

WATER INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J1

Lines 1-6	Mains laying
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Crossings of all types	✓	✓
Reinstatement costs (temporary and permanent)	✓	✓
Granular fill in trench (surface type categories 'b' and 'c' only)	✓	✓
Disposal of excavated material to landfill tip 1km away	✓	✓
Excavation	✓	✓
As dug backfill (surface type categories 'a' only)	✓	✓
Pipe bedding and surround	✓	✓
Minor service diversions	✓	x
Traffic management (surface type categories 'b' and 'c' only)	✓	✓
NRSWA costs	✓	✓
Advance costs – land	✓	✓
Advance costs – wayleaves	✓	✓
Landfill tax (non contaminated material only)	✓	✓
Uncharted services \ other underground obstructions	x	x
Connections to trunk mains	x	x
Proving and testing	✓	✓
Temporary fencing (grassland only, other than required for safety regulations)	x	x
Land drains (grassland only)	x	x
Re-connection of services	x	x
Fittings and fixtures (in accordance with Table 4)	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	✓
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	✓
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J1

Lines 6a-6c	Mains laying by directional drilling	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Crossings of all types	x	x
Reinstatement costs (to match the existing surface)	✓	✓
Excavation and backfill (at entry and exit pits)	✓	✓
Disposal of excavated material to landfill tip 1km away	✓	✓
Minor service diversions	✓	x
Traffic management (at entry and exit pits)	✓	✓
NRSWA costs	✓	✓
Advance costs – land	✓	✓
Advance costs – wayleaves	✓	✓
Landfill tax (non contaminated material only)	✓	✓
Uncharted services \ other underground obstructions	x	x
Connections to trunk mains	x	x
Proving and testing	✓	✓
Temporary fencing (at entry and exit pits, other than required for safety regulations)	x	x
Re-connection of services	x	x
Fittings and fixtures (in accordance with Table 4)	✓	✓
Overpumping	x	x
Maintaining flows	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	✓
Commissioning	✓	✓
Tender\outturn margin	✓	✓
Contingencies or general adjustments	✓	✓
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x

Effect of limited working hours	x	x
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WATER INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J1

Lines 7-12	Mains rehabilitation
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Crossings of all types	✓	✓
Reinstatement costs (to match the existing surface)	✓	✓
Excavation and backfill	✓	✓
Disposal of excavated material to landfill tip 1km away	✓	✓
Traffic management	✓	✓
NRSWA costs	✓	✓
Advance costs – wayleaves	x	✓
Landfill tax (non contaminated material only)	✓	✓
Connections to trunk mains (temporary and permanent)	✓	x
Proving and testing	✓	✓
Re-connection of services	x	x
Fittings & fixtures (in accordance with Table 4)	✓	✓
Protective sleeve (in pipe bursting)	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	✓
Commissioning	✓	✓
Tender\outturn margin	✓	✓
Contingencies or general adjustments	✓	✓
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J1

Lines 13-14	Communication pipes		
STANDARD COST ASSUMPTIONS		Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT			
Crossings of all types		✓	✓
Reinstatement costs (renew only to match the existing surface)		✓	✓
Excavation and backfill		✓	✓
Disposal of excavated material to landfill tip 1km away		✓	✓
Traffic management (renew only)		✓	✓
NRSWA costs (renew only)		✓	✓
Landfill tax (non contaminated material only)		✓	✓
Connections to trunk mains (temporary and permanent)		x	x
Boundary box		✓	✓
Water sampling		x	x
Re-connection of services		✓	✓
Fittings and fixtures (ferrule and stop tap)		✓	✓
MANAGEMENT COSTS			
Company overheads, programme management, project management, incentive payments		✓	✓
Project design and supervision \ Project management		✓	✓
Project quality audit		✓	✓
Contractual claims		✓	✓
Compensation		x	x
Overheads on stores		✓	✓
Commissioning		✓	✓
Tender\outturn margin		✓	✓
Contingencies or general adjustments		✓	✓
Public meetings		x	x
Customer communication		x	x
Special inducements		x	x
Effect of seasonal working		x	x
Effect of limited working hours		x	x

WATER INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J1

Lines 15-16	Household meters
STANDARD COST ASSUMPTIONS	Include in Standard Cost
	Scottish Water audit
LABOUR AND PLANT	
Full cost of meter (manually read type)	✓
Survey (for internal meters – include the costs associated with abortive house visits)	✓
Installation	✓
Boundary box (unsealed type – for external meters including boundary box)	✓
Fittings	✓
Demolition \ removal of existing boundary box (for renewal of external meters including boundary box)	x
Reinstatement costs (for external meters including boundary box only – to match the existing surface)	✓
Excavation and backfill (for external meters including boundary box)	✓
Disposal of excavated material to landfill tip 1km away	✓
Landfill tax (for external meters including boundary box only – non contaminated material only)	✓
NRSWA costs (for external meters including boundary box)	✓
Digital external meter outreaders (for internal meters)	x
MANAGEMENT COSTS	
Company overheads, programme management, project management, incentive payments	✓
Project design and supervision \ Project management	✓
Project quality audit	✓
Contractual claims	✓
Compensation	x
Overheads on stores	✓
Commissioning	✓
Tender\outturn margin	✓
Contingencies or general adjustments	✓
Public meetings	x
Customer communication	✓
Special inducements	x
Effect of seasonal working	x
Effect of limited working hours	x

SEWERAGE INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J3

Lines 1-6	Sewer laying		
STANDARD COST ASSUMPTIONS		Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT			
Crossings of all types		✓	✓
Reinstatement costs (temporary and permanent)		✓	✓
Granular fill in trench (surface type categories 'b' and 'c' only)		✓	✓
Disposal of excavated material to landfill tip 1km away		✓	✓
Excavation		✓	✓
As dug backfill (surface type category 'a' only)		✓	✓
Pipe bedding and surround		✓	✓
Minor service diversions		✓	✓
Traffic management (surface type categories 'b' and 'c' only)		✓	✓
NRSWA costs		✓	✓
Advance costs – land		✓	✓
Advance costs – wayleaves		✓	✓
Landfill tax (non contaminated material only)		✓	✓
Uncharted services \ other underground obstructions		x	x
Disconnection and re-connection of laterals		x	x
Proving and testing		✓	✓
Temporary fencing (grassland only, other than required for safety regulations)		x	x
Land drains (grassland only)		x	x
Overpumping		x	x
Cleaning by jetting only		x	x
CCTV inspection after installation		✓	✓
MANAGEMENT COSTS			
Company overheads, programme management, project management, incentive payments		✓	✓
Project design and supervision \ Project management		✓	✓
Project quality audit		✓	✓
Contractual claims		✓	✓
Compensation		x	x
Overheads on stores		✓	✓
Commissioning		✓	✓
Tender\outturn margin		✓	✓
Contingencies or general adjustments		✓	✓
Public meetings		x	x
Customer communication		x	x
Special inducements		x	x

Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J3

Lines 6a-b	Sewer laying by pipe jacking or microtunnelling	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Crossings of all types	x	x
Reinstatement costs (temporary and permanent)	✓	✓
Excavation and backfill (at thrust and reception pits)	✓	✓
Disposal of excavated material to landfill tip 1km away	✓	✓
Service diversions at thrust and reception pits	x	x
Traffic management (at thrust and reception pits)	✓	✓
NRSWA costs	✓	✓
Advance costs – land	✓	✓
Advance costs – wayleaves	✓	✓
Landfill tax (non contaminated material only)	✓	✓
Uncharted services \ other underground obstructions	x	x
Proving and testing	✓	✓
Temporary fencing / hoardings (thrust and reception pits, other than required for safety regulations)	x	x
Overpumping / maintaining flows	x	x
Cleaning by jetting only	x	x
CCTV inspection after installation	✓	✓
Connection of laterals	x	x
Backdrops, vortex drops, vent poles	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	✓
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	✓
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J3

Lines 7-12	Sewer rehabilitation	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Crossings of all types	✓	x
Reinstatement costs (to match the existing surface)	✓	x
Excavation and backfill	✓	x
Disposal of excavated material to landfill tip 1km away	✓	x
Traffic management	✓	✓
NRSWA costs	✓	✓
Advance costs – wayleaves	x	x
Landfill tax (non contaminated material only)	✓	x
Proving and testing	✓	✓
Opening and remaking of lateral connections	✓	✓
Laterals and manhole spacing in accordance with specification in definitions	✓	✓
Protective sleeve (in pipe bursting)	x	x
Cleaning by jetting only	✓	✓
CCTV inspection before and after rehabilitation	✓	✓
Repair and re-rounding	x	x
Overpumping	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	✓
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	✓
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x

Effect of limited working hours	x	x
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SEWERAGE INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J3

Line 13	Construction of a self-contained pumping unit to isolate a domestic property	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
MECHANICAL EQUIPMENT		
Supply self-contained duplex pumping units with integral collecting tank, controls and non-return valve	✓	✓
Supply control panel in wall mounted weatherproof housing	✓	✓
Supply basic telemetry outstation equipment	x	✓
Power, control, instrument cabling	✓	✓
Supply and install generator socket	x	x
LABOUR AND PLANT		
Reinstatement costs (temporary and permanent)	✓	✓
Granular fill in trench (surface type categories 'b' and 'c' only)	✓	✓
Disposal of excavated material to landfill tip 1km away	✓	✓
Excavation and backfill	✓	✓
As dug backfill (surface type category 'a' only)	✓	✓
Pipe bedding and surround	✓	✓
Minor service diversions	x	x
Traffic management (surface type categories 'b' and 'c' only)	x	x
NRSWA costs	✓	✓
Advance costs – land	x	x
Advance costs – wayleaves	✓	✓
Landfill tax (non contaminated material only)	x	x
Uncharted services \ other underground obstructions	x	x
Proving and testing	✓	✓
Reconnection to the existing system	x	x
Sealing old connection to the existing system	✓	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓

Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Standard cost from PR99 Information Requirement G 060498; Table G5, Line 1

Line 1	New treatment works type SW1, output 12MI/d	
STANDARD COST ASSUMPTIONS		
PROCESS		
Insert main stages		
Flocculation		
Rapid gravity filtration	x	✓
Chlorination	x	✓
Chemical Dosing		
Sludge Storage		
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	✓
BUILDINGS		
Administration and control building	✓	✓
Building over flocculator units (if applicable)	✓	✓
Building over flotation units (if applicable)	✓	✓
Filter building including upper filter gallery	✓	✓
Chemical storage and dosing building	✓	✓
Dirty backwash water return pump building	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓

Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender\outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Standard cost from PR99 Information Requirement G 060498; Table G5, Line 2

Line 2	New treatment works type SW1, output 5Ml/d	
STANDARD COST ASSUMPTIONS		
PROCESS		
Insert main stages		
Coagulation		
Rapid gravity filtration	x	✓
Chlorination	x	✓
Chemical Dosing		
Sludge Storage		
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	✓
BUILDINGS		
Administration and control building	✓	✓
Building over flocculator units (if applicable)	✓	✓
Building over flotation units (if applicable)	✓	✓
Filter building including upper filter gallery	✓	✓
Chemical storage and dosing building	✓	✓
Dirty backwash water return pump building	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓

Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 3	New treatment works type SW2, output 30MI/d	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
Coagulation		
Clarification		
Rapid gravity filtration		
Chlorination		
Chemical Dosing		
Sludge Storage		
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance).	✓	✓
Standby generators and associated switchgear	x	✓
BUILDINGS		
Administration and control building	✓	✓
Building over flocculator units (if applicable)	✓	✓
Building over flotation units (if applicable)	✓	✓
Filter building including upper filter gallery	✓	✓
Chemical storage and dosing building	✓	✓
Dirty backwash water return pump building	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x

Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 3a	Alterations to water treatment works type SW2, output 30MI/d	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
Ultra filtration		
Chemical Dosing		
ELECTRICAL EQUIPMENT		
Motor control centres including incomer / isolator / local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder/fire alarm, entry control & surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Chemical storage and dosing building (if applicable)	✓	✓
Dirty backwash water return pump building (if applicable)	✓	✓
Building to house the process	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender\outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Not an Ofwat standard cost

Line 4	New filtration system at treatment works type SW2, output 10MI/d	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
Rapid gravity filtration		
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Filter building (pump and blower room, switchgear room) including upper filter gallery	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender\outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x

Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 5	Replacement filtration system at an existing water treatment works type SW2, output 30MI/d
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
Rapid gravity filtration		
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	x
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Filter building (pump and blower room, switchgear room) including upper filter gallery	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision \ Project management	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender\outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x

Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 5a	Fitting new plumbosolvency control to existing abstraction borehole treatment works with simple disinfection only, output 8MI/d
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
Orthophosphoric Dosing		
ELECTRICAL EQUIPMENT		
Motor control centres including incomer / isolator / local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder/fire alarm, entry control & surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Switchgear and dosing building	✓	✓
Building to store dosing chemicals	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 5b	Installation of a nitrate removal plant at a borehole treatment works with simple disinfection only, output 10MI/d
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
State the capacity of the nitrate removal system and maximum nitrate concentration		
SW do not carry out this type of work		
ELECTRICAL EQUIPMENT		
Motor control centres including incomer / isolator / local distribution	✓	
Power, control, instrument cabling	✓	
Instruments (level, flow, pressure, water quality, etc)	✓	
Control panels (including local control PLC, works PLC, works SCADA)	✓	
Telemetry outstation equipment	✓	
Building services (lighting, power, heating, ventilation, telephones, intruder/fire alarm, entry control & surveillance)	✓	
Standby generators and associated switchgear	x	
BUILDINGS		
Process building including switchgear room	✓	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender\outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	

Effect of seasonal working	x	
Effect of limited working hours	x	

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 5c	Cryptosporidium protection to an existing borehole treatment works with simple disinfection only, output 2.5MI/d
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Insert main stages		
Ultrafiltration		
Chemical Dosing		
ELECTRICAL EQUIPMENT		
Motor control centres including incomer / isolator / local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder/fire alarm, entry control & surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Process building (if required)	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Lines 6, 7 and 9	New service reservoir, capacity 1MI, 4MI and 15MI		
STANDARD COST ASSUMPTIONS		Include in Standard Cost	Scottish Water audit
CONSTRUCTION			
Insert main material of construction		✓	✓
Concrete			
LABOUR AND PLANT			
Two compartment tank		✓	✓
Roof membrane		✓	✓
Disinfection on completion		✓	✓
Water test		✓	✓
Emptying and re-filling		✓	✓
Pipework and interconnecting pipework		✓	✓
Valves		✓	✓
Access covers		✓	✓
Ladders		✓	✓
ELECTRICAL EQUIPMENT			
Flow		x	x
Level		✓	✓
Water quality		x	✓
Telemetry		✓	✓
BUILDINGS			
Valve house		x	x
Building for ICA equipment		✓	x
MANAGEMENT COSTS			
Company overheads, programme management, project management, incentive payments		✓	✓
Project design and supervision		✓	✓
Project quality audit		✓	✓
Contractual claims		✓	✓
Compensation		x	x
Overheads on stores		✓	x
Commissioning		✓	✓
Tender/outturn margin		✓	✓
Contingencies or general adjustments		✓	x
Public meetings		x	x
Customer communication		x	x
Special inducements		x	x

Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 8	Refurbishment of service reservoir, capacity 6MI	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Sample tap	x	x
Disinfection on completion	✓	✓
Remedial work	✓	✓
Cracks in roof (combifex)	✓	✓
Construction joints in floor and walls	✓	✓
Defective concrete	✓	✓
Rendering	✓	✓
Roof vents (sealed)	✓	✓
Access covers	✓	✓
New roof membrane	✓	✓
Roof drainage system	✓	✓
Internal ladders	✓	✓
Water test	x	x
Emptying and refilling	x	x
Excavated material stored on site	✓	✓
Replace excavated material and re-grassing	✓	✓
Refurbish internal corroded pipework to DWI approved finish	✓	✓
Cleaning reservoir	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 10	Replacement of variable speed pumps, output 6-9MI/d	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Remove existing pumps and motor set & shafts (2No.), supply new	✓	
Remove suction valves \ delivery valves	x	
Remove existing non return valves, supply new	✓	
Remove existing pipework, and re-use (make up pieces between pump suction and delivery and adjacent valves)	✓	
Remove existing plinth, construct new	✓	
ELECTRICAL		
Disconnect and reconnection of power cables	✓	
Removal of existing ICA panel, supply new	✓	
Removal of existing PLC (hardware and software), supply new	✓	
Removal of existing level instrumentation, supply new	✓	
Removal of existing telemetry, supply new	✓	
Cabling for control instrumentation and local telemetry (incl. traywork, ducting, clipping and testing)	✓	
Building services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustment	✓	
Public meetings	x	
Customer communication	x	

Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Line 11	Replacement of variable speed pump motors, rated 110kW	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Remove existing motors (3 No.), supply and install new	✓	
ELECTRICAL		
Disconnect and renewal of power cables	✓	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Lines 12 and 13c	New fixed speed pumpset, output 10MI/d and 30MI/d
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
MECHANICAL EQUIPMENT		
Remove blank flanges (on existing isolating valves (2No.))	✓	
Supply new pump set inclusive of pump, motor and baseplate (1No.) and install	✓	
New pipework (make up pieces between pump suction and delivery and adjacent valves) including new bolt sets and gaskets	✓	
Supply new non-return valve	✓	
Construct new plinth	✓	
ELECTRICAL		
Connection of power cables to existing MCC starter cubicle	✓	
Supply and install modifications to ICA equipment (PLC, instrumentation and telemetry)	✓	
Cabling for new control instrumentation and local telemetry (incl. traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building services	x	
Standby generation and associated switchgear	x	
New starter	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	

Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Lines 13a and 13b	Replacement of borehole pumpsets, output 4MI/d and 10MI/d	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
MECHANICAL EQUIPMENT		
Remove existing headworks and borehole riser pipework as required	✓	
Remove existing borehole pump, supply new (including shrouds and power cable (within borehole))	✓	
Allow for preparation and painting of reused borehole pipework	x	
Reinstall riser and headworks pipework if required	✓	
Temporary lifting gantry	✓	
ELECTRICAL		
Disconnect and reconnection of power cables	✓	
Removal of existing ICA panel, supply new	✓	
Removal of existing PLC (hardware and software), supply new	✓	
Removal of existing instrumentation, supply new	✓	
Removal of existing telemetry, supply new	✓	
Cabling for control instrumentation and local telemetry (including traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Lines 13d and 13e	Replacement motor control centre for an existing variable speed pumping station, 15kW and 90kW total installed motor capacity
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Phased disconnection of existing MCC and controls	✓	
Installation of temporary control panel, phased connections and commissioning and /or temporary overpumping	✓	
Construction of plinths	x	
Installation of new MCC	✓	
Phased reconnection of cabling to the new MCC and control section	✓	
ELECTRICAL		
Disconnect and reconnection of power cables	✓	
Removal of existing MCC and ICA including telemetry and PLC	✓	
Minor modifications to MCC plinth	x	
Provision of temporary works control panel or temporary pumping	✓	
Supply of new MCC incorporating new ICA, PLC (hardware and software) and telemetry outstation, marshalling and cabling	✓	
Supply of new level control instrumentation	✓	
Removal of existing level instrumentation	✓	
Factory Acceptance Tests (FATs)	✓	
Site Acceptance Tests (SATs)	✓	
Cabling for control instrumentation and local telemetry (incl, traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building Services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	

Effect of seasonal working	x	
Effect of limited working hours	x	

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Standard cost from PR99 Information Requirement G 060498; Table G5, Line 15

Line 14	Extension to office accommodation
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Checklist to follow.

WATER NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J5

Standard cost from PR99 Information Requirement G 060498; Table G5, Line 16

Line 15	Satellite stations and a transmission station
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Checklist to follow.

WATER NON-INFRASTRUCTURE STANDARD COST SCOPE OF WORKS – TABLE J5

PUMPING STATION STANDARD COSTS		Pump and Motor Set	Motor Only	Make Up Pipework	Non-return Valves	Isolation Valves	Station Pipework and Riser Pipework	Headworks Pipework and PLC	PLC Software	Telemetry Outstation	Telemetry End to End Testing	ICA Panel	Level Instrumentation	Pressure Instrumentation	Proximity Switches and	Plinth or Pump Stool	Pump Power Cabling	Starters	Temporary Works		
LINE Nos	TITLE																				
10	Replacement of variable speed pumps, output 6 to 9MI/d	S(2)	N	R	S	R	R	N	N	S	S	S	N	S	S	N	S	S	R	R	N
[new6]	Replacement of variable speed pump motors, rated 110kW	N	S(3)	R	R	R	R	N	N	R	R	R	N	R	R	R	R	R	S	R	N
[new7]	Replacement of borehole pumpsets, output 4MI/d	S(3)	N	R	S	R	R	R	R	S	S	S	N	S	S	N	N	N	S	R	S ¹
[new8]	Replacement of borehole pumpsets, output 10MI/d	S(3)	N	R	S	R	R	R	R	S	S	S	N	S	S	N	N	N	S	R	S ¹
13	New fixed-speed pumpset, output 10MI/d	S(1)	N	S	S	R	R	N	N	M	Pr	M	N	M	S	S	N	S	S	R	N
[new9]	New fixed-speed pumpset, output 30MI/d	S(1)	N	S	S	R	R	N	N	M	Pr	M	N	M	S	S	N	S	S	R	N
[new10]	Replacement MCC, 15kW total installed capacity	N	N	N	N	N	N	N	N	S	S	S	N	S ⁴	N	S	N	R	R	S	S ²
[new11]	Replacement MCC, 90kW total installed capacity	N	N	N	N	N	N	N	N	S	S	S	N	S ⁴	N	S	N	R	R	S	S ²

KEY

S(x)	Supply new (x) = no. of items
R	Re-use existing
N	Not required
Pr	Reprogramme existing
M	Modification or expansion of existing

NOTES

1	Temporary lifting plant
2	Temporary control panel, pumping or tinkering
3	Temporary pumping
4	ICA provision integral to the MCC within control section/cubicle

WATER NON-INFRASTRUCTURE STANDARD COST SCOPE OF WORKS – TABLE J5

PUMPING STATION STANDARD COSTS		Pump and Motor Set	Motor Only	Make Up Pipework	Non-return Valves	Isolation Valves	Station Pipework and Riser Pipework	Headworks Pipework and PLC	PLC Software	Telemetry Outstation	Telemetry End to End Testing	ICA Panel	Level Instrumentation	Pressure Instrumentation	Proximity Switches and	Plinth or Pump Stool	Pump Power Cabling	Starters	Temporary Works
LINE Nos	TITLE																		
10	Replacement of variable speed pumps, output 6 to 9MI/d																		
[new6]	Replacement of variable speed pump motors, rated 110kW																		
[new7]	Replacement of borehole pumpsets, output 4MI/d																		
[new8]	Replacement of borehole pumpsets, output 10MI/d																		
13	New fixed-speed pumpset, output 10MI/d																		
[new9]	New fixed-speed pumpset, output 30MI/d																		
[new10]	Replacement MCC, 15kW total installed capacity																		
[new11]	Replacement MCC, 90kW total installed capacity																		

KEY

S(x) Supply new (x) = no. of items
R Re-use existing
N Not required
Pr Reprogramme existing

NOTES

1 Temporary lifting plant
2 Temporary control panel, pumping or tinkering
3 Temporary pumping
4 ICA provision integral to the MCC within control section/cubicle

M Modification or expansion of existing

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 1	Storage tank to combined sewer overflow 750m ³	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Re-use of excavated material on site	✓	✓
Geo-technical investigations	✓	✓
Temporary pumping	x	x
Kiosk base slab	✓	x
Allowance for uplift	x	x
Inlet/outlet chambers	✓	✓
Vertical sided excavation	✓	✓
Transfer pumps and circulating pump	✓	✓
Circulating pump or other deposition prevention system	✓	✓
Access ladders	✓	✓
Access covers	✓	✓
Vents	✓	✓
Guard rails	x	x
Manhole, interconnecting pipework and connection to sewer (in and out)	✓	✓
BUILDINGS		
Kiosk	✓	x
ELECTRICAL		
Motor control centres	✓	✓
Cabling	✓	✓
ICA	✓	✓
Telemetry	✓	✓
Building services	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x

Public meetings	X	X
Customer communication	X	X
Special inducements	X	X
Effect of seasonal working	X	X
Effect of limited working hours	X	X

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 1a	Large storage tank to a combined sewer overflow, capacity 3,000m ³	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Re-use of excavated material on site	✓	✓
Geo-technical investigations	✓	✓
Temporary pumping	x	x
Kiosk base slab	✓	x
Allowance for uplift	x	x
Inlet/outlet chambers	✓	✓
Vertical sided excavation	✓	✓
Transfer pumps and circulating pump	✓	✓
Circulating pump or other deposition prevention system	✓	✓
Access ladders	✓	✓
Access covers	✓	✓
Vents	✓	✓
Guard rails	x	x
Manhole, interconnecting pipework and connection to sewer (in and out)	✓	✓
BUILDINGS		
Kiosk	✓	x
ELECTRICAL		
Motor control centers	✓	✓
Cabling	✓	✓
ICA	✓	✓
Telemetry	✓	✓
Building services	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x

Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 1b	Combined sewer overflow chamber with powered screen	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Re-use of excavated material on site	✓	✓
Geo-technical investigations	✓	✓
Temporary pumping	x	x
Kiosk base slab	✓	✓
Insitu RC chamber	✓	✓
Allowance for uplift	x	x
Inlet/outlet chambers	✓	✓
Vertical sided excavation	✓	✓
Traffic management / NRSWA costs	x	x
Powered screen	✓	✓
Access ladders	✓	✓
Access covers	✓	✓
Service diversions	x	x
Vents	x	x
Manhole, interconnecting pipework and connection to sewer (in and out)	✓	✓
Overflow sewer, new manhole and connection to existing outfall pipe	✓	✓
BUILDINGS		
Kiosk	✓	✓
ELECTRICAL		
Control panel	✓	✓
Cabling	✓	✓
ICA	✓	✓
Telemetry	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	✓
Commissioning	✓	✓
Tender/outturn margin	✓	✓

Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Lines 2, 3 and 4	Replacement dry well pumps and motors for an existing pumping station, 12kW, 30kW and 100kW capacity
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Removal of existing pumps and motors, supply new	✓	✓
Removal of existing pipework and re-use as required	✓	✓
Removal of existing plinths, construct new	✓	✓
ELECTRICAL		
Disconnect and reconnection of power cables	✓	✓
Removal of existing ICA panel, supply new	✓	✓
Removal of existing PLC (hardware and software), supply new	✓	✓
Removal of existing instrumentation, supply new	✓	✓
Removal of existing telemetry, supply new	✓	✓
Cabling for control instrumentation and local telemetry (incl. traywork, ducting, clipping and testing)	✓	✓
Reconnect telemetry to network	x	x
Building services	x	x
Standby generation and associated switchgear	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 4a	Replacement submersible pumps for an existing pumping station, 12kW capacity
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Removal of existing pumps and motors, supply new	✓	
Removal of existing pipework and re-use as required	✓	
Removal of existing plinths, construct	x	
ELECTRICAL EQUIPMENT		
Disconnect and reconnection of power cables	✓	
Removal of existing ICA panel, supply new	✓	
Removal of existing PLC (hardware and software), supply new	✓	
Removal of existing instrumentation, supply new	✓	
Removal of existing telemetry outstation, supply new	✓	
Cabling for control instrumentation and local telemetry (incl, traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 4b	Upsize existing dry well in-line pumping station from 12kW to 30kW capacity
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Removal of existing pumps and motors, supply new	✓	
Removal of existing pipework reinstall as required	✓	
Removal of existing plinths, construct new	✓	
ELECTRICAL EQUIPMENT		
Disconnect and reconnection of power cables	✓	
Removal of existing ICA panel, supply new	✓	
Removal of existing PLC (hardware and software), supply new	✓	
Removal of existing instrumentation, supply new	✓	
Removal of existing telemetry outstation, supply new	✓	
Cabling for control instrumentation and local telemetry (incl, traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 4c	Upsize existing wet well in-line pumping station from 12kW to 30kW capacity
----------------	--

STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Removal of existing pumps and motors, supply new	✓	
Temporary pump and overpumping	✓	
Removal of existing pipework reinstall as required	✓	
Removal of existing plinths, construct new	✓	
ELECTRICAL EQUIPMENT		
Disconnect and reconnection of power cables	✓	
Removal of existing ICA panel, supply new	✓	
Removal of existing PLC (hardware and software), supply new	✓	
Removal of existing instrumentation, supply new	✓	
Removal of existing telemetry outstation, supply new	✓	
Cabling for control instrumentation and local telemetry (incl, traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 4d and 4e	Replacement motor control centre for an existing fixed speed pumping station, 15kW and 90kW total installed motor capacity
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
LABOUR AND PLANT		
Phased disconnection of existing MCC and controls	✓	
Installation of temporary control panel, phased connections and commissioning	✓	
Construction of plinths	x	
Installation of new MCC	✓	
Phased reconnection of cabling to the new MCC and control section	✓	
ELECTRICAL EQUIPMENT		
Disconnect and reconnection of power cables	✓	
Removal of existing MCC and ICA including telemetry outstation and PLC	✓	
Minor modifications to MCC plinth	x	
Provision of temporary works control panel	✓	
Supply of new MCC incorporating new ICA, PLC (hardware and software) and telemetry outstation	✓	
Supply of new level control instrumentation	✓	
Removal of existing level instrumentation	✓	
Factory Acceptance Tests	✓	
Site Acceptance Tests	✓	
Cabling for control instrumentation and local telemetry (incl, traywork, ducting, clipping and testing)	✓	
Reconnect telemetry to network	x	
Building services	x	
Standby generation and associated switchgear	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	

Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 5	Primary treatment works p.e 10,000	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	✓
Insert main process assumptions		
Design solids reduction of 50% - Design BOD reduction of 30%		
Sludge storage volume calculated on primary settled sludge conc. Of 2%		
Primary sludge density of 1000kg/m3		
Primary tanks design hydraulic loading at max flow of 1.25m/h		
Flow measurement	✓	✓
Sludge storage	✓	✓
Odour control	✓	x
Interconnecting pipework and valves	✓	✓
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BULDINGS		
Switchgear building/kiosk	✓	✓
Administration and control building	✓	✓
Blower building (if applicable)	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x

Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Lines 6 and 7	Additional secondary treatment works p.e. 5,000 and p.e. 60,000	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	✓
Insert main process assumptions		
Design irrigation velocity for adequate wetting of plastic media filter (J6.6) of 10-30 m3/m2/d		
Maximum organic loading without ponding 5kg BOD/m2/d		
Sludge storage	✓	✓
Odour control	✓	x
Interconnecting pipework and valves	✓	✓
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Switchgear building/kiosk	✓	✓
Administration and control building	x	x
Blower building (if applicable)	x	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x

Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 7a	Installation of denitrification at existing secondary works, p.e. 40,000	
STANDARD COST ASSUMPTIONS		
PROCESS		
Process Design to meet consent standard specified	✓	
Insert main stages		
SW would not carry out this type of work		
Additional sludge treatment (if applicable) including odour control	✓	
Flow measurement	x	
Interconnecting pipework and valves	✓	
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	
Power, control, instrument cabling	✓	
Instruments (level, flow, pressure, water quality, etc)	✓	
Control panels (including local control PLC, works PLC, works SCADA)	✓	
Telemetry outstation equipment	✓	
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	
Standby generators and associated switchgear	x	
BUILDINGS		
Switchgear building/kiosk	✓	
Administration and control building (if applicable)	x	
Blower building (if applicable)	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender\outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	

Customer communication	x	
Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Lines 8 and 9	New secondary treatment works, p.e. 5,000 and p.e. 70,000	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	✓
insert main process assumptions		
Design irrigation velocity for adequate wetting of plastic media filter (J6.6) of 10-30 m3/m2/d		
Maximum organic loading without ponding 5kg BOD/m2/d		
Storm tanks	✓	x
Flow measurement	✓	✓
Sludge storage	✓	✓
Odour control	✓	X
Interconnecting pipework and valves	✓	✓
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Switchgear building/kiosk	✓	✓
Administration and control building	✓	✓
Blower building (if applicable)	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x

Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 10	Reconstruction of preliminary treatment works, p.e. 25,000	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	✓
insert main process assumptions		
Flow measurement	✓	✓
Odour control	✓	x
Interconnecting pipework and valves	✓	✓
Electrical Equipment		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
Buildings		
Switchgear building/kiosk	✓	✓
Administration and control building (if applicable)	x	x
Blower building (if applicable)	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x

Effect of limited working hours	x	x
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SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 11	First time rural sewage works, p.e. 200	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	✓
Insert main stages		
Primary settlement via septic tanks	x	✓
Secondary treatment by package BAF/SAF	x	✓
Odour control	✓	x
Electrical Equipment		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	x	✓
Standby generators and associated switchgear	x	x
BULDINGS		
Switchgear building/kiosk	✓	✓
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x
Effect of limited working hours	x	x

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Lines 12, 13, 14 and 14a Additional nutrient/ammonia removal at existing secondary works		
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	✓
Insert main stages		
Alum/ferric dosing		
Sludge storage		
Filtration (14 and 14a)		
Additional sludge treatment including odour control	✓	x
Flow measurement	x	x
Interconnecting pipework and valves	✓	✓
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	✓
Power, control, instrument cabling	✓	✓
Instruments (level, flow, pressure, water quality, etc)	✓	✓
Control panels (including local control PLC, works PLC, works SCADA)	✓	✓
Telemetry outstation equipment	✓	✓
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	✓
Standby generators and associated switchgear	x	x
BUILDINGS		
Switchgear building/kiosk	✓	✓
Administration and control building (if applicable)	x	x
Blower building (if applicable)	x	x
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	✓
Project design and supervision	✓	✓
Project quality audit	✓	✓
Contractual claims	✓	✓
Compensation	x	x
Overheads on stores	✓	x
Commissioning	✓	✓
Tender/outturn margin	✓	✓
Contingencies or general adjustments	✓	x
Public meetings	x	x
Customer communication	x	x
Special inducements	x	x
Effect of seasonal working	x	x

Effect of limited working hours	x	x
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SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Lines 15 and 16	Additional UV disinfection at existing treatment works, p.e. 5,000 and p.e. 40,000
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STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet consent standard specified	✓	
Insert main stages		
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	
Power, control, instrument cabling	✓	
Instruments (level, flow, pressure, water quality, etc)	✓	
Control panels (including local control PLC, works PLC, works SCADA)	✓	
Telemetry outstation equipment	✓	
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	
Standby generators and associated switchgear	x	
BUILDINGS		
Switchgear building/kiosk	✓	
Administration and control building (if applicable)	x	
Blower building (if applicable)	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender\outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	
Special inducements	x	

Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 17	New enhanced sludge treatment facility, throughput 2ttds per annum	
STANDARD COST ASSUMPTIONS	Include in Standard Cost	Scottish Water audit
PROCESS		
Process Design to meet Code of Practice standard specified	✓	
Insert main stages		
State assumed dry solids content of finished sludge	✓	
Odour control	✓	
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	
Power, control, instrument cabling	✓	
Instruments (level, flow, pressure, water quality, etc)	✓	
Control panels (including local control PLC, works PLC, works SCADA)	✓	
Telemetry outstation equipment	✓	
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	
Standby generators and associated switchgear	x	
BUILDINGS		
Switchgear building/kiosk	✓	
Administration and control building (if applicable)	x	
Blower building (if applicable)	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	

Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST CHECKLISTS – TABLE J6

Line 18	New enhanced sludge treatment facility, throughput 2ttds per annum	
STANDARD COST ASSUMPTIONS		
PROCESS		
Process Design to meet Code of Practice standard specified	✓	
Insert main stages		
State assumed dry solids content of finished sludge	✓	
Odour control	✓	
ELECTRICAL EQUIPMENT		
Motor Control Centres including incomer/isolator/local distribution	✓	
Power, control, instrument cabling	✓	
Instruments (level, flow, pressure, water quality, etc)	✓	
Control panels (including local control PLC, works PLC, works SCADA)	✓	
Telemetry outstation equipment	✓	
Building services (lighting, power, heating, ventilation, telephones, intruder and fire alarm, and entry control and surveillance)	✓	
Standby generators and associated switchgear	x	
BUILDINGS		
Switchgear building/kiosk	✓	
Administration and control building (if applicable)	x	
Blower building (if applicable)	x	
MANAGEMENT COSTS		
Company overheads, programme management, project management, incentive payments	✓	
Project design and supervision	✓	
Project quality audit	✓	
Contractual claims	✓	
Compensation	x	
Overheads on stores	✓	
Commissioning	✓	
Tender/outturn margin	✓	
Contingencies or general adjustments	✓	
Public meetings	x	
Customer communication	x	

Special inducements	x	
Effect of seasonal working	x	
Effect of limited working hours	x	

SEWERAGE NON-INFRASTRUCTURE STANDARD COST SCOPE OF WORKS – TABLE J6

PUMPING STATION STANDARD COSTS		Pump and Motor Set	Motor Only	Make Up Pipework	Non-return Valves	Isolation Valves	Station Pipework and Riser Pipework	Headworks and Associated	PLC	PLC Software	Telemetry Outstation	Telemetry End to End Testing	ICA Panel	Level Instrumentation	Pressure Instrumentation	Proximity Switches and	Plinth or Pump Stool	Pump Power Cabling	Starters	Temporary Works	
LINE Nos	TITLE																				
2	Replacement dry well pumps and motors, 12kW capacity	S(2)	N	R	R	R	R	N	N	S	S	S	N	S	S	N	S	S	S	R	N
3	Replacement dry well pumps and motors, 30kW capacity	S(2)	N	R	R	R	R	N	N	S	S	S	N	S	S	N	S	S	S	R	N
4	Replacement dry well pumps and motors, 100kW capacity	S(2)	N	R	R	R	R	N	N	S	S	S	N	S	S	N	S	S	S	R	N
[new3]	Replacement submersible pumps, 12kW capacity	S(2)	N	R	R	R	R	N	N	S	S	S	N	S	S	N	N	R	S	R	N
[new4]	Upsize existing dry well from 12kW to 30kW capacity	S(2)	N	R	R	R	R	N	N	S	S	S	N	S	S	N	S	S	S	R	N
[new5]	Upsize existing wet well from 12kW to 30kW capacity	S(2)	N	R	R	R	R	N	N	S	S	S	N	S	S	N	S	S	S	R	S ³
[new6]	Replacement MCC, 15kW total installed motor capacity	N	N	N	N	N	N	N	N	S	S	S	N	S ⁴	S	N	N	R	R	S	S ²
[new7]	Replacement MCC, 90kW total installed motor capacity	N	N	N	N	N	N	N	N	S	S	S	N	S ⁴	S	N	N	R	R	S	S ²

KEY

S(x) Supply new (x) = no. of items

NOTES

1 Temporary lifting plant

R	Re-use existing	2	Temporary control panel, pumping or tankering
N	Not required	3	Temporary pumping
Pr	Reprogramme existing	4	ICA provision integral to the MCC within control section/cubicle
M	Modification or expansion of existing		

SEWERAGE NON-INFRASTRUCTURE STANDARD COST SCOPE OF WORKS – TABLE J6

PUMPING STATION STANDARD COSTS		Pump and Motor Set	Motor Only	Make Up Pipework	Non-return Valves	Isolation Valves	Station Pipework and Riser Pipework	Headworks and Associated	PLC	PLC Software	Telemetry Outstation	Telemetry End to End Testing	ICA Panel	Level Instrumentation	Pressure Instrumentation	Proximity Switches and	Plinth or Pump Stool	Pump Power Cabling	Starters	Temporary Works
LINE Nos	TITLE																			
2	Replacement dry well pumps and motors, 12kW capacity																			
3	Replacement dry well pumps and motors, 30kW capacity																			
4	Replacement dry well pumps and motors, 100kW capacity																			
[new3]	Replacement submersible pumps, 12kW capacity																			
[new4]	Upsize existing dry well from 12kW to 30kW capacity																			
[new5]	Upsize existing wet well from 12kW to 30kW capacity																			
[new6]	Replacement MCC, 15kW total installed motor capacity																			
[new7]	Replacement MCC, 90kW total installed motor capacity																			

KEY

S(x) Supply new (x) = no. of items

NOTES

1 Temporary lifting plant

R	Re-use existing	2	Temporary control panel, pumping or tankering
N	Not required	3	Temporary pumping
Pr	Reprogramme existing	4	ICA provision integral to the MCC within control section/cubicle
M	Modification or expansion of existing		