

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.1	Water Service Infrastructure

Line Definition: The capital expenditure required to maintain serviceability to customers of the Water infrastructure assets.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.2	Water Service Non-Infrastructure

Line Definition: The capital expenditure required to maintain serviceability to customers of the Water Non-infrastructure assets.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.3	Wastewater Service Infrastructure

Line Definition: The capital expenditure required to maintain serviceability to customers of the Wastewater Infrastructure assets.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.4	Wastewater Service Non-Infrastructure
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Line Definition: The capital expenditure required to maintain serviceability to customers of the Wastewater Non-infrastructure assets.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.5	Management and General
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Line Definition: The Management and General expenditure required to maintain serviceability to customers.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.6	Total Capital Maintenance
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Line Definition: The total capital expenditure required for the preservation and (where necessary) the replacement of all water service assets to maintain serviceability to customers.

Processing Rule: Calculated field: The sum of lines K1.to K 1.5

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.7	Strategic Capacity - Water Treatment [WG1]
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Line Definition: Capital expenditure associated with meeting or offsetting changes in demand from new and existing water customers, whilst maintaining existing levels of service.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.8	Reasonable Costs Contributions - Water Connections [WG2]
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Line Definition: The gross capital costs associated with the provision of local distribution assets for water service to provide for new customers with no net deterioration of existing levels of service. (RCC)

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.9	Strategic Water Network Capacity (Infrastructure Charge) [WG5]
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Line Definition: The capital expenditure associated with the income received from Infrastructure charges to ensure that strategic assets within the water network contain a sufficient level of capacity to meet future demand.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.10	Strategic Capacity - Wastewater Treatment [SG1]
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Line Definition: Capital expenditure associated with meeting or offsetting changes in demand from new and existing wastewater customers, whilst maintaining existing levels of service.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.11	Reasonable Costs Contributions - Wastewater Connections [SG2]
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Line Definition: The gross capital costs associated with the provision of local distribution assets for wastewater service to provide for new customers with no net deterioration of existing levels of service. (RCC)

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.12	Strategic Wastewater Network Capacity (Infrastructure Charge) [SG5]
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Line Definition: The capital expenditure associated with the income received from Infrastructure charges to ensure that strategic assets within the wastewater network contain a sufficient level of capacity to meet future demand.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.13	Total Growth

Line Definition: The total capital expenditure required to ensure that there is sufficient capacity within both the water and wastewater networks to meet future demand for water and wastewater services.

Processing Rule: Calculated field: the sum of lines K1.7 to K 1.12

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.14	Zones with reduced lead levels to meet the standard [DW1A]

Line Definition: The capital expenditure required to ensure compliance with lead standard of 10mg/l set in EC Directive 98/83 on the quality of water intended for human consumption.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.15	Number of treatment works improved to meet drinking water standards [DW3]

Line Definition: The capital expenditure required to ensure compliance with the Drinking Water Directive 98/83/EC including standards specified in the Water Supply (Water Quality) (Scotland) Regulations 2001.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.16	Mains rehabilitated to improve drinking water quality [DW5]
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Line Definition: The capital expenditure required to ensure the quality of water put into supply does not exceed the iron and manganese standards set in Directive 98/83/EC.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.17	DMA's subject to water quality investigations [DW5A]
-------------	--------------	--

Line Definition: The capital expenditure required to study the most beneficial approach to comply with iron and manganese standards.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.18	Installation of tanker fill points [DW8]
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Line Definition: The capital expenditure required to reduce reliance on mutual aid during emergencies by the provision of emergency tanker fill-points.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.19	Sites with increased physical security [DW9]
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Line Definition: The capital expenditure required to ensure that additional physical security arrangements are in place in accordance with guidance issued by Security Services.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.20	Type A Raw Water Supplies provided with treatment [DW10]
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Line Definition: The capital expenditure required to ensure that all private (Type A) raw water supplies meet standards set in Directive.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.21	Backflow prevention devices at WwTW [DW11]
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Line Definition: Investment necessary on SW assets to ensure SW compliance with Water Fittings Byelaws. (This driver does not include the cost of ensuring third party Byelaw compliance).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.22	WTW receiving improved disinfection control [DW13]
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Line Definition: The capital expenditure required to ensure improvements in aesthetic quality of drinking water.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.23	Water safety plans [DW16]
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Line Definition: The capital expenditure required to carry out Water safety plans. Standards in the EC Directives are derived from World Health Organisation Guideline Values.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.24	Reduction in cryptosporidium risk [DW23]
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Line Definition: The capital expenditure required to ensure compliance with the Cryptosporidium (Scottish Water) Directions 2003 and any subsequent revisions including:

- i) annual risk assessments for all water supplies for the presence of Cryptosporidium;
- ii) installation of turbidity meters on all filters;
- iii) installation of standby generators at vulnerable sites;
- and iv) continuous monitoring of specific water supplies for Cryptosporidium;

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.25	Raw water sampling points to comply with WFD [DW24]
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Line Definition: The capital expenditure required for the provision of sampling facilities to monitor raw water quality to comply with requirements of WFD Article 7.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.26	Restoration of supply demand balance to company Level of Service (Non 7 stage) [WG4]

Line Definition: The capital expenditure required to provide an appropriate level of physical security according to the Security Service Standards and to improve the level of service in water supply zones to avoid conditions of a 1 in 40 year return (not subject to the seven stage process).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.27	Total Drinking Water Quality OMD Enhancements

Line Definition: The capital expenditure required to improve the drinking water quality elements included in the Overall Measure of Delivery.

Processing Rule: Calculated field: the sum of lines K1.14 to K 1.26

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.28	UID's improved to meet new standard (non 7 stage) [EC01B, EC03B, EC10B]
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Line Definition: The capital expenditure required to improve intermittent discharges (not subject to the seven stage process) to comply with The Urban Waste Water Treatment Directive (91/271/EEC), The Shellfish Waters Directive (70/923/EEC), and The Water Framework Directive (2000/60/EC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.29	WwTW improved to meet new standard [EC01A, EC03A, EC04A, EC10A]
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Line Definition: The capital expenditure required to improve continuous discharges from wastewater treatment works to comply with The Urban Waste Water Treatment Directive (91/271/EEC), The Shellfish Waters Directive (70/923/EEC), The Freshwater for Fish Directive (78/659/EEC), and The Water Framework Directive (2000/60/EC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.30	First Time provision of wastewater treatment [SG3]
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Line Definition: The gross capital cost associated with the provision of new sewerage facilities to existing properties.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.31	WwTW improved to meet existing standards [WQ01]
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Line Definition: The capital expenditure required to comply with The Water Environment and Water Services Act 2003 (Secondary legislation to replace Control of Pollution Act 1974, Section 34).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.32	WwPS improved to meet existing standards [WQ01C]
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Line Definition: The capital expenditure required to comply with The Water Environment and Water Services Act 2003 (Secondary legislation to replace Control of Pollution Act 1974, Section 34).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.33	Surface water systems improved [EC09B,EC10D]
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Line Definition: The capital expenditure required to improve surface water outfalls to comply with The Water Framework Directive (2000/60/EC) and The Dangerous Substances Directive (76/464/EEC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.34	Dual manhole systems improved [EC01C,EC04D]
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Line Definition: The capital expenditure required for dual manhole improvements to comply with The Urban Waste Water Treatment Directive (91/271/EEC) and The Freshwater for Fish Directive (78/659/EEC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.35	Sludge Treatment Facilities improved to comply with safe sludge matrix [EC06]
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Line Definition: The capital expenditure required to comply with The Sludge Use in Agriculture Directive (86/278/EEC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.36	WwTW brought into compliance with non-sanitary requirements [WQ01A]

Line Definition: The capital expenditure required to comply with The Water Environment and Water Services Act 2003 (Secondary legislation to replace Control of Pollution Act 1974, Section 34).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.37	Wastewater network Asset brought into compliance with non-sanitary requirements [WQ01B]

Line Definition: The capital expenditure required to comply with The Water Environment and Water Services Act 2003 (Secondary legislation to replace Control of Pollution Act 1974, Section 34).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.38	Environmental studies [EC01D,EC03C,EC04C,EC07C,EC08C,EC10E,NH01A,SG3,EC16,WR1A, WR2B]

Line Definition: The capital expenditure required to study potential improvements to unsatisfactory intermittent discharges.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.39	Asset flooding risk assessments [CS16W & CS16S]

Line Definition: The capital expenditure required to comply with the recent 2009 Flooding Bill (water and wastewater).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.40	Total Environment OMD Enhancements

Line Definition: The total capital expenditure required to improve the environmental elements included in the Overall Measure of Delivery.

Processing Rule: field: the sum of lines K1.28 to K 1.39

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.41	Malodour reduction at WwTW [CS2]
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Line Definition: The total capital expenditure required to reduce malodour at Wastewater treatment works as agreed with the Strategic Odour Steering Group.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.42	Malodour reduction at PFI sites [CS2]
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Line Definition: The total capital expenditure required to reduce malodour at Wastewater treatment works that are operated under a PFI framework.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.43	Number of properties removed from the low pressure register [CS1 & CS1A]
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Line Definition: The total capital expenditure required to reduce the number of properties subject to inadequate water pressure.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.44	External sewer flooding [CS15]
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Line Definition: The total capital expenditure required to reduce the risk of sewer flooding in compliance with the Flood Risk Management Scotland Act 2009.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.45	Number of assets protected from flood risk [CS16W]
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Line Definition: The total capital expenditure required to protect critical assets from flooding in compliance with the Flood Risk Management (Scotland) Act 2009.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.46	Total Customer Service OMD Enhancements
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Line Definition: The total capital expenditure required to improve the customer service elements included in the Overall Measure of Delivery.

Processing Rule: Calculated field: the sum of lines K1.41 to K 1.45

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.47	Climate change studies [CC3,CC4,CC5,CC6]
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Line Definition: The capital expenditure required to study the most appropriate way to reduce carbon emission from the network by 42% by 2020 and 80% by 2050, in compliance with the Climate Change Act (Scotland) 2009.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.48	Renewable power generation [CC1W]
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Line Definition: The capital expenditure required to produce renewable energy from water assets to comply with the Climate Change Act (Scotland) 2009.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.49	Total Climate Change OMD Enhancements
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Line Definition: The total capital expenditure required to comply with the climate change obligations included in the Overall Measure of Delivery.

Processing Rule: Calculated field: the sum of lines K1.47 and K 1.48

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.50	Restoration of supply demand balance to company Level of Service [WG4]
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Line Definition: The total capital expenditure required for the improvement to Supply/Demand balance towards policy Level of Service over and above delivery of SRELL. These improvements should fully estimate the opportunities to address supply deficit through leakage control and demand management activities.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.51	Restoration of supply demand balance to company Level of Service under 7-stage [WG4]
-------------	--------------	--

Line Definition: The total capital expenditure required for the improvement to Supply/Demand balance towards policy Level of Service over and above delivery of SRELL. These improvements should fully estimate the opportunities to address supply deficit through leakage control and demand management activities.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.52	Q&SIIIb Enhancement - 7 Stage Process
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Line Definition: The current estimate of the capital expenditure required to complete the programme areas that will be subject to the seven stage process.

Processing Rule: Calculated field: the sum of lines K1.50 +K1.51

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.53	Opportunistic lead pipe replacement [DW1B]
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Line Definition: The capital expenditure required to comply with lead standard of 10mg/l set in EC Directive 98/83 on the quality of water when the opportunity arises whilst carrying out other capital investment work.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.54	Customer requested lead pipe replacement [DW1C]
-------------	--------------	---

Line Definition: The capital expenditure required to comply with lead standard of 10mg/l set in EC Directive 98/83 on the quality of water intended for human consumption - reduce the amount of lead supply pipes at customer's request.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.55	Customer requested Type B Raw Water Supplies provided with treatment [DW10]
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Line Definition: The capital expenditure required to provide treatment systems to type B properties in compliance with the Private water Supplies Scotland Regulations 2006.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.56	Total Drinking Water Quality Non OMD
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Line Definition: The total capital expenditure required to comply with the Scottish Government's objectives for drinking water quality that is not monitored through the Overall Measure of Delivery.

Processing Rule: Calculated field: the sum of lines K1.53 to K 1.55

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.57	Emerging properties removed from the internal flooding at risk register [CS11A]
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Line Definition: The capital expenditure required to remove properties that have been added from Scottish Water's internal flooding risk register.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.58	Models to support flooding bill [CS16S]
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Line Definition: Capital expenditure that is required to model flooding from sewer network, how it interacts with other water systems and to provide information to SEPA in support of the flooding bill.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.59	Creation of external sewer flooding register [CS17]
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Line Definition: The capital expenditure for the creation of a register which enables to record sewer flooding incidents.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.60	Total Drinking Water Quality Non OMD Enhancements
-------------	--------------	---

Line Definition: The total capital expenditure required for the improvement of drinking water quality elements which are not subject to the OMD.

Processing Rule: Calculated field - the sum of lines K1.57 to K 1.59

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.61	Developing Section 29E opportunities [CS18S]
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Line Definition: The capital expenditure required to develop opportunities under Section 29E in accordance to the Water Service Scotland Act 2005.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.62	Incentivising developers to adopt water efficiency measures [CS18W]
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Line Definition: The capital expenditure necessary to motivate developers to adopt water efficiency measures in new and refurbished housing.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.63	Household metering trials [CS19]
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Line Definition: The capital expenditure necessary to pilot metering trials across Scotland, including establishing the potential impact on water use.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.64	Strengthening the regulatory framework [CS20]
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Line Definition: The capital expenditure required to develop a regulatory framework which enables the accounting separation of the water network and the water treatment functions and the same separation on the waste water side.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.65	Sustainable solutions to Cryptosporidium
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Line Definition: The capital expenditure required work with the drinking water quality regulator to pilot sustainable treatment methods to reduce the risk of cryptosporidium.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.66	Permanent lowest cost solution to Dalmuir WwTW (PFI)
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Line Definition: The expenditure funded in the Strategic Review of Charges to ensure compliance at Dalmuir Wastewater Treatment Works.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.67	Total Final Determination Additions
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Line Definition: The total capital expenditure required to complete the programme areas that have been added as a result of the Commission's Strategic Review of Charges for 2010-15.

Processing Rule: Calculated field: the sum of lines 1.61 to 1.66

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.68	OMG Unallocated investment
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Line Definition: The expenditure funded in the Strategic Review of Charges but is yet to be allocated to any programme area. The allocation will be decided through the Output Monitoring Group.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.69	Total OMG Unallocated Enhancements
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Line Definition: The expenditure funded in the Strategic Review of Charges but is yet to be allocated to any programme area.

Processing Rule: Calculated field: equals line K1.68

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.70	Lead [DW1]

Line Definition: The capital expenditure required to complete the Lead programme that remains from the Quality and Standards 3a period.

Processing Rule: Input`

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.71	Trihalomethane [DW2]

Line Definition: Compliance with trihalomethane standard of 100mg/l.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.72	Other Parameters [DW3, DW3A-K]

Line Definition: The capital expenditure necessary to improve treatment and to reduce the levels of manganese, coli forms and aluminium in customer's water supplies.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.73	Cryptosporidium Improvements [DW4 & DW4A]

Line Definition: Compliance with the Cryptosporidium (Scottish Water) Directions 2003 and any subsequent revisions including:

- i) Annual risk assessment for all water supplies for the presence of Cryptosporidium;
- ii) Installation of turbidity meters on all filters;
- iii) Continuous monitoring of specific water supplies for Cryptosporidium

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.74	Mains rehabilitation [DW5]

Line Definition: The quality of water put into supply must not be downgraded by the condition of the water mains through which it is supplied. In particular, the condition of a water main must not result in exceeding the iron and manganese standards set in Directive 98/83/EC.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.75	Birds, Habitats [DW7]
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Line Definition: The capital expenditure required to improve intermittent discharges to comply with The Birds Directive (79/409/EEC) and The Habitats Directive (92/43/EEC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.76	Additional Physical security [DW9]
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Line Definition: The capital expenditure required to ensure that additional physical security arrangements are in place to protect assets in accordance with guidance issued by Security Services.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.77	Water fitting bylaws [DW11]
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Line Definition: Investment necessary on SW assets to ensure compliance with Water Fittings Byelaws. (This driver does not include the cost of ensuring third party Byelaw compliance).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.78	Improvement in aesthetic quality of drinking water [DW13]
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Line Definition: Improve the aesthetic quality of drinking water by meeting chlorine targets measured using the Disinfection Index set by DWQR in Information Letter 3/2006.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.79	Historic Incident Reports [DW15]
-------------	--------------	----------------------------------

Line Definition: The capital investment required to ensure compliance with the recommendations made as a result of investigations into drinking water quality incidents in Scotland.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.80	Reservoir improvements to comply with FEH methodology [DW20]
-------------	--------------	--

Line Definition: The capital expenditure required to check reservoirs spillway capacity in compliance with the new methodology for calculating rainfall depth stipulated in the Flood Estimation Handbook.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.81	UKTAG guideline abstraction thresholds [WR1]

Line Definition: The capital expenditure required to avoid deterioration in the quality of Drinking Water Protected Areas in order to reduce the level of purification treatment required in the production of drinking water – accordingly to the UK Technical advisory Group on the Water Framework Directive.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.82	Water WIC 16 Programme [WA13]

Line Definition: The capital expenditure to complete the remaining elements of the WIC 16 water Programme.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.83	Demonstrate compliance with water licenses [WR5]

Line Definition: The capital investment requirements to demonstrate compliance with water quality licences (all SW abstractions and impoundments).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.84	Total Drinking Water Quality Enhancements Q&SII & Q&SIIIa
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Line Definition: The total capital expenditure necessary to enhance drinking water quality elements of the Q&SII and Q&SIIIa.

Processing Rule: Calculated field: sum of lines K1.70 to K1.82

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.85	Water Environment and Water Services Act 2003 [WQ01]
-------------	--------------	--

Line Definition: The total capital investment required to ensure compliance with recommendations made as a result of investigations into drinking water quality incidents in Scotland.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.86	Water Industry (Scotland) Act 2002, Section 54 [NH01]
-------------	--------------	---

Line Definition: The capital expenditure required to reduce the impact on land designated as a Natural Heritage Area in compliance with the Water Industry (Scotland) Act 2002, Section 54.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.87	Urban Waste Water Treatment Directive (91/271/EEC) [EC01]
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Line Definition: The capital expenditure required to comply with Urban Waste Water Treatment Directive (91/271/EEC) – continuous discharge.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.88	Bathing Water Directive (76/160/EEC) [EC02]
-------------	--------------	---

Line Definition: The capital expenditure needed to ensure good bathing water quality, in accordance to the limits set the EU for physical, chemical and microbiological parameters.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.89	Shellfish Waters Directive (70/923/EEC) [EC03]
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Line Definition: The capital expenditure required to comply with the standard for water quality in estuaries and other areas where shellfish grow and reproduce.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.90	Freshwater for Fish Directive (78/659/EEC) [EC04]
-------------	--------------	---

Line Definition: The capital expenditure required to protect and improve the quality of water bodies to encourage healthy fish populations.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.91	Habitats Directive (92/43/EEC) [EC07, EC08]
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Line Definition: The capital expenditure required to improve intermittent discharges to comply with The Habitats Directive (92/43/EEC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.92	Dangerous Substances Directive (76/464/EEC) [EC09]
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Line Definition: The capital expenditure required to reduce contaminated discharges to improve the quality of surface waters.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.93	Water Framework Directive (2000/60/EC) [EC10]
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Line Definition: The capital expenditure required to reduce contaminated discharges to improve water protection in compliance with the Water Framework Directive (2000/60/EC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.94	Landfill Directive (99/31/EC) [EC11]
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Line Definition: The capital expenditure required to reduce the volume of waste and increase recycling rates accordingly to the Landfill Directive (99/31/EC).

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.95	First Time Provision [SG3]
-------------	--------------	----------------------------

Line Definition: The capital expenditure required to provide water and wastewater services to properties which will be connected to a public water/wastewater utility service for the first time.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.96	Environment WIC 16 Programme [WW11]
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Line Definition: The capital expenditure to complete the remaining elements of the WIC 16 wastewater Programme.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.97	Q&SII Environmental Quality Drivers (EC1, EC2, EC3, WQ1, WQ2,WQ3]
-------------	--------------	---

Line Definition: The capital expenditure required to fulfil environmental quality drivers for elements of the Q&SII (EC1, EC2, EC3, WQ1, WQ2, WQ3].

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.98	Total Environment Enhancements Q&SII & Q&SIIla
-------------	--------------	--

Line Definition: The total capital expenditure required to fulfil environmental quality drivers for elements of the Q&SII and Q&SIIla.

Processing Rule: Calculated field: sum of lines K1.84 to K1.97

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.99	Pressure [CS1]
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Line Definition: The capital expenditure required to reduce the number of properties subject to poor water pressure.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.100	Odour Management [CS2]
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Line Definition: The capital expenditure required to reduce malodour at specific sites accordingly with the Odour Improvement Plans.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.101	Sewer Flooding [CS11]
-------------	---------------	-----------------------

Line Definition: The capital expenditure required to reduce the risk of sewer flooding in compliance with the Flood Risk Management Scotland Act 2009.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.102	Unplanned Interruptions [CS12]
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Line Definition: The capital investment requirements to reduce unplanned interruptions to supply.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.103	Introduction to Competition [CS13]
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Line Definition: The total capital expenditure required to facilitate the a more robust competitive framework.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.104	Total Customer Service Enhancements Q&SII & Q&SIIIa
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Line Definition: The total capital expenditure required to fulfil customer service enhancements for elements of the Q&SII & Q&SIIIa.

Processing Rule: Calculated field: sum of lines K1.98 to K1.102

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.105	Grants for infrastructure assets
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Line Definition: The total grants received from third parties in the report year towards water services infrastructure assets. This grant is applied to the gross infrastructure in the year to derive net expenditure e.g. European Regional Development Fund.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.106	Grants for non-infrastructure assets
-------------	---------------	--------------------------------------

Line Definition: The total grants received from third parties in the report year towards non-infrastructure assets eg European Regional Development Fund.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.107	Contributions to infrastructure assets
-------------	---------------	--

Line Definition: The total contributions received in the report year towards infrastructure assets. This contribution is applied to the gross infrastructure in the year to derive net expenditure; for example, contributions towards the diversion of water mains for road works.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.108	Contributions to non-infrastructure assets
-------------	---------------	--

Line Definition: The total contributions received in the report year towards non-infrastructure assets.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.109	"Infrastructure charge" contributions for infrastructure assets
-------------	---------------	---

Line Definition: The total contributions received in the form of infrastructure charges for infrastructure assets.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.110	Total capital contributions
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Line Definition: The total forecast for income received in the form of grants, contributions, and charges that will stimulate investment in the 2010-15 period.

Processing Rule: Calculated field: sum of lines K1.104 to K1.108

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.111	Capital Maintenance - infrastructure expenditure

Line Definition: Total capital expenditure for maintenance of infrastructure assets.

Processing Rule: Calculated field: equals K1.6

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.112	Growth Expenditure

Line Definition: Total capital expenditure in the growth programme.

Processing Rule: Calculated field: equals K1.97

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.113	Q&SIIIb Enhancement Expenditure

Line Definition: Total capital expenditure for enhancement improvements in Q&SIIIb.

Processing Rule: Calculated field: equals $K1.27 + K1.40 + 1.46 + K1.49 + K1.52 + K1.56 + K1.60 + K1.67 + K1.69$

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
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Line	K1.114	Q&SII & IIIa Enhancement Expenditure
-------------	---------------	--------------------------------------

Line Definition: Total capital expenditure to complete the enhancement improvements for the Q&SII and Q&SIIIa periods.

Processing Rule: Calculated field: equals K1.83 + K.197 + K1.103

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
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Line	K1.115	Q&SIV Early Start Expenditure
-------------	---------------	-------------------------------

Line Definition: The capital expenditure financed to ensure continuity of investment by allowing investment in the Quality and Standards 4 (Q&SIV) period to commence prior to the 2015 financial year.

Processing Rule: Input

Field Type: Input

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
--------------	----------	----------------------

Line	K1.116	Gross Capital Investment
-------------	---------------	--------------------------

Line Definition: Total investment for the 2010-15 period before grants and contributions are accounted for.

Processing Rule: Calculated field: sum K1.110 to K1.113

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Section: K Investment Plan

Table	1	Summary - Investment
Line	K1.117	Total capital contributions

Line Definition: The total forecast for income received in the form of grants, contributions and infrastructure charges.

Processing Rule: Calculated field: equals K1.109

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.118	Net Capital Investment

Line Definition: Total investment for the 2010-15 period after grants and contributions are accounted for.

Processing Rule: Calculated field: equals K1.113 minus K1.114

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06:

Table	1	Summary - Investment
Line	K1.119	Total Asset additions

Line Definition: The total value of the additions to Scottish Water's asset base as a result of the investment in the 2010-15 period.

Processing Rule: Calculated field: equals K1.111 + K1.112 + K1.113

Field Type: Calculated field

Previous References: Ofwat 07: WICS 06: