand the site constraints					



L751: Crossness STW AMP8 WAAP - Indicative Project Scope - Jun 25

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Asset Cost Split	Civils: <input type="text"/>	M&E: <input type="text"/>	ICA: <input type="text"/>
Process Stream	High Level Brief Description (limited design information due to early stage of project)		
	<div>** INSUFFICIENT DETAILS AT THIS STAGE **</div> <div>DUE TO LACK OF DESIGN DEFINITION DETAILS</div> <div>WILL FOLLOW ONCE KNOWN</div>		
Constraints	Overview		
Site Constraints			



**S38634: Hogsmill STW - Phosphorus, CHP & WNI River restoration - Indicative Project Scope - Jun 25**

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Asset Cost Split	Civils: <input type="text"/>	M&E: <input type="text"/>	ICA: <input type="text"/>
Process Stream	High Level Brief Description (limited design information due to early stage of project)		
	<div>** INSUFFICIENT DETAILS AT THIS STAGE **</div> <div>DUE TO LACK OF DESIGN DEFINITION DETAILS</div> <div>WILL FOLLOW ONCE KNOWN</div>		
Constraints	Overview		
Site Constraints			